

AirSched Reference Manual

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1 AirSched Documentation

1.1 Getting Started

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1.2 AirSched at SourceForge

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1.3 AirSched Development

- [Git Repository](#) (Subversion is deprecated)
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- [Documentation Rules](#)
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1.4 External Libraries

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- [Python](#)
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1.5 Support AirSched

1.6 About AirSched

AirSched is a C++ library of classes and functions modeling airline schedules, for instance allowing to retrieve all the flight-based travel solutions corresponding to a given pair of origin and destination points. AirSched mainly targets simulation purposes. [N](#)

AirSched makes an extensive use of existing open-source libraries for increased functionality, speed and accuracy. In particular Boost (*C++ STL Extensions*) library is used.

The AirSched project originates from the department of Operational Research and Innovation at [Amadeus](#), Sophia Antipolis, France. AirSched is released under the terms of the GNU Lesser General Public License (LGPLv2.1) for you to enjoy.

AirSched should work on [GNU/Linux](#), [Sun Solaris](#), Microsoft Windows (with [Cygwin](#), [MinGW/MSYS](#), or [Microsoft Visual C++ .NET](#)) and [Mac OS X](#) operating systems.

Note:

(N) - The AirSched library is **NOT** intended, in any way, to be used by airlines for production systems. If you want to report issue, bug or feature request, or if you just want to give feedback, have a look on the right-hand side of this page for the preferred reporting methods. In any case, please do not contact Amadeus directly for any matter related to AirSched.

2 AirSched Directory Hierarchy

2.1 AirSched Directories

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3.1 AirSched Namespace List

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4 AirSched Hierarchical Index

4.1 AirSched Class Hierarchy

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| std::allocator< T > | |
| std::auto_ptr< T > | |
| std::basic_string< Char > | |
| std::basic_string< char > | |
| std::string | |
| std::basic_string< wchar_t > | |
| std::wstring | |
| std::bitset< Bits > | |
| BomAbstract | 43 |
| AIRSCHEd::OriginDestinationSet | 86 |
| AIRSCHEd::ReachableUniverse | 98 |
| AIRSCHEd::SegmentPathPeriod | 115 |
| AIRSCHEd::BomDisplay | 43 |
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| AIRSCHEd::InventoryGenerator | 70 |
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| std::complex | |
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| std::deque< T > | |
| std::exception | |
| std::bad_alloc | |
| std::bad_cast | |
| std::bad_exception | |
| std::bad_typeid | |
| std::ios_base::failure | |
| std::logic_error | |
| std::domain_error | |
| std::invalid_argument | |
| std::length_error | |
| std::out_of_range | |
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| grammar | 70 |
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| AIRSCHEd::ScheduleParserHelper::FlightPeriodParser | 56 |
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| std::ios_base | |
| std::basic_ios | |
| std::basic_istream | |
| std::basic_ifstream | |
| std::basic_iostream | |
| std::basic_fstream | |
| std::basic_stringstream | |
| std::basic_istringstream | |
| std::basic_ostream | |
| std::basic_iostream | |
| std::basic_ofstream | |
| std::basic_ostringstream | |
| std::basic_ios< char > | |
| std::basic_istream< char > | |
| std::basic_ifstream< char > | |

```

    std::ifstream
std::basic_iostream< char >
    std::basic_fstream< char >
        std::fstream
    std::basic_stringstream< char >
        std::stringstream
std::basic_istream< char >
    std::istream
std::basic_ostream< char >
    std::basic_iostream< char >
    std::basic_ofstream< char >
        std::ofstream
    std::basic_ostringstream< char >
        std::ostringstream
std::ostream
std::ios
std::basic_ios< wchar_t >
    std::basic_istream< wchar_t >
        std::basic_ifstream< wchar_t >
            std::wifstream
    std::basic_iostream< wchar_t >
        std::basic_fstream< wchar_t >
            std::wfstream
        std::basic_stringstream< wchar_t >
            std::wstringstream
    std::basic_istream< wchar_t >
        std::wistream
    std::basic_ostream< wchar_t >
        std::basic_iostream< wchar_t >
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| std::map< K, T > | |
| std::multimap< K, T > | |
| std::multiset< K > | |
| AIRSCHEd::OnDParserHelper::OnDParser::definition< ScannerT > | 78 |
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| AIRSCHEd::ScheduleParserHelper::storeAirlineCode | 141 |
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| AIRSCHEd::ScheduleParserHelper::storeCapacity | 144 |
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| AIRSCHEd::ScheduleParserHelper::storeDow | 156 |
| AIRSCHEd::ScheduleParserHelper::storeElapsedTime | 157 |
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| std::queue< T > | |
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| std::valarray< T > | |
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5 AirSched Class Index

5.1 AirSched Class List

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- directory [batches](#)
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- directory [service](#)

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- file [AIRSCHED_Service.hpp](#)
- file [AIRSCHED_Types.hpp](#)

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- file [BasConst.cpp](#)
- file [BasConst_AIRSCHED_Service.hpp](#)
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- file [airsched-paths.hpp.in](#)

8.8 airsched/factory/ Directory Reference

Files

- file [FacAIRSCHEDServiceContext.cpp](#)
- file [FacAIRSCHEDServiceContext.hpp](#)
- file [FacServiceAbstract.cpp](#)
- file [FacServiceAbstract.hpp](#)

8.9 airsched/service/ Directory Reference

Files

- file [AIRSCHED_Service.cpp](#)
- file [AIRSCHED_ServiceContext.cpp](#)
- file [AIRSCHED_ServiceContext.hpp](#)
- file [ServiceAbstract.cpp](#)
- file [ServiceAbstract.hpp](#)

8.10 test/ Directory Reference

Directories

- directory [airsched](#)

9 AirSched Namespace Documentation

9.1 airsched Namespace Reference

Classes

- struct [store_place_element](#)
- struct [store_date](#)
- struct [store_airline_sign](#)
- struct [store_airline_code](#)
- struct [store_airline_name](#)
- struct [store_passenger_number](#)
- struct [store_adult_passenger_type](#)
- struct [store_child_passenger_type](#)
- struct [store_pet_passenger_type](#)
- struct [SearchStringParser](#)
- struct [Place_T](#)
- struct [Date_T](#)
- struct [Airline_T](#)
- struct [Passenger_T](#)
- struct [SearchString_T](#)

Typedefs

- typedef std::vector< [Place_T](#) > [PlaceList_T](#)
- typedef std::vector< [Date_T](#) > [DateList_T](#)
- typedef std::vector< [Airline_T](#) > [AirlineList_T](#)
- typedef std::vector< [Passenger_T](#) > [PassengerList_T](#)

Functions

- [SearchString_T](#) [parseBookingRequest](#) (const std::string &iSearchString)

Variables

- boost::spirit::classic::int_parser< unsigned int, 10, 1, 1 > [int1_p](#)
- boost::spirit::classic::uint_parser< unsigned int, 10, 1, 1 > [uint1_p](#)
- boost::spirit::classic::uint_parser< unsigned int, 10, 1, 2 > [uint1_2_p](#)
- boost::spirit::classic::uint_parser< int, 10, 2, 2 > [uint2_p](#)
- boost::spirit::classic::uint_parser< int, 10, 2, 4 > [uint2_4_p](#)
- boost::spirit::classic::uint_parser< int, 10, 4, 4 > [uint4_p](#)
- boost::spirit::classic::uint_parser< int, 10, 1, 4 > [uint1_4_p](#)

9.1.1 Typedef Documentation

9.1.1.1 `typedef std::vector<Place_T> airsched::PlaceList_T`

List of Place strucutres.

Definition at line 24 of file BookingRequestParser.hpp.

9.1.1.2 `typedef std::vector<Date_T> airsched::DateList_T`

List of Date strucutres.

Definition at line 49 of file BookingRequestParser.hpp.

9.1.1.3 `typedef std::vector<Airline_T> airsched::AirlineList_T`

List of Airline strucutres.

Definition at line 68 of file BookingRequestParser.hpp.

9.1.1.4 `typedef std::vector<Passenger_T> airsched::PassengerList_T`

List of Passenger strucutres.

Definition at line 91 of file BookingRequestParser.hpp.

9.1.2 Function Documentation

9.1.2.1 `SearchString_T airsched::parseBookingRequest (const std::string & iSearchString)`

Parse the booking request.

Sample guadeloupe rio de janeiro 07/22/2009 +aa -ua 2 adults 1 dog

Grammar: search_string ::= places [dates] (preferred_airlines) (passengers) dates ::= board_date [off_date]
 places ::= [board_place] off_place board_place ::= place_elements off_place ::= place_elements place_
 elements ::= country | city | airport country ::= country_code | country_name city ::= city_code | city_name
 airport ::= airport_code | airport_name preferred_airlines ::= [+|-] airline_code | airline_name passen-
 gers ::= adult_number adult_description [child_number child_description] [pet_number pet_description]
 adult_description ::= 'adult' | 'adults' | 'pax' | 'passengers' child_description ::= 'child' | 'children' | 'kid'
 | 'kids' pet_description ::= 'dog' | 'dogs' | 'cat' | 'cats'

Definition at line 373 of file BookingRequestParser.cpp.

9.1.3 Variable Documentation

9.1.3.1 `boost::spirit::classic::int_parser<unsigned int, 10, 1, 1> airsched::int1_p`

1-digit-integer parser

Definition at line 203 of file BookingRequestParser.cpp.

9.1.3.2 `boost::spirit::classic::uint_parser<unsigned int, 10, 1, 1> airsched::uint1_p`

1-digit-integer parser

Definition at line 205 of file BookingRequestParser.cpp.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

9.1.3.3 `boost::spirit::classic::uint_parser<unsigned int, 10, 1, 2>` [airsched::uint1_2_p](#)

Up-to-2-digit-integer parser

Definition at line 207 of file BookingRequestParser.cpp.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

9.1.3.4 `boost::spirit::classic::uint_parser<int, 10, 2, 2>` [airsched::uint2_p](#)

2-digit-integer parser

Definition at line 209 of file BookingRequestParser.cpp.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

9.1.3.5 `boost::spirit::classic::uint_parser<int, 10, 2, 4>` [airsched::uint2_4_p](#)

Up-to-4-digit-integer parser

Definition at line 211 of file BookingRequestParser.cpp.

9.1.3.6 `boost::spirit::classic::uint_parser<int, 10, 4, 4>` [airsched::uint4_p](#)

4-digit-integer parser

Definition at line 213 of file BookingRequestParser.cpp.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

9.1.3.7 `boost::spirit::classic::uint_parser<int, 10, 1, 4>` [airsched::uint1_4_p](#)

Up-to-4-digit-integer parser

Definition at line 215 of file BookingRequestParser.cpp.

9.2 AIRSCHED Namespace Reference

Classes

- class [AIRSCHED_Service](#)
Interface for the AirSched Services.
- class [SegmentDateNotFoundException](#)
- class [OnDInputFileNotFoundException](#)
- class [ScheduleInputFileNotFoundException](#)
- struct [FlagSaver](#)
- class [BomDisplay](#)
Utility class to display AirSched objects with a pretty format.
- struct [FareFamilyStruct](#)
- struct [FlightPeriodStruct](#)
- struct [LegCabinStruct](#)
- struct [LegStruct](#)
- struct [OnDPeriodStruct](#)
- class [OriginDestinationSet](#)

Class representing a simple sub-network.

- struct [OriginDestinationSetKey](#)

Structure representing the key of a sub-network.

- class [ReachableUniverse](#)

Class representing the root of the schedule-related BOM tree.

- struct [ReachableUniverseKey](#)

Structure representing the key of the schedule-related BOM tree root.

- struct [SegmentCabinStruct](#)

- class [SegmentPathPeriod](#)

Class representing a segment/path.

- struct [SegmentPathPeriodKey](#)

Structure representing the key of a segment/path.

- class [SegmentPeriodHelper](#)

- struct [SegmentStruct](#)

- class [InventoryGenerator](#)

- class [OnDParser](#)

Class wrapping the parser entry point.

- class [OnDPeriodFileParser](#)

- class [OnDPeriodGenerator](#)

Class handling the generation / instantiation of the O&D-Period BOM.

- class [ScheduleParser](#)

- class [FlightPeriodFileParser](#)

- class [SegmentPathGenerator](#)

Class handling the generation / instantiation of the network BOM.

- class [SegmentPathProvider](#)

Class building the travel solutions from airline schedules.

- class [Simulator](#)

- class [TravelSolutionParser](#)

Class filling the TravelSolutionHolder structure (representing a list of classes/travelSolutions) from a given input file.

- class [FacAIRSCHEdServiceContext](#)

Factory for the service context.

- class [FacServiceAbstract](#)

- class [AIRSCHEd_ServiceContext](#)

Class holding the context of the AirSched services.

- class [ServiceAbstract](#)

Namespaces

- namespace [ScheduleParserHelper](#)
- namespace [OnDParserHelper](#)

Typedefs

- typedef boost::shared_ptr< [AIRSCHED_Service](#) > [AIRSCHED_ServicePtr_T](#)
- typedef char [char_t](#)
- typedef boost::spirit::classic::file_iterator< [char_t](#) > [iterator_t](#)
- typedef boost::spirit::classic::scanner< [iterator_t](#) > [scanner_t](#)
- typedef boost::spirit::classic::rule< [scanner_t](#) > [rule_t](#)
- typedef boost::spirit::classic::int_parser< unsigned int, 10, 1, 1 > [int1_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 2, 2 > [uint2_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 4, 4 > [uint4_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 1, 4 > [uint1_4_p_t](#)
- typedef boost::spirit::classic::chset< [char_t](#) > [chset_t](#)
- typedef boost::spirit::classic::impl::loop_traits< [chset_t](#), unsigned int, unsigned int >::type [repeat_p_t](#)
- typedef boost::spirit::classic::bounded< [uint2_p_t](#), unsigned int > [bounded2_p_t](#)
- typedef boost::spirit::classic::bounded< [uint4_p_t](#), unsigned int > [bounded4_p_t](#)
- typedef boost::spirit::classic::bounded< [uint1_4_p_t](#), unsigned int > [bounded1_4_p_t](#)
- typedef std::set< stdair::AirportCode_T > [AirportList_T](#)
- typedef std::vector< stdair::AirportCode_T > [AirportOrderedList_T](#)
- typedef std::vector< [FareFamilyStruct](#) > [FareFamilyStructList_T](#)
- typedef std::vector< [LegCabinStruct](#) > [LegCabinStructList_T](#)
- typedef std::vector< [LegStruct](#) > [LegStructList_T](#)
- typedef std::list< [OriginDestinationSet](#) * > [OriginDestinationSetList_T](#)
- typedef std::map< const stdair::MapKey_T, [OriginDestinationSet](#) * > [OriginDestinationSetMap_T](#)
- typedef std::list< [ReachableUniverse](#) * > [ReachableUniverseList_T](#)
- typedef std::map< const stdair::MapKey_T, [ReachableUniverse](#) * > [ReachableUniverseMap_T](#)
- typedef std::vector< [SegmentCabinStruct](#) > [SegmentCabinStructList_T](#)
- typedef std::list< [SegmentPathPeriod](#) * > [SegmentPathPeriodList_T](#)
- typedef std::multimap< const stdair::MapKey_T, [SegmentPathPeriod](#) * > [SegmentPathPeriod-Multimap_T](#)
- typedef std::vector< const [SegmentPathPeriod](#) * > [SegmentPathPeriodLightList_T](#)
- typedef std::vector< [SegmentPathPeriodLightList_T](#) > [SegmentPathPeriodListList_T](#)
- typedef std::vector< stdair::DateOffset_T > [DateOffsetList_T](#)
- typedef std::vector< [SegmentStruct](#) > [SegmentStructList_T](#)

Functions

- const stdair::Duration_T [MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE](#) (4, 0)
- template void [OriginDestinationSet::serialize](#)< ba::text_oarchive > (ba::text_oarchive &, unsigned int)
- template void [OriginDestinationSet::serialize](#)< ba::text_iarchive > (ba::text_iarchive &, unsigned int)
- template void [OriginDestinationSetKey::serialize](#)< ba::text_oarchive > (ba::text_oarchive &, unsigned int)

- template void [OriginDestinationSetKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)
- template void [ReachableUniverse::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [ReachableUniverse::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)
- template void [ReachableUniverseKey::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [ReachableUniverseKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)
- template void [SegmentPathPeriod::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [SegmentPathPeriod::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)
- template void [SegmentPathPeriodKey::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [SegmentPathPeriodKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)

Variables

- const int [DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION](#) = 100000
- const int [DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION](#)
- const std::duration<T> [MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE](#)

9.2.1 Typedef Documentation

9.2.1.1 typedef boost::shared_ptr<[AIRSCHED_Service](#)> [AIRSCHED::AIRSCHED_ServicePtr_T](#)

(Smart) Pointer on the AirSched service handler.

Definition at line 62 of file [AIRSCHED_Types.hpp](#).

9.2.1.2 typedef char [AIRSCHED::char_t](#)

Definition at line 31 of file [BasParserTypes.hpp](#).

9.2.1.3 typedef boost::spirit::classic::file_iterator<[char_t](#)> [AIRSCHED::iterator_t](#)

Definition at line 35 of file [BasParserTypes.hpp](#).

9.2.1.4 typedef boost::spirit::classic::scanner<[iterator_t](#)> [AIRSCHED::scanner_t](#)

Definition at line 36 of file [BasParserTypes.hpp](#).

9.2.1.5 typedef boost::spirit::classic::rule<[scanner_t](#)> [AIRSCHED::rule_t](#)

Definition at line 37 of file [BasParserTypes.hpp](#).

9.2.1.6 typedef boost::spirit::classic::int_parser<unsigned int, 10, 1, 1> [AIRSCHED::int1_p_t](#)

1-digit-integer parser

Definition at line 45 of file [BasParserTypes.hpp](#).

9.2.1.7 `typedef boost::spirit::classic::uint_parser<unsigned int, 10, 2, 2> AIRSCHED::uint2_p_t`

2-digit-integer parser

Definition at line 48 of file BasParserTypes.hpp.

9.2.1.8 `typedef boost::spirit::classic::uint_parser<unsigned int, 10, 4, 4> AIRSCHED::uint4_p_t`

4-digit-integer parser

Definition at line 51 of file BasParserTypes.hpp.

9.2.1.9 `typedef boost::spirit::classic::uint_parser<unsigned int, 10, 1, 4> AIRSCHED::uint1_4_p_t`

Up-to-4-digit-integer parser

Definition at line 54 of file BasParserTypes.hpp.

9.2.1.10 `typedef boost::spirit::classic::chset<char_t> AIRSCHED::chset_t`

character set

Definition at line 57 of file BasParserTypes.hpp.

9.2.1.11 `typedef boost::spirit::classic::impl::loop_traits<chset_t, unsigned int, unsigned int>::type AIRSCHED::repeat_p_t`

(Repeating) sequence of a given number of characters: repeat_p(min, max)

Definition at line 63 of file BasParserTypes.hpp.

9.2.1.12 `typedef boost::spirit::classic::bounded<uint2_p_t, unsigned int> AIRSCHED::bounded2_p_t`

Bounded-number-of-integers parser

Definition at line 66 of file BasParserTypes.hpp.

9.2.1.13 `typedef boost::spirit::classic::bounded<uint4_p_t, unsigned int> AIRSCHED::bounded4_p_t`

Definition at line 67 of file BasParserTypes.hpp.

9.2.1.14 `typedef boost::spirit::classic::bounded<uint1_4_p_t, unsigned int> AIRSCHED::bounded1_4_p_t`

Definition at line 68 of file BasParserTypes.hpp.

9.2.1.15 `typedef std::set<stdair::AirportCode_T> AIRSCHED::AirportList_T`

Define lists of Airport Codes.

Definition at line 16 of file AirportList.hpp.

9.2.1.16 `typedef std::vector<stdair::AirportCode_T> AIRSCHED::AirportOrderedList_T`

Definition at line 17 of file AirportList.hpp.

9.2.1.17 `typedef std::vector<FareFamilyStruct> AIRSCHED::FareFamilyStructList_T`

List of FareFamily-Detail structures.

Definition at line 34 of file FareFamilyStruct.hpp.

9.2.1.18 `typedef std::vector<LegCabinStruct> AIRSCHED::LegCabinStructList_T`

List of LegCabin-Detail strucutres.

Definition at line 36 of file LegCabinStruct.hpp.

9.2.1.19 `typedef std::vector<LegStruct> AIRSCHED::LegStructList_T`

List of Leg strucutres.

Definition at line 52 of file LegStruct.hpp.

9.2.1.20 `typedef std::list<OriginDestinationSet*> AIRSCHED::OriginDestinationSetList_T`

Define the [OriginDestinationSet](#) list.

Definition at line 18 of file OriginDestinationSetTypes.hpp.

9.2.1.21 `typedef std::map<const stdair::MapKey_T, OriginDestinationSet*> AIRSCHED::OriginDestinationSetMap_T`

Define the [OriginDestinationSet](#) map.

Definition at line 25 of file OriginDestinationSetTypes.hpp.

9.2.1.22 `typedef std::list<ReachableUniverse*> AIRSCHED::ReachableUniverseList_T`

Define the reachable-universe list.

Definition at line 18 of file ReachableUniverseTypes.hpp.

9.2.1.23 `typedef std::map<const stdair::MapKey_T, ReachableUniverse*> AIRSCHED::ReachableUniverseMap_T`

Define the reachable-universe map.

Definition at line 25 of file ReachableUniverseTypes.hpp.

9.2.1.24 `typedef std::vector<SegmentCabinStruct> AIRSCHED::SegmentCabinStructList_T`

List of SegmentCabin-Detail strucutres.

Definition at line 43 of file SegmentCabinStruct.hpp.

9.2.1.25 `typedef std::list<SegmentPathPeriod*> AIRSCHED::SegmentPathPeriodList_T`

Define the segment path list.

Definition at line 20 of file SegmentPathPeriodTypes.hpp.

9.2.1.26 `typedef std::multimap<const stdair::MapKey_T, SegmentPathPeriod*> AIRSCHED::SegmentPathPeriodMultimap_T`

Define the segment path map.

Definition at line 27 of file SegmentPathPeriodTypes.hpp.

9.2.1.27 `typedef std::vector<const SegmentPathPeriod*> AIRSCHED::SegmentPathPeriodLightList_T`

Define the (temporary) containers of segment path period.

Definition at line 30 of file SegmentPathPeriodTypes.hpp.

9.2.1.28 `typedef std::vector<SegmentPathPeriodLightList_T> AIRSCHED::SegmentPathPeriodListList_T`

Definition at line 31 of file SegmentPathPeriodTypes.hpp.

9.2.1.29 `typedef std::vector<stdair::DateOffset_T> AIRSCHED::DateOffsetList_T`

Define the vector of boarding date offsets of the member segments of a segment path compare to the boarding date of the first segment.

Definition at line 35 of file SegmentPathPeriodTypes.hpp.

9.2.1.30 `typedef std::vector<SegmentStruct> AIRSCHED::SegmentStructList_T`

List of Segment structres.

Definition at line 44 of file SegmentStruct.hpp.

9.2.2 Function Documentation

9.2.2.1 `const stdair::Duration_T AIRSCHED::MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE (4, 0, 0)`

Default value for the minimum time between the request and the departure time.

9.2.2.2 `template void AIRSCHED::OriginDestinationSet::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.3 `template void AIRSCHED::OriginDestinationSet::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.2.4 `template void AIRSCHED::OriginDestinationSetKey::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.5 `template void AIRSCHED::OriginDestinationSetKey::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.2.6 `template void AIRSCHED::ReachableUniverse::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.7 `template void AIRSCHED::ReachableUniverse::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.2.8 `template void AIRSCHED::ReachableUniverseKey::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.9 `template void AIRSCHED::ReachableUniverseKey::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.2.10 `template void AIRSCHED::SegmentPathPeriod::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.11 `template void AIRSCHED::SegmentPathPeriod::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.2.12 `template void AIRSCHED::SegmentPathPeriodKey::serialize< ba::text_oarchive > (ba::text_oarchive &, unsigned int)`

9.2.2.13 `template void AIRSCHED::SegmentPathPeriodKey::serialize< ba::text_iarchive > (ba::text_iarchive &, unsigned int)`

9.2.3 Variable Documentation

9.2.3.1 `const int AIRSCHED::DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION = 100000`

Default value for the number of draws within the Monte-Carlo Integration algorithm.

Definition at line 8 of file BasConst.cpp.

9.2.3.2 `const int AIRSCHED::DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION`

Default value for the number of draws within the Monte-Carlo Integration algorithm.

Definition at line 8 of file BasConst.cpp.

9.2.3.3 `const stdair::Duration_T AIRSCHED::MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE`

Default value for the minimum time between the request and the departure time.

9.3 AIRSCHED::OnDParserHelper Namespace Reference

Classes

- struct [ParserSemanticAction](#)

- struct [storeOrigin](#)
- struct [storeDestination](#)
- struct [storeDateRangeStart](#)
- struct [storeDateRangeEnd](#)
- struct [storeStartRangeTime](#)
- struct [storeEndRangeTime](#)
- struct [storeAirlineCode](#)
- struct [storeClassCode](#)
- struct [doEndOnD](#)
- struct [OnDParser](#)

Functions

- [chset_t alpha_cap_set_p](#) ("A-Z")
- [repeat_p_t airport_p](#) ([chset_t](#)("0-9A-Z").derived(), 3, 3)
- [repeat_p_t airline_code_p](#) ([alpha_cap_set_p](#).derived(), 2, 3)
- [bounded4_p_t year_p](#) ([uint4_p](#).derived(), 2000u, 2099u)
- [bounded2_p_t month_p](#) ([uint2_p](#).derived(), 1u, 12u)
- [bounded2_p_t day_p](#) ([uint2_p](#).derived(), 1u, 31u)
- [bounded2_p_t hours_p](#) ([uint2_p](#).derived(), 0u, 23u)
- [bounded2_p_t minutes_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [bounded2_p_t seconds_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [chset_t class_code_p](#) ("A-Z")

Variables

- [uint2_p_t uint2_p](#)
- [uint4_p_t uint4_p](#)
- [uint1_4_p_t uint1_4_p](#)

9.3.1 Function Documentation

9.3.1.1 [chset_t](#) AIRSCHED::OnDParserHelper::alpha_cap_set_p ("A-Z")

Sequence of (capital) alphabetic characters: [chset_p](#)("A-Z")

9.3.1.2 [repeat_p_t](#) AIRSCHED::OnDParserHelper::airport_p ([chset_t](#)("0-9A-Z").derived(), 3, 3)

Airport Parser: [repeat_p](#)(3)[[chset_p](#)("0-9A-Z")]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.3 [repeat_p_t](#) AIRSCHED::OnDParserHelper::airline_code_p ([alpha_cap_set_p](#).derived(), 2, 3)

Airline Code Parser: [repeat_p](#)(2,3)[[chset_p](#)("0-9A-Z")]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.4 [bounded4_p_t](#) AIRSCHED::OnDParserHelper::year_p (uint4_p. *derived()*, 2000u, 2099u)

Year Parser: limit_d(2000u, 2099u)[uint4_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.5 [bounded2_p_t](#) AIRSCHED::OnDParserHelper::month_p (uint2_p. *derived()*, 1u, 12u)

Month Parser: limit_d(1u, 12u)[uint2_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.6 [bounded2_p_t](#) AIRSCHED::OnDParserHelper::day_p (uint2_p. *derived()*, 1u, 31u)

Day Parser: limit_d(1u, 31u)[uint2_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.7 [bounded2_p_t](#) AIRSCHED::OnDParserHelper::hours_p (uint2_p. *derived()*, 0u, 23u)

Hour Parser: limit_d(0u, 23u)[uint2_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.8 [bounded2_p_t](#) AIRSCHED::OnDParserHelper::minutes_p (uint2_p. *derived()*, 0u, 59u)

Minute Parser: limit_d(0u, 59u)[uint2_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.9 [bounded2_p_t](#) AIRSCHED::OnDParserHelper::seconds_p (uint2_p. *derived()*, 0u, 59u)

Second Parser: limit_d(0u, 59u)[uint2_p]

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.1.10 [chset_t](#) AIRSCHED::OnDParserHelper::class_code_p ("A-Z")

Class Code Parser: chset_p("A-Z")

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

9.3.2 Variable Documentation**9.3.2.1 [uint2_p_t](#) AIRSCHED::OnDParserHelper::uint2_p**

2-digit-integer parser

Definition at line 215 of file OnDParserHelper.cpp.

9.3.2.2 [uint4_p_t](#) AIRSCHED::OnDParserHelper::uint4_p

4-digit-integer parser

Definition at line 218 of file OnDParserHelper.cpp.

9.3.2.3 uint1_4_p_t AIRSCHED::OnDParserHelper::uint1_4_p

Up-to-4-digit-integer parser

Definition at line 221 of file OnDParserHelper.cpp.

9.4 AIRSCHED::ScheduleParserHelper Namespace Reference**Classes**

- struct [ParserSemanticAction](#)
- struct [storeAirlineCode](#)
- struct [storeFlightNumber](#)
- struct [storeDateRangeStart](#)
- struct [storeDateRangeEnd](#)
- struct [storeDow](#)
- struct [storeLegBoardingPoint](#)
- struct [storeLegOffPoint](#)
- struct [storeOperatingAirlineCode](#)
- struct [storeOperatingFlightNumber](#)
- struct [storeBoardingTime](#)
- struct [storeOffTime](#)
- struct [storeElapsedTime](#)
- struct [storeLegCabinCode](#)
- struct [storeCapacity](#)
- struct [storeSegmentSpecificity](#)
- struct [storeSegmentBoardingPoint](#)
- struct [storeSegmentOffPoint](#)
- struct [storeSegmentCabinCode](#)
- struct [storeClasses](#)
- struct [storeFamilyCode](#)
- struct [storeFRAT5CurveKey](#)
- struct [storeFFDisutilityCurveKey](#)
- struct [storeFClasses](#)
- struct [doEndFlight](#)
- struct [FlightPeriodParser](#)

Functions

- [repeat_p_t airline_code_p](#) ([chset_t](#)("0-9A-Z").[derived](#)(), 2, 3)
- [bounded1_4_p_t flight_number_p](#) ([uint1_4_p](#).[derived](#)(), 0u, 9999u)
- [bounded4_p_t year_p](#) ([uint4_p](#).[derived](#)(), 2000u, 2099u)
- [bounded2_p_t month_p](#) ([uint2_p](#).[derived](#)(), 1u, 12u)
- [bounded2_p_t day_p](#) ([uint2_p](#).[derived](#)(), 1u, 31u)
- [repeat_p_t dow_p](#) ([chset_t](#)("0-1").[derived](#)().[derived](#)(), 7, 7)
- [repeat_p_t airport_p](#) ([chset_t](#)("0-9A-Z").[derived](#)(), 3, 3)
- [bounded2_p_t hours_p](#) ([uint2_p](#).[derived](#)(), 0u, 23u)
- [bounded2_p_t minutes_p](#) ([uint2_p](#).[derived](#)(), 0u, 59u)
- [bounded2_p_t seconds_p](#) ([uint2_p](#).[derived](#)(), 0u, 59u)
- [chset_t cabin_code_p](#) ("A-Z")
- [repeat_p_t key_p](#) ([chset_t](#)("0-9A-Z").[derived](#)(), 1, 10)
- [repeat_p_t class_code_list_p](#) ([chset_t](#)("A-Z").[derived](#)(), 1, 26)

Variables

- [int1_p_t int1_p](#)
- [uint2_p_t uint2_p](#)
- [uint4_p_t uint4_p](#)
- [uint1_4_p_t uint1_4_p](#)
- [int1_p_t family_code_p](#)

9.4.1 Function Documentation

9.4.1.1 [repeat_p_t](#) AIRSCHED::ScheduleParserHelper::airline_code_p ([chset_t](#)("0-9A-Z").[derived\(\)](#), 2, 3)

Airline Code Parser: [repeat_p](#)(2,3)[[chset_p](#)("0-9A-Z")]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.2 [bounded1_4_p_t](#) AIRSCHED::ScheduleParserHelper::flight_number_p ([uint1_4_p](#). *derived()*, 0u, 9999u)

Flight Number Parser: [limit_d](#)(0u, 9999u)[[uint1_4_p](#)]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.3 [bounded4_p_t](#) AIRSCHED::ScheduleParserHelper::year_p ([uint4_p](#). *derived()*, 2000u, 2099u)

Year Parser: [limit_d](#)(2000u, 2099u)[[uint4_p](#)]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.4 [bounded2_p_t](#) AIRSCHED::ScheduleParserHelper::month_p ([uint2_p](#). *derived()*, 1u, 12u)

Month Parser: [limit_d](#)(1u, 12u)[[uint2_p](#)]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.5 [bounded2_p_t](#) AIRSCHED::ScheduleParserHelper::day_p ([uint2_p](#). *derived()*, 1u, 31u)

Day Parser: [limit_d](#)(1u, 31u)[[uint2_p](#)]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.6 [repeat_p_t](#) AIRSCHED::ScheduleParserHelper::dow_p ([chset_t](#)("0-1").[derived\(\)](#).[derived\(\)](#), 7, 7)

DOW (Day-Of-the-Week) Parser: [repeat_p](#)(7)[[chset_p](#)("0-1")]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.7 repeat_p_t AIRSCHED::ScheduleParserHelper::airport_p ([chset_t](#)("0-9A-Z").derived(), 3, 3)

Airport Parser: repeat_p(3)[chset_p("0-9A-Z")]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.8 bounded2_p_t AIRSCHED::ScheduleParserHelper::hours_p (uint2_p. *derived()*, 0u, 23u)

Hour Parser: limit_d(0u, 23u)[uint2_p]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.9 bounded2_p_t AIRSCHED::ScheduleParserHelper::minutes_p (uint2_p. *derived()*, 0u, 59u)

Minute Parser: limit_d(0u, 59u)[uint2_p]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.10 bounded2_p_t AIRSCHED::ScheduleParserHelper::seconds_p (uint2_p. *derived()*, 0u, 59u)

Second Parser: limit_d(0u, 59u)[uint2_p]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.11 chset_t AIRSCHED::ScheduleParserHelper::cabin_code_p ("A-Z")

Cabin Code Parser: chset_p("A-Z")

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.12 repeat_p_t AIRSCHED::ScheduleParserHelper::key_p ([chset_t](#)("0-9A-Z").derived(), 1, 10)

Key Parser: repeat_p(1,10)[chset_p("0-9A-Z")]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.1.13 repeat_p_t AIRSCHED::ScheduleParserHelper::class_code_list_p ([chset_t](#)("A-Z").derived(), 1, 26)

Class Code List Parser: repeat_p(1,26)[chset_p("A-Z")]

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.2 Variable Documentation

9.4.2.1 [int1_p_t AIRSCHED::ScheduleParserHelper::int1_p](#)

1-digit-integer parser

Definition at line 473 of file ScheduleParserHelper.cpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.4.2.2 [uint2_p_t AIRSCHED::ScheduleParserHelper::uint2_p](#)

2-digit-integer parser

Definition at line 476 of file ScheduleParserHelper.cpp.

9.4.2.3 [uint4_p_t AIRSCHED::ScheduleParserHelper::uint4_p](#)

4-digit-integer parser

Definition at line 479 of file ScheduleParserHelper.cpp.

9.4.2.4 [uint1_4_p_t AIRSCHED::ScheduleParserHelper::uint1_4_p](#)

Up-to-4-digit-integer parser

Definition at line 482 of file ScheduleParserHelper.cpp.

9.4.2.5 [int1_p_t AIRSCHED::ScheduleParserHelper::family_code_p](#)

Family code parser

Definition at line 518 of file ScheduleParserHelper.cpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

9.5 boost Namespace Reference

Forward declarations.

Namespaces

- namespace [serialization](#)

9.5.1 Detailed Description

Forward declarations.

9.6 boost::serialization Namespace Reference

9.7 boost::spirit::classic Namespace Reference

9.7.1 Detailed Description

Sample guadeloupe rio de janeiro 07/22/2009 +aa -ua 2 adults 1 dog

Grammar: search_string ::= places [dates] (preferred_airlines) (passengers) dates ::= board_date [off_date]
 places ::= [board_place] off_place board_place ::= place_elements off_place ::= place_elements place_
 elements ::= country | city | airport country ::= country_code | country_name city ::= city_code | city_name
 airport ::= airport_code | airport_name preferred_airlines ::= [+|-] airline_code | airline_name passen-
 gers ::= adult_number adult_description [child_number child_description] [pet_number pet_description]
 adult_description ::= 'adult' | 'adults' | 'pax' | 'passengers' child_description ::= 'child' | 'children' | 'kid'
 | 'kids' pet_description ::= 'dog' | 'dogs' | 'cat' | 'cats'

9.8 stdair Namespace Reference

Forward declarations.

9.8.1 Detailed Description

Forward declarations.

10 AirSched Class Documentation

10.1 airsched::Airline_T Struct Reference

```
#include <airsched/batches/BookingRequestParser.hpp>
```

Public Member Functions

- [Airline_T](#) ()
- void [display](#) () const

Public Attributes

- bool [_isPreferred](#)
- std::string [_name](#)
- std::string [_code](#)

10.1.1 Detailed Description

Airline.

Definition at line 52 of file BookingRequestParser.hpp.

10.1.2 Constructor & Destructor Documentation

10.1.2.1 `airsched::Airline_T::Airline_T()` [inline]

Constructor.

Definition at line 58 of file `BookingRequestParser.hpp`.

10.1.3 Member Function Documentation

10.1.3.1 `void airschd::Airline_T::display() const` [inline]

Definition at line 60 of file `BookingRequestParser.hpp`.

References `_code`, `_isPreferred`, and `_name`.

10.1.4 Member Data Documentation

10.1.4.1 `bool airschd::Airline_T::_isPreferred`

Definition at line 54 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_airline_sign::operator()`.

10.1.4.2 `std::string airschd::Airline_T::_name`

Definition at line 55 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_airline_name::operator()`.

10.1.4.3 `std::string airschd::Airline_T::_code`

Definition at line 56 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_airline_code::operator()`.

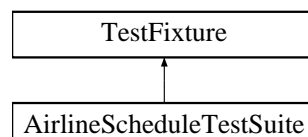
The documentation for this struct was generated from the following file:

- `airsched/batches/BookingRequestParser.hpp`

10.2 AirlineScheduleTestSuite Class Reference

```
#include <test/airsched/AirlineScheduleTestSuite.hpp>
```

Inheritance diagram for `AirlineScheduleTestSuite`:



Public Member Functions

- `void externalMemoryManagement()`

- void [scheduleParsing](#) ()
- [AirlineScheduleTestSuite](#) ()

Protected Attributes

- std::stringstream [_describeKey](#)

10.2.1 Detailed Description

Definition at line 6 of file [AirlineScheduleTestSuite.hpp](#).

10.2.2 Constructor & Destructor Documentation

10.2.2.1 [AirlineScheduleTestSuite::AirlineScheduleTestSuite](#) ()

Constructor.

10.2.3 Member Function Documentation

10.2.3.1 void [AirlineScheduleTestSuite::externalMemoryManagement](#) ()

Test the Optimisation functionality.

The code is aimed at testing the initialization of airline inventory-related objects which are mainly implemented in the stdair library. That means the memory allocation of these objects will be managed by the calling project and not by the called project.

10.2.3.2 void [AirlineScheduleTestSuite::scheduleParsing](#) ()

10.2.4 Member Data Documentation

10.2.4.1 std::stringstream [AirlineScheduleTestSuite::_describeKey](#) [protected]

Definition at line 26 of file [AirlineScheduleTestSuite.hpp](#).

The documentation for this class was generated from the following file:

- test/airsched/[AirlineScheduleTestSuite.hpp](#)

10.3 AIRSCHED::AIRSCHED_Service Class Reference

Interface for the AirSched Services.

```
#include <airsched/AIRSCHED_Service.hpp>
```

Public Member Functions

- [AIRSCHED_Service](#) (const stdair::BasLogParams &, const stdair::BasDBParams &)
- [AIRSCHED_Service](#) (const stdair::BasLogParams &)
- [AIRSCHED_Service](#) (stdair::STDAIR_ServicePtr_T ioSTDAIR_ServicePtr)
- void [parseAndLoad](#) (const stdair::ScheduleFilePath &)

- void [parseAndLoad](#) (const stdair::ScheduleFilePath &, const stdair::ODFilePath &)
- [~AIRSCHED_Service](#) ()
- void [buildSampleBom](#) ()
- void [clonePersistentBom](#) ()
- void [buildComplementaryLinks](#) (stdair::BomRoot &)
- void [buildSegmentPathList](#) (stdair::TravelSolutionList_T &, const stdair::BookingRequestStruct &)
- void [simulate](#) ()
- std::string [jsonExportFlightDateObjects](#) (const stdair::AirlineCode_T &, const stdair::FlightNumber_T &, const stdair::Date_T & iDepartureDate) const
- std::string [csvDisplay](#) () const
- std::string [csvDisplay](#) (const stdair::AirlineCode_T &, const stdair::FlightNumber_T &, const stdair::Date_T & iDepartureDate) const

10.3.1 Detailed Description

Interface for the AirSched Services.

Definition at line 32 of file AIRSCHED_Service.hpp.

10.3.2 Constructor & Destructor Documentation

10.3.2.1 AIRSCHED::AIRSCHED_Service::AIRSCHED_Service (const stdair::BasLogParams &, const stdair::BasDBParams &)

Constructor.

The initAirschedService() method is called; see the corresponding documentation for more details.

A reference on an output stream is given, so that log outputs can be directed onto that stream.

Moreover, database connection parameters are given, so that a session can be created on the corresponding database.

Parameters:

const stdair::BasLogParams& Parameters for the output log stream.

const stdair::BasDBParams& Parameters for the database access.

Definition at line 62 of file AIRSCHED_Service.cpp.

10.3.2.2 AIRSCHED::AIRSCHED_Service::AIRSCHED_Service (const stdair::BasLogParams &)

Constructor.

The initAirschedService() method is called; see the corresponding documentation for more details.

A reference on an output stream is given, so that log outputs can be directed onto that stream.

Parameters:

const stdair::BasLogParams& Parameters for the output log stream.

Definition at line 42 of file AIRSCHED_Service.cpp.

10.3.2.3 AIRSCHED::AIRSCHED_Service::AIRSCHED_Service (stdair::STDAIR_ServicePtr_T ioSTDAIR_ServicePtr)

Constructor.

The `initAirschedService()` method is called; see the corresponding documentation for more details.

Moreover, as no reference on any output stream is given, it is assumed that the StdAir log service has already been initialised with the proper log output stream by some other methods in the calling chain (for instance, when the [AIRSCHED_Service](#) is itself being initialised by another library service such as `SIMCRS_Service`).

Parameters:

stdair::STDAIR_ServicePtr_T Reference on the STDAIR service.

Definition at line 84 of file `AIRSCHED_Service.cpp`.

10.3.2.4 AIRSCHED::AIRSCHED_Service::~~AIRSCHED_Service ()

Destructor.

Definition at line 100 of file `AIRSCHED_Service.cpp`.

10.3.3 Member Function Documentation

10.3.3.1 void AIRSCHED::AIRSCHED_Service::parseAndLoad (const stdair::ScheduleFilePath &)

Parse the schedule input file and load it into memory.

The CSV file, describing the airline schedule for the simulator, is parsed and instantiated in memory accordingly.

Parameters:

const *stdair::ScheduleFilePath&* Filename of the input schedule file.

Definition at line 178 of file `AIRSCHED_Service.cpp`.

References `buildComplementaryLinks()`, `clonePersistentBom()`, `AIRSCHED::ScheduleParser::generateInventories()`, `AIRSCHED::AIRSCHED_ServiceContext::getOwnStdairServiceFlag()`, and `AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service()`.

Referenced by `main()`, and `parseAndLoad()`.

10.3.3.2 void AIRSCHED::AIRSCHED_Service::parseAndLoad (const stdair::ScheduleFilePath &, const stdair::ODFilePath &)

Parse the schedule and O&D input files, and load them into memory.

The CSV files, describing the airline schedule and the O&Ds for the simulator, are parsed and instantiated in memory accordingly.

Parameters:

const *stdair::ScheduleFilePath&* Filename of the input schedule file.

const *stdair::ODFilePath&* Filename of the input O&D file.

Definition at line 230 of file AIRSCHED_Service.cpp.

References buildComplementaryLinks(), AIRSCHED::OnDParser::generateOnDPeriods(), AIRSCHED::AIRSCHED_ServiceContext::getOwnStdairServiceFlag(), AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service(), and parseAndLoad().

10.3.3.3 void AIRSCHED::AIRSCHED_Service::buildSampleBom ()

Build a sample BOM tree, and attach it to the BomRoot instance.

The BOM tree is based on two actual inventories (one for BA, another for AF). Each inventory contains one flight. One of those flights has two legs (and therefore three segments).

Definition at line 287 of file AIRSCHED_Service.cpp.

References buildComplementaryLinks(), clonePersistentBom(), AIRSCHED::AIRSCHED_ServiceContext::getOwnStdairServiceFlag(), and AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

Referenced by main().

10.3.3.4 void AIRSCHED::AIRSCHED_Service::clonePersistentBom ()

Clone the persistent BOM object.

Definition at line 344 of file AIRSCHED_Service.cpp.

References buildComplementaryLinks(), AIRSCHED::AIRSCHED_ServiceContext::getOwnStdairServiceFlag(), and AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

Referenced by buildSampleBom(), and parseAndLoad().

10.3.3.5 void AIRSCHED::AIRSCHED_Service::buildComplementaryLinks (stdair::BomRoot &)

Build all the complementary links in the given bom root object.

Definition at line 384 of file AIRSCHED_Service.cpp.

References AIRSCHED::SegmentPathGenerator::createSegmentPathNetwork().

Referenced by buildSampleBom(), clonePersistentBom(), and parseAndLoad().

10.3.3.6 void AIRSCHED::AIRSCHED_Service::buildSegmentPathList (stdair::TravelSolution-List_T &, const stdair::BookingRequestStruct &)

Calculate and return a list of travel solutions corresponding to a given product demand.

Definition at line 498 of file AIRSCHED_Service.cpp.

References AIRSCHED::AIRSCHED_ServiceContext::display(), and AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

Referenced by main().

10.3.3.7 void AIRSCHED::AIRSCHED_Service::simulate ()

Perform a small simulation, which uses the Customer Choice Model (CCM).

Currently, that method does nothing.

Definition at line 470 of file AIRSCHED_Service.cpp.

References AIRSCHED::AIRSCHED_ServiceContext::display(), AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service(), and AIRSCHED::Simulator::simulate().

10.3.3.8 std::string AIRSCHED::AIRSCHED_Service::jsonExportFlightDateObjects (const stdair::AirlineCode_T &, const stdair::FlightNumber_T &, const stdair::Date_T & iDepartureDate) const

Recursively dump, in the returned string and in JSON format, the flight-period corresponding to the parameters given as input.

Parameters:

const stdair::AirlineCode_T& Airline code of the flight to dump.

const stdair::FlightNumber_T& Flight number of the flight to dump.

const stdair::Date_T& Departure date of a flight within the flight period to dump.

Returns:

std::string Output string in which the BOM tree is JSON-ified.

Definition at line 401 of file AIRSCHED_Service.cpp.

References AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

10.3.3.9 std::string AIRSCHED::AIRSCHED_Service::csvDisplay () const

Recursively display (dump in the returned string) the objects of the BOM tree.

Returns:

std::string Output string in which the BOM tree is logged/dumped.

Definition at line 425 of file AIRSCHED_Service.cpp.

References AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

10.3.3.10 std::string AIRSCHED::AIRSCHED_Service::csvDisplay (const stdair::AirlineCode_T &, const stdair::FlightNumber_T &, const stdair::Date_T & iDepartureDate) const

Recursively display (dump in the returned string) the flight-period corresponding to the parameters given as input.

Parameters:

const stdair::AirlineCode_T& Airline code of the flight period to display.

const stdair::FlightNumber_T& Flight number of the flight to display.

const stdair::Date_T& Departure date of a flight within the flight-period to display.

Returns:

std::string Output string in which the BOM tree is logged/dumped.

Definition at line 447 of file AIRSCHED_Service.cpp.

References AIRSCHED::AIRSCHED_ServiceContext::getSTDAIR_Service().

The documentation for this class was generated from the following files:

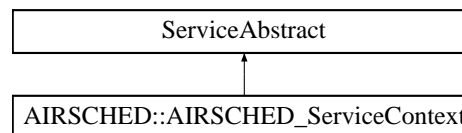
- [airsched/AIRSCHED_Service.hpp](#)
- [airsched/service/AIRSCHED_Service.cpp](#)

10.4 AIRSCHED::AIRSCHED_ServiceContext Class Reference

Class holding the context of the AirSched services.

```
#include <airsched/service/AIRSCHED_ServiceContext.hpp>
```

Inheritance diagram for AIRSCHED::AIRSCHED_ServiceContext::



Friends

- class [AIRSCHED_Service](#)
- class [FacAIRSCHEDServiceContext](#)

10.4.1 Detailed Description

Class holding the context of the AirSched services.

Definition at line 22 of file AIRSCHED_ServiceContext.hpp.

10.4.2 Friends And Related Function Documentation

10.4.2.1 friend class [AIRSCHED_Service](#) [friend]

The [AIRSCHED_Service](#) class should be the sole class to get access to ServiceContext content: general users do not want to bother with a context interface.

Definition at line 28 of file AIRSCHED_ServiceContext.hpp.

10.4.2.2 friend class [FacAIRSCHEDServiceContext](#) [friend]

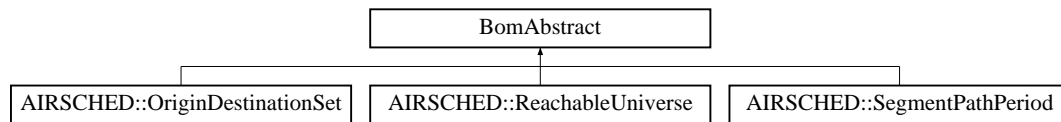
Definition at line 29 of file AIRSCHED_ServiceContext.hpp.

The documentation for this class was generated from the following files:

- [airsched/service/AIRSCHED_ServiceContext.hpp](#)
- [airsched/service/AIRSCHED_ServiceContext.cpp](#)

10.5 BomAbstract Class Reference

Inheritance diagram for BomAbstract::



The documentation for this class was generated from the following files:

- [airsched/bom/OriginDestinationSet.hpp](#)
- [airsched/bom/ReachableUniverse.hpp](#)
- [airsched/bom/SegmentPathPeriod.hpp](#)

10.6 AIRSCHED::BomDisplay Class Reference

Utility class to display AirSched objects with a pretty format.

```
#include <airsched/bom/BomDisplay.hpp>
```

Static Public Member Functions

- static std::string [csvDisplay](#) (const stdair::BomRoot &)
- static void [csvDisplay](#) (std::ostream &, const [ReachableUniverse](#) &)

10.6.1 Detailed Description

Utility class to display AirSched objects with a pretty format.

Definition at line 26 of file BomDisplay.hpp.

10.6.2 Member Function Documentation

10.6.2.1 std::string AIRSCHED::BomDisplay::csvDisplay (const stdair::BomRoot &) [static]

Recursively display (dump in the underlying output log stream) the objects of the BOM tree.

Parameters:

- std::ostream&* Output stream in which the BOM tree should be logged/dumped.
- const* stdair::EventQueue& Root of the BOM tree to be displayed.

Definition at line 43 of file BomDisplay.cpp.

10.6.2.2 void AIRSCHED::BomDisplay::csvDisplay (std::ostream &, const [ReachableUniverse](#) &) [static]

Recursively display (dump in the underlying output log stream) the objects of the BOM tree.

Parameters:

std::ostream& Output stream in which the BOM tree should be logged/dumped.

const [ReachableUniverse](#)& Root of the BOM tree to be displayed.

Definition at line 81 of file BomDisplay.cpp.

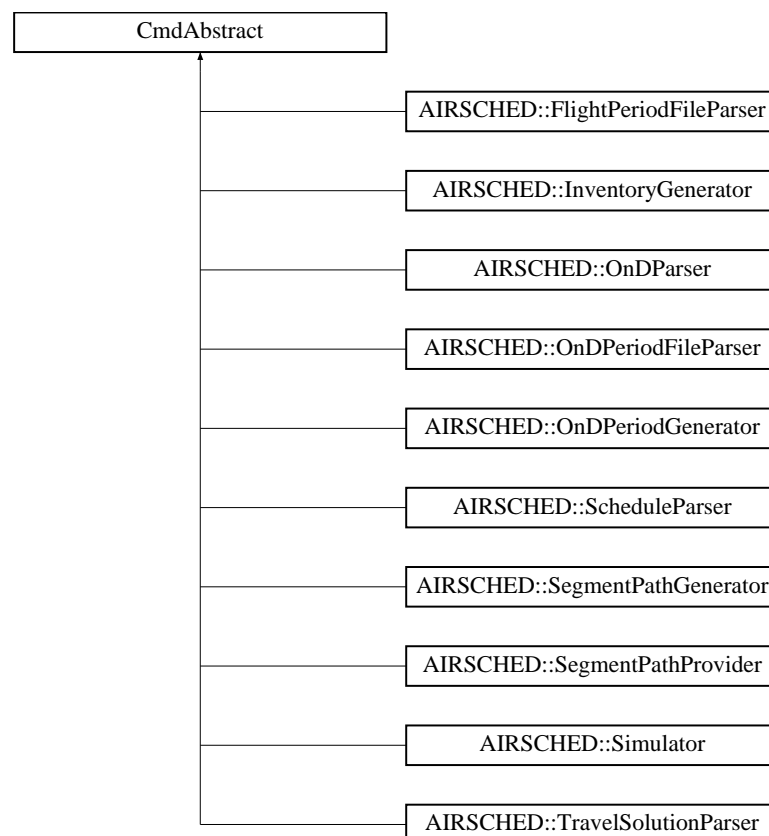
References [AIRSCHED::ReachableUniverse::toString\(\)](#).

The documentation for this class was generated from the following files:

- [airsched/bom/BomDisplay.hpp](#)
- [airsched/bom/BomDisplay.cpp](#)

10.7 CmdAbstract Class Reference

Inheritance diagram for CmdAbstract::



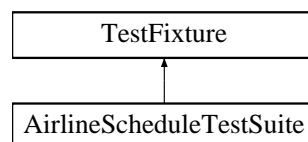
The documentation for this class was generated from the following files:

- [airsched/command/OnDPeriodGenerator.hpp](#)

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/Simulator.hpp](#)
- [airsched/command/ScheduleParser.hpp](#)
- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/SegmentPathProvider.hpp](#)
- [airsched/command/InventoryGenerator.hpp](#)
- [airsched/command/TravelSolutionParser.hpp](#)
- [airsched/command/SegmentPathGenerator.hpp](#)
- [airsched/command/OnDParser.hpp](#)

10.8 TestFixture Class Reference

Inheritance diagram for TestFixture::



The documentation for this class was generated from the following file:

- [test/airsched/AirlineScheduleTestSuite.hpp](#)

10.9 airsched::Date_T Struct Reference

```
#include <airsched/batches/BookingRequestParser.hpp>
```

Public Member Functions

- [Date_T \(\)](#)
- void [display \(\)](#) const
- boost::gregorian::date [getDate \(\)](#) const

Public Attributes

- boost::gregorian::date [_date](#)
- unsigned int [_reldays](#)
- unsigned int [_day](#)
- unsigned int [_month](#)
- unsigned int [_year](#)

10.9.1 Detailed Description

Date.

Definition at line 27 of file `BookingRequestParser.hpp`.

10.9.2 Constructor & Destructor Documentation

10.9.2.1 airsched::Date_T::Date_T () [inline]

Constructor.

Definition at line 35 of file BookingRequestParser.hpp.

10.9.3 Member Function Documentation

10.9.3.1 void airsched::Date_T::display () const [inline]

Definition at line 37 of file BookingRequestParser.hpp.

References `_date`, `_day`, `_month`, `_reldays`, and `_year`.

10.9.3.2 boost::gregorian::date airsched::Date_T::getDate () const [inline]

Set the date from the staging details.

Definition at line 43 of file BookingRequestParser.hpp.

References `_day`, `_month`, and `_year`.

Referenced by `airsched::store_date::operator()`.

10.9.4 Member Data Documentation

10.9.4.1 boost::gregorian::date airsched::Date_T::_date

Definition at line 29 of file BookingRequestParser.hpp.

Referenced by `display()`, and `airsched::store_date::operator()`.

10.9.4.2 unsigned int airsched::Date_T::_reldays

Definition at line 30 of file BookingRequestParser.hpp.

Referenced by `display()`.

10.9.4.3 unsigned int airsched::Date_T::_day

Definition at line 31 of file BookingRequestParser.hpp.

Referenced by `display()`, and `getDate()`.

10.9.4.4 unsigned int airsched::Date_T::_month

Definition at line 32 of file BookingRequestParser.hpp.

Referenced by `display()`, and `getDate()`.

10.9.4.5 unsigned int airsched::Date_T::_year

Definition at line 33 of file BookingRequestParser.hpp.

Referenced by `display()`, and `getDate()`.

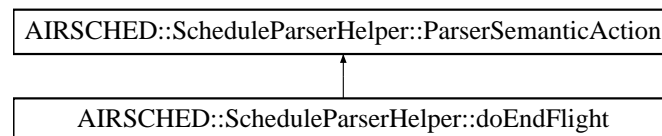
The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.hpp](#)

10.10 AIRSCHEd::ScheduleParserHelper::doEndFlight Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHEd::ScheduleParserHelper::doEndFlight::



Public Member Functions

- [doEndFlight](#) (stdair::BomRoot &, [FlightPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- stdair::BomRoot & [_bomRoot](#)
- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.10.1 Detailed Description

Mark the end of the flight-period parsing.

Definition at line 224 of file ScheduleParserHelper.hpp.

10.10.2 Constructor & Destructor Documentation

10.10.2.1 AIRSCHEd::ScheduleParserHelper::doEndFlight::doEndFlight (stdair::BomRoot &, [FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 440 of file ScheduleParserHelper.cpp.

10.10.3 Member Function Documentation

10.10.3.1 void AIRSCHEd::ScheduleParserHelper::doEndFlight::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 448 of file ScheduleParserHelper.cpp.

References [_bomRoot](#), [AIRSCHEd::LegStruct::_cabinList](#), [AIRSCHEd::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), [AIRSCHEd::FlightPeriodStruct::_itLeg](#), [AIRSCHEd::FlightPeriodStruct::_legAlreadyDefined](#), [AIRSCHEd::FlightPeriodStruct::_legList](#), and [AIRSCHEd::FlightPeriodStruct::describe\(\)](#).

10.10.4 Member Data Documentation

10.10.4.1 stdair::BomRoot& AIRSCHED::ScheduleParserHelper::doEndFlight::_bomRoot

Actor Specific Context.

Definition at line 230 of file ScheduleParserHelper.hpp.

Referenced by operator().

10.10.4.2 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

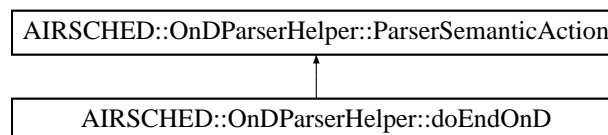
The documentation for this struct was generated from the following files:

- airsched/command/ScheduleParserHelper.hpp
- airsched/command/ScheduleParserHelper.cpp

10.11 AIRSCHED::OnDParserHelper::doEndOnD Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::doEndOnD::



Public Member Functions

- [doEndOnD](#) (stdair::BomRoot &, [OnDPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- stdair::BomRoot & [_bomRoot](#)
- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.11.1 Detailed Description

Mark the end of the O&D parsing.

Definition at line 106 of file OnDParserHelper.hpp.

10.11.2 Constructor & Destructor Documentation**10.11.2.1 AIRSCHED::OnDParserHelper::doEndOnD::doEndOnD (stdair::BomRoot &, [OnDPeriodStruct](#) &)**

Actor Constructor.

Definition at line 193 of file OnDParserHelper.cpp.

10.11.3 Member Function Documentation**10.11.3.1 void AIRSCHED::OnDParserHelper::doEndOnD::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const**

Actor Function (functor).

Definition at line 199 of file OnDParserHelper.cpp.

References [_bomRoot](#), and [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#).

10.11.4 Member Data Documentation**10.11.4.1 stdair::BomRoot& [AIRSCHED::OnDParserHelper::doEndOnD::_bomRoot](#)**

Actor Specific Context.

Definition at line 112 of file OnDParserHelper.hpp.

Referenced by [operator\(\)](#).

10.11.4.2 [OnDPeriodStruct](#)& [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#) [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by [operator\(\)](#), [AIRSCHED::OnDParserHelper::storeClassCode::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeAirlineCode::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeEndRangeTime::operator\(\)](#), and [AIRSCHED::OnDParserHelper::storeStartRange](#)

Time::operator()), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator()), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator()), AIRSCHED::OnDParserHelper::storeDestination::operator()), and AIRSCHED::OnDParserHelper::storeOrigin::operator()).

The documentation for this struct was generated from the following files:

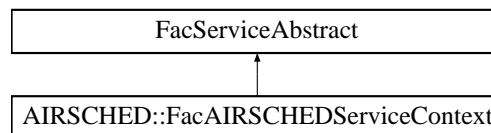
- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.12 AIRSCHED::FacAIRSCHEDServiceContext Class Reference

Factory for the service context.

```
#include <airsched/factory/FacAIRSCHEDServiceContext.hpp>
```

Inheritance diagram for AIRSCHED::FacAIRSCHEDServiceContext::



Public Member Functions

- [~FacAIRSCHEDServiceContext \(\)](#)
- [AIRSCHED_ServiceContext & create \(\)](#)

Static Public Member Functions

- static [FacAIRSCHEDServiceContext & instance \(\)](#)

Protected Member Functions

- [FacAIRSCHEDServiceContext \(\)](#)

10.12.1 Detailed Description

Factory for the service context.

Definition at line 19 of file FacAIRSCHEDServiceContext.hpp.

10.12.2 Constructor & Destructor Documentation

10.12.2.1 AIRSCHED::FacAIRSCHEDServiceContext::~~FacAIRSCHEDServiceContext ()

Destructor.

The Destruction put the `_instance` to NULL in order to be clean for the next [FacAIRSCHEDServiceContext::instance\(\)](#).

Definition at line 17 of file FacAIRSCHEDServiceContext.cpp.

10.12.2.2 AIRSCHED::FacAIRSCHEDServiceContext::FacAIRSCHEDServiceContext () [inline, protected]

Default Constructor.

This constructor is protected in order to ensure the singleton pattern.

Definition at line 54 of file FacAIRSCHEDServiceContext.hpp.

Referenced by instance().

10.12.3 Member Function Documentation

10.12.3.1 FacAIRSCHEDServiceContext & AIRSCHED::FacAIRSCHEDServiceContext::instance () [static]

Provide the unique instance.

The singleton is instantiated when first used.

Returns:

FacServiceContext&

Definition at line 22 of file FacAIRSCHEDServiceContext.cpp.

References FacAIRSCHEDServiceContext().

10.12.3.2 AIRSCHED_ServiceContext & AIRSCHED::FacAIRSCHEDServiceContext::create ()

Create a new ServiceContext object.

This new object is added to the list of instantiated objects.

Returns:

ServiceContext& The newly created object.

Definition at line 34 of file FacAIRSCHEDServiceContext.cpp.

The documentation for this class was generated from the following files:

- airsched/factory/FacAIRSCHEDServiceContext.hpp
- airsched/factory/FacAIRSCHEDServiceContext.cpp

10.13 AIRSCHED::FacServiceAbstract Class Reference

```
#include <airsched/factory/FacServiceAbstract.hpp>
```

Public Types

- typedef std::vector< [ServiceAbstract](#) * > [ServicePool_T](#)

Public Member Functions

- virtual [~FacServiceAbstract](#) ()
- void [clean](#) ()

Protected Member Functions

- [FacServiceAbstract\(\)](#)

Protected Attributes

- [ServicePool_T _pool](#)

10.13.1 Detailed Description

Base class for the (Service) Factory layer.

Definition at line 16 of file FacServiceAbstract.hpp.

10.13.2 Member Typedef Documentation

10.13.2.1 `typedef std::vector<ServiceAbstract*> AIRSCHED::FacServiceAbstract::ServicePool_T`

Define the list (pool) of Service objects.

Definition at line 20 of file FacServiceAbstract.hpp.

10.13.3 Constructor & Destructor Documentation

10.13.3.1 `AIRSCHED::FacServiceAbstract::~~FacServiceAbstract()` `[virtual]`

Destructor.

Definition at line 13 of file FacServiceAbstract.cpp.

10.13.3.2 `AIRSCHED::FacServiceAbstract::FacServiceAbstract()` `[inline, protected]`

Default Constructor.

This constructor is protected to ensure the class is abstract.

Definition at line 31 of file FacServiceAbstract.hpp.

10.13.4 Member Function Documentation

10.13.4.1 `void AIRSCHED::FacServiceAbstract::clean()`

Destroyed all the object instantiated by this factory.

Definition at line 18 of file FacServiceAbstract.cpp.

10.13.5 Member Data Documentation

10.13.5.1 `ServicePool_T AIRSCHED::FacServiceAbstract::_pool` `[protected]`

List of instantiated Business Objects

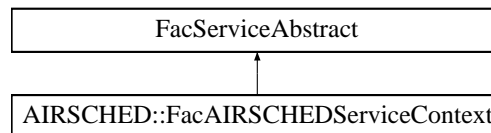
Definition at line 34 of file FacServiceAbstract.hpp.

The documentation for this class was generated from the following files:

- [airsched/factory/FacServiceAbstract.hpp](#)
- [airsched/factory/FacServiceAbstract.cpp](#)

10.14 FacServiceAbstract Class Reference

Inheritance diagram for FacServiceAbstract::



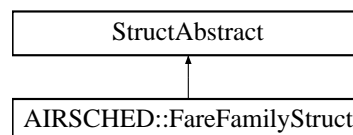
The documentation for this class was generated from the following file:

- [airsched/factory/FacAIRSCHEDEDServiceContext.hpp](#)

10.15 AIRSCHEDED::FareFamilyStruct Struct Reference

```
#include <airsched/bom/FareFamilyStruct.hpp>
```

Inheritance diagram for AIRSCHEDED::FareFamilyStruct::



Public Member Functions

- [FareFamilyStruct](#) (const stdair::FamilyCode_T &, const stdair::CurveKey_T &, const stdair::CurveKey_T &, const stdair::ClassList_String_T &)
- const std::string [describe](#) () const

Public Attributes

- stdair::FamilyCode_T [_familyCode](#)
- stdair::CurveKey_T [_frat5CurveKey](#)
- stdair::CurveKey_T [_ffDisutilityCurveKey](#)
- stdair::ClassList_String_T [_classes](#)

10.15.1 Detailed Description

Utility Structure for the parsing of fare family details.

Definition at line 17 of file FareFamilyStruct.hpp.

10.15.2 Constructor & Destructor Documentation

10.15.2.1 AIRSCHED::FareFamilyStruct::FareFamilyStruct (const stdair::FamilyCode_T &, const stdair::CurveKey_T &, const stdair::CurveKey_T &, const stdair::ClassList_String_T &)

Constructors.

Definition at line 14 of file FareFamilyStruct.cpp.

10.15.3 Member Function Documentation

10.15.3.1 const std::string AIRSCHED::FareFamilyStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 23 of file FareFamilyStruct.cpp.

References `_classes`, `_familyCode`, `_ffDisutilityCurveKey`, and `_frat5CurveKey`.

10.15.4 Member Data Documentation

10.15.4.1 stdair::FamilyCode_T AIRSCHED::FareFamilyStruct::_familyCode

Definition at line 19 of file FareFamilyStruct.hpp.

Referenced by `describe()`.

10.15.4.2 stdair::CurveKey_T AIRSCHED::FareFamilyStruct::_frat5CurveKey

Definition at line 20 of file FareFamilyStruct.hpp.

Referenced by `describe()`.

10.15.4.3 stdair::CurveKey_T AIRSCHED::FareFamilyStruct::_ffDisutilityCurveKey

Definition at line 21 of file FareFamilyStruct.hpp.

Referenced by `describe()`.

10.15.4.4 stdair::ClassList_String_T AIRSCHED::FareFamilyStruct::_classes

Definition at line 22 of file FareFamilyStruct.hpp.

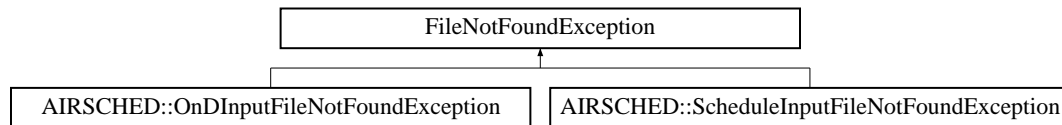
Referenced by `describe()`.

The documentation for this struct was generated from the following files:

- [airsched/bom/FareFamilyStruct.hpp](#)
- [airsched/bom/FareFamilyStruct.cpp](#)

10.16 FileNotFoundException Class Reference

Inheritance diagram for FileNotFoundException::



The documentation for this class was generated from the following file:

- [airsched/AIRSCHED_Types.hpp](#)

10.17 AIRSCHED::FlagSaver Struct Reference

Public Member Functions

- [FlagSaver](#) (std::ostream &oStream)
- [~FlagSaver](#) ()

10.17.1 Detailed Description

Helper singleton structure to store the current formatting flags of any given output stream. The flags are re-set at the structure destruction.

Definition at line 22 of file BomDisplay.cpp.

10.17.2 Constructor & Destructor Documentation

10.17.2.1 AIRSCHED::FlagSaver::FlagSaver (std::ostream & oStream) [inline]

Constructor.

Definition at line 25 of file BomDisplay.cpp.

10.17.2.2 AIRSCHED::FlagSaver::~~FlagSaver () [inline]

Destructor.

Definition at line 30 of file BomDisplay.cpp.

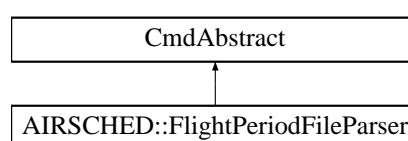
The documentation for this struct was generated from the following file:

- [airsched/bom/BomDisplay.cpp](#)

10.18 AIRSCHED::FlightPeriodFileParser Class Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::FlightPeriodFileParser::



Public Member Functions

- [FlightPeriodFileParser](#) (stdair::BomRoot &ioBomRoot, const stdair::Filename_T &iFilename)
- bool [generateInventories](#) ()

10.18.1 Detailed Description

Class wrapping the initialisation and entry point of the parser.

The seemingly redundancy is used to force the instantiation of the actual parser, which is a templatised Boost Spirit grammar. Hence, the actual parser is instantiated within that class object code.

Definition at line 323 of file ScheduleParserHelper.hpp.

10.18.2 Constructor & Destructor Documentation

10.18.2.1 AIRSCHED::FlightPeriodFileParser::FlightPeriodFileParser (stdair::BomRoot & io-BomRoot, const stdair::Filename_T & iFilename)

Constructor.

Definition at line 716 of file ScheduleParserHelper.cpp.

10.18.3 Member Function Documentation

10.18.3.1 bool AIRSCHED::FlightPeriodFileParser::generateInventories ()

Parse the input file and generate the Inventories.

Definition at line 753 of file ScheduleParserHelper.cpp.

Referenced by AIRSCHED::ScheduleParser::generateInventories().

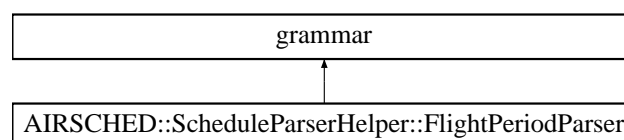
The documentation for this class was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.19 AIRSCHED::ScheduleParserHelper::FlightPeriodParser Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::FlightPeriodParser:



Public Member Functions

- [FlightPeriodParser](#) (stdair::BomRoot &, [FlightPeriodStruct](#) &)

Public Attributes

- `stdair::BomRoot` & [_bomRoot](#)
- [FlightPeriodStruct](#) & [_flightPeriod](#)

Classes

- struct [definition](#)

10.19.1 Detailed Description

Grammar for the Flight-Period parser.

Definition at line 281 of file `ScheduleParserHelper.hpp`.

10.19.2 Constructor & Destructor Documentation

10.19.2.1 AIRSCHED::ScheduleParserHelper::FlightPeriodParser::FlightPeriodParser(`stdair::BomRoot` &, [FlightPeriodStruct](#) &)

Definition at line 533 of file `ScheduleParserHelper.cpp`.

10.19.3 Member Data Documentation

10.19.3.1 `stdair::BomRoot` & [AIRSCHED::ScheduleParserHelper::FlightPeriodParser::_bomRoot](#)

Definition at line 304 of file `ScheduleParserHelper.hpp`.

Referenced by `AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition()`.

10.19.3.2 [FlightPeriodStruct](#) & [AIRSCHED::ScheduleParserHelper::FlightPeriodParser::_flightPeriod](#)

Definition at line 305 of file `ScheduleParserHelper.hpp`.

Referenced by `AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition()`.

The documentation for this struct was generated from the following files:

- `airsched/command/ScheduleParserHelper.hpp`
- `airsched/command/ScheduleParserHelper.cpp`

10.20 AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT > Struct Template Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Public Member Functions

- [definition](#) ([FlightPeriodParser](#) const &self)
- `boost::spirit::classic::rule< ScannerT > const & start () const`

Public Attributes

- `boost::spirit::classic::rule< ScannerT > flight_period_list`
- `boost::spirit::classic::rule< ScannerT > flight_period`
- `boost::spirit::classic::rule< ScannerT > not_to_be_parsed`
- `boost::spirit::classic::rule< ScannerT > flight_period_end`
- `boost::spirit::classic::rule< ScannerT > flight_key`
- `boost::spirit::classic::rule< ScannerT > airline_code`
- `boost::spirit::classic::rule< ScannerT > flight_number`
- `boost::spirit::classic::rule< ScannerT > date`
- `boost::spirit::classic::rule< ScannerT > dow`
- `boost::spirit::classic::rule< ScannerT > time`
- `boost::spirit::classic::rule< ScannerT > date_offset`
- `boost::spirit::classic::rule< ScannerT > leg`
- `boost::spirit::classic::rule< ScannerT > leg_key`
- `boost::spirit::classic::rule< ScannerT > operating_leg_details`
- `boost::spirit::classic::rule< ScannerT > leg_details`
- `boost::spirit::classic::rule< ScannerT > leg_cabin_details`
- `boost::spirit::classic::rule< ScannerT > segment_section`
- `boost::spirit::classic::rule< ScannerT > segment_key`
- `boost::spirit::classic::rule< ScannerT > full_segment_cabin_details`
- `boost::spirit::classic::rule< ScannerT > segment_cabin_details`
- `boost::spirit::classic::rule< ScannerT > full_family_cabin_details`
- `boost::spirit::classic::rule< ScannerT > family_cabin_details`
- `boost::spirit::classic::rule< ScannerT > generic_segment`
- `boost::spirit::classic::rule< ScannerT > specific_segment_list`

10.20.1 Detailed Description

template<typename ScannerT> struct AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >

Definition at line 287 of file ScheduleParserHelper.hpp.

10.20.2 Constructor & Destructor Documentation

10.20.2.1 template<typename ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition ([FlightPeriodParser](#) const & *self*)

Definition at line 542 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::FlightPeriodParser::_bomRoot, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::_flightPeriod, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::airline_code, AIRSCHED::ScheduleParserHelper::airline_code_p(), AIRSCHED::ScheduleParserHelper::airport_p(), AIRSCHED::ScheduleParserHelper::cabin_code_p(), AIRSCHED::ScheduleParserHelper::class_code_list_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::date, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::date_offset, AIRSCHED::ScheduleParserHelper::day_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::dow, AIRSCHED::ScheduleParserHelper::dow_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::family_cabin_details, AIRSCHED::ScheduleParserHelper::family_code_p, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_key, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_number, AIRSCHED::ScheduleParserHelper::flight_number_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period_end, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period_list, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::full_segment_cabin_details, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::generic_segment, AIRSCHED::ScheduleParserHelper::hours_p(), AIRSCHED::ScheduleParserHelper::int1_p, AIRSCHED::ScheduleParserHelper::key_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_cabin_details, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_details, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_key, AIRSCHED::ScheduleParserHelper::minutes_p(), AIRSCHED::ScheduleParserHelper::month_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::not_to_be_parsed, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::operating_leg_details, AIRSCHED::ScheduleParserHelper::seconds_p(), AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_cabin_details, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_key, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_section, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::specific_segment_list, AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::time, and AIRSCHED::ScheduleParserHelper::year_p().

10.20.3 Member Function Documentation

10.20.3.1 `template<typename ScannerT> bsc::rule< ScannerT > const & AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::start () const`

Entry point of the parser.

Definition at line 701 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period_list.

10.20.4 Member Data Documentation

10.20.4.1 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period_list`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition(), and AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT

>::start().

10.20.4.2 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.3 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::not_to_be_parsed`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.4 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_period_end`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.5 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_key`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.6 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::airline_code`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.7 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::flight_number`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.8 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::date`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.9 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::dow`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.10 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::time`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.11 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::date_offset`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.12 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.13 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_key`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.14 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::operating_leg_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.15 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.16 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::leg_cabin_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.17 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_section`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.18 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_key`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.19 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::full_segment_cabin_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.20 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::segment_cabin_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.21 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::full_family_`

cabin_details

Definition at line 291 of file ScheduleParserHelper.hpp.

10.20.4.22 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::family_cabin_details`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.23 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::generic_segment`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

10.20.4.24 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::specific_segment_list`

Definition at line 291 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >::definition().

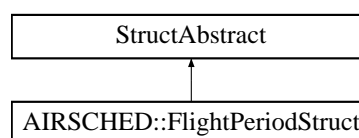
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.21 AIRSCHED::FlightPeriodStruct Struct Reference

```
#include <airsched/bom/FlightPeriodStruct.hpp>
```

Inheritance diagram for AIRSCHED::FlightPeriodStruct:

**Public Member Functions**

- `stdair::Date_T getDate () const`
- `stdair::Duration_T getTime () const`
- `const std::string describe () const`
- `void addAirport (const stdair::AirportCode_T &)`

- void [buildSegments](#) ()
- void [addSegmentCabin](#) (const [SegmentStruct](#) &, const [SegmentCabinStruct](#) &)
- void [addSegmentCabin](#) (const [SegmentCabinStruct](#) &)
- void [addFareFamily](#) (const [SegmentStruct](#) &, const [SegmentCabinStruct](#) &, const [FareFamilyStruct](#) &)
- void [addFareFamily](#) (const [SegmentCabinStruct](#) &, const [FareFamilyStruct](#) &)
- [FlightPeriodStruct](#) ()

Public Attributes

- [stdair::AirlineCode_T](#) [_airlineCode](#)
- [stdair::FlightNumber_T](#) [_flightNumber](#)
- [stdair::DatePeriod_T](#) [_dateRange](#)
- [stdair::DoWStruct](#) [_dow](#)
- [LegStructList_T](#) [_legList](#)
- [SegmentStructList_T](#) [_segmentList](#)
- bool [_legAlreadyDefined](#)
- [LegStruct](#) [_itLeg](#)
- [LegCabinStruct](#) [_itLegCabin](#)
- [stdair::Date_T](#) [_dateRangeStart](#)
- [stdair::Date_T](#) [_dateRangeEnd](#)
- unsigned int [_itYear](#)
- unsigned int [_itMonth](#)
- unsigned int [_itDay](#)
- int [_dateOffset](#)
- long [_itHours](#)
- long [_itMinutes](#)
- long [_itSeconds](#)
- [AirportList_T](#) [_airportList](#)
- [AirportOrderedList_T](#) [_airportOrderedList](#)
- bool [_areSegmentDefinitionsSpecific](#)
- [SegmentStruct](#) [_itSegment](#)
- [SegmentCabinStruct](#) [_itSegmentCabin](#)

10.21.1 Detailed Description

Utility Structure for the parsing of Flight-Period structures.

Definition at line 26 of file [FlightPeriodStruct.hpp](#).

10.21.2 Constructor & Destructor Documentation

10.21.2.1 AIRSCHED::FlightPeriodStruct::FlightPeriodStruct ()

Constructor.

Definition at line 17 of file [FlightPeriodStruct.cpp](#).

10.21.3 Member Function Documentation

10.21.3.1 stdair::Date_T AIRSCHED::FlightPeriodStruct::getDate () const

Set the date from the staging details.

Definition at line 24 of file FlightPeriodStruct.cpp.

References `_itDay`, `_itMonth`, and `_itYear`.

Referenced by `AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator()`, and `AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator()`.

10.21.3.2 stdair::Duration_T AIRSCHED::FlightPeriodStruct::getTime () const

Set the time from the staging details.

Definition at line 29 of file FlightPeriodStruct.cpp.

References `_itHours`, `_itMinutes`, and `_itSeconds`.

Referenced by `AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator()`, `AIRSCHED::ScheduleParserHelper::storeOffTime::operator()`, and `AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator()`.

10.21.3.3 const std::string AIRSCHED::FlightPeriodStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 36 of file FlightPeriodStruct.cpp.

References `_airlineCode`, `_dateRange`, `_dow`, `_flightNumber`, `_legList`, and `_segmentList`.

Referenced by `AIRSCHED::ScheduleParserHelper::doEndFlight::operator()`.

10.21.3.4 void AIRSCHED::FlightPeriodStruct::addAirport (const stdair::AirportCode_T &)

Add the given airport to the internal lists (if not already existing).

Definition at line 62 of file FlightPeriodStruct.cpp.

References `_airportList`, and `_airportOrderedList`.

Referenced by `AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator()`, and `AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator()`.

10.21.3.5 void AIRSCHED::FlightPeriodStruct::buildSegments ()

Build the list of [SegmentStruct](#) objects.

Definition at line 78 of file FlightPeriodStruct.cpp.

References `_airportList`, `_airportOrderedList`, and `_segmentList`.

Referenced by `AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator()`.

10.21.3.6 void AIRSCHED::FlightPeriodStruct::addSegmentCabin (const [SegmentStruct](#) &, const [SegmentCabinStruct](#) &)

Add, to the Segment structure whose key corresponds to the given (board point, off point) pair, the specific segment cabin details (mainly, the list of the class codes).

Note that the Segment structure is retrieved from the internal list, already filled by a previous step (the [buildSegments\(\)](#) method).

Definition at line 111 of file FlightPeriodStruct.cpp.

References AIRSCHED::SegmentStruct::_boardingPoint, AIRSCHED::SegmentStruct::_offPoint, and _segmentList.

Referenced by AIRSCHED::ScheduleParserHelper::storeClasses::operator()().

10.21.3.7 void AIRSCHED::FlightPeriodStruct::addSegmentCabin (const [SegmentCabinStruct](#) &)

Add, to all the Segment structures, the general segment cabin details (mainly, the list of the class codes).

Note that the Segment structures are stored within the internal list, already filled by a previous step (the [buildSegments\(\)](#) method).

Definition at line 149 of file FlightPeriodStruct.cpp.

References _segmentList.

10.21.3.8 void AIRSCHED::FlightPeriodStruct::addFareFamily (const [SegmentStruct](#) &, const [SegmentCabinStruct](#) &, const [FareFamilyStruct](#) &)

Add, to the SegmentCabin structure whose key corresponds to the given cabin code, the specific segment fare family details (mainly, the list of the class codes).

Note that the SegmentCabin structure is retrieved from the internal list, already filled by a previous step (the [buildSegmentCabins\(\)](#) method).

Definition at line 162 of file FlightPeriodStruct.cpp.

References AIRSCHED::SegmentStruct::_boardingPoint, AIRSCHED::SegmentCabinStruct::_cabinCode, AIRSCHED::SegmentStruct::_offPoint, and _segmentList.

Referenced by AIRSCHED::ScheduleParserHelper::storeFClasses::operator()().

10.21.3.9 void AIRSCHED::FlightPeriodStruct::addFareFamily (const [SegmentCabinStruct](#) &, const [FareFamilyStruct](#) &)

Add, to all the Segment structures, the general fare family sets (list of fare families).

Note that the SegmentCabin structures are stored within the internal list, already filled by a previous step (the [buildSegmentCabins\(\)](#) method).

Definition at line 229 of file FlightPeriodStruct.cpp.

References AIRSCHED::SegmentCabinStruct::_cabinCode, and _segmentList.

10.21.4 Member Data Documentation

10.21.4.1 stdair::AirlineCode_T AIRSCHED::FlightPeriodStruct::_airlineCode

Definition at line 84 of file FlightPeriodStruct.hpp.

Referenced by describe(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator()(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator()().

10.21.4.2 stdair::FlightNumber_T AIRSCHED::FlightPeriodStruct::_flightNumber

Definition at line 85 of file FlightPeriodStruct.hpp.

Referenced by describe(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), and AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator().

10.21.4.3 stdair::DatePeriod_T AIRSCHED::FlightPeriodStruct::_dateRange

Definition at line 86 of file FlightPeriodStruct.hpp.

Referenced by describe(), and AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator().

10.21.4.4 stdair::DoWStruct AIRSCHED::FlightPeriodStruct::_dow

Definition at line 87 of file FlightPeriodStruct.hpp.

Referenced by describe(), and AIRSCHED::ScheduleParserHelper::storeDow::operator().

10.21.4.5 LegStructList_T AIRSCHED::FlightPeriodStruct::_legList

Definition at line 88 of file FlightPeriodStruct.hpp.

Referenced by describe(), AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

10.21.4.6 SegmentStructList_T AIRSCHED::FlightPeriodStruct::_segmentList

Definition at line 89 of file FlightPeriodStruct.hpp.

Referenced by addFareFamily(), addSegmentCabin(), buildSegments(), and describe().

10.21.4.7 bool AIRSCHED::FlightPeriodStruct::_legAlreadyDefined

Staging Leg (resp. Cabin) structure, gathering the result of the iteration on one leg (resp. cabin).

Definition at line 93 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), and AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator().

10.21.4.8 LegStruct AIRSCHED::FlightPeriodStruct::_itLeg

Definition at line 94 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), and AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator().

10.21.4.9 LegCabinStruct AIRSCHED::FlightPeriodStruct::_itLegCabin

Definition at line 95 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), and AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator().

10.21.4.10 stdair::Date_T AIRSCHED::FlightPeriodStruct::_dateRangeStart

Staging Date.

Definition at line 98 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), and AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator().

10.21.4.11 stdair::Date_T AIRSCHED::FlightPeriodStruct::_dateRangeEnd

Definition at line 99 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator().

10.21.4.12 unsigned int AIRSCHED::FlightPeriodStruct::_itYear

Definition at line 100 of file FlightPeriodStruct.hpp.

Referenced by getDate().

10.21.4.13 unsigned int AIRSCHED::FlightPeriodStruct::_itMonth

Definition at line 101 of file FlightPeriodStruct.hpp.

Referenced by getDate().

10.21.4.14 unsigned int AIRSCHED::FlightPeriodStruct::_itDay

Definition at line 102 of file FlightPeriodStruct.hpp.

Referenced by getDate().

10.21.4.15 int AIRSCHED::FlightPeriodStruct::_dateOffset

Definition at line 103 of file FlightPeriodStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), and AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator().

10.21.4.16 long AIRSCHED::FlightPeriodStruct::_itHours

Staging Time.

Definition at line 106 of file FlightPeriodStruct.hpp.

Referenced by getTime().

10.21.4.17 long AIRSCHED::FlightPeriodStruct::_itMinutes

Definition at line 107 of file FlightPeriodStruct.hpp.

Referenced by getTime().

10.21.4.18 long AIRSCHED::FlightPeriodStruct::_itSeconds

Definition at line 108 of file FlightPeriodStruct.hpp.

Referenced by `getTime()`, `AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator()`, `AIRSCHED::ScheduleParserHelper::storeOffTime::operator()`, `AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator()`, `AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator()`, and `AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator()`.

10.21.4.19 AirportList_T AIRSCHED::FlightPeriodStruct::_airportList

Staging Airport List (helper to derive the list of Segment structures).

Definition at line 112 of file FlightPeriodStruct.hpp.

Referenced by `addAirport()`, `buildSegments()`, and `AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator()`.

10.21.4.20 AirportOrderedList_T AIRSCHED::FlightPeriodStruct::_airportOrderedList

Definition at line 113 of file FlightPeriodStruct.hpp.

Referenced by `addAirport()`, `buildSegments()`, and `AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator()`.

10.21.4.21 bool AIRSCHED::FlightPeriodStruct::_areSegmentDefinitionsSpecific

Staging Segment-related attributes.

Definition at line 116 of file FlightPeriodStruct.hpp.

Referenced by `AIRSCHED::ScheduleParserHelper::storeFCClasses::operator()`, `AIRSCHED::ScheduleParserHelper::storeClasses::operator()`, and `AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator()`.

10.21.4.22 SegmentStruct AIRSCHED::FlightPeriodStruct::_itSegment

Definition at line 117 of file FlightPeriodStruct.hpp.

Referenced by `AIRSCHED::ScheduleParserHelper::storeFCClasses::operator()`, `AIRSCHED::ScheduleParserHelper::storeClasses::operator()`, `AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator()`, and `AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator()`.

10.21.4.23 SegmentCabinStruct AIRSCHED::FlightPeriodStruct::_itSegmentCabin

Definition at line 118 of file FlightPeriodStruct.hpp.

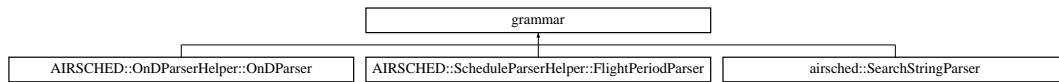
Referenced by `AIRSCHED::ScheduleParserHelper::storeFCClasses::operator()`, `AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator()`, `AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator()`, `AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator()`, `AIRSCHED::ScheduleParserHelper::storeClasses::operator()`, and `AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator()`.

The documentation for this struct was generated from the following files:

- `airsched/bom/FlightPeriodStruct.hpp`
- `airsched/bom/FlightPeriodStruct.cpp`

10.22 grammar Class Reference

Inheritance diagram for grammar::



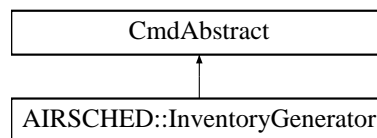
The documentation for this class was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/batches/BookingRequestParser.cpp](#)
- [airsched/command/ScheduleParserHelper.hpp](#)

10.23 AIRSCHED::InventoryGenerator Class Reference

```
#include <airsched/command/InventoryGenerator.hpp>
```

Inheritance diagram for AIRSCHED::InventoryGenerator::



Friends

- class [FlightPeriodFileParser](#)
- class [FFFlightPeriodFileParser](#)
- struct [ScheduleParserHelper::doEndFlight](#)
- class [ScheduleParser](#)

10.23.1 Detailed Description

Class handling the generation / instantiation of the Inventory BOM.

Definition at line 31 of file InventoryGenerator.hpp.

10.23.2 Friends And Related Function Documentation

10.23.2.1 friend class [FlightPeriodFileParser](#) [friend]

Definition at line 35 of file InventoryGenerator.hpp.

10.23.2.2 friend class [FFFlightPeriodFileParser](#) [friend]

Definition at line 36 of file InventoryGenerator.hpp.

10.23.2.3 friend struct [ScheduleParserHelper::doEndFlight](#) [friend]

Definition at line 37 of file InventoryGenerator.hpp.

10.23.2.4 friend class [ScheduleParser](#) [friend]

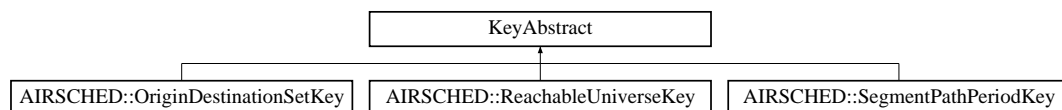
Definition at line 38 of file InventoryGenerator.hpp.

The documentation for this class was generated from the following files:

- [airsched/command/InventoryGenerator.hpp](#)
- [airsched/command/InventoryGenerator.cpp](#)

10.24 KeyAbstract Class Reference

Inheritance diagram for KeyAbstract::



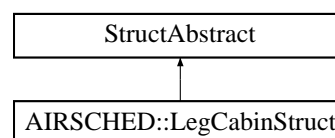
The documentation for this class was generated from the following files:

- [airsched/bom/ReachableUniverseKey.hpp](#)
- [airsched/bom/SegmentPathPeriodKey.hpp](#)
- [airsched/bom/OriginDestinationSetKey.hpp](#)

10.25 AIRSCHED::LegCabinStruct Struct Reference

```
#include <airsched/bom/LegCabinStruct.hpp>
```

Inheritance diagram for AIRSCHED::LegCabinStruct::

**Public Member Functions**

- void [fill](#) (stdair::LegCabin &) const
- const std::string [describe](#) () const

Public Attributes

- stdair::CabinCode_T [_cabinCode](#)
- stdair::CabinCapacity_T [_capacity](#)

10.25.1 Detailed Description

Utility Structure for the parsing of LegCabin details.

Definition at line 22 of file LegCabinStruct.hpp.

10.25.2 Member Function Documentation

10.25.2.1 void AIRSCHED::LegCabinStruct::fill (stdair::LegCabin &) const

Fill the LegCabin objects with the attributes of the [LegCabinStruct](#).

Definition at line 22 of file LegCabinStruct.cpp.

References `_capacity`.

10.25.2.2 const std::string AIRSCHED::LegCabinStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 15 of file LegCabinStruct.cpp.

References `_cabinCode`, and `_capacity`.

10.25.3 Member Data Documentation

10.25.3.1 stdair::CabinCode_T AIRSCHED::LegCabinStruct::_cabinCode

Definition at line 24 of file LegCabinStruct.hpp.

Referenced by `describe()`, and `AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator()()`.

10.25.3.2 stdair::CabinCapacity_T AIRSCHED::LegCabinStruct::_capacity

Definition at line 25 of file LegCabinStruct.hpp.

Referenced by `describe()`, `fill()`, and `AIRSCHED::ScheduleParserHelper::storeCapacity::operator()()`.

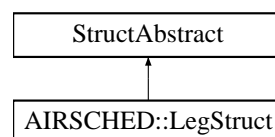
The documentation for this struct was generated from the following files:

- [airsched/bom/LegCabinStruct.hpp](#)
- [airsched/bom/LegCabinStruct.cpp](#)

10.26 AIRSCHED::LegStruct Struct Reference

```
#include <airsched/bom/LegStruct.hpp>
```

Inheritance diagram for AIRSCHED::LegStruct:



Public Member Functions

- void [fill](#) (const stdair::Date_T &iRefDate, stdair::LegDate &) const
- const std::string [describe](#) () const
- [LegStruct](#) ()

Public Attributes

- stdair::AirlineCode_T [_airlineCode](#)
- stdair::FlightNumber_T [_flightNumber](#)
- stdair::AirportCode_T [_boardingPoint](#)
- stdair::DateOffset_T [_boardingDateOffset](#)
- stdair::Duration_T [_boardingTime](#)
- stdair::AirportCode_T [_offPoint](#)
- stdair::DateOffset_T [_offDateOffset](#)
- stdair::Duration_T [_offTime](#)
- stdair::Duration_T [_elapsed](#)
- [LegCabinStructList_T](#) [_cabinList](#)

10.26.1 Detailed Description

Utility Structure for the parsing of Leg structures.

Definition at line 24 of file LegStruct.hpp.

10.26.2 Constructor & Destructor Documentation

10.26.2.1 AIRSCHED::LegStruct::LegStruct ()

Default Constructor.

Definition at line 16 of file LegStruct.cpp.

10.26.3 Member Function Documentation

10.26.3.1 void AIRSCHED::LegStruct::fill (const stdair::Date_T &iRefDate, stdair::LegDate &) const

Fill the LegDate objects with the attributes of the [LegStruct](#).

The given reference date corresponds to the date of the FlightDate. Indeed, each Leg gets date off-sets, when compared to that (reference) flight-date, both for the boarding date and for the off date.

Definition at line 48 of file LegStruct.cpp.

References [_airlineCode](#), [_boardingDateOffset](#), [_boardingTime](#), [_elapsed](#), [_flightNumber](#), [_offDateOffset](#), [_offPoint](#), and [_offTime](#).

10.26.3.2 const std::string AIRSCHED::LegStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 22 of file LegStruct.cpp.

References [_boardingDateOffset](#), [_boardingPoint](#), [_boardingTime](#), [_cabinList](#), [_elapsed](#), [_offDateOffset](#), [_offPoint](#), and [_offTime](#).

10.26.4 Member Data Documentation

10.26.4.1 stdair::AirlineCode_T AIRSCHED::LegStruct::_airlineCode

Definition at line 26 of file LegStruct.hpp.

Referenced by fill(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator>(), and AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator>().

10.26.4.2 stdair::FlightNumber_T AIRSCHED::LegStruct::_flightNumber

Definition at line 27 of file LegStruct.hpp.

Referenced by fill(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator>(), and AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator>().

10.26.4.3 stdair::AirportCode_T AIRSCHED::LegStruct::_boardingPoint

Definition at line 28 of file LegStruct.hpp.

Referenced by describe(), and AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator>().

10.26.4.4 stdair::DateOffset_T AIRSCHED::LegStruct::_boardingDateOffset

Definition at line 29 of file LegStruct.hpp.

Referenced by describe(), fill(), and AIRSCHED::ScheduleParserHelper::storeOffTime::operator>().

10.26.4.5 stdair::Duration_T AIRSCHED::LegStruct::_boardingTime

Definition at line 30 of file LegStruct.hpp.

Referenced by describe(), fill(), and AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator>().

10.26.4.6 stdair::AirportCode_T AIRSCHED::LegStruct::_offPoint

Definition at line 31 of file LegStruct.hpp.

Referenced by describe(), fill(), and AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator>().

10.26.4.7 stdair::DateOffset_T AIRSCHED::LegStruct::_offDateOffset

Definition at line 32 of file LegStruct.hpp.

Referenced by describe(), AIRSCHED::SegmentPeriodHelper::fill(), fill(), and AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator>().

10.26.4.8 stdair::Duration_T AIRSCHED::LegStruct::_offTime

Definition at line 33 of file LegStruct.hpp.

Referenced by describe(), AIRSCHED::SegmentPeriodHelper::fill(), fill(), and AIRSCHED::ScheduleParserHelper::storeOffTime::operator>().

10.26.4.9 stdair::Duration_T AIRSCHED::LegStruct::_elapsed

Definition at line 34 of file LegStruct.hpp.

Referenced by describe(), fill(), and AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator().

10.26.4.10 LegCabinStructList_T AIRSCHED::LegStruct::_cabinList

Definition at line 35 of file LegStruct.hpp.

Referenced by describe(), AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), and AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator().

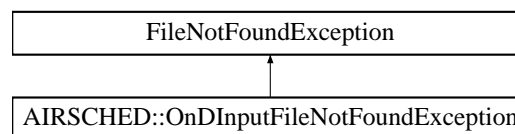
The documentation for this struct was generated from the following files:

- [airsched/bom/LegStruct.hpp](#)
- [airsched/bom/LegStruct.cpp](#)

10.27 AIRSCHED::OnDInputFileNotFoundException Class Reference

```
#include <airsched/AIRSCHED_Types.hpp>
```

Inheritance diagram for AIRSCHED::OnDInputFileNotFoundException::

**Public Member Functions**

- [OnDInputFileNotFoundException](#) (const std::string &iWhat)

10.27.1 Detailed Description

The O&D input file cannot be retrieved.

Definition at line 35 of file AIRSCHED_Types.hpp.

10.27.2 Constructor & Destructor Documentation**10.27.2.1 AIRSCHED::OnDInputFileNotFoundException::OnDInputFileNotFoundException (const std::string &iWhat) [inline]**

Constructor.

Definition at line 40 of file AIRSCHED_Types.hpp.

The documentation for this class was generated from the following file:

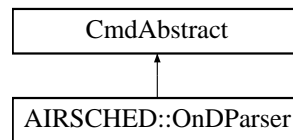
- [airsched/AIRSCHED_Types.hpp](#)

10.28 AIRSCHED::OnDParser Class Reference

Class wrapping the parser entry point.

```
#include <airsched/command/OnDParser.hpp>
```

Inheritance diagram for AIRSCHED::OnDParser::



Static Public Member Functions

- static void [generateOnDPeriods](#) (const stdair::ODFilePath &, stdair::BomRoot &)

10.28.1 Detailed Description

Class wrapping the parser entry point.

Definition at line 24 of file OnDParser.hpp.

10.28.2 Member Function Documentation

10.28.2.1 void AIRSCHED::OnDParser::generateOnDPeriods (const stdair::ODFilePath &, stdair::BomRoot &) [static]

Parse the CSV file describing the O&D.

Parameters:

- const** stdair::ODFilePath& The file-name of the CSV-formatted fare input file and the container.

Definition at line 17 of file OnDParser.cpp.

References AIRSCHED::OnDPeriodFileParser::generateOnDPeriods().

Referenced by AIRSCHED::AIRSCHED_Service::parseAndLoad().

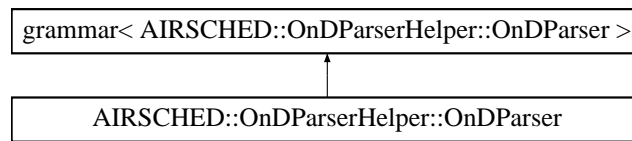
The documentation for this class was generated from the following files:

- [airsched/command/OnDParser.hpp](#)
- [airsched/command/OnDParser.cpp](#)

10.29 AIRSCHED::OnDParserHelper::OnDParser Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::OnDParser::



Public Member Functions

- [OnDParser](#) (stdair::BomRoot &, [OnDPeriodStruct](#) &)

Public Attributes

- stdair::BomRoot & [_bomRoot](#)
- [OnDPeriodStruct](#) & [_onDPeriod](#)

Classes

- struct [definition](#)

10.29.1 Detailed Description

Grammar for the FareRule parser.

Definition at line 127 of file OnDParserHelper.hpp.

10.29.2 Constructor & Destructor Documentation

10.29.2.1 AIRSCHED::OnDParserHelper::OnDParser::OnDParser (stdair::BomRoot &, [OnDPeriodStruct](#) &)

Definition at line 261 of file OnDParserHelper.cpp.

10.29.3 Member Data Documentation

10.29.3.1 stdair::BomRoot& [AIRSCHED::OnDParserHelper::OnDParser::_bomRoot](#)

Definition at line 145 of file OnDParserHelper.hpp.

Referenced by [AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition\(\)](#).

10.29.3.2 [OnDPeriodStruct](#)& [AIRSCHED::OnDParserHelper::OnDParser::_onDPeriod](#)

Definition at line 146 of file OnDParserHelper.hpp.

Referenced by [AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition\(\)](#).

The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.30 AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT > Struct Template Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Public Member Functions

- [definition](#) ([OnDParser](#) const &self)
- `boost::spirit::classic::rule< ScannerT > const & start () const`

Public Attributes

- `boost::spirit::classic::rule< ScannerT > ond_list`
- `boost::spirit::classic::rule< ScannerT > ond`
- `boost::spirit::classic::rule< ScannerT > segment`
- `boost::spirit::classic::rule< ScannerT > ond_key`
- `boost::spirit::classic::rule< ScannerT > ond_end`
- `boost::spirit::classic::rule< ScannerT > date`
- `boost::spirit::classic::rule< ScannerT > time`

10.30.1 Detailed Description

`template<typename ScannerT> struct AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >`

Definition at line 133 of file OnDParserHelper.hpp.

10.30.2 Constructor & Destructor Documentation

10.30.2.1 `template<typename ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition (OnDParser const &self)`

Definition at line 267 of file OnDParserHelper.cpp.

References `AIRSCHED::OnDParserHelper::OnDParser::_bomRoot`, `AIRSCHED::OnDParserHelper::OnDParser::_onDPeriod`, `AIRSCHED::OnDParserHelper::airline_code_p()`, `AIRSCHED::OnDParserHelper::airport_p()`, `AIRSCHED::OnDParserHelper::class_code_p()`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::date`, `AIRSCHED::OnDParserHelper::day_p()`, `AIRSCHED::OnDParserHelper::hours_p()`, `AIRSCHED::OnDParserHelper::minutes_p()`, `AIRSCHED::OnDParserHelper::month_p()`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_end`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_key`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_list`, `AIRSCHED::OnDParserHelper::seconds_p()`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::segment`, `AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::time`, and `AIRSCHED::OnDParserHelper::year_p()`.

10.30.3 Member Function Documentation

10.30.3.1 `template<typename ScannerT> boost::spirit::classic::rule< ScannerT > const & AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::start () const`

Entry point of the parser.

Definition at line 330 of file OnDParserHelper.cpp.

References AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_list.

10.30.4 Member Data Documentation

10.30.4.1 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_list`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition(), and AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::start().

10.30.4.2 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

10.30.4.3 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::segment`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

10.30.4.4 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_key`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

10.30.4.5 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::ond_end`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

10.30.4.6 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::date`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

10.30.4.7 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::time`

Definition at line 137 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >::definition().

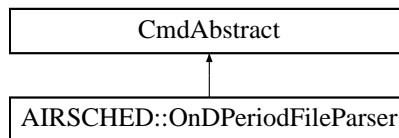
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.31 AIRSCHED::OnDPeriodFileParser Class Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDPeriodFileParser::



Public Member Functions

- [OnDPeriodFileParser](#) (const stdair::Filename_T &iFilename, stdair::BomRoot &ioBomRoot)
- [bool generateOnDPeriods](#) ()

10.31.1 Detailed Description

Class wrapping the initialisation and entry point of the parser.

The seemingly redundancy is used to force the instantiation of the actual parser, which is a templatised Boost Spirit grammar. Hence, the actual parser is instantiated within that class object code.

Definition at line 161 of file OnDParserHelper.hpp.

10.31.2 Constructor & Destructor Documentation

10.31.2.1 AIRSCHED::OnDPeriodFileParser::OnDPeriodFileParser (const stdair::Filename_T &iFilename, stdair::BomRoot &ioBomRoot)

Constructor.

Definition at line 342 of file OnDParserHelper.cpp.

10.31.3 Member Function Documentation

10.31.3.1 bool AIRSCHED::OnDPeriodFileParser::generateOnDPeriods ()

Parse the input file and generate the O&D-Periods.

Definition at line 378 of file OnDParserHelper.cpp.

Referenced by AIRSCHED::OnDParser::generateOnDPeriods().

The documentation for this class was generated from the following files:

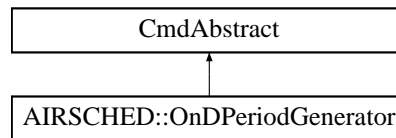
- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.32 AIRSCHED::OnDPeriodGenerator Class Reference

Class handling the generation / instantiation of the O&D-Period BOM.

```
#include <airsched/command/OnDPeriodGenerator.hpp>
```

Inheritance diagram for AIRSCHED::OnDPeriodGenerator::



Friends

- class [OnDPeriodFileParser](#)
- struct [OnDParserHelper::doEndOnD](#)
- class [OnDParser](#)

10.32.1 Detailed Description

Class handling the generation / instantiation of the O&D-Period BOM.

Definition at line 29 of file OnDPeriodGenerator.hpp.

10.32.2 Friends And Related Function Documentation

10.32.2.1 friend class [OnDPeriodFileParser](#) [friend]

Only the following class may use methods of [OnDPeriodGenerator](#). Indeed, as those methods build the BOM, it is not good to expose them publicly.

Definition at line 35 of file OnDPeriodGenerator.hpp.

10.32.2.2 friend struct [OnDParserHelper::doEndOnD](#) [friend]

Definition at line 36 of file OnDPeriodGenerator.hpp.

10.32.2.3 friend class [OnDParser](#) [friend]

Definition at line 37 of file OnDPeriodGenerator.hpp.

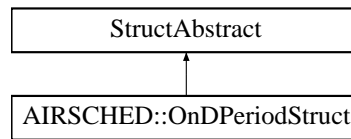
The documentation for this class was generated from the following files:

- [airsched/command/OnDPeriodGenerator.hpp](#)
- [airsched/command/OnDPeriodGenerator.cpp](#)

10.33 AIRSCHED::OnDPeriodStruct Struct Reference

```
#include <airsched/bom/OnDPeriodStruct.hpp>
```

Inheritance diagram for AIRSCHED::OnDPeriodStruct::



Public Member Functions

- const stdair::AirlineCode_T & [getFirstAirlineCode](#) () const
- stdair::Date_T [getDate](#) () const
- stdair::Duration_T [getTime](#) () const
- const std::string [describe](#) () const
- const std::string [describeTSKey](#) () const
- [OnDPeriodStruct](#) ()

Public Attributes

- stdair::AirportCode_T [_origin](#)
- stdair::AirportCode_T [_destination](#)
- stdair::DatePeriod_T [_datePeriod](#)
- stdair::Duration_T [_timeRangeStart](#)
- stdair::Duration_T [_timeRangeEnd](#)
- stdair::NbOfAirlines_T [_nbOfAirlines](#)
- stdair::AirlineCode_T [_airlineCode](#)
- stdair::ClassCode_T [_classCode](#)
- stdair::AirlineCodeList_T [_airlineCodeList](#)
- stdair::ClassCodeList_T [_classCodeList](#)
- stdair::Date_T [_dateRangeStart](#)
- stdair::Date_T [_dateRangeEnd](#)
- unsigned int [_itYear](#)
- unsigned int [_itMonth](#)
- unsigned int [_itDay](#)
- long [_itHours](#)
- long [_itMinutes](#)
- long [_itSeconds](#)

10.33.1 Detailed Description

Utility Structure for the parsing of FareRule structures.

Definition at line 15 of file OnDPeriodStruct.hpp.

10.33.2 Constructor & Destructor Documentation

10.33.2.1 AIRSCHED::OnDPeriodStruct::OnDPeriodStruct ()

Default constructor.

Definition at line 17 of file OnDPeriodStruct.cpp.

10.33.3 Member Function Documentation

10.33.3.1 `const stdair::AirlineCode_T & AIRSCHED::OnDPeriodStruct::getFirstAirlineCode () const`

Get the first airline code.

Definition at line 64 of file OnDPeriodStruct.cpp.

References `_airlineCodeList`.

10.33.3.2 `stdair::Date_T AIRSCHED::OnDPeriodStruct::getDate () const`

Get the date from the staging details.

Definition at line 28 of file OnDPeriodStruct.cpp.

References `_itDay`, `_itMonth`, and `_itYear`.

Referenced by `AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator()`, and `AIRSCHED::OnDParserHelper::storeDateRangeStart::operator()`.

10.33.3.3 `stdair::Duration_T AIRSCHED::OnDPeriodStruct::getTime () const`

Get the time from the staging details.

Definition at line 33 of file OnDPeriodStruct.cpp.

References `_itHours`, `_itMinutes`, and `_itSeconds`.

Referenced by `AIRSCHED::OnDParserHelper::storeEndRangeTime::operator()`, and `AIRSCHED::OnDParserHelper::storeStartRangeTime::operator()`.

10.33.3.4 `const std::string AIRSCHED::OnDPeriodStruct::describe () const`

Give a description of the structure (for display purposes).

Definition at line 40 of file OnDPeriodStruct.cpp.

References `_airlineCode`, `_classCode`, `_datePeriod`, `_destination`, `_origin`, `_timeRangeEnd`, and `_timeRangeStart`.

10.33.3.5 `const std::string AIRSCHED::OnDPeriodStruct::describeTSKey () const`

Give a short description of the key required in the travel solution object to differentiate fare rule structures.

Definition at line 55 of file OnDPeriodStruct.cpp.

References `_airlineCode`, `_classCode`, `_destination`, and `_origin`.

10.33.4 Member Data Documentation

10.33.4.1 `stdair::AirportCode_T AIRSCHED::OnDPeriodStruct::_origin`

Definition at line 41 of file OnDPeriodStruct.hpp.

Referenced by `describe()`, `describeTSKey()`, and `AIRSCHED::OnDParserHelper::storeOrigin::operator()`.

10.33.4.2 stdair::AirportCode_T AIRSCHED::OnDPeriodStruct::_destination

Definition at line 42 of file OnDPeriodStruct.hpp.

Referenced by describe(), describeTSKey(), and AIRSCHED::OnDParserHelper::store-Destination::operator().

10.33.4.3 stdair::DatePeriod_T AIRSCHED::OnDPeriodStruct::_datePeriod

Definition at line 43 of file OnDPeriodStruct.hpp.

Referenced by describe(), and AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator().

10.33.4.4 stdair::Duration_T AIRSCHED::OnDPeriodStruct::_timeRangeStart

Definition at line 44 of file OnDPeriodStruct.hpp.

Referenced by describe(), and AIRSCHED::OnDParserHelper::storeStartRangeTime::operator().

10.33.4.5 stdair::Duration_T AIRSCHED::OnDPeriodStruct::_timeRangeEnd

Definition at line 45 of file OnDPeriodStruct.hpp.

Referenced by describe(), and AIRSCHED::OnDParserHelper::storeEndRangeTime::operator().

10.33.4.6 stdair::NbOfAirlines_T AIRSCHED::OnDPeriodStruct::_nbOfAirlines

Definition at line 46 of file OnDPeriodStruct.hpp.

Referenced by AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

10.33.4.7 stdair::AirlineCode_T AIRSCHED::OnDPeriodStruct::_airlineCode

Definition at line 47 of file OnDPeriodStruct.hpp.

Referenced by describe(), describeTSKey(), AIRSCHED::OnDParserHelper::storeAirline-Code::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

10.33.4.8 stdair::ClassCode_T AIRSCHED::OnDPeriodStruct::_classCode

Definition at line 48 of file OnDPeriodStruct.hpp.

Referenced by describe(), describeTSKey(), AIRSCHED::OnDParserHelper::storeClass-Code::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

10.33.4.9 stdair::AirlineCodeList_T AIRSCHED::OnDPeriodStruct::_airlineCodeList

Definition at line 49 of file OnDPeriodStruct.hpp.

Referenced by getFirstAirlineCode(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

10.33.4.10 stdair::ClassCodeList_T AIRSCHED::OnDPeriodStruct::_classCodeList

Definition at line 50 of file OnDPeriodStruct.hpp.

Referenced by AIRSCHED::OnDParserHelper::storeClassCode::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

10.33.4.11 stdair::Date_T AIRSCHED::OnDPeriodStruct::_dateRangeStart

Staging Date.

Definition at line 53 of file OnDPeriodStruct.hpp.

Referenced by AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), and AIRSCHED::OnDParserHelper::storeDateRangeStart::operator().

10.33.4.12 stdair::Date_T AIRSCHED::OnDPeriodStruct::_dateRangeEnd

Definition at line 54 of file OnDPeriodStruct.hpp.

Referenced by AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator().

10.33.4.13 unsigned int AIRSCHED::OnDPeriodStruct::_itYear

Definition at line 55 of file OnDPeriodStruct.hpp.

Referenced by getDate().

10.33.4.14 unsigned int AIRSCHED::OnDPeriodStruct::_itMonth

Definition at line 56 of file OnDPeriodStruct.hpp.

Referenced by getDate().

10.33.4.15 unsigned int AIRSCHED::OnDPeriodStruct::_itDay

Definition at line 57 of file OnDPeriodStruct.hpp.

Referenced by getDate().

10.33.4.16 long AIRSCHED::OnDPeriodStruct::_itHours

Staging Time.

Definition at line 60 of file OnDPeriodStruct.hpp.

Referenced by getTime().

10.33.4.17 long AIRSCHED::OnDPeriodStruct::_itMinutes

Definition at line 61 of file OnDPeriodStruct.hpp.

Referenced by getTime().

10.33.4.18 long AIRSCHED::OnDPeriodStruct::_itSeconds

Definition at line 62 of file OnDPeriodStruct.hpp.

Referenced by getTime(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), and AIRSCHED::OnDParserHelper::storeDateRangeStart::operator().

The documentation for this struct was generated from the following files:

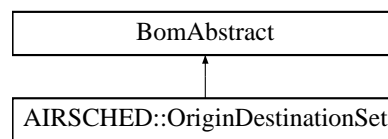
- [airsched/bom/OnDPeriodStruct.hpp](#)
- [airsched/bom/OnDPeriodStruct.cpp](#)

10.34 AIRSCHED::OriginDestinationSet Class Reference

Class representing a simple sub-network.

```
#include <airsched/bom/OriginDestinationSet.hpp>
```

Inheritance diagram for AIRSCHED::OriginDestinationSet::



Public Types

- typedef [OriginDestinationSetKey](#) Key_T

Public Member Functions

- const [Key_T](#) & [getKey](#) () const
- const stdair::AirportCode_T & [getDestination](#) () const
- stdair::BomAbstract *const [getParent](#) () const
- const stdair::HolderMap_T & [getHolderMap](#) () const
- void [toStream](#) (std::ostream &ioOut) const
- void [fromStream](#) (std::istream &ioIn)
- std::string [toString](#) () const
- const std::string [describeKey](#) () const
- template<class Archive> void [serialize](#) (Archive &ar, const unsigned int iFileVersion)

Protected Member Functions

- [OriginDestinationSet](#) (const [Key_T](#) &)
- [~OriginDestinationSet](#) ()

Protected Attributes

- [Key_T _key](#)
- stdair::BomAbstract * [_parent](#)
- stdair::HolderMap_T [_holderMap](#)

Friends

- class [stdair::FacBom](#)
- class [stdair::FacBomManager](#)
- class [boost::serialization::access](#)

10.34.1 Detailed Description

Class representing a simple sub-network.

That simple sub-network is made of a set of segments ([SegmentPathPeriod](#) objects), from the origin airport specified within [ReachableUniverse](#) (parent object) to the destination specified in the [OriginDestinationSetKey](#) object.

Each segment (composing that [OriginDestinationSet](#) object) corresponds to an actual travel solution from the origin to the destination, that is, a path that a traveller can take with actual scheduled flights.

Definition at line 44 of file [OriginDestinationSet.hpp](#).

10.34.2 Member Typedef Documentation

10.34.2.1 typedef [OriginDestinationSetKey](#) AIRSCHED::OriginDestinationSet::Key_T

Definition allowing to retrieve the associated BOM key type.

Definition at line 57 of file [OriginDestinationSet.hpp](#).

10.34.3 Constructor & Destructor Documentation

10.34.3.1 AIRSCHED::OriginDestinationSet::OriginDestinationSet (const [Key_T](#) &) [protected]

Main constructor.

Definition at line 31 of file [OriginDestinationSet.cpp](#).

10.34.3.2 AIRSCHED::OriginDestinationSet::~~OriginDestinationSet () [protected]

Destructor.

Definition at line 36 of file [OriginDestinationSet.cpp](#).

10.34.4 Member Function Documentation

10.34.4.1 const [Key_T](#)& AIRSCHED::OriginDestinationSet::getKey () const [inline]

Get the primary key (destination airport).

Definition at line 65 of file [OriginDestinationSet.hpp](#).

References [_key](#).

10.34.4.2 const stdair::AirportCode_T& AIRSCHED::OriginDestinationSet::getDestination () const [inline]

Get the destination airport (i.e., the primary key).

Definition at line 72 of file [OriginDestinationSet.hpp](#).

References [_key](#), and [AIRSCHED::OriginDestinationSetKey::getOffPoint\(\)](#).

10.34.4.3 stdair::BomAbstract* const AIRSCHED::OriginDestinationSet::getParent () const [inline]

Get the parent (i.e., [ReachableUniverse](#)) object.

Definition at line 79 of file OriginDestinationSet.hpp.

References `_parent`.

10.34.4.4 `const stdair::HolderMap_T& AIRSCHED::OriginDestinationSet::getHolderMap () const [inline]`

Get the map of children holders ([SegmentPathPeriod](#) objects).

Definition at line 86 of file OriginDestinationSet.hpp.

References `_holderMap`.

10.34.4.5 `void AIRSCHED::OriginDestinationSet::toStream (std::ostream & ioOut) const [inline]`

Dump a Business Object into an output stream.

Parameters:

ostream& the output stream.

Definition at line 98 of file OriginDestinationSet.hpp.

References `toString()`.

10.34.4.6 `void AIRSCHED::OriginDestinationSet::fromStream (std::istream & ioIn) [inline]`

Read a Business Object from an input stream.

Parameters:

istream& the input stream.

Definition at line 107 of file OriginDestinationSet.hpp.

10.34.4.7 `std::string AIRSCHED::OriginDestinationSet::toString () const`

Get the serialised version of the Business Object.

Definition at line 40 of file OriginDestinationSet.cpp.

References `_key`, and `AIRSCHED::OriginDestinationSetKey::toString()`.

Referenced by `toStream()`.

10.34.4.8 `const std::string AIRSCHED::OriginDestinationSet::describeKey () const [inline]`

Get a string describing the key.

Definition at line 118 of file OriginDestinationSet.hpp.

References `_key`, and `AIRSCHED::OriginDestinationSetKey::toString()`.

10.34.4.9 `template<class Archive> void AIRSCHED::OriginDestinationSet::serialize (Archive & ar, const unsigned int iFileVersion)`

Serialisation.

Definition at line 62 of file OriginDestinationSet.cpp.

References `_key`.

10.34.5 Friends And Related Function Documentation

10.34.5.1 `friend class stdair::FacBom` `[friend]`

Friend classes.

Definition at line 48 of file OriginDestinationSet.hpp.

10.34.5.2 `friend class stdair::FacBomManager` `[friend]`

Definition at line 49 of file OriginDestinationSet.hpp.

10.34.5.3 `friend class boost::serialization::access` `[friend]`

Definition at line 50 of file OriginDestinationSet.hpp.

10.34.6 Member Data Documentation

10.34.6.1 `Key_T AIRSCHED::OriginDestinationSet::_key` `[protected]`

Primary key (destination airport code).

Definition at line 168 of file OriginDestinationSet.hpp.

Referenced by `describeKey()`, `getDestination()`, `getKey()`, `serialize()`, and `toString()`.

10.34.6.2 `stdair::BomAbstract* AIRSCHED::OriginDestinationSet::_parent` `[protected]`

Pointer on the parent ([ReachableUniverse](#)) object.

Definition at line 173 of file OriginDestinationSet.hpp.

Referenced by `getParent()`.

10.34.6.3 `stdair::HolderMap_T` `AIRSCHED::OriginDestinationSet::_holderMap` `[protected]`

Map holding the children ([SegmentPathPeriod](#) objects).

Definition at line 178 of file OriginDestinationSet.hpp.

Referenced by `getHolderMap()`.

The documentation for this class was generated from the following files:

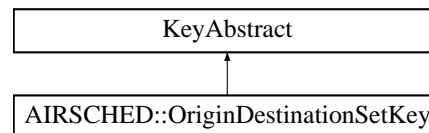
- [airsched/bom/OriginDestinationSet.hpp](#)
- [airsched/bom/OriginDestinationSet.cpp](#)

10.35 AIRSCHED::OriginDestinationSetKey Struct Reference

Structure representing the key of a sub-network.

```
#include <airsched/bom/OriginDestinationSetKey.hpp>
```

Inheritance diagram for AIRSCHED::OriginDestinationSetKey::



Public Member Functions

- [OriginDestinationSetKey](#) (const stdair::AirportCode_T &iDestination)
- [OriginDestinationSetKey](#) (const [OriginDestinationSetKey](#) &)
- [~OriginDestinationSetKey](#) ()
- const stdair::AirportCode_T & [getOffPoint](#) () const
- void [toStream](#) (std::ostream &ioOut) const
- void [fromStream](#) (std::istream &ioIn)
- const std::string [toString](#) () const
- template<class Archive> void [serialize](#) (Archive &ar, const unsigned int iFileVersion)

Friends

- class [boost::serialization::access](#)

10.35.1 Detailed Description

Structure representing the key of a sub-network.

As the origin airport code is already part of the [ReachableUniverse](#) (parent) class, that key is only made of the destination airport code.

Definition at line 30 of file OriginDestinationSetKey.hpp.

10.35.2 Constructor & Destructor Documentation

10.35.2.1 AIRSCHED::OriginDestinationSetKey::OriginDestinationSetKey (const stdair::AirportCode_T &iDestination)

Constructor.

Definition at line 26 of file OriginDestinationSetKey.cpp.

10.35.2.2 AIRSCHED::OriginDestinationSetKey::OriginDestinationSetKey (const [OriginDestinationSetKey](#) &)

Copy constructor.

Definition at line 32 of file OriginDestinationSetKey.cpp.

10.35.2.3 AIRSCHED::OriginDestinationSetKey::~~OriginDestinationSetKey ()

Destructor.

Definition at line 37 of file OriginDestinationSetKey.cpp.

10.35.3 Member Function Documentation

10.35.3.1 const std::air::AirportCode_T& AIRSCHED::OriginDestinationSetKey::getOffPoint () const [inline]

Get the destination airport.

Definition at line 62 of file OriginDestinationSetKey.hpp.

Referenced by AIRSCHED::OriginDestinationSet::getDestination().

10.35.3.2 void AIRSCHED::OriginDestinationSetKey::toStream (std::ostream & ioOut) const

Dump a Business Object Key into an output stream.

Parameters:

ostream& the output stream.

Definition at line 41 of file OriginDestinationSetKey.cpp.

References toString().

10.35.3.3 void AIRSCHED::OriginDestinationSetKey::fromStream (std::istream & ioIn)

Read a Business Object Key from an input stream.

Parameters:

istream& the input stream.

Definition at line 46 of file OriginDestinationSetKey.cpp.

10.35.3.4 const std::string AIRSCHED::OriginDestinationSetKey::toString () const

Get the serialised version of the Business Object Key.

That string is unique, at the level of a given Business Object, when among children of a given parent Business Object.

For instance, "H" and "K" allow to differentiate among two marketing classes for the same segment-date.

Definition at line 50 of file OriginDestinationSetKey.cpp.

Referenced by AIRSCHED::OriginDestinationSet::describeKey(), toStream(), and AIRSCHED::OriginDestinationSet::toString().

10.35.3.5 template<class Archive> void AIRSCHED::OriginDestinationSetKey::serialize (Archive & ar, const unsigned int iFileVersion)

Serialisation.

Definition at line 72 of file OriginDestinationSetKey.cpp.

10.35.4 Friends And Related Function Documentation

10.35.4.1 friend class boost::serialization::access [friend]

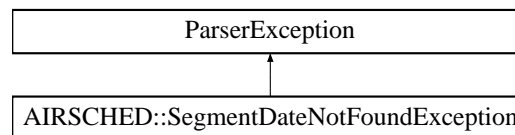
Definition at line 31 of file OriginDestinationSetKey.hpp.

The documentation for this struct was generated from the following files:

- [airsched/bom/OriginDestinationSetKey.hpp](#)
- [airsched/bom/OriginDestinationSetKey.cpp](#)

10.36 ParserException Class Reference

Inheritance diagram for ParserException::



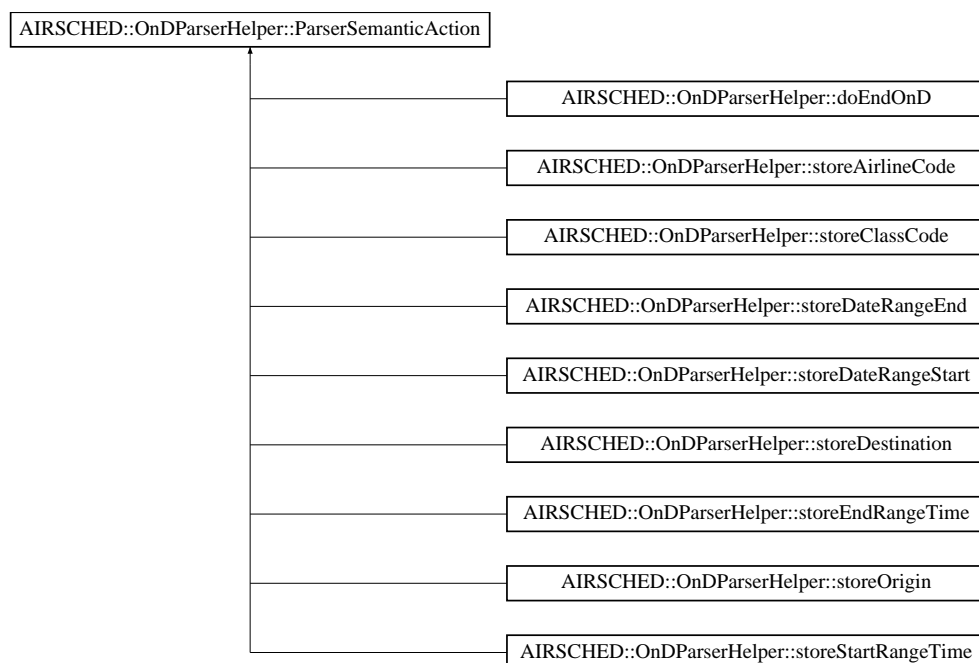
The documentation for this class was generated from the following file:

- [airsched/AIRSCHEd_Types.hpp](#)

10.37 AIRSCHEd::OnDParserHelper::ParserSemanticAction Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHEd::OnDParserHelper::ParserSemanticAction::



Public Member Functions

- [ParserSemanticAction](#) ([OnDPeriodStruct](#) &)

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.37.1 Detailed Description

Generic Semantic Action (Actor / Functor) for the Schedule Parser.

Definition at line 34 of file [OnDParserHelper.hpp](#).

10.37.2 Constructor & Destructor Documentation**10.37.2.1 AIRSCHED::OnDParserHelper::ParserSemanticAction::ParserSemanticAction ([OnDPeriodStruct](#) &)**

Actor Constructor.

Definition at line 25 of file [OnDParserHelper.cpp](#).

10.37.3 Member Data Documentation**10.37.3.1 [OnDPeriodStruct](#)& AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod**

Actor Context.

Definition at line 38 of file [OnDParserHelper.hpp](#).

Referenced by [AIRSCHED::OnDParserHelper::doEndOnD::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeClassCode::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeAirlineCode::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeEndRangeTime::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeStartRangeTime::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeDateRangeStart::operator\(\)](#)(), [AIRSCHED::OnDParserHelper::storeDestination::operator\(\)](#)(), and [AIRSCHED::OnDParserHelper::storeOrigin::operator\(\)](#)().

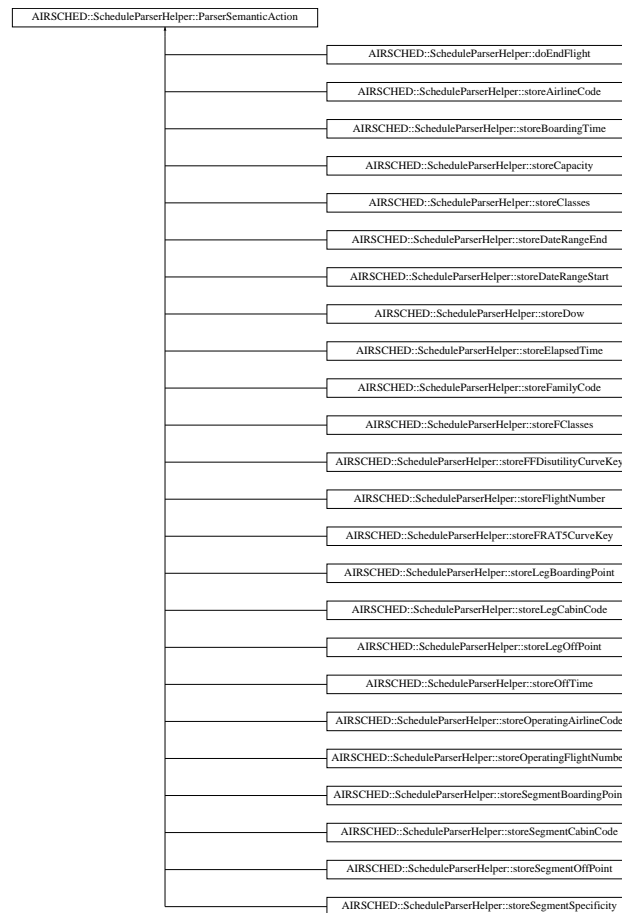
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.38 AIRSCHED::ScheduleParserHelper::ParserSemanticAction Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for [AIRSCHED::ScheduleParserHelper::ParserSemanticAction](#)::



Public Member Functions

- [ParserSemanticAction](#) ([FlightPeriodStruct](#) &)

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.38.1 Detailed Description

Generic Semantic Action (Actor / Functor) for the Schedule Parser.

Definition at line 29 of file `ScheduleParserHelper.hpp`.

10.38.2 Constructor & Destructor Documentation

10.38.2.1 AIRSCHED::ScheduleParserHelper::ParserSemanticAction::ParserSemanticAction ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 26 of file `ScheduleParserHelper.cpp`.

10.38.3 Member Data Documentation

10.38.3.1 FlightPeriodStruct& AIRSCHEd::ScheduleParserHelper::ParserSemanticAction::_-flightPeriod

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHEd::ScheduleParserHelper::doEndFlight::operator(), AIRSCHEd::ScheduleParserHelper::storeFClasses::operator(), AIRSCHEd::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHEd::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHEd::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHEd::ScheduleParserHelper::storeClasses::operator(), AIRSCHEd::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHEd::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHEd::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHEd::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHEd::ScheduleParserHelper::storeCapacity::operator(), AIRSCHEd::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHEd::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHEd::ScheduleParserHelper::storeOffTime::operator(), AIRSCHEd::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHEd::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHEd::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHEd::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHEd::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHEd::ScheduleParserHelper::storeDow::operator(), AIRSCHEd::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHEd::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHEd::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHEd::ScheduleParserHelper::storeAirlineCode::operator().

The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.39 airsched::Passenger_T Struct Reference

```
#include <airsched/batches/BookingRequestParser.hpp>
```

Public Types

- [ADULT](#) = 0
- [CHILD](#)
- [PET](#)
- [LAST_VALUE](#)
- enum [PassengerType_T](#) { [ADULT](#) = 0, [CHILD](#), [PET](#), [LAST_VALUE](#) }

Public Member Functions

- [Passenger_T](#) ()
- void [display](#) () const

Public Attributes

- [PassengerType_T _type](#)

- unsigned short [_number](#)

Static Public Attributes

- static const std::string [_labels](#) [LAST_VALUE]

10.39.1 Detailed Description

Passenger.

Definition at line 71 of file BookingRequestParser.hpp.

10.39.2 Member Enumeration Documentation

10.39.2.1 enum [airsched::Passenger_T::PassengerType_T](#)

Enumerator:

ADULT

CHILD

PET

LAST_VALUE

Definition at line 73 of file BookingRequestParser.hpp.

10.39.3 Constructor & Destructor Documentation

10.39.3.1 [airsched::Passenger_T::Passenger_T\(\)](#) [inline]

Constructor.

Definition at line 78 of file BookingRequestParser.hpp.

10.39.4 Member Function Documentation

10.39.4.1 [void airsched::Passenger_T::display\(\) const](#) [inline]

Definition at line 80 of file BookingRequestParser.hpp.

References [_labels](#), [_number](#), and [_type](#).

10.39.5 Member Data Documentation

10.39.5.1 [const std::string airsched::Passenger_T::_labels](#) [static]

Initial value:

```
{ "Adult", "Child", "Pet" }
```

Passenger type labels.

Definition at line 74 of file BookingRequestParser.hpp.

Referenced by [display\(\)](#).

10.39.5.2 PassengerType_T airsched::Passenger_T::_type

Definition at line 75 of file BookingRequestParser.hpp.

Referenced by `display()`, `airsched::store_pet_passenger_type::operator()()`, `airsched::store_child_passenger_type::operator()()`, and `airsched::store_adult_passenger_type::operator()()`.

10.39.5.3 unsigned short airsched::Passenger_T::_number

Definition at line 76 of file BookingRequestParser.hpp.

Referenced by `display()`, and `airsched::store_passenger_number::operator()()`.

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.hpp](#)

10.40 airsched::Place_T Struct Reference

```
#include <airsched/batches/BookingRequestParser.hpp>
```

Public Member Functions

- [Place_T \(\)](#)
- void [display \(\)](#) const

Public Attributes

- std::string [_name](#)
- std::string [_code](#)

10.40.1 Detailed Description

Place.

Definition at line 11 of file BookingRequestParser.hpp.

10.40.2 Constructor & Destructor Documentation

10.40.2.1 airsched::Place_T::Place_T () [inline]

Constructor.

Definition at line 16 of file BookingRequestParser.hpp.

10.40.3 Member Function Documentation

10.40.3.1 void airsched::Place_T::display () const [inline]

Definition at line 18 of file BookingRequestParser.hpp.

References `_code`, and `_name`.

Referenced by `airsched::SearchString_T::display()`.

10.40.4 Member Data Documentation

10.40.4.1 `std::string` [airsched::Place_T::_name](#)

Definition at line 13 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_place_element::operator()()`.

10.40.4.2 `std::string` [airsched::Place_T::_code](#)

Definition at line 14 of file `BookingRequestParser.hpp`.

Referenced by `display()`.

The documentation for this struct was generated from the following file:

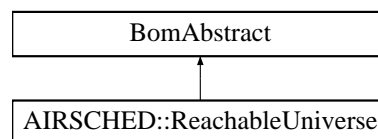
- `airsched/batches/BookingRequestParser.hpp`

10.41 AIRSCHED::ReachableUniverse Class Reference

Class representing the root of the schedule-related BOM tree.

```
#include <airsched/bom/ReachableUniverse.hpp>
```

Inheritance diagram for AIRSCHED::ReachableUniverse::



Public Types

- typedef [ReachableUniverseKey](#) [Key_T](#)

Public Member Functions

- const [Key_T](#) & [getKey](#) () const
- const `stdair::AirportCode_T` & [getOrigin](#) () const
- `stdair::BomAbstract` *const [getParent](#) () const
- const `stdair::HolderMap_T` & [getHolderMap](#) () const
- const [SegmentPathPeriodListList_T](#) & [getSegmentPathPeriodListList](#) () const
- void [toStream](#) (`std::ostream` &`ioOut`) const
- void [fromStream](#) (`std::istream` &`ioIn`)
- `std::string` [toString](#) () const
- const `std::string` [describeKey](#) () const
- template<class Archive> void [serialize](#) (Archive &`ar`, const unsigned int `iFileVersion`)

Protected Member Functions

- [ReachableUniverse](#) (const [Key_T](#) &)
- [~ReachableUniverse](#) ()

Protected Attributes

- [Key_T _key](#)
- [stdair::BomAbstract * _parent](#)
- [stdair::HolderMap_T _holderMap](#)
- [SegmentPathPeriodListList_T _segmentPathPeriodListList](#)

Friends

- class [stdair::FacBom](#)
- class [stdair::FacBomManager](#)
- class [SegmentPathGenerator](#)
- class [boost::serialization::access](#)

10.41.1 Detailed Description

Class representing the root of the schedule-related BOM tree.

It is the pending, in the schedule universe, of the [stdair::Inventory](#) class. It corresponds to all the destinations, which can be reached from a given geographical point. That latter is an airport for now, and its key (airport code) is specified by the [ReachableUniverseKey](#) object.

Definition at line 41 of file [ReachableUniverse.hpp](#).

10.41.2 Member Typedef Documentation

10.41.2.1 typedef [ReachableUniverseKey](#) AIRSCHED::ReachableUniverse::Key_T

Definition allowing to retrieve the associated BOM key type.

Definition at line 55 of file [ReachableUniverse.hpp](#).

10.41.3 Constructor & Destructor Documentation

10.41.3.1 AIRSCHED::ReachableUniverse::ReachableUniverse (const [Key_T](#) &) [protected]

Main constructor.

Definition at line 32 of file [ReachableUniverse.cpp](#).

10.41.3.2 AIRSCHED::ReachableUniverse::~~ReachableUniverse () [protected]

Destructor.

Definition at line 37 of file [ReachableUniverse.cpp](#).

10.41.4 Member Function Documentation

10.41.4.1 const [Key_T](#)& AIRSCHED::ReachableUniverse::getKey () const [inline]

Get the universe key (airport code representing the departure point of the "reachable universe").

Definition at line 63 of file [ReachableUniverse.hpp](#).

References [_key](#).

10.41.4.2 `const stdair::AirportCode_T& AIRSCHED::ReachableUniverse::getOrigin () const [inline]`

Get the (origin) airport (i.e., the primary key).

Definition at line 70 of file ReachableUniverse.hpp.

References `_key`, and `AIRSCHED::ReachableUniverseKey::getBoardingPoint()`.

10.41.4.3 `stdair::BomAbstract* const AIRSCHED::ReachableUniverse::getParent () const [inline]`

Get the parent (i.e., the BomRoot) object.

Definition at line 77 of file ReachableUniverse.hpp.

References `_parent`.

10.41.4.4 `const stdair::HolderMap_T& AIRSCHED::ReachableUniverse::getHolderMap () const [inline]`

Get the map of children holders ([OriginDestinationSet](#) objects).

Definition at line 84 of file ReachableUniverse.hpp.

References `_holderMap`.

10.41.4.5 `const SegmentPathPeriodListList_T& AIRSCHED::ReachableUniverse::getSegmentPathPeriodListList () const [inline]`

Get the vector of SegmentPathPeriodLightList objects.

Definition at line 91 of file ReachableUniverse.hpp.

References `_segmentPathPeriodListList`.

10.41.4.6 `void AIRSCHED::ReachableUniverse::toStream (std::ostream & ioOut) const [inline]`

Dump a Business Object into an output stream.

Parameters:

ostream& the output stream.

Definition at line 103 of file ReachableUniverse.hpp.

References `toString()`.

10.41.4.7 `void AIRSCHED::ReachableUniverse::fromStream (std::istream & ioIn) [inline]`

Read a Business Object from an input stream.

Parameters:

istream& the input stream.

Definition at line 112 of file ReachableUniverse.hpp.

10.41.4.8 std::string AIRSCHED::ReachableUniverse::toString () const

Get the serialised version of the Business Object.

Definition at line 41 of file ReachableUniverse.cpp.

References `_key`, and `AIRSCHED::ReachableUniverseKey::toString()`.

Referenced by `AIRSCHED::BomDisplay::csvDisplay()`, and `toStream()`.

10.41.4.9 const std::string AIRSCHED::ReachableUniverse::describeKey () const [inline]

Get a string describing the key.

Definition at line 123 of file ReachableUniverse.hpp.

References `_key`, and `AIRSCHED::ReachableUniverseKey::toString()`.

10.41.4.10 template<class Archive> void AIRSCHED::ReachableUniverse::serialize (Archive & ar, const unsigned int iFileVersion)

Serialisation.

Definition at line 63 of file ReachableUniverse.cpp.

References `_key`.

10.41.5 Friends And Related Function Documentation

10.41.5.1 friend class stdair::FacBom [friend]

Friend classes.

Definition at line 45 of file ReachableUniverse.hpp.

10.41.5.2 friend class stdair::FacBomManager [friend]

Definition at line 46 of file ReachableUniverse.hpp.

10.41.5.3 friend class [SegmentPathGenerator](#) [friend]

Definition at line 47 of file ReachableUniverse.hpp.

10.41.5.4 friend class boost::serialization::access [friend]

Definition at line 48 of file ReachableUniverse.hpp.

10.41.6 Member Data Documentation

10.41.6.1 [Key_T](#) AIRSCHED::ReachableUniverse::_key [protected]

Primary key (origin airport code).

Definition at line 174 of file ReachableUniverse.hpp.

Referenced by `describeKey()`, `getKey()`, `getOrigin()`, `serialize()`, and `toString()`.

10.41.6.2 `stdair::BomAbstract*` [AIRSCHED::ReachableUniverse::_parent](#) [protected]

Pointer on the parent (BomRoot) object.

Definition at line 179 of file ReachableUniverse.hpp.

Referenced by `getParent()`.

10.41.6.3 `stdair::HolderMap_T` [AIRSCHED::ReachableUniverse::_holderMap](#) [protected]

Map holding the children ([OriginDestinationSet](#) objects).

Definition at line 184 of file ReachableUniverse.hpp.

Referenced by `getHolderMap()`.

10.41.6.4 [SegmentPathPeriodListList_T](#) [AIRSCHED::ReachableUniverse::_segmentPathPeriodListList](#) [protected]

The list (actually, a vector) of lists of [SegmentPathPeriods](#), used solely for the construction of the main list of [SegmentPathPeriods](#) within the [ReachableUniverseStructure](#).

Definition at line 191 of file ReachableUniverse.hpp.

Referenced by `getSegmentPathPeriodListList()`.

The documentation for this class was generated from the following files:

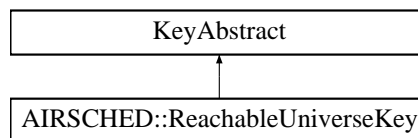
- [airsched/bom/ReachableUniverse.hpp](#)
- [airsched/bom/ReachableUniverse.cpp](#)

10.42 AIRSCHED::ReachableUniverseKey Struct Reference

Structure representing the key of the schedule-related BOM tree root.

```
#include <airsched/bom/ReachableUniverseKey.hpp>
```

Inheritance diagram for AIRSCHED::ReachableUniverseKey::

**Public Member Functions**

- [ReachableUniverseKey](#) (const `stdair::AirportCode_T` &iOrigin)
- [ReachableUniverseKey](#) (const [ReachableUniverseKey](#) &)
- [~ReachableUniverseKey](#) ()
- const `stdair::AirportCode_T` & [getBoardingPoint](#) () const
- void [toStream](#) (std::ostream &ioOut) const
- void [fromStream](#) (std::istream &ioIn)
- const std::string [toString](#) () const
- template<class Archive> void [serialize](#) (Archive &ar, const unsigned int iFileVersion)

Friends

- class [boost::serialization::access](#)

10.42.1 Detailed Description

Structure representing the key of the schedule-related BOM tree root.

The [ReachableUniverse](#) is the pending, in the schedule universe, of the `stdair::Inventory` class. It corresponds to all the destinations which can be reached from a given geographical point. That latter is an airport for now, and the present structure specifies its key (i.e., airport code).

Definition at line 33 of file `ReachableUniverseKey.hpp`.

10.42.2 Constructor & Destructor Documentation

10.42.2.1 AIRSCHED::ReachableUniverseKey::ReachableUniverseKey (const stdair::AirportCode_T & *iOrigin*)

Constructor.

Definition at line 32 of file `ReachableUniverseKey.cpp`.

10.42.2.2 AIRSCHED::ReachableUniverseKey::ReachableUniverseKey (const [ReachableUniverseKey](#) &)

Copy constructor.

Definition at line 26 of file `ReachableUniverseKey.cpp`.

10.42.2.3 AIRSCHED::ReachableUniverseKey::~~ReachableUniverseKey ()

Destructor.

Definition at line 37 of file `ReachableUniverseKey.cpp`.

10.42.3 Member Function Documentation

10.42.3.1 const stdair::AirportCode_T& AIRSCHED::ReachableUniverseKey::getBoardingPoint () const [inline]

Get the origin airport (from which the remaining universe may be reached).

Definition at line 66 of file `ReachableUniverseKey.hpp`.

Referenced by `AIRSCHED::ReachableUniverse::getOrigin()`.

10.42.3.2 void AIRSCHED::ReachableUniverseKey::toStream (std::ostream & *ioOut*) const

Dump a Business Object Key into an output stream.

Parameters:

ostream& the output stream.

Definition at line 41 of file `ReachableUniverseKey.cpp`.

References `toString()`.

10.42.3.3 void AIRSCHED::ReachableUniverseKey::fromStream (std::istream & *ioIn*)

Read a Business Object Key from an input stream.

Parameters:

istream& the input stream.

Definition at line 46 of file ReachableUniverseKey.cpp.

10.42.3.4 const std::string AIRSCHED::ReachableUniverseKey::toString () const

Get the serialised version of the Business Object Key.

That string is unique, at the level of a given Business Object, when among children of a given parent Business Object.

For instance, "H" and "K" allow to differentiate among two marketing classes for the same segment-date.

Definition at line 50 of file ReachableUniverseKey.cpp.

Referenced by AIRSCHED::ReachableUniverse::describeKey(), toStream(), and AIRSCHED::ReachableUniverse::toString().

10.42.3.5 template<class Archive> void AIRSCHED::ReachableUniverseKey::serialize (Archive & *ar*, const unsigned int *iFileVersion*)

Serialisation.

Definition at line 72 of file ReachableUniverseKey.cpp.

10.42.4 Friends And Related Function Documentation**10.42.4.1 friend class boost::serialization::access [friend]**

Definition at line 34 of file ReachableUniverseKey.hpp.

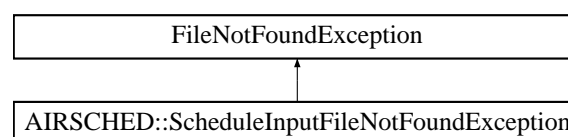
The documentation for this struct was generated from the following files:

- [airsched/bom/ReachableUniverseKey.hpp](#)
- [airsched/bom/ReachableUniverseKey.cpp](#)

10.43 AIRSCHED::ScheduleInputFileNotFoundException Class Reference

```
#include <airsched/AIRSCHED_Types.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleInputFileNotFoundException::



Public Member Functions

- [ScheduleInputFileNotFoundException](#) (const std::string &iWhat)

10.43.1 Detailed Description

The schedule input file cannot be retrieved.

Definition at line 47 of file AIRSCHED_Types.hpp.

10.43.2 Constructor & Destructor Documentation

10.43.2.1 AIRSCHED::ScheduleInputFileNotFoundException::ScheduleInputFileNotFoundException (const std::string &iWhat) [inline]

Constructor.

Definition at line 53 of file AIRSCHED_Types.hpp.

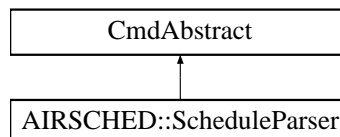
The documentation for this class was generated from the following file:

- [airsched/AIRSCHED_Types.hpp](#)

10.44 AIRSCHED::ScheduleParser Class Reference

```
#include <airsched/command/ScheduleParser.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParser::



Static Public Member Functions

- static void [generateInventories](#) (const stdair::ScheduleFilePath &, stdair::BomRoot &)

10.44.1 Detailed Description

Class wrapping the parser entry point.

Definition at line 22 of file ScheduleParser.hpp.

10.44.2 Member Function Documentation

10.44.2.1 void AIRSCHED::ScheduleParser::generateInventories (const stdair::ScheduleFilePath &, stdair::BomRoot &) [static]

Parse the CSV file describing the airline schedules for the simulator, and generates the inventories accordingly.

Parameters:

- const* stdair::ScheduleFilePath& The file-name of the CSV-formatted schedule input file.
- stdair::BomRoot&* Root of the BOM tree.

Definition at line 20 of file ScheduleParser.cpp.

References AIRSCHEd::FlightPeriodFileParser::generateInventories().

Referenced by AIRSCHEd::AIRSCHEd_Service::parseAndLoad().

The documentation for this class was generated from the following files:

- airsched/command/[ScheduleParser.hpp](#)
- airsched/command/[ScheduleParser.cpp](#)

10.45 airsched::SearchString_T Struct Reference

```
#include <airsched/batches/BookingRequestParser.hpp>
```

Public Member Functions

- [SearchString_T](#) ()
- void [display](#) () const

Public Attributes

- [PlaceList_T](#) _placeList
- [DateList_T](#) _dateList
- [AirlineList_T](#) _airlineList
- [PassengerList_T](#) _passengerList
- [Place_T](#) _tmpPlace
- [Date_T](#) _tmpDate
- [Airline_T](#) _tmpAirline
- [Passenger_T](#) _tmpPassenger

10.45.1 Detailed Description

Search string.

Definition at line 94 of file BookingRequestParser.hpp.

10.45.2 Constructor & Destructor Documentation

10.45.2.1 airsched::SearchString_T::SearchString_T () [inline]

Constructor.

Definition at line 102 of file BookingRequestParser.hpp.

10.45.3 Member Function Documentation

10.45.3.1 `void airsched::SearchString_T::display () const` [inline]

Definition at line 105 of file `BookingRequestParser.hpp`.

References `_airlineList`, `_dateList`, `_passengerList`, `_placeList`, `_tmpPlace`, and `airsched::Place_T::display()`.

10.45.4 Member Data Documentation

10.45.4.1 `PlaceList_T airsched::SearchString_T::_placeList`

Definition at line 96 of file `BookingRequestParser.hpp`.

Referenced by `display()`.

10.45.4.2 `DateList_T airsched::SearchString_T::_dateList`

Definition at line 97 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_date::operator()`.

10.45.4.3 `AirlineList_T airsched::SearchString_T::_airlineList`

Definition at line 98 of file `BookingRequestParser.hpp`.

Referenced by `display()`, `airsched::store_airline_name::operator()`, and `airsched::store_airline_code::operator()`.

10.45.4.4 `PassengerList_T airsched::SearchString_T::_passengerList`

Definition at line 99 of file `BookingRequestParser.hpp`.

Referenced by `display()`, `airsched::store_pet_passenger_type::operator()`, `airsched::store_child_passenger_type::operator()`, and `airsched::store_adult_passenger_type::operator()`.

10.45.4.5 `Place_T airsched::SearchString_T::_tmpPlace`

Definition at line 137 of file `BookingRequestParser.hpp`.

Referenced by `display()`, and `airsched::store_place_element::operator()`.

10.45.4.6 `Date_T airsched::SearchString_T::_tmpDate`

Definition at line 138 of file `BookingRequestParser.hpp`.

Referenced by `airsched::store_date::operator()`.

10.45.4.7 `Airline_T airsched::SearchString_T::_tmpAirline`

Definition at line 139 of file `BookingRequestParser.hpp`.

Referenced by `airsched::store_airline_name::operator()`, `airsched::store_airline_code::operator()`, and `airsched::store_airline_sign::operator()`.

10.45.4.8 Passenger_T airsched::SearchString_T::_tmpPassenger

Definition at line 140 of file BookingRequestParser.hpp.

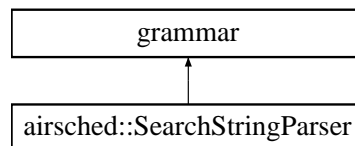
Referenced by `airsched::store_pet_passenger_type::operator()`, `airsched::store_child_passenger_type::operator()`, `airsched::store_adult_passenger_type::operator()`, and `airsched::store_passenger_number::operator()`.

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.hpp](#)

10.46 airsched::SearchStringParser Struct Reference

Inheritance diagram for `airsched::SearchStringParser`:



Public Member Functions

- [SearchStringParser](#) ([SearchString_T](#) &`ioSearchString`)

Public Attributes

- [SearchString_T](#) & `_searchString`

Classes

- struct [definition](#)

10.46.1 Detailed Description

Grammar for the search string parser.

Definition at line 251 of file BookingRequestParser.cpp.

10.46.2 Constructor & Destructor Documentation

10.46.2.1 airsched::SearchStringParser::SearchStringParser ([SearchString_T](#) & *ioSearchString*) [inline]

Definition at line 254 of file BookingRequestParser.cpp.

10.46.3 Member Data Documentation

10.46.3.1 [SearchString_T](#) & `airsched::SearchStringParser::_searchString`

Definition at line 369 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

The documentation for this struct was generated from the following file:

- `airsched/batches/BookingRequestParser.cpp`

10.47 `airsched::SearchStringParser::definition< ScannerT >` Struct Template Reference

Public Member Functions

- `definition` (`SearchStringParser` const &`self`)
- `boost::spirit::classic::rule< ScannerT >` const & `start` () const

Public Attributes

- `boost::spirit::classic::rule< ScannerT >` `search_string`
- `boost::spirit::classic::rule< ScannerT >` `places`
- `boost::spirit::classic::rule< ScannerT >` `place_element`
- `boost::spirit::classic::rule< ScannerT >` `dates`
- `boost::spirit::classic::rule< ScannerT >` `date`
- `boost::spirit::classic::rule< ScannerT >` `month`
- `boost::spirit::classic::rule< ScannerT >` `day`
- `boost::spirit::classic::rule< ScannerT >` `year`
- `boost::spirit::classic::rule< ScannerT >` `preferred_airlines`
- `boost::spirit::classic::rule< ScannerT >` `airline_code`
- `boost::spirit::classic::rule< ScannerT >` `airline_name`
- `boost::spirit::classic::rule< ScannerT >` `passengers`
- `boost::spirit::classic::rule< ScannerT >` `passenger_number`
- `boost::spirit::classic::rule< ScannerT >` `passenger_type`
- `boost::spirit::classic::rule< ScannerT >` `passenger_adult_type`
- `boost::spirit::classic::rule< ScannerT >` `passenger_child_type`
- `boost::spirit::classic::rule< ScannerT >` `passenger_pet_type`

10.47.1 Detailed Description

`template<typename ScannerT> struct airsched::SearchStringParser::definition< ScannerT >`

Definition at line 259 of file `BookingRequestParser.cpp`.

10.47.2 Constructor & Destructor Documentation

10.47.2.1 `template<typename ScannerT> airsched::SearchStringParser::definition< ScannerT >::definition (SearchStringParser const &self)` `[inline]`

Definition at line 260 of file `BookingRequestParser.cpp`.

References `airsched::SearchStringParser::_searchString`, `airsched::SearchStringParser::definition< ScannerT >::airline_code`, `airsched::SearchStringParser::definition< ScannerT >::airline_name`,

`airsched::SearchStringParser::definition< ScannerT >::date`, `airsched::SearchStringParser::definition< ScannerT >::dates`, `airsched::SearchStringParser::definition< ScannerT >::day`, `airsched::SearchStringParser::definition< ScannerT >::month`, `airsched::SearchStringParser::definition< ScannerT >::passenger_adult_type`, `airsched::SearchStringParser::definition< ScannerT >::passenger_child_type`, `airsched::SearchStringParser::definition< ScannerT >::passenger_number`, `airsched::SearchStringParser::definition< ScannerT >::passenger_pet_type`, `airsched::SearchStringParser::definition< ScannerT >::passenger_type`, `airsched::SearchStringParser::definition< ScannerT >::passengers`, `airsched::SearchStringParser::definition< ScannerT >::place_element`, `airsched::SearchStringParser::definition< ScannerT >::places`, `airsched::SearchStringParser::definition< ScannerT >::preferred_airlines`, `airsched::SearchStringParser::definition< ScannerT >::search_string`, `airsched::uint1_2_p`, `airsched::uint1_p`, `airsched::uint2_p`, `airsched::uint4_p`, and `airsched::SearchStringParser::definition< ScannerT >::year`.

10.47.3 Member Function Documentation

10.47.3.1 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> const& airsched::SearchStringParser::definition< ScannerT >::start \(\) const [inline]`

Definition at line 366 of file `BookingRequestParser.cpp`.

References `airsched::SearchStringParser::definition< ScannerT >::search_string`.

10.47.4 Member Data Documentation

10.47.4.1 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> airsched::SearchStringParser::definition< ScannerT >::search_string`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`, and `airsched::SearchStringParser::definition< ScannerT >::start()`.

10.47.4.2 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> airsched::SearchStringParser::definition< ScannerT >::places`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.3 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> airsched::SearchStringParser::definition< ScannerT >::place_element`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.4 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> airsched::SearchStringParser::definition< ScannerT >::dates`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.5 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT> airsched::SearchStringParser::definition< ScannerT >::date`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.6 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::month`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.7 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::day`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.8 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::year`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.9 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::preferred_airlines`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.10 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::airline_code`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.11 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::airline_name`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.12 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passengers`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.13 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passenger_number`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.14 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passenger_type`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.15 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passenger_adult_type`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.16 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passenger_child_type`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

10.47.4.17 `template<typename ScannerT> boost::spirit::classic::rule<ScannerT>
airsched::SearchStringParser::definition< ScannerT >::passenger_pet_type`

Definition at line 360 of file `BookingRequestParser.cpp`.

Referenced by `airsched::SearchStringParser::definition< ScannerT >::definition()`.

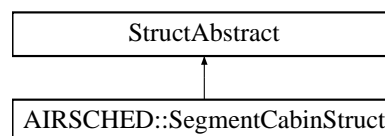
The documentation for this struct was generated from the following file:

- `airsched/batches/BookingRequestParser.cpp`

10.48 AIRSCHED::SegmentCabinStruct Struct Reference

```
#include <airsched/bom/SegmentCabinStruct.hpp>
```

Inheritance diagram for `AIRSCHED::SegmentCabinStruct`:



Public Member Functions

- `void fill (stdair::SegmentCabin &) const`
- `const std::string describe () const`

Public Attributes

- [stdair::CabinCode_T _cabinCode](#)
- [stdair::ClassList_String_T _classes](#)
- [stdair::FamilyCode_T _itFamilyCode](#)
- [stdair::CurveKey_T _itFRAT5CurveKey](#)
- [stdair::CurveKey_T _itFFDisutilityCurveKey](#)
- [FareFamilyStructList_T _fareFamilies](#)

10.48.1 Detailed Description

Utility Structure for the parsing of SegmentCabin details.

Definition at line 24 of file SegmentCabinStruct.hpp.

10.48.2 Member Function Documentation

10.48.2.1 void AIRSCHED::SegmentCabinStruct::fill (stdair::SegmentCabin &) const

Fill the SegmentCabin objects with the attributes of the [SegmentCabinStruct](#).

Definition at line 22 of file SegmentCabinStruct.cpp.

10.48.2.2 const std::string AIRSCHED::SegmentCabinStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 15 of file SegmentCabinStruct.cpp.

References [_cabinCode](#), and [_classes](#).

10.48.3 Member Data Documentation

10.48.3.1 stdair::CabinCode_T AIRSCHED::SegmentCabinStruct::_cabinCode

Definition at line 26 of file SegmentCabinStruct.hpp.

Referenced by [AIRSCHED::FlightPeriodStruct::addFareFamily\(\)](#), [describe\(\)](#), and [AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator\(\)](#).

10.48.3.2 stdair::ClassList_String_T AIRSCHED::SegmentCabinStruct::_classes

Definition at line 27 of file SegmentCabinStruct.hpp.

Referenced by [describe\(\)](#), and [AIRSCHED::ScheduleParserHelper::storeClasses::operator\(\)](#).

10.48.3.3 stdair::FamilyCode_T AIRSCHED::SegmentCabinStruct::_itFamilyCode

Definition at line 28 of file SegmentCabinStruct.hpp.

Referenced by [AIRSCHED::ScheduleParserHelper::storeFClasses::operator\(\)](#), and [AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator\(\)](#).

10.48.3.4 stdair::CurveKey_T AIRSCHED::SegmentCabinStruct::_itFRAT5CurveKey

Definition at line 29 of file SegmentCabinStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), and
AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator().

10.48.3.5 stdair::CurveKey_T AIRSCHED::SegmentCabinStruct::_itFFDisutilityCurveKey

Definition at line 30 of file SegmentCabinStruct.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), and
AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator().

10.48.3.6 FareFamilyStructList_T AIRSCHED::SegmentCabinStruct::_fareFamilies

Definition at line 31 of file SegmentCabinStruct.hpp.

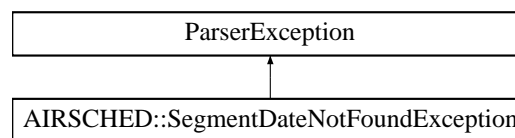
The documentation for this struct was generated from the following files:

- [airsched/bom/SegmentCabinStruct.hpp](#)
- [airsched/bom/SegmentCabinStruct.cpp](#)

10.49 AIRSCHED::SegmentDateNotFoundException Class Reference

```
#include <airsched/AIRSCHED_Types.hpp>
```

Inheritance diagram for AIRSCHED::SegmentDateNotFoundException::

**Public Member Functions**

- [SegmentDateNotFoundException](#) (const std::string &iWhat)

10.49.1 Detailed Description

Specific exception when some BOM objects can not be found within the schedule.

Definition at line 23 of file AIRSCHED_Types.hpp.

10.49.2 Constructor & Destructor Documentation**10.49.2.1 AIRSCHED::SegmentDateNotFoundException::SegmentDateNotFoundException (const std::string &iWhat) [inline]**

Constructor.

Definition at line 28 of file AIRSCHED_Types.hpp.

The documentation for this class was generated from the following file:

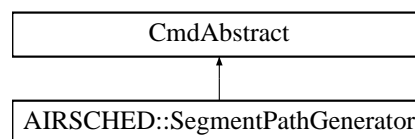
- [airsched/AIRSCHED_Types.hpp](#)

10.50 AIRSCHED::SegmentPathGenerator Class Reference

Class handling the generation / instantiation of the network BOM.

```
#include <airsched/command/SegmentPathGenerator.hpp>
```

Inheritance diagram for AIRSCHED::SegmentPathGenerator::



Static Public Member Functions

- static void [createSegmentPathNetwork](#) (const stdair::BomRoot &)

10.50.1 Detailed Description

Class handling the generation / instantiation of the network BOM.

Definition at line 34 of file SegmentPathGenerator.hpp.

10.50.2 Member Function Documentation

10.50.2.1 void AIRSCHED::SegmentPathGenerator::createSegmentPathNetwork (const stdair::BomRoot &) [static]

Generate the segment path network.

Definition at line 26 of file SegmentPathGenerator.cpp.

Referenced by AIRSCHED::AIRSCHED_Service::buildComplementaryLinks().

The documentation for this class was generated from the following files:

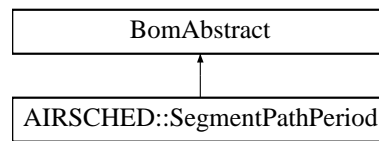
- [airsched/command/SegmentPathGenerator.hpp](#)
- [airsched/command/SegmentPathGenerator.cpp](#)

10.51 AIRSCHED::SegmentPathPeriod Class Reference

Class representing a segment/path.

```
#include <airsched/bom/SegmentPathPeriod.hpp>
```

Inheritance diagram for AIRSCHED::SegmentPathPeriod::



Public Types

- typedef [SegmentPathPeriodKey](#) [Key_T](#)

Public Member Functions

- const [Key_T](#) & [getKey](#) () const
- stdair::BomAbstract *const [getParent](#) () const
- const stdair::PeriodStruct & [getDeparturePeriod](#) () const
- const [DateOffsetList_T](#) & [getBoardingDateOffsetList](#) () const
- const stdair::NbOfSegments_T [getNbOfSegments](#) () const
- const stdair::NbOfAirlines_T & [getNbOfAirlines](#) () const
- const stdair::Duration_T & [getElapsedTime](#) () const
- const stdair::Duration_T & [getBoardingTime](#) () const
- const stdair::HolderMap_T & [getHolderMap](#) () const
- stdair::SegmentPeriod * [getLastSegmentPeriod](#) () const
- stdair::SegmentPeriod * [getFirstSegmentPeriod](#) () const
- const stdair::AirportCode_T & [getDestination](#) () const
- [Key_T](#) [connectWithAnotherSegment](#) (const [SegmentPathPeriod](#) &) const
- bool [checkCircle](#) (const stdair::AirportCode_T &) const
- bool [isAirlineFlown](#) (const stdair::AirlineCode_T &) const
- bool [isDepartureDateValid](#) (const stdair::Date_T &) const
- void [toStream](#) (std::ostream &ioOut) const
- void [fromStream](#) (std::istream &ioIn)
- std::string [toString](#) () const
- const std::string [describeKey](#) () const
- template<class Archive> void [serialize](#) (Archive &ar, const unsigned int iFileVersion)

Protected Member Functions

- [SegmentPathPeriod](#) (const [Key_T](#) &)
- [~SegmentPathPeriod](#) ()

Protected Attributes

- [Key_T _key](#)
- stdair::BomAbstract * [_parent](#)
- stdair::HolderMap_T [_holderMap](#)

Friends

- class stdair::FacBom
- class stdair::FacBomManager
- class boost::serialization::access

10.51.1 Detailed Description

Class representing a segment/path.

It corresponds to an actual travel solution from the origin to the destination, that is, a path that a traveller can take with actual scheduled flights.

Definition at line 39 of file SegmentPathPeriod.hpp.

10.51.2 Member Typedef Documentation

10.51.2.1 typedef [SegmentPathPeriodKey](#) AIRSCHED::SegmentPathPeriod::Key_T

Definition allowing to retrieve the associated BOM key type.

Definition at line 52 of file SegmentPathPeriod.hpp.

10.51.3 Constructor & Destructor Documentation

10.51.3.1 AIRSCHED::SegmentPathPeriod::SegmentPathPeriod (const [Key_T](#) &) [protected]

Main constructor.

Definition at line 43 of file SegmentPathPeriod.cpp.

10.51.3.2 AIRSCHED::SegmentPathPeriod::~~SegmentPathPeriod () [protected]

Destructor.

Definition at line 48 of file SegmentPathPeriod.cpp.

10.51.4 Member Function Documentation

10.51.4.1 const [Key_T](#)& AIRSCHED::SegmentPathPeriod::getKey () const [inline]

Get the primary key (destination airport).

Definition at line 60 of file SegmentPathPeriod.hpp.

References `_key`.

10.51.4.2 stdair::BomAbstract* const AIRSCHED::SegmentPathPeriod::getParent () const [inline]

Get the parent (i.e., [OriginDestinationSet](#)) object.

Definition at line 67 of file SegmentPathPeriod.hpp.

References `_parent`.

10.51.4.3 const stdair::PeriodStruct& AIRSCHED::SegmentPathPeriod::getDeparturePeriod () const [inline]

Get the departure period (part of the primary key).

Definition at line 72 of file SegmentPathPeriod.hpp.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getPeriod()`.

Referenced by `connectWithAnotherSegment()`, and `isDepartureDateValid()`.

10.51.4.4 `const DateOffsetList_T& AIRSCHED::SegmentPathPeriod::getBoardingDateOffsetList () const [inline]`

Get the boarding date offset list (part of the primary key).

Definition at line 77 of file `SegmentPathPeriod.hpp`.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getBoardingDateOffsetList()`.

Referenced by `connectWithAnotherSegment()`.

10.51.4.5 `const stdair::NbOfSegments_T AIRSCHED::SegmentPathPeriod::getNbOfSegments () const [inline]`

Get the number of segments (part of the primary key).

Definition at line 82 of file `SegmentPathPeriod.hpp`.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getNbOfSegments()`.

Referenced by `connectWithAnotherSegment()`.

10.51.4.6 `const stdair::NbOfAirlines_T& AIRSCHED::SegmentPathPeriod::getNbOfAirlines () const [inline]`

Get the number of airlines (part of the primary key).

Definition at line 87 of file `SegmentPathPeriod.hpp`.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getNbOfAirlines()`.

10.51.4.7 `const stdair::Duration_T& AIRSCHED::SegmentPathPeriod::getElapsedTime () const [inline]`

Get the elapsed time (part of the primary key).

Definition at line 92 of file `SegmentPathPeriod.hpp`.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getElapsedTime()`.

Referenced by `connectWithAnotherSegment()`.

10.51.4.8 `const stdair::Duration_T& AIRSCHED::SegmentPathPeriod::getBoardingTime () const [inline]`

Get the boarding time (part of the primary key).

Definition at line 97 of file `SegmentPathPeriod.hpp`.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::getBoardingTime()`.

Referenced by `connectWithAnotherSegment()`.

10.51.4.9 `const stdair::HolderMap_T& AIRSCHED::SegmentPathPeriod::getHolderMap () const [inline]`

Get the map of children holders (SegmentPeriod objects).

Definition at line 104 of file SegmentPathPeriod.hpp.

References `_holderMap`.

10.51.4.10 `stdair::SegmentPeriod * AIRSCHED::SegmentPathPeriod::getLastSegmentPeriod () const`

Get the last `SegmentPeriod` object of the list.

Return a NULL pointer if the list is empty.

Definition at line 91 of file SegmentPathPeriod.cpp.

Referenced by `connectWithAnotherSegment()`, and `getDestination()`.

10.51.4.11 `stdair::SegmentPeriod * AIRSCHED::SegmentPathPeriod::getFirstSegmentPeriod () const`

Get the first `SegmentPeriod` object of the list.

Return a NULL pointer if the list is empty.

Definition at line 109 of file SegmentPathPeriod.cpp.

Referenced by `connectWithAnotherSegment()`.

10.51.4.12 `const stdair::AirportCode_T & AIRSCHED::SegmentPathPeriod::getDestination () const`

Get the destination of the segment path (i.e., the destination of the last segment).

Definition at line 127 of file SegmentPathPeriod.cpp.

References `getLastSegmentPeriod()`.

10.51.4.13 `SegmentPathPeriodKey AIRSCHED::SegmentPathPeriod::connectWithAnotherSegment (const SegmentPathPeriod &) const`

Check whether the (i-1)-length segment path period can be merged with the single segment path period in order to create an i-length segment path period. The function will return a valid or non-valid segment path period key.

The two segment path period above can be fused (and will produce a valid new segment path period key) if:

1. A passenger can connect from the last segment of the first segment path and the first segment of the next segment path. These two segments should not create another segment.
2. There is no circle within the new segment path.
3. The intersection of the two periods is non-empty.

Definition at line 163 of file SegmentPathPeriod.cpp.

References `checkCircle()`, `getBoardingDateOffsetList()`, `getBoardingTime()`, `getDeparturePeriod()`, `getElapsedTime()`, `getFirstSegmentPeriod()`, `getLastSegmentPeriod()`, `getNbOfSegments()`, `AIRSCHED::SegmentPathPeriodKey::setBoardingDateOffsetList()`, `AIRSCHED::SegmentPathPeriodKey::setBoardingTime()`, `AIRSCHED::SegmentPathPeriodKey::setElapsedTime()`, and `AIRSCHED::SegmentPathPeriodKey::setPeriod()`.

10.51.4.14 bool AIRSCHED::SegmentPathPeriod::checkCircle (const stdair::AirportCode_T &) const

Check whether the given destination airport is also the departure point of one of the other segment members. If yes, a circle exists.

Referenced by connectWithAnotherSegment().

10.51.4.15 bool AIRSCHED::SegmentPathPeriod::isAirlineFlown (const stdair::AirlineCode_T &) const

State whether or not the given airline is flown by (at least) one of the segments of the internal list.

Definition at line 135 of file SegmentPathPeriod.cpp.

10.51.4.16 bool AIRSCHED::SegmentPathPeriod::isDepartureDateValid (const stdair::Date_T &) const

Check whether the given departure date is included in the departure period of the segment path.

Definition at line 308 of file SegmentPathPeriod.cpp.

References getDeparturePeriod().

10.51.4.17 void AIRSCHED::SegmentPathPeriod::toStream (std::ostream & ioOut) const [inline]

Dump a Business Object into an output stream.

Parameters:

ostream& the output stream.

Definition at line 176 of file SegmentPathPeriod.hpp.

References toString().

10.51.4.18 void AIRSCHED::SegmentPathPeriod::fromStream (std::istream & ioIn) [inline]

Read a Business Object from an input stream.

Parameters:

istream& the input stream.

Definition at line 185 of file SegmentPathPeriod.hpp.

10.51.4.19 std::string AIRSCHED::SegmentPathPeriod::toString () const

Get the serialised version of the Business Object.

Definition at line 52 of file SegmentPathPeriod.cpp.

References _key, and AIRSCHED::SegmentPathPeriodKey::toString().

Referenced by toStream().

10.51.4.20 `const std::string AIRSCHED::SegmentPathPeriod::describeKey () const` [inline]

Get a string describing the key.

Definition at line 196 of file SegmentPathPeriod.hpp.

References `_key`, and `AIRSCHED::SegmentPathPeriodKey::toString()`.

10.51.4.21 `template<class Archive> void AIRSCHED::SegmentPathPeriod::serialize (Archive & ar, const unsigned int iFileVersion)`

Serialisation.

Definition at line 74 of file SegmentPathPeriod.cpp.

References `_key`.

10.51.5 Friends And Related Function Documentation**10.51.5.1** `friend class stdair::FacBom` [friend]

Friend classes.

Definition at line 43 of file SegmentPathPeriod.hpp.

10.51.5.2 `friend class stdair::FacBomManager` [friend]

Definition at line 44 of file SegmentPathPeriod.hpp.

10.51.5.3 `friend class boost::serialization::access` [friend]

Definition at line 45 of file SegmentPathPeriod.hpp.

10.51.6 Member Data Documentation**10.51.6.1** `Key_T AIRSCHED::SegmentPathPeriod::_key` [protected]

Primary key (segment/path characteristics: scheduled period, number of segments, number of airlines, elapsed time, boarding time).

Definition at line 249 of file SegmentPathPeriod.hpp.

Referenced by `describeKey()`, `getBoardingDateOffsetList()`, `getBoardingTime()`, `getDeparturePeriod()`, `getElapsedTime()`, `getKey()`, `getNbOfAirlines()`, `getNbOfSegments()`, `serialize()`, and `toString()`.

10.51.6.2 `stdair::BomAbstract* AIRSCHED::SegmentPathPeriod::_parent` [protected]

Pointer on the parent ([OriginDestinationSet](#)) object.

Definition at line 254 of file SegmentPathPeriod.hpp.

Referenced by `getParent()`.

10.51.6.3 `stdair::HolderMap_T AIRSCHED::SegmentPathPeriod::_holderMap` [protected]

Map holding the children (SegmentPeriod objects).

Note:

The SegmentPeriod objects themselves have for parent the FlightPeriod class (not the [SegmentPathPeriod](#) class).

Definition at line 262 of file SegmentPathPeriod.hpp.

Referenced by `getHolderMap()`.

The documentation for this class was generated from the following files:

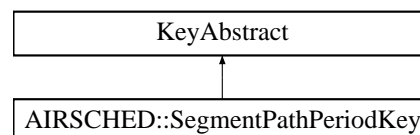
- [airsched/bom/SegmentPathPeriod.hpp](#)
- [airsched/bom/SegmentPathPeriod.cpp](#)

10.52 AIRSCHED::SegmentPathPeriodKey Struct Reference

Structure representing the key of a segment/path.

```
#include <airsched/bom/SegmentPathPeriodKey.hpp>
```

Inheritance diagram for AIRSCHED::SegmentPathPeriodKey::

**Public Member Functions**

- [SegmentPathPeriodKey](#) (const stdair::PeriodStruct &, const stdair::Duration_T &iBoardingTime, const stdair::Duration_T &iElapsed, const [DateOffsetList_T](#) &, const stdair::NbOfAirlines_T &)
- [SegmentPathPeriodKey](#) ()
- [SegmentPathPeriodKey](#) (const [SegmentPathPeriodKey](#) &)
- [~SegmentPathPeriodKey](#) ()
- const stdair::PeriodStruct & [getPeriod](#) () const
- const [DateOffsetList_T](#) & [getBoardingDateOffsetList](#) () const
- const stdair::NbOfSegments_T [getNbOfSegments](#) () const
- const stdair::NbOfAirlines_T & [getNbOfAirlines](#) () const
- const stdair::Duration_T & [getElapsedTime](#) () const
- const stdair::Duration_T & [getBoardingTime](#) () const
- void [setPeriod](#) (const stdair::PeriodStruct &iPeriod)
- void [setBoardingDateOffsetList](#) (const [DateOffsetList_T](#) &iList)
- void [setNbOfAirlines](#) (const stdair::NbOfAirlines_T &iNbOfAirlines)
- void [setElapsedTime](#) (const stdair::Duration_T &iElapsed)
- void [setBoardingTime](#) (const stdair::Duration_T &iBoardingTime)
- const bool [isValid](#) () const
- void [toStream](#) (std::ostream &ioOut) const
- void [fromStream](#) (std::istream &ioIn)
- const std::string [toString](#) () const
- template<class Archive> void [serialize](#) (Archive &ar, const unsigned int iFileVersion)

Friends

- class [boost::serialization::access](#)

10.52.1 Detailed Description

Structure representing the key of a segment/path.

That key specifies a travel solution from a geographical point (origin airport) to another (destination airport).

Definition at line 33 of file SegmentPathPeriodKey.hpp.

10.52.2 Constructor & Destructor Documentation

10.52.2.1 AIRSCHED::SegmentPathPeriodKey::SegmentPathPeriodKey (const stdair::PeriodStruct &, const stdair::Duration_T & *iBoardingTime*, const stdair::Duration_T & *iElapsed*, const [DateOffsetList_T](#) &, const stdair::NbOfAirlines_T &)

Constructor.

Definition at line 40 of file SegmentPathPeriodKey.cpp.

10.52.2.2 AIRSCHED::SegmentPathPeriodKey::SegmentPathPeriodKey ()

Default constructor.

Definition at line 22 of file SegmentPathPeriodKey.cpp.

10.52.2.3 AIRSCHED::SegmentPathPeriodKey::SegmentPathPeriodKey (const [SegmentPathPeriodKey](#) &)

Copy constructor.

Definition at line 30 of file SegmentPathPeriodKey.cpp.

10.52.2.4 AIRSCHED::SegmentPathPeriodKey::~~SegmentPathPeriodKey ()

Destructor.

Definition at line 53 of file SegmentPathPeriodKey.cpp.

10.52.3 Member Function Documentation

10.52.3.1 const stdair::PeriodStruct& AIRSCHED::SegmentPathPeriodKey::getPeriod () const [inline]

Get the active days-of-week.

Definition at line 68 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getDeparturePeriod().

10.52.3.2 const [DateOffsetList_T](#)& AIRSCHED::SegmentPathPeriodKey::getBoardingDateOffsetList () const [inline]

Get the list of boarding date off-sets.

Definition at line 75 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getBoardingDateOffsetList().

10.52.3.3 `const stdair::NbOfSegments_T AIRSCHED::SegmentPathPeriodKey::getNbOfSegments () const [inline]`

Get the number of segments.

Definition at line 82 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getNbOfSegments().

10.52.3.4 `const stdair::NbOfAirlines_T& AIRSCHED::SegmentPathPeriodKey::getNbOfAirlines () const [inline]`

Get the number of airlines.

Definition at line 89 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getNbOfAirlines().

10.52.3.5 `const stdair::Duration_T& AIRSCHED::SegmentPathPeriodKey::getElapsedTime () const [inline]`

Get the elapsed time.

Definition at line 96 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getElapsedTime().

10.52.3.6 `const stdair::Duration_T& AIRSCHED::SegmentPathPeriodKey::getBoardingTime () const [inline]`

Get the boarding time.

Definition at line 103 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::getBoardingTime().

10.52.3.7 `void AIRSCHED::SegmentPathPeriodKey::setPeriod (const stdair::PeriodStruct & i-Period) [inline]`

Set the active days-of-week.

Definition at line 111 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::connectWithAnotherSegment().

10.52.3.8 `void AIRSCHED::SegmentPathPeriodKey::setBoardingDateOffsetList (const Date-OffsetList_T & iList) [inline]`

Definition at line 115 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::connectWithAnotherSegment().

10.52.3.9 void AIRSCHED::SegmentPathPeriodKey::setNbOfAirlines (const stdair::NbOfAirlines_T & iNbOfAirlines) [inline]

Set the number of airlines.

Definition at line 120 of file SegmentPathPeriodKey.hpp.

10.52.3.10 void AIRSCHED::SegmentPathPeriodKey::setElapsedTime (const stdair::Duration_T & iElapsed) [inline]

Set the elapsed time.

Definition at line 125 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::connectWithAnotherSegment().

10.52.3.11 void AIRSCHED::SegmentPathPeriodKey::setBoardingTime (const stdair::Duration_T & iBoardingTime) [inline]

Set the boarding time.

Definition at line 130 of file SegmentPathPeriodKey.hpp.

Referenced by AIRSCHED::SegmentPathPeriod::connectWithAnotherSegment().

10.52.3.12 const bool AIRSCHED::SegmentPathPeriodKey::isValid () const [inline]

Check if the key is valid (i.e. the departure period is valid).

Definition at line 138 of file SegmentPathPeriodKey.hpp.

10.52.3.13 void AIRSCHED::SegmentPathPeriodKey::toStream (std::ostream & ioOut) const

Dump a Business Object Key into an output stream.

Parameters:

ostream& the output stream.

Definition at line 57 of file SegmentPathPeriodKey.cpp.

References toString().

10.52.3.14 void AIRSCHED::SegmentPathPeriodKey::fromStream (std::istream & ioIn)

Read a Business Object Key from an input stream.

Parameters:

istream& the input stream.

Definition at line 62 of file SegmentPathPeriodKey.cpp.

10.52.3.15 const std::string AIRSCHED::SegmentPathPeriodKey::toString () const

Get the serialised version of the Business Object Key.

That string is unique, at the level of a given Business Object, when among children of a given parent Business Object.

For instance, "H" and "K" allow to differentiate among two marketing classes for the same segment-date.

Definition at line 66 of file SegmentPathPeriodKey.cpp.

Referenced by AIRSCHED::SegmentPathPeriod::describeKey(), toStream(), and AIRSCHED::SegmentPathPeriod::toString().

10.52.3.16 `template<class Archive> void AIRSCHED::SegmentPathPeriodKey::serialize (Archive & ar, const unsigned int iFileVersion)`

Serialisation.

Definition at line 98 of file SegmentPathPeriodKey.cpp.

10.52.4 Friends And Related Function Documentation

10.52.4.1 `friend class boost::serialization::access` [friend]

Definition at line 34 of file SegmentPathPeriodKey.hpp.

The documentation for this struct was generated from the following files:

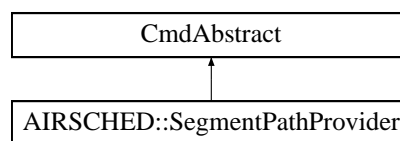
- [airsched/bom/SegmentPathPeriodKey.hpp](#)
- [airsched/bom/SegmentPathPeriodKey.cpp](#)

10.53 AIRSCHED::SegmentPathProvider Class Reference

Class building the travel solutions from airline schedules.

```
#include <airsched/command/SegmentPathProvider.hpp>
```

Inheritance diagram for AIRSCHED::SegmentPathProvider::



Friends

- class [AIRSCHED_Service](#)

10.53.1 Detailed Description

Class building the travel solutions from airline schedules.

Definition at line 27 of file SegmentPathProvider.hpp.

10.53.2 Friends And Related Function Documentation

10.53.2.1 friend class [AIRSCHED_Service](#) [friend]

Definition at line 28 of file [SegmentPathProvider.hpp](#).

The documentation for this class was generated from the following files:

- [airsched/command/SegmentPathProvider.hpp](#)
- [airsched/command/SegmentPathProvider.cpp](#)

10.54 AIRSCHED::SegmentPeriodHelper Class Reference

```
#include <airsched/bom/SegmentPeriodHelper.hpp>
```

Static Public Member Functions

- static void [fill](#) (stdair::SegmentPeriod &, const [SegmentStruct](#) &)
- static void [fill](#) (stdair::SegmentPeriod &, const [LegStructList_T](#) &)

10.54.1 Detailed Description

Class representing the actual business functions for an airline segment-period.

Definition at line 19 of file [SegmentPeriodHelper.hpp](#).

10.54.2 Member Function Documentation

10.54.2.1 void AIRSCHED::SegmentPeriodHelper::fill (stdair::SegmentPeriod &, const [SegmentStruct](#) &) [static]

Fill the attributes of the given segment-period with the cabins and classes.

Definition at line 14 of file [SegmentPeriodHelper.cpp](#).

References [AIRSCHED::SegmentStruct::_cabinList](#).

10.54.2.2 void AIRSCHED::SegmentPeriodHelper::fill (stdair::SegmentPeriod &, const [LegStructList_T](#) &) [static]

Fill the attributes of the given segment-period with the list of used legs.

Definition at line 29 of file [SegmentPeriodHelper.cpp](#).

References [AIRSCHED::LegStruct::_offDateOffset](#), and [AIRSCHED::LegStruct::_offTime](#).

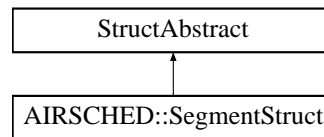
The documentation for this class was generated from the following files:

- [airsched/bom/SegmentPeriodHelper.hpp](#)
- [airsched/bom/SegmentPeriodHelper.cpp](#)

10.55 AIRSCHED::SegmentStruct Struct Reference

```
#include <airsched/bom/SegmentStruct.hpp>
```


Inheritance diagram for AIRSCHED::SegmentStruct::



Public Member Functions

- void [fill](#) (stdair::SegmentDate &) const
- const std::string [describe](#) () const

Public Attributes

- stdair::AirportCode_T [_boardingPoint](#)
- stdair::Date_T [_boardingDate](#)
- stdair::Duration_T [_boardingTime](#)
- stdair::AirportCode_T [_offPoint](#)
- stdair::Date_T [_offDate](#)
- stdair::Duration_T [_offTime](#)
- stdair::Duration_T [_elapsed](#)
- [SegmentCabinStructList_T_cabinList](#)

10.55.1 Detailed Description

Utility Structure for the parsing of Segment structures.

Definition at line 24 of file SegmentStruct.hpp.

10.55.2 Member Function Documentation

10.55.2.1 void AIRSCHED::SegmentStruct::fill (stdair::SegmentDate &) const

Fill the SegmentDate objects with the attributes of the [SegmentStruct](#).

Definition at line 35 of file SegmentStruct.cpp.

10.55.2.2 const std::string AIRSCHED::SegmentStruct::describe () const

Give a description of the structure (for display purposes).

Definition at line 15 of file SegmentStruct.cpp.

References [_boardingPoint](#), [_boardingTime](#), [_cabinList](#), [_elapsed](#), [_offPoint](#), and [_offTime](#).

10.55.3 Member Data Documentation

10.55.3.1 stdair::AirportCode_T AIRSCHED::SegmentStruct::_boardingPoint

Definition at line 26 of file SegmentStruct.hpp.

Referenced by AIRSCHED::FlightPeriodStruct::addFareFamily(), AIRSCHED::FlightPeriodStruct::addSegmentCabin(), describe(), and AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator().

10.55.3.2 stdair::Date_T AIRSCHED::SegmentStruct::_boardingDate

Definition at line 27 of file SegmentStruct.hpp.

10.55.3.3 stdair::Duration_T AIRSCHED::SegmentStruct::_boardingTime

Definition at line 28 of file SegmentStruct.hpp.

Referenced by describe().

10.55.3.4 stdair::AirportCode_T AIRSCHED::SegmentStruct::_offPoint

Definition at line 29 of file SegmentStruct.hpp.

Referenced by AIRSCHED::FlightPeriodStruct::addFareFamily(), AIRSCHED::FlightPeriodStruct::addSegmentCabin(), describe(), and AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator().

10.55.3.5 stdair::Date_T AIRSCHED::SegmentStruct::_offDate

Definition at line 30 of file SegmentStruct.hpp.

10.55.3.6 stdair::Duration_T AIRSCHED::SegmentStruct::_offTime

Definition at line 31 of file SegmentStruct.hpp.

Referenced by describe().

10.55.3.7 stdair::Duration_T AIRSCHED::SegmentStruct::_elapsed

Definition at line 32 of file SegmentStruct.hpp.

Referenced by describe().

10.55.3.8 SegmentCabinStructList_T AIRSCHED::SegmentStruct::_cabinList

Definition at line 33 of file SegmentStruct.hpp.

Referenced by describe(), and AIRSCHED::SegmentPeriodHelper::fill().

The documentation for this struct was generated from the following files:

- [airsched/bom/SegmentStruct.hpp](#)
- [airsched/bom/SegmentStruct.cpp](#)

10.56 AIRSCHED::ServiceAbstract Class Reference

```
#include <airsched/service/ServiceAbstract.hpp>
```

Public Member Functions

- virtual [~ServiceAbstract](#) ()
- virtual void [toStream](#) (std::ostream &ioOut) const
- virtual void [fromStream](#) (std::istream &ioIn)

Protected Member Functions

- [ServiceAbstract](#) ()

10.56.1 Detailed Description

Base class for the Service layer.

Definition at line 14 of file ServiceAbstract.hpp.

10.56.2 Constructor & Destructor Documentation

10.56.2.1 virtual AIRSCHED::ServiceAbstract::~~ServiceAbstract () [inline, virtual]

Destructor.

Definition at line 18 of file ServiceAbstract.hpp.

10.56.2.2 AIRSCHED::ServiceAbstract::ServiceAbstract () [inline, protected]

Protected Default Constructor to ensure this class is abstract.

Definition at line 30 of file ServiceAbstract.hpp.

10.56.3 Member Function Documentation

10.56.3.1 virtual void AIRSCHED::ServiceAbstract::toStream (std::ostream & ioOut) const [inline, virtual]

Dump a Business Object into an output stream.

Parameters:

ostream& the output stream.

Definition at line 22 of file ServiceAbstract.hpp.

10.56.3.2 virtual void AIRSCHED::ServiceAbstract::fromStream (std::istream & ioIn) [inline, virtual]

Read a Business Object from an input stream.

Parameters:

istream& the input stream.

Definition at line 26 of file ServiceAbstract.hpp.

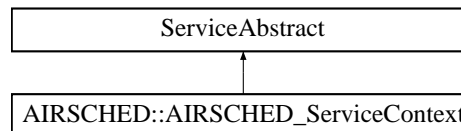
Referenced by operator>>().

The documentation for this class was generated from the following file:

- [airsched/service/ServiceAbstract.hpp](#)

10.57 ServiceAbstract Class Reference

Inheritance diagram for ServiceAbstract::



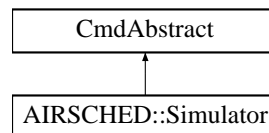
The documentation for this class was generated from the following file:

- [airsched/service/AIRSCHED_ServiceContext.hpp](#)

10.58 AIRSCHED::Simulator Class Reference

```
#include <airsched/command/Simulator.hpp>
```

Inheritance diagram for AIRSCHED::Simulator::



Static Public Member Functions

- static void [simulate](#) (stdair::BomRoot &)

10.58.1 Detailed Description

Class implementing a small simulation, which uses the Airline Schedule.

Definition at line 18 of file Simulator.hpp.

10.58.2 Member Function Documentation

10.58.2.1 void AIRSCHED::Simulator::simulate (stdair::BomRoot &) [static]

Perform a small simulation, which uses the Airline Schedule.

Parameters:

stdair::BomRoot& Root of the BOM tree.

Definition at line 19 of file Simulator.cpp.

Referenced by AIRSCHED::AIRSCHED_Service::simulate().

The documentation for this class was generated from the following files:

- [airsched/command/Simulator.hpp](#)
- [airsched/command/Simulator.cpp](#)

10.59 airsched::store_adult_passenger_type Struct Reference

Public Member Functions

- [store_adult_passenger_type](#) ([SearchString_T](#) &ioSearchString)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [SearchString_T](#) & [_searchString](#)

10.59.1 Detailed Description

Store the parsed passenger type.

Definition at line 145 of file BookingRequestParser.cpp.

10.59.2 Constructor & Destructor Documentation

10.59.2.1 [airsched::store_adult_passenger_type::store_adult_passenger_type](#) ([SearchString_T](#) &[ioSearchString](#)) [[inline](#)]

Constructor.

Definition at line 147 of file BookingRequestParser.cpp.

10.59.3 Member Function Documentation

10.59.3.1 [void airsched::store_adult_passenger_type::operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStr-End) const [[inline](#)]

Parse adult passenger type.

Definition at line 151 of file BookingRequestParser.cpp.

References [airsched::SearchString_T::_passengerList](#), [_searchString](#), [airsched::SearchString_T::_tmp-Passenger](#), [airsched::Passenger_T::_type](#), and [airsched::Passenger_T::ADULT](#).

10.59.4 Member Data Documentation

10.59.4.1 [SearchString_T& airsched::store_adult_passenger_type::_searchString](#)

Definition at line 160 of file BookingRequestParser.cpp.

Referenced by [operator\(\)](#).

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.60 airsched::store_airline_code Struct Reference

Public Member Functions

- [store_airline_code](#) ([SearchString_T](#) &ioSearchString)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [SearchString_T](#) &_searchString

10.60.1 Detailed Description

Store the parsed airline code.

Definition at line 92 of file [BookingRequestParser.cpp](#).

10.60.2 Constructor & Destructor Documentation

10.60.2.1 [airsched::store_airline_code::store_airline_code](#) ([SearchString_T](#) & *ioSearchString*)
[inline]

Constructor.

Definition at line 94 of file [BookingRequestParser.cpp](#).

10.60.3 Member Function Documentation

10.60.3.1 void [airsched::store_airline_code::operator\(\)](#) ([iterator_t](#) *iStr*, [iterator_t](#) *iStrEnd*) const
[inline]

Parse the airline code.

Definition at line 98 of file [BookingRequestParser.cpp](#).

References [airsched::SearchString_T::_airlineList](#), [airsched::Airline_T::_code](#), [_searchString](#), and [airsched::SearchString_T::_tmpAirline](#).

10.60.4 Member Data Documentation

10.60.4.1 [SearchString_T](#)& [airsched::store_airline_code::_searchString](#)

Definition at line 107 of file [BookingRequestParser.cpp](#).

Referenced by [operator\(\)](#)().

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.61 `airsched::store_airline_name` Struct Reference

Public Member Functions

- `store_airline_name` ([SearchString_T](#) &`ioSearchString`)
- `void operator()` (`iterator_t` `iStr`, `iterator_t` `iStrEnd`) `const`

Public Attributes

- [SearchString_T](#) & `_searchString`

10.61.1 Detailed Description

Store the parsed airline name.

Definition at line 111 of file `BookingRequestParser.cpp`.

10.61.2 Constructor & Destructor Documentation

10.61.2.1 `airsched::store_airline_name::store_airline_name` ([SearchString_T](#) & `ioSearchString`)
[`inline`]

Constructor.

Definition at line 113 of file `BookingRequestParser.cpp`.

10.61.3 Member Function Documentation

10.61.3.1 `void airsched::store_airline_name::operator()` (`iterator_t` `iStr`, `iterator_t` `iStrEnd`) `const`
[`inline`]

Parse the airline name.

Definition at line 117 of file `BookingRequestParser.cpp`.

References `airsched::SearchString_T::_airlineList`, `airsched::Airline_T::_name`, `_searchString`, and `airsched::SearchString_T::_tmpAirline`.

10.61.4 Member Data Documentation

10.61.4.1 [SearchString_T](#) & `airsched::store_airline_name::_searchString`

Definition at line 126 of file `BookingRequestParser.cpp`.

Referenced by `operator()`.

The documentation for this struct was generated from the following file:

- `airsched/batches/BookingRequestParser.cpp`

10.62 `airsched::store_airline_sign` Struct Reference

Public Member Functions

- `store_airline_sign` ([SearchString_T](#) &`ioSearchString`)

- void [operator\(\)](#) (bool iAirlineSign) const

Public Attributes

- [SearchString_T](#) & [_searchString](#)

10.62.1 Detailed Description

Store the airline sign (+/-).

Definition at line 77 of file BookingRequestParser.cpp.

10.62.2 Constructor & Destructor Documentation

10.62.2.1 [airsched::store_airline_sign::store_airline_sign](#) ([SearchString_T](#) & *ioSearchString*)
[inline]

Constructor.

Definition at line 79 of file BookingRequestParser.cpp.

10.62.3 Member Function Documentation

10.62.3.1 [void airsched::store_airline_sign::operator\(\)](#) (bool *iAirlineSign*) const [inline]

Parse the airline sign.

Definition at line 83 of file BookingRequestParser.cpp.

References [airsched::Airline_T::_isPreferred](#), [_searchString](#), and [airsched::SearchString_T::_tmpAirline](#).

10.62.4 Member Data Documentation

10.62.4.1 [SearchString_T](#) & [airsched::store_airline_sign::_searchString](#)

Definition at line 88 of file BookingRequestParser.cpp.

Referenced by [operator\(\)](#).

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.63 airsched::store_child_passenger_type Struct Reference

Public Member Functions

- [store_child_passenger_type](#) ([SearchString_T](#) & *ioSearchString*)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [SearchString_T](#) & [_searchString](#)

10.63.1 Detailed Description

Store the parsed passenger type.

Definition at line 164 of file BookingRequestParser.cpp.

10.63.2 Constructor & Destructor Documentation

10.63.2.1 airsched::store_child_passenger_type::store_child_passenger_type ([SearchString_T](#) & [ioSearchString](#)) [inline]

Constructor.

Definition at line 166 of file BookingRequestParser.cpp.

10.63.3 Member Function Documentation

10.63.3.1 void airsched::store_child_passenger_type::operator() ([iterator_t](#) [iStr](#), [iterator_t](#) [iStrEnd](#)) const [inline]

Parse child passenger type.

Definition at line 170 of file BookingRequestParser.cpp.

References [airsched::SearchString_T::_passengerList](#), [_searchString](#), [airsched::SearchString_T::_tmpPassenger](#), [airsched::Passenger_T::_type](#), and [airsched::Passenger_T::CHILD](#).

10.63.4 Member Data Documentation

10.63.4.1 [SearchString_T](#)& [airsched::store_child_passenger_type::_searchString](#)

Definition at line 179 of file BookingRequestParser.cpp.

Referenced by [operator\(\)](#).

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.64 airsched::store_date Struct Reference

Public Member Functions

- [store_date](#) ([SearchString_T](#) &[ioSearchString](#))
- void [operator\(\)](#) ([iterator_t](#) [iStr](#), [iterator_t](#) [iStrEnd](#)) const

Public Attributes

- [SearchString_T](#) & [_searchString](#)

10.64.1 Detailed Description

Store a parsed date.

Definition at line 58 of file BookingRequestParser.cpp.

10.64.2 Constructor & Destructor Documentation

10.64.2.1 `airsched::store_date::store_date` ([SearchString_T](#) & *ioSearchString*) [`inline`]

Constructor.

Definition at line 60 of file `BookingRequestParser.cpp`.

10.64.3 Member Function Documentation

10.64.3.1 `void` `airsched::store_date::operator()` ([iterator_t](#) *iStr*, [iterator_t](#) *iStrEnd*) `const` [`inline`]

Parse the date.

Definition at line 64 of file `BookingRequestParser.cpp`.

References `airsched::Date_T::_date`, `airsched::SearchString_T::_dateList`, `_searchString`, `airsched::SearchString_T::_tmpDate`, and `airsched::Date_T::getDate()`.

10.64.4 Member Data Documentation

10.64.4.1 [SearchString_T](#) & `airsched::store_date::_searchString`

Definition at line 73 of file `BookingRequestParser.cpp`.

Referenced by `operator()`.

The documentation for this struct was generated from the following file:

- `airsched/batches/BookingRequestParser.cpp`

10.65 `airsched::store_passenger_number` Struct Reference

Public Member Functions

- `store_passenger_number` ([SearchString_T](#) & *ioSearchString*)
- `void` `operator()` (unsigned int *iNumber*) `const`

Public Attributes

- [SearchString_T](#) & `_searchString`

10.65.1 Detailed Description

Store the parsed number of passengers.

Definition at line 130 of file `BookingRequestParser.cpp`.

10.65.2 Constructor & Destructor Documentation

10.65.2.1 `airsched::store_passenger_number::store_passenger_number` ([SearchString_T](#) & *ioSearchString*) [`inline`]

Constructor.

Definition at line 132 of file BookingRequestParser.cpp.

10.65.3 Member Function Documentation

10.65.3.1 void airsched::store_passenger_number::operator() (unsigned int *iNumber*) const [inline]

Parse number of passengers.

Definition at line 136 of file BookingRequestParser.cpp.

References `airsched::Passenger_T::_number`, `_searchString`, and `airsched::SearchString_T::_tmp-Passenger`.

10.65.4 Member Data Documentation

10.65.4.1 SearchString_T& airsched::store_passenger_number::_searchString

Definition at line 141 of file BookingRequestParser.cpp.

Referenced by `operator()`.

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.66 airsched::store_pet_passenger_type Struct Reference

Public Member Functions

- [store_pet_passenger_type](#) ([SearchString_T](#) &`ioSearchString`)
- void [operator\(\)](#) ([iterator_t](#) `iStr`, [iterator_t](#) `iStrEnd`) const

Public Attributes

- [SearchString_T](#) & `_searchString`

10.66.1 Detailed Description

Store the parsed passenger type.

Definition at line 183 of file BookingRequestParser.cpp.

10.66.2 Constructor & Destructor Documentation

10.66.2.1 airsched::store_pet_passenger_type::store_pet_passenger_type ([SearchString_T](#) & *io-SearchString*) [inline]

Constructor.

Definition at line 185 of file BookingRequestParser.cpp.

10.66.3 Member Function Documentation

10.66.3.1 void airsched::store_pet_passenger_type::operator() ([iterator_t iStr](#), [iterator_t iStrEnd](#)) const [inline]

Parse pet passenger type.

Definition at line 189 of file BookingRequestParser.cpp.

References [airsched::SearchString_T::_passengerList](#), [_searchString](#), [airsched::SearchString_T::_tmp-Passenger](#), [airsched::Passenger_T::_type](#), and [airsched::Passenger_T::PET](#).

10.66.4 Member Data Documentation

10.66.4.1 [SearchString_T](#)& airsched::store_pet_passenger_type::_searchString

Definition at line 198 of file BookingRequestParser.cpp.

Referenced by operator()().

The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.67 airsched::store_place_element Struct Reference

Public Member Functions

- [store_place_element](#) ([SearchString_T](#) &ioSearchString)
- void [operator\(\)](#) ([iterator_t iStr](#), [iterator_t iStrEnd](#)) const

Public Attributes

- [SearchString_T](#) & [_searchString](#)

10.67.1 Detailed Description

Store the parsed place element.

Definition at line 37 of file BookingRequestParser.cpp.

10.67.2 Constructor & Destructor Documentation

10.67.2.1 airsched::store_place_element::store_place_element ([SearchString_T](#) & *ioSearchString*) [inline]

Constructor.

Definition at line 39 of file BookingRequestParser.cpp.

10.67.3 Member Function Documentation

10.67.3.1 void airsched::store_place_element::operator() ([iterator_t iStr](#), [iterator_t iStrEnd](#)) const [inline]

Parse the place.

Definition at line 43 of file BookingRequestParser.cpp.

References `airsched::Place_T::_name`, `_searchString`, and `airsched::SearchString_T::_tmpPlace`.

10.67.4 Member Data Documentation

10.67.4.1 [SearchString_T](#) & [airsched::store_place_element::_searchString](#)

Definition at line 54 of file BookingRequestParser.cpp.

Referenced by `operator()()`.

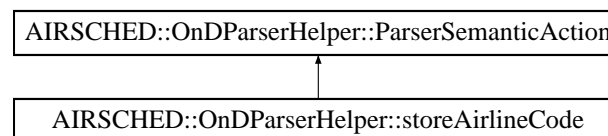
The documentation for this struct was generated from the following file:

- [airsched/batches/BookingRequestParser.cpp](#)

10.68 AIRSCHED::OnDParserHelper::storeAirlineCode Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeAirlineCode::



Public Member Functions

- [storeAirlineCode](#) ([OnDPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.68.1 Detailed Description

Store the parsed airline code.

Definition at line 90 of file OnDParserHelper.hpp.

10.68.2 Constructor & Destructor Documentation

10.68.2.1 [AIRSCHED::OnDParserHelper::storeAirlineCode::storeAirlineCode](#) ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 139 of file OnDParserHelper.cpp.

10.68.3 Member Function Documentation

10.68.3.1 void AIRSCHED::OnDParserHelper::storeAirlineCode::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 144 of file OnDParserHelper.cpp.

References AIRSCHED::OnDPeriodStruct::_airlineCode, AIRSCHED::OnDPeriodStruct::_airlineCodeList, AIRSCHED::OnDPeriodStruct::_nbOfAirlines, and AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod.

10.68.4 Member Data Documentation

10.68.4.1 OnDPeriodStruct& AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), AIRSCHED::OnDParserHelper::storeClassCode::operator(), operator(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

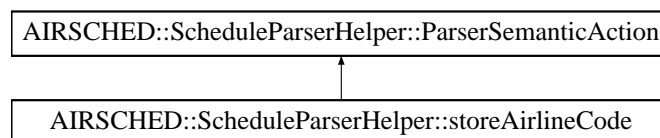
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.69 AIRSCHED::ScheduleParserHelper::storeAirlineCode Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeAirlineCode::



Public Member Functions

- [storeAirlineCode](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.69.1 Detailed Description

Store the parsed airline code.

Definition at line 37 of file ScheduleParserHelper.hpp.

10.69.2 Constructor & Destructor Documentation

10.69.2.1 AIRSCHED::ScheduleParserHelper::storeAirlineCode::storeAirlineCode (FlightPeriodStruct &)

Actor Constructor.

Definition at line 32 of file ScheduleParserHelper.cpp.

10.69.3 Member Function Documentation

10.69.3.1 void AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 37 of file ScheduleParserHelper.cpp.

References AIRSCHED::FlightPeriodStruct::_airlineCode, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, and AIRSCHED::FlightPeriodStruct::_legList.

10.69.4 Member Data Documentation

10.69.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and operator().

The documentation for this struct was generated from the following files:

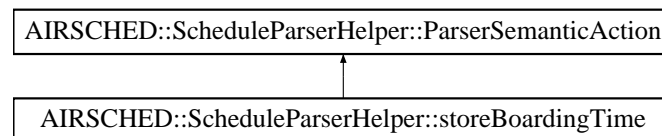
- [airsched/command/ScheduleParserHelper.hpp](#)

- [airsched/command/ScheduleParserHelper.cpp](#)

10.70 AIRSCHED::ScheduleParserHelper::storeBoardingTime Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeBoardingTime::



Public Member Functions

- [storeBoardingTime](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.70.1 Detailed Description

Store the boarding time.

Definition at line 109 of file [ScheduleParserHelper.hpp](#).

10.70.2 Constructor & Destructor Documentation

10.70.2.1 AIRSCHED::ScheduleParserHelper::storeBoardingTime::storeBoardingTime ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 191 of file [ScheduleParserHelper.cpp](#).

10.70.3 Member Function Documentation

10.70.3.1 void AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 196 of file [ScheduleParserHelper.cpp](#).

References [AIRSCHED::LegStruct::_boardingTime](#), [AIRSCHED::FlightPeriodStruct::_dateOffset](#), [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), [AIRSCHED::FlightPeriodStruct::_itLeg](#), [AIRSCHED::FlightPeriodStruct::_itSeconds](#), and [AIRSCHED::FlightPeriodStruct::getTime\(\)](#).

10.70.4 Member Data Documentation

10.70.4.1 FlightPeriodStruct & AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

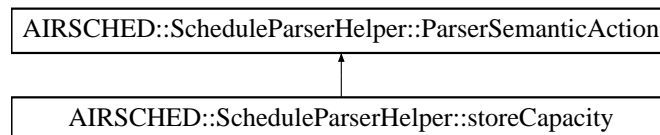
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.71 AIRSCHED::ScheduleParserHelper::storeCapacity Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeCapacity::



Public Member Functions

- [storeCapacity](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) (double iReal) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.71.1 Detailed Description

Store the parsed capacity.

Definition at line 141 of file ScheduleParserHelper.hpp.

10.71.2 Constructor & Destructor Documentation

10.71.2.1 AIRSCHED::ScheduleParserHelper::storeCapacity::storeCapacity ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 263 of file ScheduleParserHelper.cpp.

10.71.3 Member Function Documentation

10.71.3.1 void AIRSCHED::ScheduleParserHelper::storeCapacity::operator() (double *iReal*) const

Actor Function (functor).

Definition at line 268 of file ScheduleParserHelper.cpp.

References AIRSCHED::LegStruct::_cabinList, AIRSCHED::LegCabinStruct::_capacity, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itLeg, and AIRSCHED::FlightPeriodStruct::_itLegCabin.

10.71.4 Member Data Documentation

10.71.4.1 [FlightPeriodStruct](#)& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

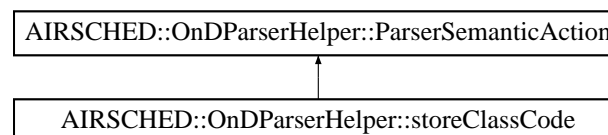
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.72 AIRSCHED::OnDParserHelper::storeClassCode Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeClassCode::



Public Member Functions

- [storeClassCode](#) ([OnDPeriodStruct](#) &)
- void [operator\(\)](#) (char iChar) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.72.1 Detailed Description

Store the parsed class code.

Definition at line 98 of file OnDParserHelper.hpp.

10.72.2 Constructor & Destructor Documentation

10.72.2.1 AIRSCHED::OnDParserHelper::storeClassCode::storeClassCode ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 172 of file OnDParserHelper.cpp.

10.72.3 Member Function Documentation

10.72.3.1 void AIRSCHED::OnDParserHelper::storeClassCode::operator() (char *iChar*) const

Actor Function (functor).

Definition at line 177 of file OnDParserHelper.cpp.

References [AIRSCHED::OnDPeriodStruct::_classCode](#), [AIRSCHED::OnDPeriodStruct::_classCodeList](#), and [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#).

10.72.4 Member Data Documentation

10.72.4.1 OnDPeriodStruct& AIRSCHED::OnDParserHelper::ParserSemanticAction::_on-DPeriod [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), operator(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

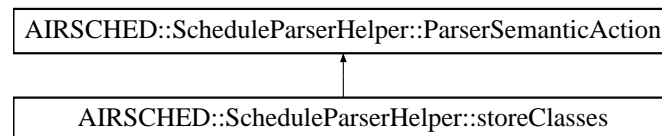
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.73 AIRSCHED::ScheduleParserHelper::storeClasses Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeClasses:



Public Member Functions

- [storeClasses](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.73.1 Detailed Description

Store the parsed list of class codes.

Definition at line 184 of file ScheduleParserHelper.hpp.

10.73.2 Constructor & Destructor Documentation

10.73.2.1 AIRSCHED::ScheduleParserHelper::storeClasses::storeClasses ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 345 of file ScheduleParserHelper.cpp.

10.73.3 Member Function Documentation

10.73.3.1 void AIRSCHED::ScheduleParserHelper::storeClasses::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 350 of file ScheduleParserHelper.cpp.

References AIRSCHED::FlightPeriodStruct::areSegmentDefinitionsSpecific, AIRSCHED::SegmentCabinStruct::_classes, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itSegment, AIRSCHED::FlightPeriodStruct::_itSegmentCabin, and AIRSCHED::FlightPeriodStruct::addSegmentCabin().

10.73.4 Member Data Documentation

10.73.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

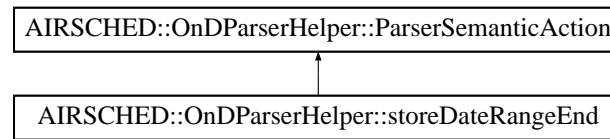
The documentation for this struct was generated from the following files:

- airsched/command/ScheduleParserHelper.hpp
- airsched/command/ScheduleParserHelper.cpp

10.74 AIRSCHED::OnDParserHelper::storeDateRangeEnd Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeDateRangeEnd::



Public Member Functions

- [storeDateRangeEnd](#) ([OnDPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.74.1 Detailed Description

Store the end of the date range.

Definition at line 66 of file OnDParserHelper.hpp.

10.74.2 Constructor & Destructor Documentation

10.74.2.1 AIRSCHED::OnDParserHelper::storeDateRangeEnd::storeDateRangeEnd ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 83 of file OnDParserHelper.cpp.

10.74.3 Member Function Documentation

10.74.3.1 void AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 88 of file OnDParserHelper.cpp.

References [AIRSCHED::OnDPeriodStruct::_datePeriod](#), [AIRSCHED::OnDPeriodStruct::_dateRangeEnd](#), [AIRSCHED::OnDPeriodStruct::_dateRangeStart](#), [AIRSCHED::OnDPeriodStruct::_itSeconds](#), [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#), and [AIRSCHED::OnDPeriodStruct::getDate\(\)](#).

10.74.4 Member Data Documentation

10.74.4.1 [OnDPeriodStruct](#)& [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#) [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), AIRSCHED::OnDParserHelper::storeClassCode::operator(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), operator(), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

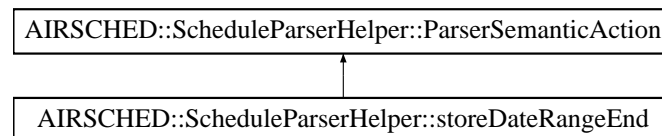
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.75 AIRSCHED::ScheduleParserHelper::storeDateRangeEnd Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::



Public Member Functions

- [storeDateRangeEnd](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.75.1 Detailed Description

Store the end of the date range.

Definition at line 61 of file [ScheduleParserHelper.hpp](#).

10.75.2 Constructor & Destructor Documentation

10.75.2.1 AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::storeDateRangeEnd ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 77 of file [ScheduleParserHelper.cpp](#).

10.75.3 Member Function Documentation

10.75.3.1 void AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 82 of file ScheduleParserHelper.cpp.

References AIRSCHED::FlightPeriodStruct::_airlineCode, AIRSCHED::LegStruct::_airlineCode, AIRSCHED::FlightPeriodStruct::_dateRange, AIRSCHED::FlightPeriodStruct::_dateRangeEnd, AIRSCHED::FlightPeriodStruct::_dateRangeStart, AIRSCHED::FlightPeriodStruct::_flightNumber, AIRSCHED::LegStruct::_flightNumber, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itLeg, AIRSCHED::FlightPeriodStruct::_itSeconds, and AIRSCHED::FlightPeriodStruct::getDate().

10.75.4 Member Data Documentation

10.75.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

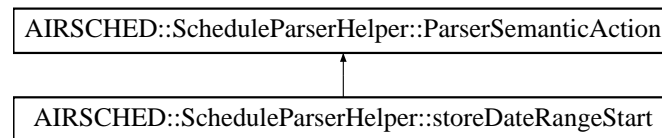
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.76 AIRSCHED::ScheduleParserHelper::storeDateRangeStart Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeDateRangeStart:



Public Member Functions

- [storeDateRangeStart](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.76.1 Detailed Description

Store the start of the date range.

Definition at line 53 of file `ScheduleParserHelper.hpp`.

10.76.2 Constructor & Destructor Documentation

10.76.2.1 AIRSCHED::ScheduleParserHelper::storeDateRangeStart::storeDateRangeStart ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 62 of file `ScheduleParserHelper.cpp`.

10.76.3 Member Function Documentation

10.76.3.1 void AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 67 of file `ScheduleParserHelper.cpp`.

References `AIRSCHED::FlightPeriodStruct::_dateRangeStart`, `AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod`, `AIRSCHED::FlightPeriodStruct::_itSeconds`, and `AIRSCHED::FlightPeriodStruct::getDate()`.

10.76.4 Member Data Documentation

10.76.4.1 [FlightPeriodStruct](#)& [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#) [inherited]

Actor Context.

Definition at line 33 of file `ScheduleParserHelper.hpp`.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

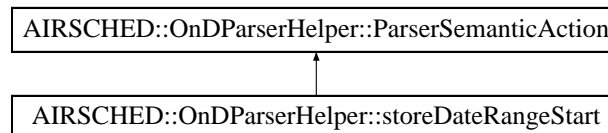
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.77 AIRSCHED::OnDParserHelper::storeDateRangeStart Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeDateRangeStart::



Public Member Functions

- [storeDateRangeStart](#) (OnDPeriodStruct &)
- [void operator\(\)](#) (iterator_t iStr, iterator_t iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.77.1 Detailed Description

Store the start of the date range.

Definition at line 58 of file OnDParserHelper.hpp.

10.77.2 Constructor & Destructor Documentation

10.77.2.1 AIRSCHED::OnDParserHelper::storeDateRangeStart::storeDateRangeStart (OnDPeriodStruct &)

Actor Constructor.

Definition at line 66 of file OnDParserHelper.cpp.

10.77.3 Member Function Documentation

10.77.3.1 void AIRSCHED::OnDParserHelper::storeDateRangeStart::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 71 of file OnDParserHelper.cpp.

References AIRSCHED::OnDPeriodStruct::_dateRangeStart, AIRSCHED::OnDPeriodStruct::_itSeconds, AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod, and AIRSCHED::OnDPeriodStruct::getDate().

10.77.4 Member Data Documentation

10.77.4.1 OnDPeriodStruct& AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), AIRSCHED::OnDParserHelper::storeClassCode::operator(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

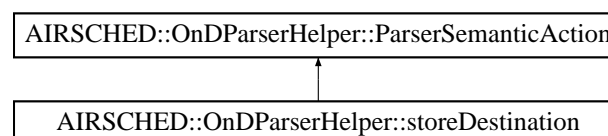
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.78 AIRSCHED::OnDParserHelper::storeDestination Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeDestination::



Public Member Functions

- [storeDestination](#) ([OnDPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.78.1 Detailed Description

Store the parsed destination.

Definition at line 50 of file [OnDParserHelper.hpp](#).

10.78.2 Constructor & Destructor Documentation

10.78.2.1 AIRSCHED::OnDParserHelper::storeDestination::storeDestination ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 50 of file [OnDParserHelper.cpp](#).

10.78.3 Member Function Documentation

10.78.3.1 void AIRSCHED::OnDParserHelper::storeDestination::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 55 of file [OnDParserHelper.cpp](#).

References [AIRSCHED::OnDPeriodStruct::_destination](#), and [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#).

10.78.4 Member Data Documentation

10.78.4.1 [OnDPeriodStruct](#)& [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#) [inherited]

Actor Context.

Definition at line 38 of file [OnDParserHelper.hpp](#).

Referenced by [AIRSCHED::OnDParserHelper::doEndOnD::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeClassCode::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeAirlineCode::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeEndRangeTime::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeStartRangeTime::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator\(\)](#), [AIRSCHED::OnDParserHelper::storeDateRangeStart::operator\(\)](#), [operator\(\)](#), and [AIRSCHED::OnDParserHelper::storeOrigin::operator\(\)](#).

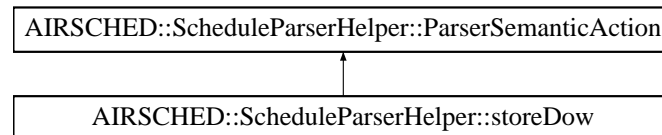
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.79 AIRSCHED::ScheduleParserHelper::storeDow Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeDow::



Public Member Functions

- [storeDow](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.79.1 Detailed Description

Store the DOW (day of the Week).

Definition at line 69 of file ScheduleParserHelper.hpp.

10.79.2 Constructor & Destructor Documentation

10.79.2.1 AIRSCHED::ScheduleParserHelper::storeDow::storeDow ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 104 of file ScheduleParserHelper.cpp.

10.79.3 Member Function Documentation

10.79.3.1 void AIRSCHED::ScheduleParserHelper::storeDow::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 109 of file ScheduleParserHelper.cpp.

References [AIRSCHED::FlightPeriodStruct::_dow](#), and [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#).

10.79.4 Member Data Documentation

10.79.4.1 [FlightPeriodStruct&](#) [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#) [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

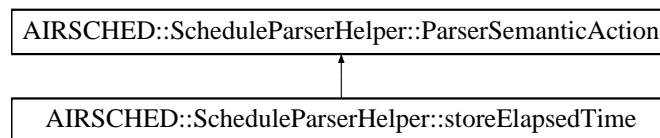
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.80 AIRSCHED::ScheduleParserHelper::storeElapsedTime Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeElapsedTime::



Public Member Functions

- [storeElapsedTime](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.80.1 Detailed Description

Store the elapsed time.

Definition at line 125 of file ScheduleParserHelper.hpp.

10.80.2 Constructor & Destructor Documentation

10.80.2.1 AIRSCHED::ScheduleParserHelper::storeElapsedTime::storeElapsedTime (FlightPeriodStruct &)

Actor Constructor.

Definition at line 230 of file ScheduleParserHelper.cpp.

10.80.3 Member Function Documentation

10.80.3.1 void AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 235 of file ScheduleParserHelper.cpp.

References AIRSCHED::FlightPeriodStruct::_dateOffset, AIRSCHED::LegStruct::_elapsed, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itLeg, AIRSCHED::FlightPeriodStruct::_itSeconds, AIRSCHED::LegStruct::_offDateOffset, and AIRSCHED::FlightPeriodStruct::getTime().

10.80.4 Member Data Documentation

10.80.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

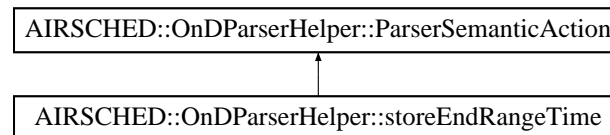
The documentation for this struct was generated from the following files:

- airschd/command/ScheduleParserHelper.hpp
- airschd/command/ScheduleParserHelper.cpp

10.81 AIRSCHED::OnDParserHelper::storeEndRangeTime Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeEndRangeTime::



Public Member Functions

- [storeEndRangeTime](#) ([OnDPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.81.1 Detailed Description

Store the end range time.

Definition at line 82 of file OnDParserHelper.hpp.

10.81.2 Constructor & Destructor Documentation

10.81.2.1 AIRSCHED::OnDParserHelper::storeEndRangeTime::storeEndRangeTime ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 124 of file OnDParserHelper.cpp.

10.81.3 Member Function Documentation

10.81.3.1 void AIRSCHED::OnDParserHelper::storeEndRangeTime::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 129 of file OnDParserHelper.cpp.

References [AIRSCHED::OnDPeriodStruct::_itSeconds](#), [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#), [AIRSCHED::OnDPeriodStruct::_timeRangeEnd](#), and [AIRSCHED::OnDPeriodStruct::getTime\(\)](#).

10.81.4 Member Data Documentation

10.81.4.1 [OnDPeriodStruct](#)& [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#) [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), AIRSCHED::OnDParserHelper::storeClassCode::operator(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and AIRSCHED::OnDParserHelper::storeOrigin::operator().

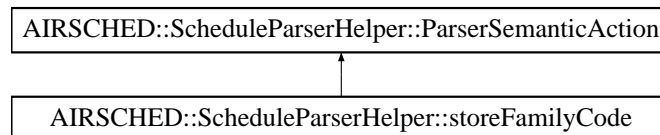
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.82 AIRSCHED::ScheduleParserHelper::storeFamilyCode Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeFamilyCode::



Public Member Functions

- [storeFamilyCode](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) (int iCode) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.82.1 Detailed Description

Store the parsed family code.

Definition at line 192 of file ScheduleParserHelper.hpp.

10.82.2 Constructor & Destructor Documentation

10.82.2.1 AIRSCHED::ScheduleParserHelper::storeFamilyCode::storeFamilyCode ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 370 of file ScheduleParserHelper.cpp.

10.82.3 Member Function Documentation

10.82.3.1 void AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator() (int *iCode*) const

Actor Function (functor).

Definition at line 375 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::SegmentCabinStruct::_itFamilyCode, and AIRSCHED::FlightPeriodStruct::_itSegmentCabin.

10.82.4 Member Data Documentation

10.82.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

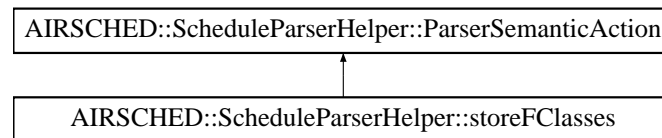
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.83 AIRSCHED::ScheduleParserHelper::storeFClasses Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeFClasses:



Public Member Functions

- [storeFClasses](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.83.1 Detailed Description

Store the parsed list of class codes (for families).

Definition at line 216 of file `ScheduleParserHelper.hpp`.

10.83.2 Constructor & Destructor Documentation

10.83.2.1 AIRSCHED::ScheduleParserHelper::storeFClasses::storeFClasses ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 410 of file `ScheduleParserHelper.cpp`.

10.83.3 Member Function Documentation

10.83.3.1 void AIRSCHED::ScheduleParserHelper::storeFClasses::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 415 of file `ScheduleParserHelper.cpp`.

References `AIRSCHED::FlightPeriodStruct::_areSegmentDefinitionsSpecific`, `AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod`, `AIRSCHED::SegmentCabinStruct::_itFamilyCode`, `AIRSCHED::SegmentCabinStruct::_itFFDisutilityCurveKey`, `AIRSCHED::SegmentCabinStruct::_itFRAT5CurveKey`, `AIRSCHED::FlightPeriodStruct::_itSegment`, `AIRSCHED::FlightPeriodStruct::_itSegmentCabin`, and `AIRSCHED::FlightPeriodStruct::addFareFamily()`.

10.83.4 Member Data Documentation

10.83.4.1 [FlightPeriodStruct](#)& [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#) [inherited]

Actor Context.

Definition at line 33 of file `ScheduleParserHelper.hpp`.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

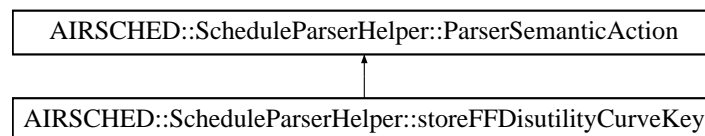
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.84 AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::



Public Member Functions

- [storeFFDisutilityCurveKey](#) ([FlightPeriodStruct](#) &)
- [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.84.1 Detailed Description

Store the FFDisutility curve key.

Definition at line 208 of file [ScheduleParserHelper.hpp](#).

10.84.2 Constructor & Destructor Documentation

10.84.2.1 AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::storeFFDisutilityCurveKey ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 397 of file ScheduleParserHelper.cpp.

10.84.3 Member Function Documentation

10.84.3.1 void AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 402 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::SegmentCabinStruct::_itFFDisutilityCurveKey, and AIRSCHED::FlightPeriodStruct::_itSegmentCabin.

10.84.4 Member Data Documentation

10.84.4.1 [FlightPeriodStruct&](#) AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

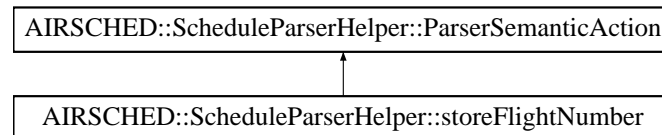
The documentation for this struct was generated from the following files:

- airschd/command/[ScheduleParserHelper.hpp](#)
- airschd/command/[ScheduleParserHelper.cpp](#)

10.85 AIRSCHED::ScheduleParserHelper::storeFlightNumber Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeFlightNumber::



Public Member Functions

- [storeFlightNumber](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) (unsigned int iNumber) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.85.1 Detailed Description

Store the parsed flight number.

Definition at line 45 of file ScheduleParserHelper.hpp.

10.85.2 Constructor & Destructor Documentation

10.85.2.1 AIRSCHED::ScheduleParserHelper::storeFlightNumber::storeFlightNumber ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 50 of file ScheduleParserHelper.cpp.

10.85.3 Member Function Documentation

10.85.3.1 void AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator() (unsigned int *iNumber*) const

Actor Function (functor).

Definition at line 55 of file ScheduleParserHelper.cpp.

References [AIRSCHED::FlightPeriodStruct::_flightNumber](#), and [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#).

10.85.4 Member Data Documentation

10.85.4.1 [FlightPeriodStruct](#)& [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#) [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

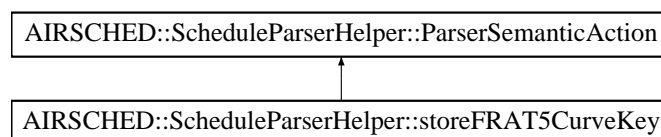
The documentation for this struct was generated from the following files:

- airschd/command/ScheduleParserHelper.hpp
- airschd/command/ScheduleParserHelper.cpp

10.86 AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey Struct Reference

```
#include <airshed/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::



Public Member Functions

- [storeFRAT5CurveKey](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.86.1 Detailed Description

Store the FRAT5 curve key.

Definition at line 200 of file ScheduleParserHelper.hpp.

10.86.2 Constructor & Destructor Documentation

10.86.2.1 AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::storeFRAT5CurveKey (FlightPeriodStruct &)

Actor Constructor.

Definition at line 383 of file ScheduleParserHelper.cpp.

10.86.3 Member Function Documentation

10.86.3.1 void AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 388 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::SegmentCabinStruct::_itFRAT5CurveKey, and AIRSCHED::FlightPeriodStruct::_itSegmentCabin.

10.86.4 Member Data Documentation

10.86.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

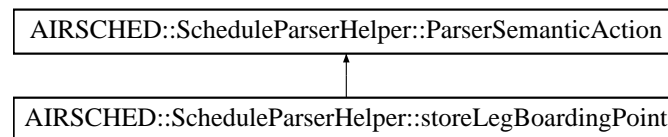
The documentation for this struct was generated from the following files:

- airschd/command/ScheduleParserHelper.hpp
- airschd/command/ScheduleParserHelper.cpp

10.87 AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::



Public Member Functions

- [storeLegBoardingPoint](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.87.1 Detailed Description

Store the parsed leg boarding point.

Definition at line 77 of file ScheduleParserHelper.hpp.

10.87.2 Constructor & Destructor Documentation

10.87.2.1 AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::storeLegBoardingPoint ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 117 of file ScheduleParserHelper.cpp.

10.87.3 Member Function Documentation

10.87.3.1 void AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 122 of file ScheduleParserHelper.cpp.

References [AIRSCHED::LegStruct::_boardingPoint](#), [AIRSCHED::LegStruct::_cabinList](#), [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), [AIRSCHED::FlightPeriodStruct::_itLeg](#), [AIRSCHED::FlightPeriodStruct::_legAlreadyDefined](#), [AIRSCHED::FlightPeriodStruct::_legList](#), and [AIRSCHED::FlightPeriodStruct::addAirport\(\)](#).

10.87.4 Member Data Documentation

10.87.4.1 FlightPeriodStruct & AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

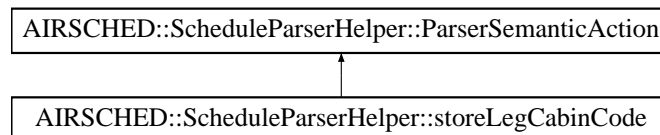
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.88 AIRSCHED::ScheduleParserHelper::storeLegCabinCode Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeLegCabinCode::



Public Member Functions

- [storeLegCabinCode](#) ([FlightPeriodStruct](#) &)
- [operator\(\)](#) (char iChar) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.88.1 Detailed Description

Store the parsed leg cabin code.

Definition at line 133 of file ScheduleParserHelper.hpp.

10.88.2 Constructor & Destructor Documentation

10.88.2.1 AIRSCHED::ScheduleParserHelper::storeLegCabinCode::storeLegCabinCode ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 251 of file ScheduleParserHelper.cpp.

10.88.3 Member Function Documentation

10.88.3.1 void AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator() (char *iChar*) const

Actor Function (functor).

Definition at line 256 of file ScheduleParserHelper.cpp.

References AIRSCHED::LegCabinStruct::_cabinCode, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, and AIRSCHED::FlightPeriodStruct::_itLegCabin.

10.88.4 Member Data Documentation

10.88.4.1 [FlightPeriodStruct&](#) AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [\[inherited\]](#)

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

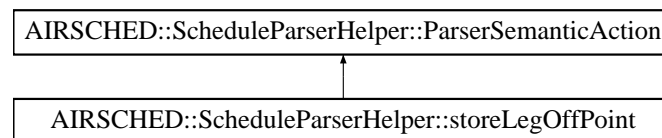
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.89 AIRSCHED::ScheduleParserHelper::storeLegOffPoint Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeLegOffPoint::



Public Member Functions

- [storeLegOffPoint](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.89.1 Detailed Description

Store the parsed leg off point.

Definition at line 85 of file [ScheduleParserHelper.hpp](#).

10.89.2 Constructor & Destructor Documentation

10.89.2.1 AIRSCHED::ScheduleParserHelper::storeLegOffPoint::storeLegOffPoint ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 146 of file [ScheduleParserHelper.cpp](#).

10.89.3 Member Function Documentation

10.89.3.1 void AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 151 of file [ScheduleParserHelper.cpp](#).

References [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), [AIRSCHED::FlightPeriodStruct::_itLeg](#), [AIRSCHED::LegStruct::_offPoint](#), and [AIRSCHED::FlightPeriodStruct::addAirport\(\)](#).

10.89.4 Member Data Documentation

10.89.4.1 FlightPeriodStruct & AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

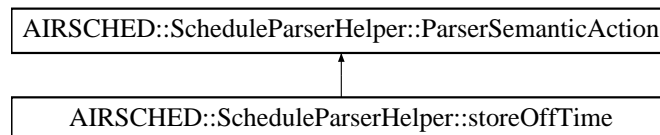
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.90 AIRSCHED::ScheduleParserHelper::storeOffTime Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeOffTime::



Public Member Functions

- [storeOffTime](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.90.1 Detailed Description

Store the off time.

Definition at line 117 of file ScheduleParserHelper.hpp.

10.90.2 Constructor & Destructor Documentation

10.90.2.1 AIRSCHED::ScheduleParserHelper::storeOffTime::storeOffTime ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 209 of file ScheduleParserHelper.cpp.

10.90.3 Member Function Documentation

10.90.3.1 void AIRSCHED::ScheduleParserHelper::storeOffTime::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 214 of file ScheduleParserHelper.cpp.

References AIRSCHED::LegStruct::_boardingDateOffset, AIRSCHED::FlightPeriodStruct::_dateOffset, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itLeg, AIRSCHED::FlightPeriodStruct::_itSeconds, AIRSCHED::LegStruct::_offTime, and AIRSCHED::FlightPeriodStruct::getTime().

10.90.4 Member Data Documentation

10.90.4.1 [FlightPeriodStruct](#) & AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

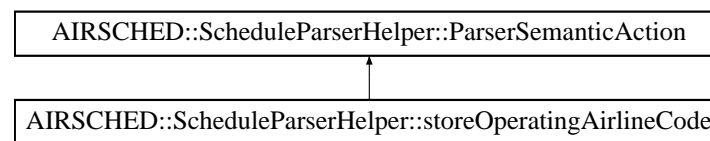
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.91 AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::



Public Member Functions

- [storeOperatingAirlineCode](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.91.1 Detailed Description

Store the parsed operating airline code.

Definition at line 93 of file [ScheduleParserHelper.hpp](#).

10.91.2 Constructor & Destructor Documentation

10.91.2.1 AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::storeOperatingAirlineCode ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 162 of file [ScheduleParserHelper.cpp](#).

10.91.3 Member Function Documentation

10.91.3.1 void AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 167 of file [ScheduleParserHelper.cpp](#).

References [AIRSCHED::LegStruct::_airlineCode](#), [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), and [AIRSCHED::FlightPeriodStruct::_itLeg](#).

10.91.4 Member Data Documentation

10.91.4.1 FlightPeriodStruct & AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

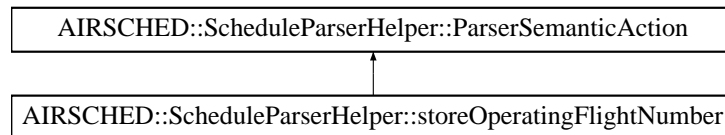
The documentation for this struct was generated from the following files:

- airschd/command/ScheduleParserHelper.hpp
- airschd/command/ScheduleParserHelper.cpp

10.92 AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber Struct Reference

```
#include <airshed/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber:



Public Member Functions

- [storeOperatingFlightNumber](#) ([FlightPeriodStruct](#) &)
- [operator\(\)](#) (unsigned int iNumber) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.92.1 Detailed Description

Store the parsed operating flight number.

Definition at line 101 of file ScheduleParserHelper.hpp.

10.92.2 Constructor & Destructor Documentation

10.92.2.1 AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::storeOperatingFlightNumber (FlightPeriodStruct &)

Actor Constructor.

Definition at line 179 of file ScheduleParserHelper.cpp.

10.92.3 Member Function Documentation

10.92.3.1 void AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator()(unsigned int iNumber) const

Actor Function (functor).

Definition at line 184 of file ScheduleParserHelper.cpp.

References AIRSCHED::LegStruct::_flightNumber, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, and AIRSCHED::FlightPeriodStruct::_itLeg.

10.92.4 Member Data Documentation

10.92.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFCClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

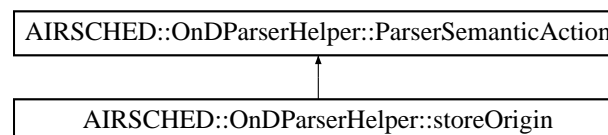
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.93 AIRSCHED::OnDParserHelper::storeOrigin Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeOrigin::



Public Member Functions

- [storeOrigin](#) ([OnDPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.93.1 Detailed Description

Store the parsed origin.

Definition at line 42 of file OnDParserHelper.hpp.

10.93.2 Constructor & Destructor Documentation

10.93.2.1 AIRSCHED::OnDParserHelper::storeOrigin::storeOrigin ([OnDPeriodStruct](#) &)

Actor Constructor.

Definition at line 30 of file OnDParserHelper.cpp.

10.93.3 Member Function Documentation

10.93.3.1 void AIRSCHED::OnDParserHelper::storeOrigin::operator() ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Actor Function (functor).

Definition at line 35 of file OnDParserHelper.cpp.

References [AIRSCHED::OnDPeriodStruct::_airlineCode](#), [AIRSCHED::OnDPeriodStruct::_airlineCodeList](#), [AIRSCHED::OnDPeriodStruct::_classCode](#), [AIRSCHED::OnDPeriodStruct::_classCodeList](#), [AIRSCHED::OnDPeriodStruct::_nbOfAirlines](#), [AIRSCHED::OnDParserHelper::ParserSemanticAction::_onDPeriod](#), and [AIRSCHED::OnDPeriodStruct::_origin](#).

10.93.4 Member Data Documentation

10.93.4.1 OnDPeriodStruct& AIRSCHED::OnDParserHelper::ParserSemanticAction::_on-DPeriod [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHED::OnDParserHelper::doEndOnD::operator(), AIRSCHED::OnDParserHelper::storeClassCode::operator(), AIRSCHED::OnDParserHelper::storeAirlineCode::operator(), AIRSCHED::OnDParserHelper::storeEndRangeTime::operator(), AIRSCHED::OnDParserHelper::storeStartRangeTime::operator(), AIRSCHED::OnDParserHelper::storeDateRangeEnd::operator(), AIRSCHED::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHED::OnDParserHelper::storeDestination::operator(), and operator().

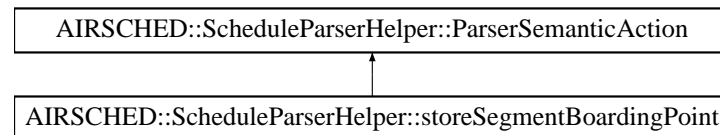
The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.94 AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::



Public Member Functions

- [storeSegmentBoardingPoint](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.94.1 Detailed Description

Store the parsed segment boarding point.

Definition at line 160 of file ScheduleParserHelper.hpp.

10.94.2 Constructor & Destructor Documentation

10.94.2.1 AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::storeSegmentBoardingPoint ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 308 of file ScheduleParserHelper.cpp.

10.94.3 Member Function Documentation

10.94.3.1 void AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 313 of file ScheduleParserHelper.cpp.

References AIRSCHED::SegmentStruct::_boardingPoint, AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, and AIRSCHED::FlightPeriodStruct::_itSegment.

10.94.4 Member Data Documentation

10.94.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_- flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator>(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator>(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator>(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator>(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator>(), AIRSCHED::ScheduleParserHelper::storeClasses::operator>(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator>(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator>(), operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator>(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator>(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator>(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator>(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator>(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator>(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator>(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator>(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator>(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator>(), AIRSCHED::ScheduleParserHelper::storeDow::operator>(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator>(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator>(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

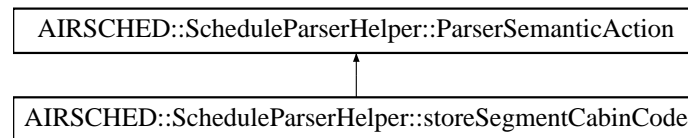
The documentation for this struct was generated from the following files:

- airsched/command/ScheduleParserHelper.hpp
- airsched/command/ScheduleParserHelper.cpp

10.95 AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::



Public Member Functions

- [storeSegmentCabinCode](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) (char iChar) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.95.1 Detailed Description

Store the parsed segment cabin code.

Definition at line 176 of file ScheduleParserHelper.hpp.

10.95.2 Constructor & Destructor Documentation

10.95.2.1 AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::storeSegmentCabinCode ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 334 of file ScheduleParserHelper.cpp.

10.95.3 Member Function Documentation

10.95.3.1 void AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator() (char *iChar*) const

Actor Function (functor).

Definition at line 339 of file ScheduleParserHelper.cpp.

References [AIRSCHED::SegmentCabinStruct::_cabinCode](#), [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), and [AIRSCHED::FlightPeriodStruct::_itSegmentCabin](#).

10.95.4 Member Data Documentation

10.95.4.1 [FlightPeriodStruct](#)& [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#) [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by [AIRSCHED::ScheduleParserHelper::doEndFlight::operator\(\)](#), [AIRSCHED::ScheduleParserHelper::storeFClasses::operator\(\)](#), [AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator\(\)](#), and [AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator\(\)](#).

AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

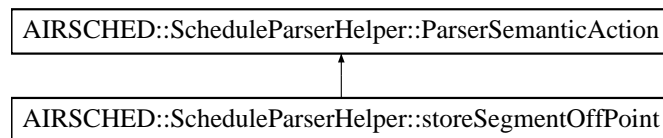
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.96 AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::



Public Member Functions

- [storeSegmentOffPoint](#) ([FlightPeriodStruct](#) &)
- [void operator\(\)](#) ([iterator_t](#) iStr, [iterator_t](#) iStrEnd) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.96.1 Detailed Description

Store the parsed segment off point.

Definition at line 168 of file [ScheduleParserHelper.hpp](#).

10.96.2 Constructor & Destructor Documentation

10.96.2.1 AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::storeSegmentOffPoint (FlightPeriodStruct &)

Actor Constructor.

Definition at line 321 of file ScheduleParserHelper.cpp.

10.96.3 Member Function Documentation

10.96.3.1 void AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 326 of file ScheduleParserHelper.cpp.

References AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod, AIRSCHED::FlightPeriodStruct::_itSegment, and AIRSCHED::SegmentStruct::_offPoint.

10.96.4 Member Data Documentation

10.96.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

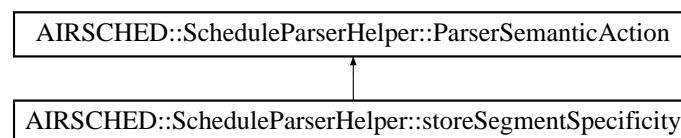
The documentation for this struct was generated from the following files:

- airschd/command/ScheduleParserHelper.hpp
- airschd/command/ScheduleParserHelper.cpp

10.97 AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity Struct Reference

```
#include <airsched/command/ScheduleParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::



Public Member Functions

- [storeSegmentSpecificity](#) ([FlightPeriodStruct](#) &)
- void [operator\(\)](#) (char iChar) const

Public Attributes

- [FlightPeriodStruct](#) & [_flightPeriod](#)

10.97.1 Detailed Description

Store whether or not the segment definitions are specific. Specific means that there is a definition for each segment. General (not specific) means that a single definition defines all the segments.

Definition at line 152 of file ScheduleParserHelper.hpp.

10.97.2 Constructor & Destructor Documentation

10.97.2.1 AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::storeSegmentSpecificity ([FlightPeriodStruct](#) &)

Actor Constructor.

Definition at line 282 of file ScheduleParserHelper.cpp.

10.97.3 Member Function Documentation

10.97.3.1 void AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity::operator() (char *iChar*) const

Actor Function (functor).

Definition at line 287 of file ScheduleParserHelper.cpp.

References [AIRSCHED::FlightPeriodStruct::_airportList](#), [AIRSCHED::FlightPeriodStruct::_airportOrderedList](#), [AIRSCHED::FlightPeriodStruct::_areSegmentDefinitionsSpecific](#), [AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_flightPeriod](#), and [AIRSCHED::FlightPeriodStruct::buildSegments\(\)](#).

10.97.4 Member Data Documentation

10.97.4.1 FlightPeriodStruct& AIRSCHED::ScheduleParserHelper::ParserSemanticAction::_-flightPeriod [inherited]

Actor Context.

Definition at line 33 of file ScheduleParserHelper.hpp.

Referenced by AIRSCHED::ScheduleParserHelper::doEndFlight::operator(), AIRSCHED::ScheduleParserHelper::storeFClasses::operator(), AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey::operator(), AIRSCHED::ScheduleParserHelper::storeFamilyCode::operator(), AIRSCHED::ScheduleParserHelper::storeClasses::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeCapacity::operator(), AIRSCHED::ScheduleParserHelper::storeLegCabinCode::operator(), AIRSCHED::ScheduleParserHelper::storeElapsedTime::operator(), AIRSCHED::ScheduleParserHelper::storeOffTime::operator(), AIRSCHED::ScheduleParserHelper::storeBoardingTime::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber::operator(), AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode::operator(), AIRSCHED::ScheduleParserHelper::storeLegOffPoint::operator(), AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint::operator(), AIRSCHED::ScheduleParserHelper::storeDow::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeEnd::operator(), AIRSCHED::ScheduleParserHelper::storeDateRangeStart::operator(), AIRSCHED::ScheduleParserHelper::storeFlightNumber::operator(), and AIRSCHED::ScheduleParserHelper::storeAirlineCode::operator().

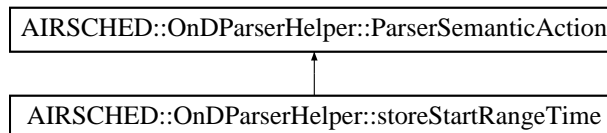
The documentation for this struct was generated from the following files:

- [airsched/command/ScheduleParserHelper.hpp](#)
- [airsched/command/ScheduleParserHelper.cpp](#)

10.98 AIRSCHED::OnDParserHelper::storeStartRangeTime Struct Reference

```
#include <airsched/command/OnDParserHelper.hpp>
```

Inheritance diagram for AIRSCHED::OnDParserHelper::storeStartRangeTime::



Public Member Functions

- [storeStartRangeTime](#) (OnDPeriodStruct &)
- [void operator\(\)](#) (iterator_t iStr, iterator_t iStrEnd) const

Public Attributes

- [OnDPeriodStruct](#) & [_onDPeriod](#)

10.98.1 Detailed Description

Store the start range time.

Definition at line 74 of file OnDParserHelper.hpp.

10.98.2 Constructor & Destructor Documentation

10.98.2.1 AIRSCHEd::OnDParserHelper::storeStartRangeTime::storeStartRangeTime (OnDPeriodStruct &)

Actor Constructor.

Definition at line 109 of file OnDParserHelper.cpp.

10.98.3 Member Function Documentation

10.98.3.1 void AIRSCHEd::OnDParserHelper::storeStartRangeTime::operator() (iterator_t iStr, iterator_t iStrEnd) const

Actor Function (functor).

Definition at line 114 of file OnDParserHelper.cpp.

References AIRSCHEd::OnDPeriodStruct::_itSeconds, AIRSCHEd::OnDParserHelper::ParserSemanticAction::_onDPeriod, AIRSCHEd::OnDPeriodStruct::_timeRangeStart, and AIRSCHEd::OnDPeriodStruct::getTime().

10.98.4 Member Data Documentation

10.98.4.1 OnDPeriodStruct& AIRSCHEd::OnDParserHelper::ParserSemanticAction::_onDPeriod [inherited]

Actor Context.

Definition at line 38 of file OnDParserHelper.hpp.

Referenced by AIRSCHEd::OnDParserHelper::doEndOnD::operator(), AIRSCHEd::OnDParserHelper::storeClassCode::operator(), AIRSCHEd::OnDParserHelper::storeAirlineCode::operator(), AIRSCHEd::OnDParserHelper::storeEndRangeTime::operator(), operator(), AIRSCHEd::OnDParserHelper::storeDateRangeEnd::operator(), AIRSCHEd::OnDParserHelper::storeDateRangeStart::operator(), AIRSCHEd::OnDParserHelper::storeDestination::operator(), and AIRSCHEd::OnDParserHelper::storeOrigin::operator().

The documentation for this struct was generated from the following files:

- [airsched/command/OnDParserHelper.hpp](#)
- [airsched/command/OnDParserHelper.cpp](#)

10.99 StructAbstract Class Reference

Inheritance diagram for StructAbstract::



The documentation for this class was generated from the following files:

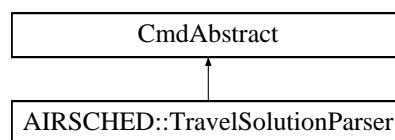
- [airsched/bom/SegmentStruct.hpp](#)
- [airsched/bom/FareFamilyStruct.hpp](#)
- [airsched/bom/LegStruct.hpp](#)
- [airsched/bom/FlightPeriodStruct.hpp](#)
- [airsched/bom/OnDPeriodStruct.hpp](#)
- [airsched/bom/SegmentCabinStruct.hpp](#)
- [airsched/bom/LegCabinStruct.hpp](#)

10.100 AIRSCHED::TravelSolutionParser Class Reference

Class filling the TravelSolutionHolder structure (representing a list of classes/travelSolutions) from a given input file.

```
#include <airsched/command/TravelSolutionParser.hpp>
```

Inheritance diagram for AIRSCHED::TravelSolutionParser::



Static Public Member Functions

- static bool [parseInputFileAndBuildBom](#) (const stdair::Filename_T &)

10.100.1 Detailed Description

Class filling the TravelSolutionHolder structure (representing a list of classes/travelSolutions) from a given input file.

Definition at line 19 of file TravelSolutionParser.hpp.

10.100.2 Member Function Documentation

10.100.2.1 static bool AIRSCHED::TravelSolutionParser::parseInputFileAndBuildBom (const stdair::Filename_T &) [static]

Parse the input values from a CSV-formatted travel solution file.

Parameters:

const std::string& iInputFileName Travel solution file to be parsed.

Returns:

bool Whether or not the parsing was successful.

The documentation for this class was generated from the following file:

- [airsched/command/TravelSolutionParser.hpp](#)

11 AirSched File Documentation

11.1 airsched/AIRSCHEd_Service.hpp File Reference

```
#include <stdair/stdair_basic_types.hpp>
#include <stdair/stdair_service_types.hpp>
#include <stdair/stdair_file.hpp>
#include <stdair/bom/TravelSolutionTypes.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHEd](#)

Classes

- class [AIRSCHEd::AIRSCHEd_Service](#)
Interface for the AirSched Services.

11.2 airsched/AIRSCHEd_Types.hpp File Reference

```
#include <boost/shared_ptr.hpp>
#include <stdair/stdair_exceptions.hpp>
```

Namespaces

- namespace [AIRSCHEd](#)

Classes

- class [AIRSCHEd::SegmentDateNotFoundException](#)
- class [AIRSCHEd::OnDInputFileNotFoundException](#)
- class [AIRSCHEd::ScheduleInputFileNotFoundException](#)

Typedefs

- typedef boost::shared_ptr< AIRSCHEd_Service > [AIRSCHEd::AIRSCHEd_ServicePtr_T](#)

11.3 airsched/basic/BasConst.cpp File Reference

```
#include <airsched/basic/BasConst_General.hpp>
#include <airsched/basic/BasConst_AIRSCHEd_Service.hpp>
```

Namespaces

- namespace [AIRSCHEDED](#)

Functions

- const stdair::Duration_T [AIRSCHEDED::MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE](#) (4, 0, 0)

Variables

- const int [AIRSCHEDED::DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION](#) = 100000

11.4 airsched/basic/BasConst_AIRSCHEDED_Service.hpp File Reference

Namespaces

- namespace [AIRSCHEDED](#)

11.5 airsched/basic/BasConst_General.hpp File Reference

```
#include <stdair/stdair_date_time_types.hpp>
```

Namespaces

- namespace [AIRSCHEDED](#)

Variables

- const int [AIRSCHEDED::DEFAULT_NUMBER_OF_DRAWS_FOR_MC_SIMULATION](#)
- const stdair::Duration_T [AIRSCHEDED::MINIMUM_TIME_BETWEEN_REQUEST_AND_DEPARTURE](#)

11.6 airsched/basic/BasParserTypes.hpp File Reference

```
#include <string>
#include <boost/spirit/home/classic/core.hpp>
#include <boost/spirit/home/classic/attribute.hpp>
#include <boost/spirit/home/classic/utility/functor_parser.hpp>
#include <boost/spirit/home/classic/utility/loops.hpp>
#include <boost/spirit/home/classic/utility/chset.hpp>
#include <boost/spirit/home/classic/utility/confix.hpp>
#include <boost/spirit/home/classic/iterator/file_iterator.hpp>
#include <boost/spirit/home/classic/actor/push_back_actor.hpp>
#include <boost/spirit/home/classic/actor/assign_actor.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Typedefs

- typedef char [AIRSCHED::char_t](#)
- typedef boost::spirit::classic::file_iterator< [char_t](#) > [AIRSCHED::iterator_t](#)
- typedef boost::spirit::classic::scanner< [iterator_t](#) > [AIRSCHED::scanner_t](#)
- typedef boost::spirit::classic::rule< [scanner_t](#) > [AIRSCHED::rule_t](#)
- typedef boost::spirit::classic::int_parser< unsigned int, 10, 1, 1 > [AIRSCHED::int1_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 2, 2 > [AIRSCHED::uint2_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 4, 4 > [AIRSCHED::uint4_p_t](#)
- typedef boost::spirit::classic::uint_parser< unsigned int, 10, 1, 4 > [AIRSCHED::uint1_4_p_t](#)
- typedef boost::spirit::classic::chset< [char_t](#) > [AIRSCHED::chset_t](#)
- typedef boost::spirit::classic::impl::loop_traits< [chset_t](#), unsigned int, unsigned int >::type [AIRSCHED::repeat_p_t](#)
- typedef boost::spirit::classic::bounded< [uint2_p_t](#), unsigned int > [AIRSCHED::bounded2_p_t](#)
- typedef boost::spirit::classic::bounded< [uint4_p_t](#), unsigned int > [AIRSCHED::bounded4_p_t](#)
- typedef boost::spirit::classic::bounded< [uint1_4_p_t](#), unsigned int > [AIRSCHED::bounded1_4_p_t](#)

11.7 airsched/batches/airsched.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <fstream>
#include <string>
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/date_time/gregorian/gregorian.hpp>
#include <boost/program_options.hpp>
#include <boost/tokenizer.hpp>
#include <boost/lexical_cast.hpp>
#include <stdair/STDAIR_Service.hpp>
#include <stdair/bom/BomDisplay.hpp>
#include <stdair/bom/BookingRequestStruct.hpp>
#include <stdair/bom/TravelSolutionStruct.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/AIRSCHED_Service.hpp>
#include <airsched/batches/BookingRequestParser.hpp>
#include <airsched/config/airsched-paths.hpp>
```

Typedefs

- typedef std::vector< std::string > [WordList_T](#)

Functions

- `const std::string K_AIRSCHEDED_DEFAULT_LOG_FILENAME ("airsched.log")`
- `const std::string K_AIRSCHEDED_DEFAULT_INPUT_FILENAME (STDAIR_SAMPLE_DIR"/schedule03.csv")`
- `const std::string K_AIRSCHEDED_DEFAULT_BOOKING_REQUEST ("NCE BKK NCE 2007-04-21 2007-03-21 08:32:00 C 1 DF RO 5 NONE 10:00:00 2000.0 20.0")`
- `std::string createStringFromWordList (const WordList_T &iWordList)`
- `template<class T> std::ostream & operator<< (std::ostream &os, const std::vector< T > &v)`
- `int readConfiguration (int argc, char *argv[], bool &ioIsBuiltin, bool &ioReadBookingRequestFromCmdLine, stdair::Filename_T &ioInputFilename, std::string &ioLogFilename, std::string &ioBookingRequestString)`
- `stdair::BookingRequestStruct parseBookingRequest (const std::string &iRequestOption)`
- `int main (int argc, char *argv[])`

Variables

- `const bool K_AIRSCHEDED_DEFAULT_BUILT_IN_INPUT = false`
- `const bool K_AIRSCHEDED_DEFAULT_BOOKING_REQUEST_MODE = false`
- `const int K_AIRSCHEDED_EARLY_RETURN_STATUS = 99`

11.7.1 Typedef Documentation

11.7.1.1 `typedef std::vector<std::string> WordList_T`

Definition at line 24 of file `airsched.cpp`.

11.7.2 Function Documentation

11.7.2.1 `const std::string K_AIRSCHEDED_DEFAULT_LOG_FILENAME ("airsched.log")`

Default name and location for the log file.

Referenced by `readConfiguration()`.

11.7.2.2 `const std::string K_AIRSCHEDED_DEFAULT_INPUT_FILENAME (STDAIR_SAMPLE_DIR"/schedule03.csv")`

Default name and location for the (CSV) input file.

Referenced by `readConfiguration()`.

11.7.2.3 `const std::string K_AIRSCHEDED_DEFAULT_BOOKING_REQUEST ("NCE BKK NCE 2007-04-21 2007-03-21 08:32:00 C 1 DF RO 5 NONE 10:00:00 2000.0 20.0")`

Default booking request string, to be searched against the AirSched network.

Referenced by `main()`.

11.7.2.4 `std::string createStringFromWordList (const WordList_T &iWordList)`

Definition at line 59 of file `airsched.cpp`.

Referenced by `readConfiguration()`.

11.7.2.5 `template<class T> std::ostream& operator<< (std::ostream & os, const std::vector< T > & v)`

Definition at line 77 of file airsched.cpp.

11.7.2.6 `int readConfiguration (int argc, char * argv[], bool & ioIsBuiltin, bool & ioReadBookingRequestFromCmdLine, stdair::Filename_T & ioInputFilename, std::string & ioLogFilename, std::string & ioBookingRequestString)`

Read and parse the command line options.

Definition at line 87 of file airsched.cpp.

References `createStringFromWordList()`, `K_AIRSCHED_DEFAULT_BOOKING_REQUEST_MODE`, `K_AIRSCHED_DEFAULT_BUILT_IN_INPUT`, `K_AIRSCHED_DEFAULT_INPUT_FILENAME()`, `K_AIRSCHED_DEFAULT_LOG_FILENAME()`, and `K_AIRSCHED_EARLY_RETURN_STATUS`.

Referenced by `main()`.

11.7.2.7 `stdair::BookingRequestStruct parseBookingRequest (const std::string & iRequestOption)`

Definition at line 230 of file airsched.cpp.

Referenced by `main()`.

11.7.2.8 `int main (int argc, char * argv[])`

Definition at line 347 of file airsched.cpp.

References `AIRSCHED::AIRSCHED_Service::buildSampleBom()`, `AIRSCHED::AIRSCHED_Service::buildSegmentPathList()`, `K_AIRSCHED_DEFAULT_BOOKING_REQUEST()`, `K_AIRSCHED_EARLY_RETURN_STATUS`, `AIRSCHED::AIRSCHED_Service::parseAndLoad()`, `parseBookingRequest()`, and `readConfiguration()`.

11.7.3 Variable Documentation**11.7.3.1** `const bool K_AIRSCHED_DEFAULT_BUILT_IN_INPUT = false`

Default for the BOM tree building. The BOM tree can either be built-in or provided by an input file. That latter must then be given with the `-s` option.

Definition at line 44 of file airsched.cpp.

Referenced by `readConfiguration()`.

11.7.3.2 `const bool K_AIRSCHED_DEFAULT_BOOKING_REQUEST_MODE = false`

Default for the input type. It can be either built-in or provided by an input file. That latter must then be given with the `-i` option.

Definition at line 50 of file airsched.cpp.

Referenced by `readConfiguration()`.

11.7.3.3 `const int K_AIRSCHED_EARLY_RETURN_STATUS = 99`

Early return status (so that it can be differentiated from an error).

Definition at line 84 of file airsched.cpp.

Referenced by `main()`, and `readConfiguration()`.

11.8 airsched/batches/BookingRequestParser.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <fstream>
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/date_time/gregorian/gregorian.hpp>
#include <boost/spirit/home/classic/core.hpp>
#include <boost/spirit/home/classic/attribute.hpp>
#include <boost/spirit/home/classic/utility/functor_parser.hpp>
#include <boost/spirit/home/classic/utility/loops.hpp>
#include <boost/spirit/home/classic/utility/chset.hpp>
#include <boost/spirit/home/classic/utility/confix.hpp>
#include <boost/spirit/home/classic/iterator/file_iterator.hpp>
#include <boost/spirit/home/classic/actor/push_back_actor.hpp>
#include <boost/spirit/home/classic/actor/assign_actor.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/batches/BookingRequestParser.hpp>
```

Namespaces

- namespace [airsched](#)
- namespace [boost::spirit::classic](#)

Classes

- struct [airsched::store_place_element](#)
- struct [airsched::store_date](#)
- struct [airsched::store_airline_sign](#)
- struct [airsched::store_airline_code](#)
- struct [airsched::store_airline_name](#)
- struct [airsched::store_passenger_number](#)
- struct [airsched::store_adult_passenger_type](#)
- struct [airsched::store_child_passenger_type](#)
- struct [airsched::store_pet_passenger_type](#)
- struct [airsched::SearchStringParser](#)
- struct [airsched::SearchStringParser::definition< ScannerT >](#)

Defines

- #define [BOOST_SPIRIT_DEBUG](#)

Typedefs

- typedef char [char_t](#)
- typedef char const * [iterator_t](#)
- typedef boost::spirit::classic::scanner< [iterator_t](#) > [scanner_t](#)
- typedef boost::spirit::classic::rule< [scanner_t](#) > [rule_t](#)

Functions

- SearchString_T [airsched::parseBookingRequest](#) (const std::string &iSearchString)

Variables

- boost::spirit::classic::int_parser< unsigned int, 10, 1, 1 > [airsched::int1_p](#)
- boost::spirit::classic::uint_parser< unsigned int, 10, 1, 1 > [airsched::uint1_p](#)
- boost::spirit::classic::uint_parser< unsigned int, 10, 1, 2 > [airsched::uint1_2_p](#)
- boost::spirit::classic::uint_parser< int, 10, 2, 2 > [airsched::uint2_p](#)
- boost::spirit::classic::uint_parser< int, 10, 2, 4 > [airsched::uint2_4_p](#)
- boost::spirit::classic::uint_parser< int, 10, 4, 4 > [airsched::uint4_p](#)
- boost::spirit::classic::uint_parser< int, 10, 1, 4 > [airsched::uint1_4_p](#)

11.8.1 Define Documentation

11.8.1.1 #define BOOST_SPIRIT_DEBUG

Definition at line 12 of file BookingRequestParser.cpp.

11.8.2 Typedef Documentation

11.8.2.1 typedef char [char_t](#)

Definition at line 28 of file BookingRequestParser.cpp.

11.8.2.2 typedef char const* [iterator_t](#)

Definition at line 29 of file BookingRequestParser.cpp.

11.8.2.3 typedef boost::spirit::classic::scanner<[iterator_t](#)> [scanner_t](#)

Definition at line 31 of file BookingRequestParser.cpp.

11.8.2.4 typedef boost::spirit::classic::rule<[scanner_t](#)> [rule_t](#)

Definition at line 32 of file BookingRequestParser.cpp.

11.9 airsched/batches/BookingRequestParser.hpp File Reference

```
#include <string>
#include <vector>
```

Namespaces

- namespace [airsched](#)

Classes

- struct [airsched::Place_T](#)
- struct [airsched::Date_T](#)
- struct [airsched::Airline_T](#)
- struct [airsched::Passenger_T](#)
- struct [airsched::SearchString_T](#)

Typedefs

- typedef std::vector< Place_T > [airsched::PlaceList_T](#)
- typedef std::vector< Date_T > [airsched::DateList_T](#)
- typedef std::vector< Airline_T > [airsched::AirlineList_T](#)
- typedef std::vector< Passenger_T > [airsched::PassengerList_T](#)

Functions

- [SearchString_T airsched::parseBookingRequest](#) (const std::string &iSearchString)

11.10 airsched/bom/AirportList.hpp File Reference

```
#include <set>
#include <vector>
#include <stdair/stdair_basic_types.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Typedefs

- typedef std::set< stdair::AirportCode_T > [AIRSCHED::AirportList_T](#)
- typedef std::vector< stdair::AirportCode_T > [AIRSCHED::AirportOrderedList_T](#)

11.11 airsched/bom/BomDisplay.cpp File Reference

```
#include <cassert>
#include <ostream>
#include <stdair/basic/BasConst_BomDisplay.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BomRoot.hpp>
```

```
#include <airsched/bom/ReachableUniverse.hpp>
#include <airsched/bom/BomDisplay.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::FlagSaver](#)

11.12 airsched/bom/BomDisplay.hpp File Reference

```
#include <iosfwd>
#include <string>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::BomDisplay](#)
Utility class to display AirSched objects with a pretty format.

11.13 airsched/bom/FareFamilyStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <airsched/bom/FareFamilyStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.14 airsched/bom/FareFamilyStruct.hpp File Reference

```
#include <string>
#include <vector>
#include <stdair/stdair_inventory_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::FareFamilyStruct](#)

Typedefs

- typedef std::vector< FareFamilyStruct > [AIRSCHED::FareFamilyStructList_T](#)

11.15 airsched/bom/FlightPeriodStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/basic/BasConst_Period_BOM.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/AIRSCHED_Types.hpp>
#include <airsched/bom/FlightPeriodStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.16 airsched/bom/FlightPeriodStruct.hpp File Reference

```
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
#include <stdair/bom/DoWStruct.hpp>
#include <airsched/bom/LegCabinStruct.hpp>
#include <airsched/bom/LegStruct.hpp>
#include <airsched/bom/SegmentStruct.hpp>
#include <airsched/bom/SegmentCabinStruct.hpp>
#include <airsched/bom/FareFamilyStruct.hpp>
#include <airsched/bom/AirportList.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::FlightPeriodStruct](#)

11.17 airsched/bom/LegCabinStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/bom/LegCabin.hpp>
#include <airsched/bom/LegCabinStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.18 airsched/bom/LegCabinStruct.hpp File Reference

```
#include <string>
#include <vector>
#include <stdair/stdair_inventory_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::LegCabinStruct](#)

Typedefs

- typedef std::vector< LegCabinStruct > [AIRSCHED::LegCabinStructList_T](#)

11.19 airsched/bom/LegStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/basic/BasConst_Period_BOM.hpp>
#include <stdair/bom/LegDate.hpp>
#include <airsched/bom/LegStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.20 airsched/bom/LegStruct.hpp File Reference

```
#include <string>
#include <vector>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
#include <airsched/bom/LegCabinStruct.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::LegStruct](#)

Typedefs

- typedef std::vector< LegStruct > [AIRSCHED::LegStructList_T](#)

11.21 airsched/bom/OnDPeriodStruct.cpp File Reference

```
#include <cassert>
#include <iostream>
#include <stdair/basic/BasConst_Period_BOM.hpp>
#include <stdair/basic/BasConst_General.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/bom/OnDPeriodStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.22 airsched/bom/OnDPeriodStruct.hpp File Reference

```
#include <string>
#include <stdair/stdair_inventory_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::OnDPeriodStruct](#)

11.23 airsched/bom/OriginDestinationSet.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <airsched/bom/OriginDestinationSet.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::OriginDestinationSet::serialize< ba::text_oarchive >](#) (ba::text_oarchive &, unsigned int)
- template void [AIRSCHED::OriginDestinationSet::serialize< ba::text_iarchive >](#) (ba::text_iarchive &, unsigned int)

11.24 airsched/bom/OriginDestinationSet.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/bom/BomAbstract.hpp>
#include <airsched/bom/OriginDestinationSetKey.hpp>
#include <airsched/bom/OriginDestinationSetTypes.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::OriginDestinationSet](#)
Class representing a simple sub-network.

11.25 airsched/bom/OriginDestinationSetKey.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <airsched/bom/OriginDestinationSetKey.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::OriginDestinationSetKey::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [AIRSCHED::OriginDestinationSetKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)

11.26 airsched/bom/OriginDestinationSetKey.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/bom/KeyAbstract.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::OriginDestinationSetKey](#)
Structure representing the key of a sub-network.

11.27 airsched/bom/OriginDestinationSetTypes.hpp File Reference

```
#include <map>
#include <list>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/bom/key_types.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Typedefs

- typedef std::list< OriginDestinationSet * > [AIRSCHED::OriginDestinationSetList_T](#)
- typedef std::map< const stdair::MapKey_T, OriginDestinationSet * > [AIRSCHED::OriginDestinationSetMap_T](#)

11.28 airsched/bom/ReachableUniverse.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <airsched/bom/ReachableUniverse.hpp>
#include <airsched/bom/SegmentPathPeriod.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::ReachableUniverse::serialize< ba::text_oarchive >](#) (ba::text_oarchive &, unsigned int)
- template void [AIRSCHED::ReachableUniverse::serialize< ba::text_iarchive >](#) (ba::text_iarchive &, unsigned int)

11.29 airsched/bom/ReachableUniverse.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/bom/BomAbstract.hpp>
```

```
#include <airsched/bom/ReachableUniverseKey.hpp>
#include <airsched/bom/ReachableUniverseTypes.hpp>
#include <airsched/bom/SegmentPathPeriodTypes.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::ReachableUniverse](#)
Class representing the root of the schedule-related BOM tree.

11.30 airsched/bom/ReachableUniverseKey.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <airsched/bom/ReachableUniverseKey.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::ReachableUniverseKey::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [AIRSCHED::ReachableUniverseKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)

11.31 airsched/bom/ReachableUniverseKey.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/bom/KeyAbstract.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::ReachableUniverseKey](#)
Structure representing the key of the schedule-related BOM tree root.

11.32 airsched/bom/ReachableUniverseTypes.hpp File Reference

```
#include <map>
#include <list>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/bom/key_types.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Typedefs

- typedef std::list< ReachableUniverse * > [AIRSCHED::ReachableUniverseList_T](#)
- typedef std::map< const stdair::MapKey_T, ReachableUniverse * > [AIRSCHED::ReachableUniverseMap_T](#)

11.33 airsched/bom/SegmentCabinStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/bom/SegmentCabin.hpp>
#include <airsched/bom/SegmentCabinStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.34 airsched/bom/SegmentCabinStruct.hpp File Reference

```
#include <string>
#include <vector>
#include <stdair/stdair_inventory_types.hpp>
```

```
#include <stdair/basic/StructAbstract.hpp>
#include <airsched/bom/FareFamilyStruct.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::SegmentCabinStruct](#)

Typedefs

- typedef std::vector< SegmentCabinStruct > [AIRSCHED::SegmentCabinStructList_T](#)

11.35 airsched/bom/SegmentPathPeriod.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_General.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <stdair/basic/BasConst_Period_BOM.hpp>
#include <stdair/basic/BasConst_TravelSolution.hpp>
#include <stdair/bom/Inventory.hpp>
#include <stdair/bom/FlightPeriod.hpp>
#include <stdair/bom/SegmentPeriod.hpp>
#include <stdair/bom/BomManager.hpp>
#include <airsched/bom/SegmentPathPeriod.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::SegmentPathPeriod::serialize< ba::text_oarchive >](#) (ba::text_oarchive &, unsigned int)
- template void [AIRSCHED::SegmentPathPeriod::serialize< ba::text_iarchive >](#) (ba::text_iarchive &, unsigned int)

11.36 airsched/bom/SegmentPathPeriod.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/bom/BomAbstract.hpp>
#include <airsched/bom/SegmentPathPeriodKey.hpp>
#include <airsched/bom/SegmentPathPeriodTypes.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::SegmentPathPeriod](#)
Class representing a segment/path.

11.37 airsched/bom/SegmentPathPeriodKey.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/archive/text_iarchive.hpp>
#include <boost/archive/text_oarchive.hpp>
#include <boost/serialization/access.hpp>
#include <stdair/basic/BasConst_General.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <stdair/basic/BasConst_Period_BOM.hpp>
#include <stdair/basic/BasConst_TravelSolution.hpp>
#include <airsched/bom/SegmentPathPeriodKey.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Functions

- template void [AIRSCHED::SegmentPathPeriodKey::serialize](#)< [ba::text_oarchive](#) > ([ba::text_oarchive](#) &, unsigned int)
- template void [AIRSCHED::SegmentPathPeriodKey::serialize](#)< [ba::text_iarchive](#) > ([ba::text_iarchive](#) &, unsigned int)

11.38 airsched/bom/SegmentPathPeriodKey.hpp File Reference

```
#include <iosfwd>
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/stdair_date_time_types.hpp>
#include <stdair/bom/KeyAbstract.hpp>
#include <stdair/bom/PeriodStruct.hpp>
#include <airsched/bom/SegmentPathPeriodTypes.hpp>
```

Namespaces

- namespace [boost](#)
- namespace [boost::serialization](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::SegmentPathPeriodKey](#)
Structure representing the key of a segment/path.

11.39 airsched/bom/SegmentPathPeriodTypes.hpp File Reference

```
#include <map>
#include <vector>
#include <list>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/stdair_date_time_types.hpp>
#include <stdair/bom/key_types.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Typedefs

- typedef std::list< SegmentPathPeriod * > [AIRSCHED::SegmentPathPeriodList_T](#)
- typedef std::multimap< const stdair::MapKey_T, SegmentPathPeriod * > [AIRSCHED::SegmentPathPeriodMultimap_T](#)
- typedef std::vector< const SegmentPathPeriod * > [AIRSCHED::SegmentPathPeriodLightList_T](#)
- typedef std::vector< [SegmentPathPeriodLightList_T](#) > [AIRSCHED::SegmentPathPeriodListList_T](#)
- typedef std::vector< stdair::DateOffset_T > [AIRSCHED::DateOffsetList_T](#)

11.40 airsched/bom/SegmentPeriodHelper.cpp File Reference

```
#include <cassert>
#include <stdair/basic/BasConst_General.hpp>
#include <stdair/bom/SegmentPeriod.hpp>
#include <airsched/bom/SegmentPeriodHelper.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.41 airsched/bom/SegmentPeriodHelper.hpp File Reference

```
#include <airsched/bom/LegStruct.hpp>
#include <airsched/bom/SegmentStruct.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::SegmentPeriodHelper](#)

11.42 airsched/bom/SegmentStruct.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/bom/SegmentDate.hpp>
#include <airsched/bom/SegmentStruct.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.43 airsched/bom/SegmentStruct.hpp File Reference

```
#include <string>
#include <vector>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/basic/StructAbstract.hpp>
#include <airsched/bom/SegmentCabinStruct.hpp>
```


Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- struct [AIRSCHED::SegmentStruct](#)

Typedefs

- typedef std::vector< SegmentStruct > [AIRSCHED::SegmentStructList_T](#)

11.44 airsched/command/InventoryGenerator.cpp File Reference

```
#include <cassert>
#include <boost/date_time/date_iterator.hpp>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/bom/Inventory.hpp>
#include <stdair/bom/AirlineFeature.hpp>
#include <stdair/bom/FlightPeriod.hpp>
#include <stdair/bom/SegmentPeriod.hpp>
#include <stdair/factory/FacBomManager.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/bom/FlightPeriodStruct.hpp>
#include <airsched/bom/SegmentPeriodHelper.hpp>
#include <airsched/command/InventoryGenerator.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.45 airsched/command/InventoryGenerator.hpp File Reference

```
#include <stdair/command/CmdAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
```

Namespaces

- namespace [stdair](#)

- namespace [AIRSCHED](#)
- namespace [AIRSCHED::ScheduleParserHelper](#)

Classes

- class [AIRSCHED::InventoryGenerator](#)

11.46 airsched/command/OnDParser.cpp File Reference

```
#include <cassert>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/service/Logger.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <airsched/command/OnDParserHelper.hpp>
#include <airsched/command/OnDParser.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.47 airsched/command/OnDParser.hpp File Reference

```
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/stdair_file.hpp>
#include <stdair/command/CmdAbstract.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::OnDParser](#)
Class wrapping the parser entry point.

11.48 airsched/command/OnDParserHelper.cpp File Reference

```
#include <cassert>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/bom/BomRoot.hpp>
```

```
#include <stdair/service/Logger.hpp>
#include <airsched/command/OnDParserHelper.hpp>
#include <airsched/command/OnDPeriodGenerator.hpp>
```

Namespaces

- namespace [AIRSCHED](#)
- namespace [AIRSCHED::OnDParserHelper](#)

Functions

- [chset_t AIRSCHED::OnDParserHelper::alpha_cap_set_p](#) ("A-Z")
- [repeat_p_t AIRSCHED::OnDParserHelper::airport_p](#) ([chset_t](#)("0-9A-Z").derived(), 3, 3)
- [repeat_p_t AIRSCHED::OnDParserHelper::airline_code_p](#) ([alpha_cap_set_p](#).derived(), 2, 3)
- [bounded4_p_t AIRSCHED::OnDParserHelper::year_p](#) ([uint4_p](#).derived(), 2000u, 2099u)
- [bounded2_p_t AIRSCHED::OnDParserHelper::month_p](#) ([uint2_p](#).derived(), 1u, 12u)
- [bounded2_p_t AIRSCHED::OnDParserHelper::day_p](#) ([uint2_p](#).derived(), 1u, 31u)
- [bounded2_p_t AIRSCHED::OnDParserHelper::hours_p](#) ([uint2_p](#).derived(), 0u, 23u)
- [bounded2_p_t AIRSCHED::OnDParserHelper::minutes_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [bounded2_p_t AIRSCHED::OnDParserHelper::seconds_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [chset_t AIRSCHED::OnDParserHelper::class_code_p](#) ("A-Z")

Variables

- [uint2_p_t AIRSCHED::OnDParserHelper::uint2_p](#)
- [uint4_p_t AIRSCHED::OnDParserHelper::uint4_p](#)
- [uint1_4_p_t AIRSCHED::OnDParserHelper::uint1_4_p](#)

11.49 airsched/command/OnDParserHelper.hpp File Reference

```
#include <string>
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/date_time/gregorian/gregorian.hpp>
#include <stdair/command/CmdAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
#include <airsched/basic/BasParserTypes.hpp>
#include <airsched/bom/OnDPeriodStruct.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)
- namespace [AIRSCHED::OnDParserHelper](#)

Classes

- struct [AIRSCHED::OnDParserHelper::ParserSemanticAction](#)
- struct [AIRSCHED::OnDParserHelper::storeOrigin](#)
- struct [AIRSCHED::OnDParserHelper::storeDestination](#)
- struct [AIRSCHED::OnDParserHelper::storeDateRangeStart](#)
- struct [AIRSCHED::OnDParserHelper::storeDateRangeEnd](#)
- struct [AIRSCHED::OnDParserHelper::storeStartRangeTime](#)
- struct [AIRSCHED::OnDParserHelper::storeEndRangeTime](#)
- struct [AIRSCHED::OnDParserHelper::storeAirlineCode](#)
- struct [AIRSCHED::OnDParserHelper::storeClassCode](#)
- struct [AIRSCHED::OnDParserHelper::doEndOnD](#)
- struct [AIRSCHED::OnDParserHelper::OnDParser](#)
- struct [AIRSCHED::OnDParserHelper::OnDParser::definition< ScannerT >](#)
- class [AIRSCHED::OnDPeriodFileParser](#)

11.50 airsched/command/OnDPeriodGenerator.cpp File Reference

```
#include <cassert>
#include <stdair/stdair_date_time_types.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/factory/FacBomManager.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/bom/OnDPeriodStruct.hpp>
#include <airsched/command/OnDPeriodGenerator.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.51 airsched/command/OnDPeriodGenerator.hpp File Reference

```
#include <stdair/command/CmdAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)
- namespace [AIRSCHED::OnDParserHelper](#)

Classes

- class [AIRSCHED::OnDPeriodGenerator](#)
Class handling the generation / instantiation of the O&D-Period BOM.

11.52 airsched/command/ScheduleParser.cpp File Reference

```
#include <cassert>
#include <string>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/command/SegmentPathGenerator.hpp>
#include <airsched/command/ScheduleParserHelper.hpp>
#include <airsched/command/ScheduleParser.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.53 airsched/command/ScheduleParser.hpp File Reference

```
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/command/CmdAbstract.hpp>
#include <stdair/stdair_file.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::ScheduleParser](#)

11.54 airsched/command/ScheduleParserHelper.cpp File Reference

```
#include <cassert>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/command/ScheduleParserHelper.hpp>
#include <airsched/command/InventoryGenerator.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

- namespace [AIRSCHED::ScheduleParserHelper](#)

Functions

- [repeat_p_t AIRSCHED::ScheduleParserHelper::airline_code_p](#) ([chset_t](#)("0-9A-Z").derived(), 2, 3)
- [bounded1_4_p_t AIRSCHED::ScheduleParserHelper::flight_number_p](#) ([uint1_4_p](#).derived(), 0u, 9999u)
- [bounded4_p_t AIRSCHED::ScheduleParserHelper::year_p](#) ([uint4_p](#).derived(), 2000u, 2099u)
- [bounded2_p_t AIRSCHED::ScheduleParserHelper::month_p](#) ([uint2_p](#).derived(), 1u, 12u)
- [bounded2_p_t AIRSCHED::ScheduleParserHelper::day_p](#) ([uint2_p](#).derived(), 1u, 31u)
- [repeat_p_t AIRSCHED::ScheduleParserHelper::dow_p](#) ([chset_t](#)("0-1").derived().derived(), 7, 7)
- [repeat_p_t AIRSCHED::ScheduleParserHelper::airport_p](#) ([chset_t](#)("0-9A-Z").derived(), 3, 3)
- [bounded2_p_t AIRSCHED::ScheduleParserHelper::hours_p](#) ([uint2_p](#).derived(), 0u, 23u)
- [bounded2_p_t AIRSCHED::ScheduleParserHelper::minutes_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [bounded2_p_t AIRSCHED::ScheduleParserHelper::seconds_p](#) ([uint2_p](#).derived(), 0u, 59u)
- [chset_t AIRSCHED::ScheduleParserHelper::cabin_code_p](#) ("A-Z")
- [repeat_p_t AIRSCHED::ScheduleParserHelper::key_p](#) ([chset_t](#)("0-9A-Z").derived(), 1, 10)
- [repeat_p_t AIRSCHED::ScheduleParserHelper::class_code_list_p](#) ([chset_t](#)("A-Z").derived(), 1, 26)

Variables

- [int1_p_t AIRSCHED::ScheduleParserHelper::int1_p](#)
- [uint2_p_t AIRSCHED::ScheduleParserHelper::uint2_p](#)
- [uint4_p_t AIRSCHED::ScheduleParserHelper::uint4_p](#)
- [uint1_4_p_t AIRSCHED::ScheduleParserHelper::uint1_4_p](#)
- [int1_p_t AIRSCHED::ScheduleParserHelper::family_code_p](#)

11.55 airsched/command/ScheduleParserHelper.hpp File Reference

```
#include <string>
#include <stdair/command/CmdAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
#include <airsched/basic/BasParserTypes.hpp>
#include <airsched/bom/FlightPeriodStruct.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)
- namespace [AIRSCHED::ScheduleParserHelper](#)

Classes

- struct [AIRSCHED::ScheduleParserHelper::ParserSemanticAction](#)
- struct [AIRSCHED::ScheduleParserHelper::storeAirlineCode](#)
- struct [AIRSCHED::ScheduleParserHelper::storeFlightNumber](#)
- struct [AIRSCHED::ScheduleParserHelper::storeDateRangeStart](#)

- struct AIRSCHED::ScheduleParserHelper::storeDateRangeEnd
- struct AIRSCHED::ScheduleParserHelper::storeDow
- struct AIRSCHED::ScheduleParserHelper::storeLegBoardingPoint
- struct AIRSCHED::ScheduleParserHelper::storeLegOffPoint
- struct AIRSCHED::ScheduleParserHelper::storeOperatingAirlineCode
- struct AIRSCHED::ScheduleParserHelper::storeOperatingFlightNumber
- struct AIRSCHED::ScheduleParserHelper::storeBoardingTime
- struct AIRSCHED::ScheduleParserHelper::storeOffTime
- struct AIRSCHED::ScheduleParserHelper::storeElapsedTime
- struct AIRSCHED::ScheduleParserHelper::storeLegCabinCode
- struct AIRSCHED::ScheduleParserHelper::storeCapacity
- struct AIRSCHED::ScheduleParserHelper::storeSegmentSpecificity
- struct AIRSCHED::ScheduleParserHelper::storeSegmentBoardingPoint
- struct AIRSCHED::ScheduleParserHelper::storeSegmentOffPoint
- struct AIRSCHED::ScheduleParserHelper::storeSegmentCabinCode
- struct AIRSCHED::ScheduleParserHelper::storeClasses
- struct AIRSCHED::ScheduleParserHelper::storeFamilyCode
- struct AIRSCHED::ScheduleParserHelper::storeFRAT5CurveKey
- struct AIRSCHED::ScheduleParserHelper::storeFFDisutilityCurveKey
- struct AIRSCHED::ScheduleParserHelper::storeFClasses
- struct AIRSCHED::ScheduleParserHelper::doEndFlight
- struct AIRSCHED::ScheduleParserHelper::FlightPeriodParser
- struct AIRSCHED::ScheduleParserHelper::FlightPeriodParser::definition< ScannerT >
- class AIRSCHED::FlightPeriodFileParser

11.56 airsched/command/SegmentPathGenerator.cpp File Reference

```
#include <cassert>
#include <vector>
#include <stdair/basic/BasConst_Inventory.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/bom/Inventory.hpp>
#include <stdair/bom/FlightPeriod.hpp>
#include <stdair/bom/SegmentPeriod.hpp>
#include <stdair/factory/FacBomManager.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/bom/ReachableUniverse.hpp>
#include <airsched/bom/OriginDestinationSet.hpp>
#include <airsched/bom/SegmentPathPeriod.hpp>
#include <airsched/command/SegmentPathGenerator.hpp>
```

Namespaces

- namespace AIRSCHED

11.57 airsched/command/SegmentPathGenerator.hpp File Reference

```
#include <vector>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/command/CmdAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::SegmentPathGenerator](#)
Class handling the generation / instantiation of the network BOM.

11.58 airsched/command/SegmentPathProvider.cpp File Reference

```
#include <cassert>
#include <string>
#include <sstream>
#include <stdair/basic/BasConst_BomDisplay.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/bom/Inventory.hpp>
#include <stdair/bom/FlightPeriod.hpp>
#include <stdair/bom/SegmentPeriod.hpp>
#include <stdair/bom/BookingRequestStruct.hpp>
#include <stdair/bom/TravelSolutionStruct.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/basic/BasConst_General.hpp>
#include <airsched/bom/ReachableUniverse.hpp>
#include <airsched/bom/OriginDestinationSet.hpp>
#include <airsched/bom/SegmentPathPeriod.hpp>
#include <airsched/command/SegmentPathProvider.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.59 airsched/command/SegmentPathProvider.hpp File Reference

```
#include <stdair/bom/TravelSolutionTypes.hpp>
#include <stdair/command/CmdAbstract.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::SegmentPathProvider](#)
Class building the travel solutions from airline schedules.

11.60 airsched/command/Simulator.cpp File Reference

```
#include <cassert>
#include <string>
#include <sstream>
#include <stdair/basic/BasConst_General.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BookingRequestStruct.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/command/Simulator.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.61 airsched/command/Simulator.hpp File Reference

```
#include <stdair/command/CmdAbstract.hpp>
```

Namespaces

- namespace [stdair](#)
- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::Simulator](#)

11.62 airsched/command/TravelSolutionParser.cpp File Reference

```
#include <sstream>
#include <fstream>
#include <cassert>
#include <stdair/stdair_exceptions.hpp>
#include <stdair/basic/BasConst_TravelSolution.hpp>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/bom/BomRoot.hpp>
#include <stdair/service/Logger.hpp>
#include <airsched/command/TravelSolutionParser.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.63 airsched/command/TravelSolutionParser.hpp File Reference

```
#include <string>
#include <stdair/stdair_basic_types.hpp>
#include <stdair/command/CmdAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::TravelSolutionParser](#)

Class filling the TravelSolutionHolder structure (representing a list of classes/travelSolutions) from a given input file.

11.64 airsched/config/airsched-paths.hpp.in File Reference

11.65 airsched/factory/FacAIRSCHEDServiceContext.cpp File Reference

```
#include <cassert>
#include <stdair/service/FacSupervisor.hpp>
#include <airsched/factory/FacAIRSCHEDServiceContext.hpp>
#include <airsched/service/AIRSCHED_ServiceContext.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.66 airsched/factory/FacAIRSCHEDServiceContext.hpp File Reference

```
#include <stdair/stdair_basic_types.hpp>
#include <stdair/service/FacServiceAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::FacAIRSCHEDServiceContext](#)
Factory for the service context.

11.67 airsched/factory/FacServiceAbstract.cpp File Reference

```
#include <assert.h>
#include <airsched/service/ServiceAbstract.hpp>
#include <airsched/factory/FacServiceAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.68 airsched/factory/FacServiceAbstract.hpp File Reference

```
#include <vector>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::FacServiceAbstract](#)

11.69 airsched/service/AIRSCHEDED_Service.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <boost/make_shared.hpp>
#include <stdair/basic/BasChronometer.hpp>
#include <stdair/bom/BomManager.hpp>
#include <stdair/bom/BookingRequestStruct.hpp>
#include <stdair/bom/TravelSolutionStruct.hpp>
#include <stdair/service/Logger.hpp>
#include <stdair/STDAIR_Service.hpp>
#include <airsched/basic/BasConst_AIRSCHEDED_Service.hpp>
#include <airsched/factory/FacAIRSCHEDEDServiceContext.hpp>
#include <airsched/command/Simulator.hpp>
#include <airsched/command/ScheduleParser.hpp>
#include <airsched/command/OnDParser.hpp>
#include <airsched/command/SegmentPathProvider.hpp>
#include <airsched/command/InventoryGenerator.hpp>
#include <airsched/command/SegmentPathGenerator.hpp>
#include <airsched/service/AIRSCHEDED_ServiceContext.hpp>
#include <airsched/AIRSCHEDED_Service.hpp>
```

Namespaces

- namespace [AIRSCHEDED](#)

11.70 airsched/service/AIRSCHEDED_ServiceContext.cpp File Reference

```
#include <cassert>
#include <sstream>
#include <stdair/STDAIR_Service.hpp>
#include <airsched/basic/BasConst_AIRSCHEDED_Service.hpp>
#include <airsched/service/AIRSCHEDED_ServiceContext.hpp>
```

Namespaces

- namespace [AIRSCHEDED](#)

11.71 airsched/service/AIRSCHEDED_ServiceContext.hpp File Reference

```
#include <string>
```

```
#include <boost/shared_ptr.hpp>
#include <stdair/stdair_service_types.hpp>
#include <stdair/service/ServiceAbstract.hpp>
#include <airsched/AIRSCHED_Types.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::AIRSCHED_ServiceContext](#)
Class holding the context of the AirSched services.

11.72 airsched/service/ServiceAbstract.cpp File Reference

```
#include <airsched/service/ServiceAbstract.hpp>
```

Namespaces

- namespace [AIRSCHED](#)

11.73 airsched/service/ServiceAbstract.hpp File Reference

```
#include <iostream>
#include <sstream>
```

Namespaces

- namespace [AIRSCHED](#)

Classes

- class [AIRSCHED::ServiceAbstract](#)

Functions

- template<class charT, class traits> std::basic_ostream< charT, traits > & [operator<<](#) (std::basic_ostream< charT, traits > &ioOut, const [AIRSCHED::ServiceAbstract](#) &iService)
- template<class charT, class traits> std::basic_istream< charT, traits > & [operator>>](#) (std::basic_istream< charT, traits > &ioIn, [AIRSCHED::ServiceAbstract](#) &ioService)

11.73.1 Function Documentation

11.73.1.1 `template<class charT, class traits> std::basic_ostream<charT, traits>& operator<< (std::basic_ostream< charT, traits > & ioOut, const AIRSCHED::ServiceAbstract & iService) [inline]`

Piece of code given by Nicolai M. Josuttis, Section 13.12.1 "Implementing Output Operators" (p653) of his book "The C++ Standard Library: A Tutorial and Reference", published by Addison-Wesley.

Definition at line 42 of file ServiceAbstract.hpp.

11.73.1.2 `template<class charT, class traits> std::basic_istream<charT, traits>& operator>> (std::basic_istream< charT, traits > & ioIn, AIRSCHED::ServiceAbstract & ioService) [inline]`

Piece of code given by Nicolai M. Josuttis, Section 13.12.1 "Implementing Output Operators" (pp655-657) of his book "The C++ Standard Library: A Tutorial and Reference", published by Addison-Wesley.

Definition at line 70 of file ServiceAbstract.hpp.

References AIRSCHED::ServiceAbstract::fromStream().

11.74 doc/local/authors.doc File Reference

11.75 doc/local/codingrules.doc File Reference

11.76 doc/local/copyright.doc File Reference

11.77 doc/local/documentation.doc File Reference

11.78 doc/local/features.doc File Reference

11.79 doc/local/help_wanted.doc File Reference

11.80 doc/local/howto_release.doc File Reference

11.81 doc/local/index.doc File Reference

11.82 doc/local/installation.doc File Reference

11.83 doc/local/linking.doc File Reference

11.84 doc/local/test.doc File Reference

11.85 doc/local/users_guide.doc File Reference

11.86 doc/local/verification.doc File Reference

11.87 doc/tutorial/tutorial.doc File Reference

11.88 test/airsched/AirlineScheduleTestSuite.cpp File Reference

11.89 test/airsched/AirlineScheduleTestSuite.hpp File Reference

```
#include <sstream>
```

```
#include <cppunit/extensions/HelperMacros.h>
```

Classes

- class [AirlineScheduleTestSuite](#)

Functions

- [CPPUNIT_TEST_SUITE_REGISTRATION](#) ([AirlineScheduleTestSuite](#))

11.89.1 Function Documentation

11.89.1.1 CPPUNIT_TEST_SUITE_REGISTRATION ([AirlineScheduleTestSuite](#))

12 AirSched Page Documentation

12.1 Configuration helper for AirSched programs

```
*/
#ifndef __AIRSCHED_PATHS_HPP__
#define __AIRSCHED_PATHS_HPP__

#define PACKAGE "@PACKAGE@"
#define PACKAGE_NAME "@PACKAGE_NAME@"
#define PACKAGE_VERSION "@PACKAGE_VERSION@"
#define PREFIXDIR "@prefix@"
#define EXEC_PREFIX "@exec_prefix@"
#define BINDIR "@bindir@"
#define LIBDIR "@libdir@"
#define LIBEXECDIR "@libexecdir@"
#define SBINDIR "@sbindir@"
#define SYSCONFDIR "@sysconfdir@"
#define INCLUDEDIR "@includedir@"
#define DATAROOTDIR "@datarootdir@"
#define DATADIR "@datadir@"
#define DOCDIR "@docdir@"
#define MANDIR "@mandir@"
#define INFODIR "@infodir@"
#define HTMLDIR "@htmldir@"
#define PDFDIR "@pdfdir@"
#define STDAIR_SAMPLE_DIR "@sampledir@"

#endif // __AIRSCHED_PATHS_HPP__

/*!
```

12.2 People

12.2.1 Project Admins

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- Anh Quan Nguyen <quannaus@users.sourceforge.net> ([N](#))

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- Denis Arnaud <denis_arnaud@users.sourceforge.net> ([N](#))
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- Daniel Perez <daniperez@users.sourceforge.net> ([N](#))
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12.2.4 Contributors

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12.2.5 Distribution Maintainers

- [Fedora/RedHat](#): Denis Arnaud <denis_arnaud@users.sourceforge.net> ([N](#))
- [Debian](#): Emmanuel Bastien <ebastien@users.sourceforge.net> ([N](#))

Note:

(N) - [Amadeus](#) employees.

12.3 Coding Rules

In the following sections we describe the naming conventions which are used for files, classes, structures, local variables, and global variables.

12.3.1 Default Naming Rules for Variables

Variables names follow Java naming conventions. Examples:

- `lNumberOfPassengers`
- `lSeatAvailability`

12.3.2 Default Naming Rules for Functions

Function names follow Java naming conventions. Example:

- `int myFunctionName (const int& a, int b)`

12.3.3 Default Naming Rules for Classes and Structures

Each new word in a class or structure name should always start with a capital letter and the words should be separated with an under-score. Abbreviations are written with capital letters. Examples:

- `MyClassName`
- `MyStructName`

12.3.4 Default Naming Rules for Files

Files are named after the C++ class names.

Source files are named using `.cpp` suffix, whereas header files end with `.hpp` extension. Examples:

- `FlightDate.hpp`
- `SegmentDate.cpp`

12.3.5 Default Functionality of Classes

All classes that are configured by input parameters should include:

- default empty constructor
- one or more additional constructor(s) that takes input parameters and initializes the class instance
- setup function, preferably named `'setup'` or `'set_parameters'`

Explicit destructor functions are not required, unless they are needed. It shall not be possible to use any of the other member functions unless the class has been properly initiated with the input parameters.

12.4 Copyright and License

12.4.1 GNU LESSER GENERAL PUBLIC LICENSE

12.4.1.1 Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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12.4.3.2 END OF TERMS AND CONDITIONS

12.4.4 How to Apply These Terms to Your New Programs

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

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```

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

Source

12.5 Documentation Rules

12.5.1 General Rules

All classes in AirSched should be properly documented with Doxygen comments in include (.hpp) files. Source (.cpp) files should be documented according to a normal standard for well documented C++ code.

An example of how the interface of a class shall be documented in AirSched is shown here:

```
/*!
 * \brief Brief description of MyClass here
 *
 * Detailed description of MyClass here. With example code if needed.
 */
class MyClass {
public:
    /*! Default constructor
     * MyClass(void) { setup_done = false; }
     */
};
```



```

/*!
 * \brief Constructor that initializes the class with parameters
 *
 * Detailed description of the constructor here if needed
 *
 * \param[in] param1 Description of \a param1 here
 * \param[in] param2 Description of \a param2 here
 */
MyClass(TYPE1 param1, TYPE2 param2) { setup(param1, param2); }

/*!
 * \brief Setup function for MyClass
 *
 * Detailed description of the setup function here if needed
 *
 * \param[in] param1 Description of \a param1 here
 * \param[in] param2 Description of \a param2 here
 */
void setup(TYPE1 param1, TYPE2 param2);

/*!
 * \brief Brief description of memberFunction1
 *
 * Detailed description of memberFunction1 here if needed
 *
 * \param[in]      param1 Description of \a param1 here
 * \param[in]      param2 Description of \a param2 here
 * \param[in,out] param3 Description of \a param3 here
 * \return Description of the return value here
 */
TYPE4 memberFunction1(TYPE1 param1, TYPE2 param2, TYPE3 &param3);

private:

    bool _setupDone;          /*!< Variable that checks if the class is properly
                               initialized with parameters */
    TYPE1 _privateVariable1; /*!< Short description of _privateVariable1 here
    TYPE2 _privateVariable2; /*!< Short description of _privateVariable2 here
};

```

12.5.2 File Header

All files should start with the following header, which include Doxygen's \file, \brief and \author tags, \$Date\$ and \$Revisions\$ CVS tags, and a common copyright note:

```

/*!
 * \file
 * \brief Brief description of the file here
 * \author Names of the authors who contributed to this code
 * \date Date
 *
 * Detailed description of the file here if needed.
 *
 * -----
 *
 * AirSched - C++ Airline Schedule Management Library
 *
 * Copyright (C) 2009-2010 (\see authors file for a list of contributors)
 *
 * \see copyright file for license information
 *
 * -----
 */

```

12.5.3 Grouping Various Parts

All functions must be added to a Doxygen group in order to appear in the documentation. The following code example defines the group 'my_group':

```
/*!
 * \defgroup my_group Brief description of the group here
 *
 * Detailed description of the group here
 */
```

The following example shows how to document the function `myFunction` and how to add it to the group `my_group`:

```
/*!
 * \brief Brief description of myFunction here
 * \ingroup my_group
 *
 * Detailed description of myFunction here
 *
 * \param[in] param1 Description of \a param1 here
 * \param[in] param2 Description of \a param2 here
 * \return Description of the return value here
 */
TYPE3 myFunction(TYPE1 param1, TYPE2 &param2);
```

12.6 Main features

A short list of the main features of AirSched is given below sorted in different categories. Many more features and functions exist and for these we refer to the reference documentation.

12.6.1 Network generation

- Network/graph generation

12.6.2 Finding travel solutions

- Matching of travel solutions with user requests

12.6.3 Other features

- CSV input file parsing
- Memory handling

12.7 Make a Difference

Do not ask what AirSched can do for you. Ask what you can do for AirSched.

You can help us to develop the AirSched library. There are always a lot of things you can do:

- Start using AirSched

- Tell your friends about AirSched and help them to get started using it
- If you find a bug, report it to us. Without your help we can never hope to produce a bug free code.
- Help us to improve the documentation by providing information about documentation bugs
- Answer support requests in the AirSched discussion forums on SourceForge. If you know the answer to a question, help others to overcome their AirSched problems.
- Help us to improve our algorithms. If you know of a better way (e.g. that is faster or requires less memory) to implement some of our algorithms, then let us know.
- Help us to port AirSched to new platforms. If you manage to compile AirSched on a new platform, then tell us how you did it.
- Send us your code. If you have a good AirSched compatible code, which you can release under the LGPLv2.1, and you think it should be included in AirSched, then send it to us.
- Become an AirSched developer. Send us an e-mail and tell what you can do for AirSched.

12.8 Make a new release

12.8.1 Introduction

This document describes briefly the recommended procedure of releasing a new version of AirSched using a Linux development machine and the SourceForge project site.

The following steps are required to make a release of the distribution package.

12.8.2 Initialisation

Clone locally the full [Git project](#):

```
cd ~
mkdir -p dev/sim
cd ~/dev/sim
git clone git://air-sched.git.sourceforge.net/gitroot/air-sched/air-sched airschedgit
cd airschedgit
git checkout trunk
```

12.8.3 Release branch maintenance

Switch to the release branch, on your local clone, and merge the latest updates from the trunk. Decide about the new version to be released.

```
cd ~/dev/sim/airschedgit
git checkout releases
git merge trunk
```

Update the version in the various build system files, replacing the old version numbers by the correct ones:

```
vi CMakeLists.txt
vi autogen.sh
vi README
```

Update the version, add some news in the NEWS file, add a change-log in the ChangeLog file and in the RPM specification files:

```
vi NEWS
vi ChangeLog
vi airsched.spec
```

12.8.4 Commit and publish the release branch

Commit the new release:

```
cd ~/dev/sim/airschedgit
git add -A
git commit -m "[Release 0.5.0] Release of the 0.5.0 version of AirSched."
git push
```

12.8.5 Create distribution packages

Create the distribution packages using the following command:

```
cd ~/dev/sim/airschedgit
git checkout releases
rm -rf build && mkdir -p build
cd build
export INSTALL_BASEDIR=/home/user/dev/deliveries
export LIBSUFFIX_4_CMAKE="-DLIB_SUFFIX=64"
cmake -DCMAKE_INSTALL_PREFIX=${INSTALL_BASEDIR}/airsched-0.5.0 \
      -DCMAKE_BUILD_TYPE:STRING=Debug -DINSTALL_DOC:BOOL=ON \
      ${LIBSUFFIX_4_CMAKE} ..
make check && make dist
make install
```

This will configure, compile and check the package. The output packages will be named, for instance, `airsched-0.5.0.tar.gz` and `airsched-0.5.0.tar.bz2`.

12.8.6 Upload the HTML documentation to SourceForge

In order to update the Web site files, either:

- **synchronise them with rsync and SSH:** Upload the just generated HTML (and PDF) documentation onto the **SourceForge Web site**.

```
cd ~/dev/sim/airschedgit/build
git checkout releases
rsync -aiv ${INSTALL_BASEDIR}/airsched-0.5.0/share/doc/airsched-0.5.0/html/ \
  your_sf_user,air-sched@web.sourceforge.net:htdocs/
```

where `-aiv` options mean:

- `-a`: archive/mirror mode; equals `-rlptgoD` (no `-H`, `-A`, `-X`)
- `-v`: increase verbosity
- `-i`: output a change-summary for all updates
- Note the trailing slashes (/) at the end of both the source and target directories. It means that the content of the source directory (`doc/html`), rather than the directory itself, has to be copied into the content of the target directory.
- or use the **SourceForge Shell service**.

12.8.7 Generate the RPM packages

Optionally, generate the RPM package (for instance, for [Fedora/RedHat](#)):

```
cd ~/dev/sim/airschedgit/build
git checkout releases
make dist
```

To perform this step, rpm-build, rpmlint and rpmdevtools have to be available on the system.

```
cp ../airsched.spec ~/dev/packages/SPECS \
  && cp airsched-0.5.0.tar.bz2 ~/dev/packages/SOURCES
cd ~/dev/packages/SPECS
rpmbuild -ba airsched.spec
cd ~/dev/packages
rpmlint -i SPECS/airsched.spec SRPMS/airsched-0.5.0-1.fc16.src.rpm \
  RPMS/noarch/airsched-* RPMS/i686/airsched-*
```

12.8.8 Update distributed change log

Update the NEWS and ChangeLog files with appropriate information, including what has changed since the previous release. Then commit and push the changes into the [AirSched's Git repository](#).

12.8.9 Create the binary package, including the documentation

Create the binary package, which includes HTML and PDF documentation, using the following command:

```
cd ~/dev/sim/airschedgit/build
git checkout releases
make package
```

The output binary package will be named, for instance, `airsched-0.5.0-Linux.tar.bz2`. That package contains both the HTML and PDF documentation. The binary package contains also the executables and shared libraries, as well as C++ header files, but all of those do not interest us for now.

12.8.10 Upload the files to SourceForge

Upload the distribution and documentation packages to the SourceForge server. Check [SourceForge help page on uploading software](#).

12.8.11 Make a new post

- submit a new entry in the [SourceForge project-related news feed](#)
- make a new post on the [SourceForge hosted WordPress blog](#)
- and update, if necessary, [Trac tickets](#).

12.8.12 Send an email on the announcement mailing-list

Finally, you should send an announcement to airsched-announce@lists.sourceforge.net (see <https://lists.sourceforge.net/lists/listinfo/airsched-announce> for the archives)

12.9 Installation

12.9.1 Table of Contents

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12.9.2 Fedora/RedHat Linux distributions

Note that on [Fedora/RedHat](#) Linux distributions, RPM packages are available and can be installed with your usual package manager. For instance:

```
yum -y install airsched-devel airsched-doc
```

RPM packages can also be available on the [SourceForge download site](#).

12.9.3 AirSched Requirements

AirSched should compile without errors or warnings on most GNU/Linux systems, on UNIX systems like Solaris SunOS, and on POSIX based environments for Microsoft Windows like Cygwin or MinGW with MSYS. It can be also built on Microsoft Windows NT/2000/XP/Vista/7 using Microsoft's Visual C++ .NET, but our support for this compiler is limited. For GNU/Linux, SunOS, Cygwin and MinGW we assume that you have at least the following GNU software installed on your computer:

- GNU Autotools:
 - [autoconf](#),
 - [automake](#),
 - [libtool](#),
 - [make](#), version 3.72.1 or later (check version with `'make --version'`)
- [GCC](#) - GNU C++ Compiler (g++), version 4.3.x or later (check version with `'gcc --version'`)
- [Boost](#) - C++ STL extensions, version 1.35 or later (check version with `'grep "define BOOST_LIB_VERSION" /usr/include/boost/version.hpp'`)

- **MySQL** - Database client libraries, version 5.0 or later (check version with ``mysql --version``)
- **SOCI** - C++ database client library wrapper, version 3.0.0 or later (check version with ``soci-config-version``)

Optionally, you might need a few additional programs: **Doxygen**, **LaTeX**, **Dvips** and **Ghostscript**, to generate the HTML and PDF documentation.

We strongly recommend that you use recent stable releases of the GCC, if possible. We do not actively work on supporting older versions of the GCC, and they may therefore (without prior notice) become unsupported in future releases of AirSched.

12.9.4 Basic Installation

Briefly, the shell commands ``./cmake .. && make install`` should configure, build, and install this package. The following more-detailed instructions are generic; see the ``README`` file for instructions specific to this package. Some packages provide this ``INSTALL`` file but do not implement all of the features documented below. The lack of an optional feature in a given package is not necessarily a bug. More recommendations for GNU packages can be found in the info page corresponding to "Makefile Conventions: (standards)Makefile Conventions".

The ``cmake`` shell script attempts to guess correct values for various system-dependent variables used during compilation. It uses those values to create a ``Makefile`` in each directory of the package. It may also create one or more ``.h`` files containing system-dependent definitions. Finally, it creates a ``CMakeCache.txt`` cache file that you can refer to in the future to recreate the current configuration, and a file ``CMakeFiles`` containing compiler output (useful mainly for debugging ``cmake``).

It can also use an optional file (typically called ``config.cache`` and enabled with ``-cache-file=config.cache`` or simply ``-C``) that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how ``configure`` could check whether to do them, and mail diffs or instructions to the address given in the ``README`` so they can be considered for the next release. If you are using the cache, and at some point ``config.cache`` contains results you don't want to keep, you may remove or edit it.

The file ``CMakeLists.txt`` is used to create the ``Makefile`` files.

The simplest way to compile this package is:

1. ``cd`` to the directory containing the package's source code and type ``./cmake ..`` to configure the package for your system. Running ``cmake`` is generally fast. While running, it prints some messages telling which features it is checking for.
2. Type ``make`` to compile the package.
3. Optionally, type ``make check`` to run any self-tests that come with the package, generally using the just-built uninstalled binaries.
4. Type ``make install`` to install the programs and any data files and documentation. When installing into a prefix owned by root, it is recommended that the package be configured and built as a regular user, and only the ``make install`` phase executed with root privileges.
5. You can remove the program binaries and object files from the source code directory by typing ``make clean``. To also remove the files that ``configure`` created (so you can compile the package for

a different kind of computer), type `'make distclean'`. There is also a `'make maintainer-clean'` target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

6. Often, you can also type `'make uninstall'` to remove the installed files again. In practice, not all packages have tested that uninstallation works correctly, even though it is required by the GNU Coding Standards.

12.9.5 Compilers and Options

Some systems require unusual options for compilation or linking that the `'cmake'` script does not know about. Run `'./cmake -help'` for details on some of the pertinent environment variables.

You can give `'cmake'` initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

```
./cmake CC=c99 CFLAGS=-g LIBS=-lposix
```

See also:

[Defining Variables](#) for more details.

12.9.6 Compiling For Multiple Architectures

You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you can use GNU `'make'`. `'cd'` to the directory where you want the object files and executables to go and run the `'configure'` script. `'configure'` automatically checks for the source code in the directory that `'configure'` is in and in `'..'`. This is known as a `"VPATH"` build.

With a non-GNU `'make'`, it is safer to compile the package for one architecture at a time in the source code directory. After you have installed the package for one architecture, use `'make distclean'` before reconfiguring for another architecture.

On MacOS X 10.5 and later systems, you can create libraries and executables that work on multiple system types-known as `"fat"` or `"universal"` binaries-by specifying multiple `'-arch'` options to the compiler but only a single `'-arch'` option to the preprocessor. Like this:

```
./configure CC="gcc -arch i386 -arch x86_64 -arch ppc -arch ppc64" \  
CXX="g++ -arch i386 -arch x86_64 -arch ppc -arch ppc64" \  
CPP="gcc -E" CXXCPP="g++ -E"
```

This is not guaranteed to produce working output in all cases, you may have to build one architecture at a time and combine the results using the `'lipo'` tool if you have problems.

12.9.7 Installation Names

By default, `'make install'` installs the package's commands under `'/usr/local/bin'`, include files under `'/usr/local/include'`, etc. You can specify an installation prefix other than `'/usr/local'` by giving `'configure'` the option `'-prefix=PREFIX'`, where `PREFIX` must be an absolute file name.

You can specify separate installation prefixes for architecture-specific files and architecture-independent files. If you pass the option `'-exec-prefix=PREFIX'` to `'configure'`, the package uses `PREFIX` as the prefix for installing programs and libraries. Documentation and other data files still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `'-bindir=DIR'` to specify different values for particular kinds of files. Run `'configure -help'` for a list of the directories you can set and what kinds of files go in them. In general, the default for these options is expressed in terms of `'${prefix}'`, so that specifying just `'-prefix'` will affect all of the other directory specifications that were not explicitly provided.

The most portable way to affect installation locations is to pass the correct locations to `'configure'`; however, many packages provide one or both of the following shortcuts of passing variable assignments to the `'make install'` command line to change installation locations without having to reconfigure or recompile.

The first method involves providing an override variable for each affected directory. For example, `'make install prefix=/alternate/directory'` will choose an alternate location for all directory configuration variables that were expressed in terms of `'${prefix}'`. Any directories that were specified during `'configure'`, but not in terms of `'${prefix}'`, must each be overridden at install time for the entire installation to be relocated. The approach of makefile variable overrides for each directory variable is required by the GNU Coding Standards, and ideally causes no recompilation. However, some platforms have known limitations with the semantics of shared libraries that end up requiring recompilation when using this method, particularly noticeable in packages that use GNU Libtool.

The second method involves providing the `'DESTDIR'` variable. For example, `'make install DESTDIR=/alternate/directory'` will prepend `'/alternate/directory'` before all installation names. The approach of `'DESTDIR'` overrides is not required by the GNU Coding Standards, and does not work on platforms that have drive letters. On the other hand, it does better at avoiding recompilation issues, and works well even when some directory options were not specified in terms of `'${prefix}'` at `'configure'` time.

12.9.8 Optional Features

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `'cmake'` the option `'-program-prefix=PREFIX'` or `'-program-suffix=SUFFIX'`.

Some packages pay attention to `'-enable-FEATURE'` options to `'configure'`, where `FEATURE` indicates an optional part of the package. They may also pay attention to `'-with-PACKAGE'` options, where `PACKAGE` is something like `'gnu-as'` or `'x'` (for the X Window System). The `'README'` should mention any `'-enable-'` and `'-with-'` options that the package recognizes.

For packages that use the X Window System, `'configure'` can usually find the X include and library files automatically, but if it doesn't, you can use the `'configure'` options `'-x-includes=DIR'` and `'-x-libraries=DIR'` to specify their locations.

Some packages offer the ability to configure how verbose the execution of `'make'` will be. For these packages, running `./configure --enable-silent-rules` sets the default to minimal output, which can be overridden with `'make V=1'`; while running `./configure --disable-silent-rules` sets the default to verbose, which can be overridden with `'make V=0'`.

12.9.9 Particular systems

On HP-UX, the default C compiler is not ANSI C compatible. If GNU CC is not installed, it is recommended to use the following options in order to use an ANSI C compiler:

```
./configure CC="cc -Ae -D_XOPEN_SOURCE=500"
```

and if that doesn't work, install pre-built binaries of GCC for HP-UX.

On OSF/1 a.k.a. Tru64, some versions of the default C compiler cannot parse its `<wchar.h>` header file. The option `'-nodtk'` can be used as a workaround. If GNU CC is not installed, it is therefore recommended to try

```
./configure CC="cc"
```

and if that doesn't work, try

```
./configure CC="cc -nodtk"
```

On Solaris, don't put `'/usr/ucb'` early in your `'PATH'`. This directory contains several dysfunctional programs; working variants of these programs are available in `'/usr/bin'`. So, if you need `'/usr/ucb'` in your `'PATH'`, put it `_after_` `'/usr/bin'`.

On Haiku, software installed for all users goes in `'/boot/common'`, not `'/usr/local'`. It is recommended to use the following options:

```
./cmake -DCMAKE_INSTALL_PREFIX=/boot/common
```

12.9.10 Specifying the System Type

There may be some features `'configure'` cannot figure out automatically, but needs to determine by the type of machine the

package will run on. Usually, assuming the package is built to be run on the `_same_` architectures, `'configure'` can figure that out, but if it prints a message saying it cannot guess the machine type, give it the `'-build=TYPE'` option. TYPE can either be a short name for the system type, such as `'sun4'`, or a canonical name which has the form CPU-COMPANY-SYSTEM

where SYSTEM can have one of these forms:

- OS
- KERNEL-OS

See the file `'config.sub'` for the possible values of each field. If `'config.sub'` isn't included in this package, then this package doesn't need to know the machine type.

If you are `_building_` compiler tools for cross-compiling, you should use the option `'-target=TYPE'` to select the type of system they will produce code for.

If you want to `_use_` a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `'-host=TYPE'`.

12.9.11 Sharing Defaults

If you want to set default values for `'configure'` scripts to share, you can create a site shell script called `'config.site'` that gives default values for variables like `'CC'`, `'cache_file'`, and `'prefix'`. `'configure'` looks for `'PREFIX/share/config.site'` if it exists, then `'PREFIX/etc/config.site'` if it exists. Or, you can set the `'CONFIG_SITE'` environment variable to the location of the site script. A warning: not all `'configure'` scripts look for a site script.

12.9.12 Defining Variables

Variables not defined in a site shell script can be set in the environment passed to `'configure'`. However, some packages may run `configure` again during the build, and the customized values of these variables may be lost. In order to avoid this problem, you should set them in the `'configure'` command line, using `'VAR=value'`. For example:

```
./configure CC=/usr/local2/bin/gcc
```

causes the specified `'gcc'` to be used as the C compiler (unless it is overridden in the site shell script).

Unfortunately, this technique does not work for `'CONFIG_SHELL'` due to an Autoconf bug. Until the bug is fixed you can use this workaround:

```
CONFIG_SHELL=/bin/bash /bin/bash ./configure CONFIG_SHELL=/bin/bash
```

12.9.13 'cmake' Invocation

'cmake' recognizes the following options to control how it operates.

- '-help', '-h' print a summary of all of the options to 'cmake', and exit.
- '-help=short', '-help=recursive' print a summary of the options unique to this package's 'configure', and exit. The 'short' variant lists options used only in the top level, while the 'recursive' variant lists options also present in any nested packages.
- '-version', '-V' print the version of Autoconf used to generate the 'configure' script, and exit.
- '-cache-file=FILE' enable the cache: use and save the results of the tests in FILE, traditionally 'config.cache'. FILE defaults to '/dev/null' to disable caching.
- '-config-cache', '-C' alias for '-cache-file=config.cache'.
- '-quiet', '-silent', '-q' do not print messages saying which checks are being made. To suppress all normal output, redirect it to '/dev/null' (any error messages will still be shown).
- '-srcdir=DIR' look for the package's source code in directory DIR. Usually 'configure' can determine that directory automatically.
- '-prefix=DIR' use DIR as the installation prefix.

See also:

[Installation Names](#) for more details, including other options available for fine-tuning the installation locations.

- '-no-create', '-n' run the configure checks, but stop before creating any output files.

'cmake' also accepts some other, not widely useful, options. Run 'cmake' -help' for more details.

The 'cmake' script produces an output like this:

```
-- Requires Git without specifying any version
cmake -DCMAKE_INSTALL_PREFIX=/home/user/dev/deliveries/airsched-99.99.99 -DLIB_SUFFIX=64 -DCMAKE_BUILD_TYPE=Release
-- The C compiler identification is GNU
-- The CXX compiler identification is GNU
-- Check for working C compiler: /usr/lib64/ccache/gcc
-- Check for working C compiler: /usr/lib64/ccache/gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working CXX compiler: /usr/lib64/ccache/c++
-- Check for working CXX compiler: /usr/lib64/ccache/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Requires Git without specifying any version
-- Current Git revision name: 6100bb1479e9c72f807a60067138dfe1b71c7ec7 trunk
-- Requires Boost-1.41
-- Boost version: 1.46.0
-- Found the following Boost libraries:
```

```

-- regex
-- program_options
-- date_time
-- iostreams
-- serialization
-- filesystem
-- unit_test_framework
-- python
-- Found Boost version: 1.46.0
-- Found BoostWrapper: /usr/include (Required is at least version "1.41")
-- Requires MySQL without specifying any version
-- Using mysql-config: /usr/bin/mysql_config
-- Found MySQL: /usr/lib64/mysql/libmysqlclient.so
-- Found MySQL version: 5.5.14
-- Requires SOCI-3.0
-- Using soci-config: /usr/bin/soci-config
-- SOCI headers are buried
-- Found SOCI: /usr/lib64/libsoci_core.so (Required is at least version "3.0")
-- Found SOCIMySQL: /usr/lib64/libsoci_mysql.so (Required is at least version "3.0")
-- Found SOCI with MySQL back-end support version: 3.0.0
-- Requires StdAir-0.35
-- Found StdAir version: 0.38.0
-- Requires Doxygen without specifying any version
-- Found Doxygen: /usr/bin/doxygen
-- Found DoxygenWrapper: /usr/bin/doxygen
-- Found Doxygen version: 1.7.4
-- Had to set the linker language for 'airschedlib' to CXX
-- Test 'AirlineScheduleTestSuite' to be built with 'AirlineScheduleTestSuite.cpp'
--
-- =====
-- -----
-- ---      Project Information      ---
-- -----
-- PROJECT_NAME ..... : aairsched
-- PACKAGE_PRETTY_NAME ..... : AirSched
-- PACKAGE ..... : aairsched
-- PACKAGE_NAME ..... : AIRSCHED
-- PACKAGE_BRIEF ..... : C++ Simulated Airline Schedule Manager Library
-- PACKAGE_VERSION ..... : 99.99.99
-- GENERIC_LIB_VERSION ..... : 99.99.99
-- GENERIC_LIB_SOVERSION ..... : 99.99
--
-- -----
-- ---      Build Configuration      ---
-- -----
-- Modules to build ..... : aairsched
-- Libraries to build/install ..... : aairschedlib
-- Binaries to build/install ..... : aairsched
-- Modules to test ..... : aairsched
-- Binaries to test ..... : AirlineScheduleTestSuitetst
--
-- * Module ..... : aairsched
--   + Layers to build ..... : .;basic;bom;factory;command;service
--   + Dependencies on other layers :
--   + Libraries to build/install . : aairschedlib
--   + Executables to build/install : aairsched
--   + Tests to perform ..... : AirlineScheduleTestSuitetst
--
-- BUILD_SHARED_LIBS ..... : ON
-- CMAKE_BUILD_TYPE ..... : Debug
-- * CMAKE_C_FLAGS ..... :
-- * CMAKE_CXX_FLAGS ..... : -Wall -Werror
-- * BUILD_FLAGS ..... :
-- * COMPILE_FLAGS ..... :
-- CMAKE_MODULE_PATH ..... : /home/user/dev/sim/airsched/airschedgithub/config/
-- CMAKE_INSTALL_PREFIX ..... : /home/user/dev/deliveries/airsched-99.99.99
--

```

```

-- * Doxygen:
--   - DOXYGEN_VERSION ..... : 1.7.4
--   - DOXYGEN_EXECUTABLE ..... : /usr/bin/doxygen
--   - DOXYGEN_DOT_EXECUTABLE ..... : /usr/bin/dot
--   - DOXYGEN_DOT_PATH ..... : /usr/bin
--
-- -----
-- --- Installation Configuration ---
-- -----
-- INSTALL_LIB_DIR ..... : /home/user/dev/deliveries/airsched-99.99.99/lib64
-- INSTALL_BIN_DIR ..... : /home/user/dev/deliveries/airsched-99.99.99/bin
-- INSTALL_INCLUDE_DIR ..... : /home/user/dev/deliveries/airsched-99.99.99/include
-- INSTALL_DATA_DIR ..... : /home/user/dev/deliveries/airsched-99.99.99/share
-- INSTALL_SAMPLE_DIR ..... : /home/user/dev/deliveries/airsched-99.99.99/share/airsched/samples
-- INSTALL_DOC ..... : ON
--
-- -----
-- --- Packaging Configuration ---
-- -----
-- CPACK_PACKAGE_CONTACT ..... : Denis Arnaud <denis_arnaud - at - users dot sourceforge dot net>
-- CPACK_PACKAGE_VENDOR ..... : Denis Arnaud
-- CPACK_PACKAGE_VERSION ..... : 99.99.99
-- CPACK_PACKAGE_DESCRIPTION_FILE . : /home/user/dev/sim/airsched/airschedgithub/README
-- CPACK_RESOURCE_FILE_LICENSE .... : /home/user/dev/sim/airsched/airschedgithub/COPYING
-- CPACK_GENERATOR ..... : TBZ2
-- CPACK_DEBIAN_PACKAGE_DEPENDS ... :
-- CPACK_SOURCE_GENERATOR ..... : TBZ2;TGZ
-- CPACK_SOURCE_PACKAGE_FILE_NAME . : airsched-99.99.99
--
-- -----
-- --- External libraries ---
-- -----
--
-- * Boost:
--   - Boost_VERSION ..... : 104600
--   - Boost_LIB_VERSION ..... : 1_46
--   - Boost_HUMAN_VERSION ..... : 1.46.0
--   - Boost_INCLUDE_DIRS ..... : /usr/include
--   - Boost required components .. : regex;program_options;date_time;iostreams;serialization;filesystem;u
--   - Boost required libraries ... : optimized;/usr/lib64/libboost_regex-mt.so;debug;/usr/lib64/libboost_
--
-- * MySQL:
--   - MYSQL_VERSION ..... : 5.5.14
--   - MYSQL_INCLUDE_DIR ..... : /usr/include/mysql
--   - MYSQL_LIBRARIES ..... : /usr/lib64/mysql/libmysqlclient.so
--
-- * SOCI:
--   - SOCI_VERSION ..... : 3.0.0
--   - SOCI_INCLUDE_DIR ..... : /usr/include/soci
--   - SOCI_MYSQL_INCLUDE_DIR ..... : /usr/include/soci
--   - SOCI_LIBRARIES ..... : /usr/lib64/libsoci_core.so
--   - SOCI_MYSQL_LIBRARIES ..... : /usr/lib64/libsoci_mysql.so
--
-- * StdAir:
--   - STDAIR_VERSION ..... : 0.38.0
--   - STDAIR_BINARY_DIRS ..... : /home/user/dev/deliveries/stdair-0.38.0/bin
--   - STDAIR_EXECUTABLES ..... : stdair
--   - STDAIR_LIBRARY_DIRS ..... : /home/user/dev/deliveries/stdair-0.38.0/lib64
--   - STDAIR_LIBRARIES ..... : stdairlib;stdairuiclib
--   - STDAIR_INCLUDE_DIRS ..... : /home/user/dev/deliveries/stdair-0.38.0/include
--   - STDAIR_SAMPLE_DIR ..... : /home/user/dev/deliveries/stdair-0.38.0/share/stdair/samples
--
-- Change a value with: cmake -D<Variable>=<Value>
-- =====
--
-- Configuring done
-- Generating done

```

```
-- Build files have been written to: /home/user/dev/sim/airsched/airschedgithub/build
```

It is recommended that you check if your library has been compiled and linked properly and works as expected. To do so, you should execute the testing process 'make check'. As a result, you should obtain a similar report:

```
[ 0%] Built target hdr_cfg_airsched
[ 96%] Built target airschedlib
[100%] Built target AirlineScheduleTestSuitetst
Scanning dependencies of target check_airschedtst
Test project /home/dan/dev/sim/airsched/airschedgithub/build/test/airsched
  Start 1: AirlineScheduleTestSuitetst
1/1 Test #1: AirlineScheduleTestSuitetst ..... Passed    0.15 sec

100% tests passed, 0 tests failed out of 1

Total Test time (real) = 0.40 sec
[100%] Built target check_airschedtst
Scanning dependencies of target check
[100%] Built target check
```

Check if all the executed tests PASSED. If not, please contact us by filling a [bug-report](#).

Finally, you should install the compiled and linked library, include files and (optionally) HTML and PDF documentation by typing:

```
make install
```

Depending on the PREFIX settings during configuration, you might need the root (administrator) access to perform this step.

Eventually, you might invoke the following command

```
make clean
```

to remove all files created during compilation process, or even

```
cd ~/dev/sim/airschedgit
rm -rf build && mkdir build
cd build
```

to remove everything.

12.10 Linking with AirSched

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12.10.2 Introduction

There are two convenient methods of linking your programs with the AirSched library. The first one employs the 'pkg-config' command (see <http://pkgconfig.freedesktop.org/>), whereas the second one uses 'airsched-config' script. These methods are shortly described below.

12.10.3 Dependencies

The AirSched library depends on several other C++ components.

12.10.3.1 StdAir Among them, as for now, only StdAir has been packaged. The support for StdAir is taken in charge by a dedicated M4 macro file (namely, 'stdair.m4'), from the configuration script (generated thanks to 'configure.ac').



Figure 1: AirSched Dependencies

12.10.4 Using the pkg-config command

'pkg-config' is a helper tool used when compiling applications and libraries. It helps you insert the correct compiler and linker options. The syntax of the 'pkg-config' is as follows:

```
pkg-config <options> <library_name>
```

For instance, assuming that you need to compile an AirSched based program 'my_prog.cpp', you should use the following command:

```
g++ `pkg-config --cflags airsched` -o my_prog my_prog.cpp `pkg-config --libs airsched`
```

For more information see the 'pkg-config' man pages.

12.10.5 Using the airsched-config script

AirSched provides a shell script called `'airsched-config'`, which is installed by default in `'$prefix/bin'` (`'/usr/local/bin'`) directory. It can be used to simplify compilation and linking of AirSched based programs. The usage of this script is quite similar to the usage of the `'pkg-config'` command.

Assuming that you need to compile the program `'my_prog.cpp'` you can now do that with the following command:

```
g++ 'airsched-config --cflags' -o my_prog_opt my_prog.cpp 'airsched-config --libs'
```

A list of `'airsched-config'` options can be obtained by typing:

```
airsched-config --help
```

If the `'airsched-config'` command is not found by your shell, you should add its location `'$prefix/bin'` to the `PATH` environment variable, e.g.:

```
export PATH=/usr/local/bin:$PATH
```

12.10.6 M4 macro for the GNU Autotools

A M4 macro file is delivered with AirSched, namely `'airsched.m4'`, which can be found in, e.g., `'/usr/share/aclocal'`. When used by a `'configure'` script, thanks to the `'AM_PATH_AirSched'` macro (specified in the M4 macro file), the following Makefile variables are then defined:

- `'AirSched_VERSION'` (e.g., defined to 0.23.0)
- `'AirSched_CFLAGS'` (e.g., defined to `'-I${prefix}/include'`)
- `'AirSched_LIBS'` (e.g., defined to `'-L${prefix}/lib -lairsched'`)

12.10.7 Using AirSched with dynamic linking

When using static linking some of the library routines in AirSched are copied into your executable program. This can lead to unnecessary large executables. To avoid having too large executable files you may use dynamic linking instead. Dynamic linking means that the actual linking is performed when the program is executed. This requires that the system is able to locate the shared AirSched library file during your program execution. If you install the AirSched library using a non-standard prefix, the `'LD_LIBRARY_PATH'` environment variable might be used to inform the linker of the dynamic library location, e.g.:

```
export LD_LIBRARY_PATH=<AirSched installation prefix>/lib:$LD_LIBRARY_PATH
```

12.11 Test Rules

This section describes rules how the functionality of the IT++ library should be verified. In the `'tests'` subdirectory test files are provided. All functionality should be tested using these test files.

12.11.1 The Test File

Each new IT++ module/class should be accompanied with a test file. The test file is an implementation in C++ that tests the functionality of a function/class or a group of functions/classes called modules. The test file should test relevant parameter settings and input/output relations to guarantee correct functionality of the corresponding classes/functions. The test files should be maintained using version control and updated whenever new functionality is added to the IT++ library.

The test file should print relevant data to a standard output that can be used to verify the functionality. All relevant parameter settings should be tested.

The test file should be placed in the `'tests'` subdirectory and should have a name ending with `'__test.cpp'`.

12.11.2 The Reference File

Consider a test file named `'module_test.cpp'`. A reference file named `'module_test.ref'` should accompany the test file. The reference file contains a reference printout of the standard output generated when running the test program. The reference file should be maintained using version control and updated according to the test file.

12.11.3 Testing IT++ Library

One can compile and execute all test programs from `'tests'` subdirectory by typing

```
% make check
```

after successful compilation of the IT++ library.

12.12 Users Guide

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- [Input file of AirSched Project](#)
- [The schedule BOM Tree](#)
 - [Build of the schedule BOM tree](#)
 - [Display of the schedule BOM tree](#)
- [Exploring the Predefined BOM Tree](#)
 - [Airline Network BOM Tree](#)
 - [Airline Schedule BOM Tree](#)

- [Extending the BOM Tree](#)
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12.12.2 Introduction

The `AirSched` library contains classes for airline business management. This document does not cover all the aspects of the `AirSched` library. It does however explain the most important things you need to know in order to start using `AirSched`.

12.12.3 Get Started

12.12.3.1 Get the AirSched library Clone locally the full [Git project](#):

```
cd ~
mkdir -p dev/sim
cd ~/dev/sim
git clone git://air-sched.git.sourceforge.net/gitroot/air-sched/air-sched airschedgit
cd airschedgit
git checkout trunk
```

12.12.3.2 Build the AirSched project Link with `StdAir`, create the distribution package (say, 0.5.0) and compile using the following commands:

```
cd ~/dev/sim/airschedgit
rm -rf build && mkdir -p build
cd build
cmake -DCMAKE_INSTALL_PREFIX=~/dev/deliveries/airsched-0.5.0 \
      -DWITH_STDAIR_PREFIX=~/dev/deliveries/stdair-stable \
      -DCMAKE_BUILD_TYPE:STRING=Debug -DINSTALL_DOC:BOOL=ON ..
make
```

12.12.3.3 Build and Run the Tests After building the `AirSched` project, the following commands run the tests:

```
cd ~/dev/sim/airschedgit
cd build
make check
```

As a result, you should obtain a similar report:

```
[ 0%] Built target hdr_cfg_airsched
[ 96%] Built target airschedlib
[100%] Built target AirlineScheduleTestSuitetst
Scanning dependencies of target check_airschedtst
Test project /home/dan/dev/sim/airsched/airschedgithub/build/test/airsched
Start 1: AirlineScheduleTestSuitetst
1/1 Test #1: AirlineScheduleTestSuitetst ..... Passed    0.15 sec

100% tests passed, 0 tests failed out of 1

Total Test time (real) = 0.40 sec
[100%] Built target check_airschedtst
Scanning dependencies of target check
[100%] Built target check
```

12.12.3.4 Install the AirSched Project (Binaries, Documentation) After the step [Build the AirSched project](#), to install the library and its header files, type:

```
cd ~/dev/sim/airschedgit
cd build
make install
```

You can check that the executables and other required files have been copied into the given final directory:

```
cd ~/dev/deliveries/airsched-0.5.0
```

To generate the AirSched project documentation, the commands are:

```
cd ~/dev/sim/airschedgit
cd build
make doc
```

The AirSched project documentation is available in the following formats: HTML, LaTeX. Those documents are available in a subdirectory:

```
cd ~/dev/sim/airschedgit
cd build
cd doc
```

12.12.4 Input file of AirSched Project

The schedule input file structure should look like the following sample:

```
// Flights:   AirlineCode; FlightNumber; Date-Range; ; DOW; Legs; Segments;
// Legs:      BoardPoint; OffPoint; BoardTime; ArrivalDateOffSet; ArrivalTime;
//            ElapsedTime; LegCabins;
// LegCabins: CabinCode; Capacity;
// Segments: Specific;
BA; 9; 2007-04-20; 2007-06-30; 0000011; LHR; BKK; 22:00; 15:15 / +1; 11:15; F; 5; J; 12; W; 20; Y; 300; BK
BA; 9; 2007-04-20; 2007-06-30; 1111100; LHR; BKK; 22:00; 15:15 / +1; 11:15; F; 5; J; 12; W; 20; Y; 300; BK
BA; 117; 2007-04-20; 2007-06-30; 1111111; LHR; JFK; 08:20; 11:00; 07:40; F; 5; J; 12; W; 20; Y; 300; 0; F;
BA; 175; 2007-04-20; 2007-06-30; 1111111; LHR; JFK; 10:55; 13:35; 07:40; F; 5; J; 12; W; 20; Y; 300; 0; F;
BA; 179; 2007-04-20; 2007-06-30; 1111111; LHR; JFK; 18:05; 20:45; 07:40; F; 5; J; 12; W; 20; Y; 300; 0; F;
BA; 207; 2007-04-20; 2007-06-30; 1111111; LHR; MIA; 09:40; 14:25; 09:45; F; 5; J; 12; W; 20; Y; 300; 0; F;
BA; 279; 2007-04-20; 2007-06-30; 1111111; LHR; LAX; 10:05; 13:10; 11:05; F; 5; J; 12; W; 20; Y; 300; 0; F;
```

Each line, beyond the header, represents a schedule entry, i.e., the specification of a given flight-period (see [AIRSCHED::FlightPeriodStruct](#)). The fields are as follows:

- Flights section
 - AirlineCode (e.g., BA)
 - FlightNumber (e.g., 9)
 - Start of the flight departure period (e.g., 2007-04-20)
 - End of the flight departure period (e.g., 2007-06-30)
 - Day-Of-the-Week for the flight departure period (DOW) (e.g., 0000011)
 - Leg section
 - Segment section

- Leg section
 - BoardPoint (e.g., LHR)
 - OffPoint (e.g., BKK)
 - BoardTime (e.g., 22:00)
 - ArrivalTime (e.g., 15:15)
 - ArrivalDateOffset (e.g., +1)
 - ElapsedTime (e.g., 11:15)
 - Leg-cabin section
- Leg-cabin section
 - Cabin code (e.g., F, J, W or Y)
 - Capacity (e.g., respectively 5, 12, 20 or 300)
- Segment section
 - Specificity flag:
 - * 0 means that all the segments behave the same way, i.e., have got the same dressing (distribution and order of the booking classes per cabin)
 - * 1 means that each segment behave differently. The full specification of each of those segments must therefore be given.
 - Segment-cabin section
 - Fare family section
- Segment-cabin section
 - Cabin code (e.g., F, J, W or Y)
 - List of (one-letter-code) booking classes for the cabin (e.g, respectively FA, JC DI, WT or YBHKMLSQ)
- Fare family section
 - Fare family code (e.g., 1)
 - List of (one-letter-code) booking classes for the fare family (e.g, respectively FA, JC DI, WT or YBHKMLSQ)

Some fare input examples (including the example above named schedule03.csv) are given in the StdAir project.

12.12.5 The schedule BOM Tree

The schedule-related Business Object Model (BOM) tree is a structure allowing to store all the `AIRSCHEd::FlightPeriodStruct` objects of the simulation. That is why parsing an input file, containing the specification for all the flight-periods, is more convenient (

See also:

the previous section [Input file of AirSched Project](#)).

As it may be time consuming, and it for sure requires some know-how, to first build such a schedule input file, a small sample BOM tree is provided by default when needed.

12.12.5.1 Build of the schedule BOM tree First, a BOM root object (i.e., a root for all the classes in the project) is instantiated by the `stdair::STDAIR_ServiceContext` context object, when the `stdair::STDAIR_Service` is itself instantiated (during the instantiation of the `AIRSCHEd::AIRSCHEd_Service` object).

The corresponding type (class) `stdair::BomRoot` is defined in the `StdAir` library.

Then, the BOM root can be either constructed thanks to the `AIRSCHEd::AIRSCHEd_Service::buildSampleBom()` method:

```
void buildSampleBom();
```

or can be constructed using the schedule input file described above thanks to the `AIRSCHEd::AIRSCHEd_Service::parseAndLoad` (`const stdair::Filename_T&`) method:

```
void parseAndLoad (const stdair::ScheduleFilePath&);
```

12.12.5.2 Display of the schedule BOM tree

Note:

That feature (of BOM tree display) has not been implemented yet. Do not hesitate to [open a ticket](#) if you would like to have it implemented more quickly.

The schedule BOM tree can be displayed as done in the `batches::airsched.cpp` program:

When the default BOM tree is used (`-b/-builtin` option of the main program `airsched.cpp`), the schedule BOM tree display (for now, corresponding to `schedule01.csv` parsed by `AIRINV::parseInventory`) should look like:

```
=====
BomRoot:  -- ROOT  --
=====
+++++
Inventory: SQ
+++++
*****
FlightDate: SQ11, 2010-Jan-15
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-15, SIN-BKK, 2010-Jan-15, 08:20:00, 2010-Jan-15, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-15, SIN-BKK 2010-Jan-15, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 2, 298, 9, 0, 0, 0, 0, 0,
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
```

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-15, SIN-BKK 2010-Jan-15, Y, 1, 0, 0, 0, 2, 298, 0,
SQ11 2010-Jan-15, SIN-BKK 2010-Jan-15, Y, 2, 0, 0, 0, 2, 298, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-15, SIN-BKK 2010-Jan-15, Y, 1, Y, 300 (0), 0, 0, 0, 2, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-15, SIN-BKK 2010-Jan-15, Y, 2, M, 300 (0), 0, 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-16

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-16, SIN-BKK, 2010-Jan-16, 08:20:00, 2010-Jan-16, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-16, SIN-BKK 2010-Jan-16, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 1.83244e-319, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-16, SIN-BKK 2010-Jan-16, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-16, SIN-BKK 2010-Jan-16, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-16, SIN-BKK 2010-Jan-16, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-16, SIN-BKK 2010-Jan-16, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-17

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-17, SIN-BKK, 2010-Jan-17, 08:20:00, 2010-Jan-17, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-17, SIN-BKK 2010-Jan-17, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 1.58896e-319, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

```
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-17, SIN-BKK 2010-Jan-17, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-17, SIN-BKK 2010-Jan-17, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-17, SIN-BKK 2010-Jan-17, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0,
SQ11 2010-Jan-17, SIN-BKK 2010-Jan-17, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-18
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-18, SIN-BKK, 2010-Jan-18, 08:20:00, 2010-Jan-18, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-18, SIN-BKK 2010-Jan-18, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-18, SIN-BKK 2010-Jan-18, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-18, SIN-BKK 2010-Jan-18, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-18, SIN-BKK 2010-Jan-18, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0,
SQ11 2010-Jan-18, SIN-BKK 2010-Jan-18, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-19
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-19, SIN-BKK, 2010-Jan-19, 08:20:00, 2010-Jan-19, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-19, SIN-BKK 2010-Jan-19, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0,
*****
*****
Buckets:
-----
```



```
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-19, SIN-BKK 2010-Jan-19, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-19, SIN-BKK 2010-Jan-19, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-19, SIN-BKK 2010-Jan-19, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-19, SIN-BKK 2010-Jan-19, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-20
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-20, SIN-BKK, 2010-Jan-20, 08:20:00, 2010-Jan-20, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-20, SIN-BKK 2010-Jan-20, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-20, SIN-BKK 2010-Jan-20, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-20, SIN-BKK 2010-Jan-20, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-20, SIN-BKK 2010-Jan-20, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-20, SIN-BKK 2010-Jan-20, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-21
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-21, SIN-BKK, 2010-Jan-21, 08:20:00, 2010-Jan-21, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-21, SIN-BKK 2010-Jan-21, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
```

```
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-21, SIN-BKK 2010-Jan-21, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-21, SIN-BKK 2010-Jan-21, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-21, SIN-BKK 2010-Jan-21, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-21, SIN-BKK 2010-Jan-21, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-22
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-22, SIN-BKK, 2010-Jan-22, 08:20:00, 2010-Jan-22, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-22, SIN-BKK 2010-Jan-22, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-22, SIN-BKK 2010-Jan-22, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-22, SIN-BKK 2010-Jan-22, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-22, SIN-BKK 2010-Jan-22, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-22, SIN-BKK 2010-Jan-22, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Jan-23
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-23, SIN-BKK, 2010-Jan-23, 08:20:00, 2010-Jan-23, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-23, SIN-BKK 2010-Jan-23, Y, 300, 300, 0, 0, 0, 0, 0, 0, 6.64029e-319, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
```

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-23, SIN-BKK 2010-Jan-23, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-23, SIN-BKK 2010-Jan-23, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-23, SIN-BKK 2010-Jan-23, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-23, SIN-BKK 2010-Jan-23, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-24

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-24, SIN-BKK, 2010-Jan-24, 08:20:00, 2010-Jan-24, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-24, SIN-BKK 2010-Jan-24, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-24, SIN-BKK 2010-Jan-24, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-24, SIN-BKK 2010-Jan-24, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-24, SIN-BKK 2010-Jan-24, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-24, SIN-BKK 2010-Jan-24, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-25

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-25, SIN-BKK, 2010-Jan-25, 08:20:00, 2010-Jan-25, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-25, SIN-BKK 2010-Jan-25, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-25, SIN-BKK 2010-Jan-25, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-25, SIN-BKK 2010-Jan-25, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-25, SIN-BKK 2010-Jan-25, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-25, SIN-BKK 2010-Jan-25, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-26

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-26, SIN-BKK, 2010-Jan-26, 08:20:00, 2010-Jan-26, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-26, SIN-BKK 2010-Jan-26, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-26, SIN-BKK 2010-Jan-26, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-26, SIN-BKK 2010-Jan-26, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-26, SIN-BKK 2010-Jan-26, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-26, SIN-BKK 2010-Jan-26, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Jan-27

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-27, SIN-BKK, 2010-Jan-27, 08:20:00, 2010-Jan-27, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-27, SIN-BKK 2010-Jan-27, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-27, SIN-BKK 2010-Jan-27, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-27, SIN-BKK 2010-Jan-27, Y, 2, 0, 0, 0, 0, 300, 0,
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*****
*****
Subclasses:
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```
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-27, SIN-BKK 2010-Jan-27, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-27, SIN-BKK 2010-Jan-27, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ11, 2010-Jan-28
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-28, SIN-BKK, 2010-Jan-28, 08:20:00, 2010-Jan-28, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
```

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LegCabins:
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```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-28, SIN-BKK 2010-Jan-28, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
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*****
*****
Buckets:
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```
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
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```
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-28, SIN-BKK 2010-Jan-28, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-28, SIN-BKK 2010-Jan-28, Y, 2, 0, 0, 0, 0, 300, 0,
```

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*****
*****
Subclasses:
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```

```
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-28, SIN-BKK 2010-Jan-28, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-28, SIN-BKK 2010-Jan-28, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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*****
*****
FlightDate: SQ11, 2010-Jan-29
*****
*****
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Leg-Dates:
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```
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Jan-29, SIN-BKK, 2010-Jan-29, 08:20:00, 2010-Jan-29, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
```

```
LegCabins:
-----
```

```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
```

```
SQL1 2010-Jan-29, SIN-BKK 2010-Jan-29, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL1 2010-Jan-29, SIN-BKK 2010-Jan-29, Y, 1, 0, 0, 0, 0, 300, 0,
SQL1 2010-Jan-29, SIN-BKK 2010-Jan-29, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL1 2010-Jan-29, SIN-BKK 2010-Jan-29, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL1 2010-Jan-29, SIN-BKK 2010-Jan-29, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL1, 2010-Jan-30
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL1 2010-Jan-30, SIN-BKK, 2010-Jan-30, 08:20:00, 2010-Jan-30, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL1 2010-Jan-30, SIN-BKK 2010-Jan-30, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL1 2010-Jan-30, SIN-BKK 2010-Jan-30, Y, 1, 0, 0, 0, 0, 300, 0,
SQL1 2010-Jan-30, SIN-BKK 2010-Jan-30, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL1 2010-Jan-30, SIN-BKK 2010-Jan-30, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL1 2010-Jan-30, SIN-BKK 2010-Jan-30, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL1, 2010-Jan-31
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL1 2010-Jan-31, SIN-BKK, 2010-Jan-31, 08:20:00, 2010-Jan-31, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
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```

```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Jan-31, SIN-BKK 2010-Jan-31, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Jan-31, SIN-BKK 2010-Jan-31, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Jan-31, SIN-BKK 2010-Jan-31, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Jan-31, SIN-BKK 2010-Jan-31, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Jan-31, SIN-BKK 2010-Jan-31, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-01
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-01, SIN-BKK, 2010-Feb-01, 08:20:00, 2010-Feb-01, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-01, SIN-BKK 2010-Feb-01, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-01, SIN-BKK 2010-Feb-01, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-01, SIN-BKK 2010-Feb-01, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-01, SIN-BKK 2010-Feb-01, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-01, SIN-BKK 2010-Feb-01, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-02
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-02, SIN-BKK, 2010-Feb-02, 08:20:00, 2010-Feb-02, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
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-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-02, SIN-BKK 2010-Feb-02, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-02, SIN-BKK 2010-Feb-02, Y, 1, 0, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-02, SIN-BKK 2010-Feb-02, Y, 2, 0, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-02, SIN-BKK 2010-Feb-02, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-02, SIN-BKK 2010-Feb-02, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-03
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-03, SIN-BKK, 2010-Feb-03, 08:20:00, 2010-Feb-03, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-03, SIN-BKK 2010-Feb-03, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-03, SIN-BKK 2010-Feb-03, Y, 1, 0, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-03, SIN-BKK 2010-Feb-03, Y, 2, 0, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-03, SIN-BKK 2010-Feb-03, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-03, SIN-BKK 2010-Feb-03, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-04
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-04, SIN-BKK, 2010-Feb-04, 08:20:00, 2010-Feb-04, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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*****
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LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-04, SIN-BKK 2010-Feb-04, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-04, SIN-BKK 2010-Feb-04, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-04, SIN-BKK 2010-Feb-04, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-04, SIN-BKK 2010-Feb-04, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-04, SIN-BKK 2010-Feb-04, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-05

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-05, SIN-BKK, 2010-Feb-05, 08:20:00, 2010-Feb-05, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-05, SIN-BKK 2010-Feb-05, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-05, SIN-BKK 2010-Feb-05, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-05, SIN-BKK 2010-Feb-05, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-05, SIN-BKK 2010-Feb-05, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-05, SIN-BKK 2010-Feb-05, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-06

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-06, SIN-BKK, 2010-Feb-06, 08:20:00, 2010-Feb-06, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-06, SIN-BKK 2010-Feb-06, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-06, SIN-BKK 2010-Feb-06, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-06, SIN-BKK 2010-Feb-06, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-06, SIN-BKK 2010-Feb-06, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-06, SIN-BKK 2010-Feb-06, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-07

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-07, SIN-BKK, 2010-Feb-07, 08:20:00, 2010-Feb-07, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-07, SIN-BKK 2010-Feb-07, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-07, SIN-BKK 2010-Feb-07, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-07, SIN-BKK 2010-Feb-07, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-07, SIN-BKK 2010-Feb-07, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-07, SIN-BKK 2010-Feb-07, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-08

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-08, SIN-BKK, 2010-Feb-08, 08:20:00, 2010-Feb-08, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

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LegCabins:
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Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-08, SIN-BKK 2010-Feb-08, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-08, SIN-BKK 2010-Feb-08, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-08, SIN-BKK 2010-Feb-08, Y, 2, 0, 0, 0, 0, 300, 0,
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*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-08, SIN-BKK 2010-Feb-08, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-08, SIN-BKK 2010-Feb-08, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ11, 2010-Feb-09
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Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-09, SIN-BKK, 2010-Feb-09, 08:20:00, 2010-Feb-09, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-09, SIN-BKK 2010-Feb-09, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
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*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-09, SIN-BKK 2010-Feb-09, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-09, SIN-BKK 2010-Feb-09, Y, 2, 0, 0, 0, 0, 300, 0,
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*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-09, SIN-BKK 2010-Feb-09, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-09, SIN-BKK 2010-Feb-09, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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*****
FlightDate: SQ11, 2010-Feb-10
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*****
Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
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SQL1 2010-Feb-10, SIN-BKK, 2010-Feb-10, 08:20:00, 2010-Feb-10, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL1 2010-Feb-10, SIN-BKK 2010-Feb-10, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL1 2010-Feb-10, SIN-BKK 2010-Feb-10, Y, 1, 0, 0, 0, 0, 300, 0,
SQL1 2010-Feb-10, SIN-BKK 2010-Feb-10, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL1 2010-Feb-10, SIN-BKK 2010-Feb-10, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL1 2010-Feb-10, SIN-BKK 2010-Feb-10, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL1, 2010-Feb-11
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL1 2010-Feb-11, SIN-BKK, 2010-Feb-11, 08:20:00, 2010-Feb-11, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL1 2010-Feb-11, SIN-BKK 2010-Feb-11, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL1 2010-Feb-11, SIN-BKK 2010-Feb-11, Y, 1, 0, 0, 0, 0, 300, 0,
SQL1 2010-Feb-11, SIN-BKK 2010-Feb-11, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL1 2010-Feb-11, SIN-BKK 2010-Feb-11, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL1 2010-Feb-11, SIN-BKK 2010-Feb-11, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQL1, 2010-Feb-12
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-12, SIN-BKK, 2010-Feb-12, 08:20:00, 2010-Feb-12, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-12, SIN-BKK 2010-Feb-12, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-12, SIN-BKK 2010-Feb-12, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-12, SIN-BKK 2010-Feb-12, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-12, SIN-BKK 2010-Feb-12, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-12, SIN-BKK 2010-Feb-12, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-13
*****
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Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-13, SIN-BKK, 2010-Feb-13, 08:20:00, 2010-Feb-13, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-13, SIN-BKK 2010-Feb-13, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-13, SIN-BKK 2010-Feb-13, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-13, SIN-BKK 2010-Feb-13, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-13, SIN-BKK 2010-Feb-13, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-13, SIN-BKK 2010-Feb-13, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-14
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-14, SIN-BKK, 2010-Feb-14, 08:20:00, 2010-Feb-14, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-14, SIN-BKK 2010-Feb-14, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-14, SIN-BKK 2010-Feb-14, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-14, SIN-BKK 2010-Feb-14, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-14, SIN-BKK 2010-Feb-14, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-14, SIN-BKK 2010-Feb-14, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-15

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-15, SIN-BKK, 2010-Feb-15, 08:20:00, 2010-Feb-15, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-15, SIN-BKK 2010-Feb-15, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-15, SIN-BKK 2010-Feb-15, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-15, SIN-BKK 2010-Feb-15, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-15, SIN-BKK 2010-Feb-15, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-15, SIN-BKK 2010-Feb-15, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-16

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity

SQ11 2010-Feb-16, SIN-BKK, 2010-Feb-16, 08:20:00, 2010-Feb-16, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,

SQ11 2010-Feb-16, SIN-BKK 2010-Feb-16, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-16, SIN-BKK 2010-Feb-16, Y, 1, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-16, SIN-BKK 2010-Feb-16, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-16, SIN-BKK 2010-Feb-16, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-16, SIN-BKK 2010-Feb-16, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-17

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity

SQ11 2010-Feb-17, SIN-BKK, 2010-Feb-17, 08:20:00, 2010-Feb-17, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,

SQ11 2010-Feb-17, SIN-BKK 2010-Feb-17, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-17, SIN-BKK 2010-Feb-17, Y, 1, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-17, SIN-BKK 2010-Feb-17, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-17, SIN-BKK 2010-Feb-17, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-17, SIN-BKK 2010-Feb-17, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-18

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
 SQ11 2010-Feb-18, SIN-BKK, 2010-Feb-18, 08:20:00, 2010-Feb-18, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
 SQ11 2010-Feb-18, SIN-BKK 2010-Feb-18, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-18, SIN-BKK 2010-Feb-18, Y, 1, 0, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-18, SIN-BKK 2010-Feb-18, Y, 2, 0, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-18, SIN-BKK 2010-Feb-18, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-18, SIN-BKK 2010-Feb-18, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-19

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity

SQ11 2010-Feb-19, SIN-BKK, 2010-Feb-19, 08:20:00, 2010-Feb-19, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,

SQ11 2010-Feb-19, SIN-BKK 2010-Feb-19, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-19, SIN-BKK 2010-Feb-19, Y, 1, 0, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-19, SIN-BKK 2010-Feb-19, Y, 2, 0, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-19, SIN-BKK 2010-Feb-19, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-19, SIN-BKK 2010-Feb-19, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-20


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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-20, SIN-BKK, 2010-Feb-20, 08:20:00, 2010-Feb-20, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-20, SIN-BKK 2010-Feb-20, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-20, SIN-BKK 2010-Feb-20, Y, 1, 0, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-20, SIN-BKK 2010-Feb-20, Y, 2, 0, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-20, SIN-BKK 2010-Feb-20, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-20, SIN-BKK 2010-Feb-20, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-21
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-21, SIN-BKK, 2010-Feb-21, 08:20:00, 2010-Feb-21, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-21, SIN-BKK 2010-Feb-21, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-21, SIN-BKK 2010-Feb-21, Y, 1, 0, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-21, SIN-BKK 2010-Feb-21, Y, 2, 0, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-21, SIN-BKK 2010-Feb-21, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-21, SIN-BKK 2010-Feb-21, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
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FlightDate: SQ11, 2010-Feb-22

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity

SQ11 2010-Feb-22, SIN-BKK, 2010-Feb-22, 08:20:00, 2010-Feb-22, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,

SQ11 2010-Feb-22, SIN-BKK 2010-Feb-22, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-22, SIN-BKK 2010-Feb-22, Y, 1, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-22, SIN-BKK 2010-Feb-22, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-22, SIN-BKK 2010-Feb-22, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-22, SIN-BKK 2010-Feb-22, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-23

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity

SQ11 2010-Feb-23, SIN-BKK, 2010-Feb-23, 08:20:00, 2010-Feb-23, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,

SQ11 2010-Feb-23, SIN-BKK 2010-Feb-23, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ11 2010-Feb-23, SIN-BKK 2010-Feb-23, Y, 1, 0, 0, 0, 0, 300, 0,

SQ11 2010-Feb-23, SIN-BKK 2010-Feb-23, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,

SQ11 2010-Feb-23, SIN-BKK 2010-Feb-23, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

SQ11 2010-Feb-23, SIN-BKK 2010-Feb-23, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-24

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-24, SIN-BKK, 2010-Feb-24, 08:20:00, 2010-Feb-24, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-24, SIN-BKK 2010-Feb-24, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-24, SIN-BKK 2010-Feb-24, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-24, SIN-BKK 2010-Feb-24, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-24, SIN-BKK 2010-Feb-24, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-24, SIN-BKK 2010-Feb-24, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ11, 2010-Feb-25

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-25, SIN-BKK, 2010-Feb-25, 08:20:00, 2010-Feb-25, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-25, SIN-BKK 2010-Feb-25, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-25, SIN-BKK 2010-Feb-25, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-25, SIN-BKK 2010-Feb-25, Y, 2, 0, 0, 0, 0, 300, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-25, SIN-BKK 2010-Feb-25, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-25, SIN-BKK 2010-Feb-25, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

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*****
*****
FlightDate: SQ11, 2010-Feb-26
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-26, SIN-BKK, 2010-Feb-26, 08:20:00, 2010-Feb-26, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-26, SIN-BKK 2010-Feb-26, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-26, SIN-BKK 2010-Feb-26, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-26, SIN-BKK 2010-Feb-26, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-26, SIN-BKK 2010-Feb-26, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ11 2010-Feb-26, SIN-BKK 2010-Feb-26, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ11, 2010-Feb-27
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ11 2010-Feb-27, SIN-BKK, 2010-Feb-27, 08:20:00, 2010-Feb-27, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ11 2010-Feb-27, SIN-BKK 2010-Feb-27, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ11 2010-Feb-27, SIN-BKK 2010-Feb-27, Y, 1, 0, 0, 0, 0, 300, 0,
SQ11 2010-Feb-27, SIN-BKK 2010-Feb-27, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ11 2010-Feb-27, SIN-BKK 2010-Feb-27, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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SQL1 2010-Feb-27, SIN-BKK 2010-Feb-27, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL1, 2010-Feb-28
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL1 2010-Feb-28, SIN-BKK, 2010-Feb-28, 08:20:00, 2010-Feb-28, 11:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL1 2010-Feb-28, SIN-BKK 2010-Feb-28, Y, 300, 300, 0, 0, 0, 0, 0, 0, 0, 0, 300, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL1 2010-Feb-28, SIN-BKK 2010-Feb-28, Y, 1, 0, 0, 0, 0, 300, 0,
SQL1 2010-Feb-28, SIN-BKK 2010-Feb-28, Y, 2, 0, 0, 0, 0, 300, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL1 2010-Feb-28, SIN-BKK 2010-Feb-28, Y, 1, Y, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL1 2010-Feb-28, SIN-BKK 2010-Feb-28, Y, 2, M, 300 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-15
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-15, SIN-HND, 2010-Jan-15, 09:20:00, 2010-Jan-15, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-15, SIN-HND 2010-Jan-15, Y, 200, 200, 2.082e+121, 5.53287e-48, 5.20268e-90, 0, 1.31346e-47,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Jan-15, SIN-HND 2010-Jan-15, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-15, SIN-HND 2010-Jan-15, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
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SQL2 2010-Jan-15, SIN-HND 2010-Jan-15, Y, 1, Y13856, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-15, SIN-HND 2010-Jan-15, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-16
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-16, SIN-HND, 2010-Jan-16, 09:20:00, 2010-Jan-16, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-16, SIN-HND 2010-Jan-16, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 2.63638e-319, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Jan-16, SIN-HND 2010-Jan-16, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-16, SIN-HND 2010-Jan-16, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Jan-16, SIN-HND 2010-Jan-16, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-16, SIN-HND 2010-Jan-16, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-17
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-17, SIN-HND, 2010-Jan-17, 09:20:00, 2010-Jan-17, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-17, SIN-HND 2010-Jan-17, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 2.39291e-319, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Jan-17, SIN-HND 2010-Jan-17, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-17, SIN-HND 2010-Jan-17, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
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Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-17, SIN-HND 2010-Jan-17, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-17, SIN-HND 2010-Jan-17, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Jan-18
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-18, SIN-HND, 2010-Jan-18, 09:20:00, 2010-Jan-18, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-18, SIN-HND 2010-Jan-18, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 2.14469e-319, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-18, SIN-HND 2010-Jan-18, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-18, SIN-HND 2010-Jan-18, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-18, SIN-HND 2010-Jan-18, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-18, SIN-HND 2010-Jan-18, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Jan-19
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-19, SIN-HND, 2010-Jan-19, 09:20:00, 2010-Jan-19, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-19, SIN-HND 2010-Jan-19, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-19, SIN-HND 2010-Jan-19, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-19, SIN-HND 2010-Jan-19, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
```

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-19, SIN-HND 2010-Jan-19, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-19, SIN-HND 2010-Jan-19, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-20

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-20, SIN-HND, 2010-Jan-20, 09:20:00, 2010-Jan-20, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-20, SIN-HND 2010-Jan-20, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ12 2010-Jan-20, SIN-HND 2010-Jan-20, Y, 1, 0, 0, 0, 0, 200, 0,

SQ12 2010-Jan-20, SIN-HND 2010-Jan-20, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-20, SIN-HND 2010-Jan-20, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-20, SIN-HND 2010-Jan-20, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-21

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-21, SIN-HND, 2010-Jan-21, 09:20:00, 2010-Jan-21, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-21, SIN-HND 2010-Jan-21, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ12 2010-Jan-21, SIN-HND 2010-Jan-21, Y, 1, 0, 0, 0, 0, 200, 0,

SQ12 2010-Jan-21, SIN-HND 2010-Jan-21, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-21, SIN-HND 2010-Jan-21, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-21, SIN-HND 2010-Jan-21, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-22

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-22, SIN-HND, 2010-Jan-22, 09:20:00, 2010-Jan-22, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-22, SIN-HND 2010-Jan-22, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ12 2010-Jan-22, SIN-HND 2010-Jan-22, Y, 1, 0, 0, 0, 0, 200, 0,

SQ12 2010-Jan-22, SIN-HND 2010-Jan-22, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-22, SIN-HND 2010-Jan-22, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-22, SIN-HND 2010-Jan-22, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-23

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-23, SIN-HND, 2010-Jan-23, 09:20:00, 2010-Jan-23, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-23, SIN-HND 2010-Jan-23, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,

SQ12 2010-Jan-23, SIN-HND 2010-Jan-23, Y, 1, 0, 0, 0, 0, 200, 0,

SQ12 2010-Jan-23, SIN-HND 2010-Jan-23, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-23, SIN-HND 2010-Jan-23, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-23, SIN-HND 2010-Jan-23, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-24

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-24, SIN-HND, 2010-Jan-24, 09:20:00, 2010-Jan-24, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-24, SIN-HND 2010-Jan-24, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-24, SIN-HND 2010-Jan-24, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-24, SIN-HND 2010-Jan-24, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-24, SIN-HND 2010-Jan-24, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-24, SIN-HND 2010-Jan-24, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Jan-25

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-25, SIN-HND, 2010-Jan-25, 09:20:00, 2010-Jan-25, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-25, SIN-HND 2010-Jan-25, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-25, SIN-HND 2010-Jan-25, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-25, SIN-HND 2010-Jan-25, Y, 2, 0, 0, 0, 0, 200, 0,

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Subclasses:
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Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-25, SIN-HND 2010-Jan-25, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-25, SIN-HND 2010-Jan-25, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Jan-26
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Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-26, SIN-HND, 2010-Jan-26, 09:20:00, 2010-Jan-26, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-26, SIN-HND 2010-Jan-26, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-26, SIN-HND 2010-Jan-26, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-26, SIN-HND 2010-Jan-26, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-26, SIN-HND 2010-Jan-26, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-26, SIN-HND 2010-Jan-26, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Jan-27
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Jan-27, SIN-HND, 2010-Jan-27, 09:20:00, 2010-Jan-27, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Jan-27, SIN-HND 2010-Jan-27, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-27, SIN-HND 2010-Jan-27, Y, 1, 0, 0, 0, 0, 200, 0,
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SQL2 2010-Jan-27, SIN-HND 2010-Jan-27, Y, 2, 0, 0, 0, 0, 200, 0,
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Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Jan-27, SIN-HND 2010-Jan-27, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-27, SIN-HND 2010-Jan-27, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-28
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-28, SIN-HND, 2010-Jan-28, 09:20:00, 2010-Jan-28, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-28, SIN-HND 2010-Jan-28, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Jan-28, SIN-HND 2010-Jan-28, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-28, SIN-HND 2010-Jan-28, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Jan-28, SIN-HND 2010-Jan-28, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-28, SIN-HND 2010-Jan-28, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-29
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-29, SIN-HND, 2010-Jan-29, 09:20:00, 2010-Jan-29, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-29, SIN-HND 2010-Jan-29, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
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SQL2 2010-Jan-29, SIN-HND 2010-Jan-29, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-29, SIN-HND 2010-Jan-29, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Jan-29, SIN-HND 2010-Jan-29, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-29, SIN-HND 2010-Jan-29, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-30
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-30, SIN-HND, 2010-Jan-30, 09:20:00, 2010-Jan-30, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-30, SIN-HND 2010-Jan-30, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Jan-30, SIN-HND 2010-Jan-30, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Jan-30, SIN-HND 2010-Jan-30, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Jan-30, SIN-HND 2010-Jan-30, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Jan-30, SIN-HND 2010-Jan-30, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Jan-31
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Jan-31, SIN-HND, 2010-Jan-31, 09:20:00, 2010-Jan-31, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Jan-31, SIN-HND 2010-Jan-31, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Jan-31, SIN-HND 2010-Jan-31, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Jan-31, SIN-HND 2010-Jan-31, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Jan-31, SIN-HND 2010-Jan-31, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Jan-31, SIN-HND 2010-Jan-31, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-01
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-01, SIN-HND, 2010-Feb-01, 09:20:00, 2010-Feb-01, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-01, SIN-HND 2010-Feb-01, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-01, SIN-HND 2010-Feb-01, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-01, SIN-HND 2010-Feb-01, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-01, SIN-HND 2010-Feb-01, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-01, SIN-HND 2010-Feb-01, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-02
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-02, SIN-HND, 2010-Feb-02, 09:20:00, 2010-Feb-02, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-02, SIN-HND 2010-Feb-02, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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*****
Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-02, SIN-HND 2010-Feb-02, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-02, SIN-HND 2010-Feb-02, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-02, SIN-HND 2010-Feb-02, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-02, SIN-HND 2010-Feb-02, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-03
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-03, SIN-HND, 2010-Feb-03, 09:20:00, 2010-Feb-03, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-03, SIN-HND 2010-Feb-03, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-03, SIN-HND 2010-Feb-03, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-03, SIN-HND 2010-Feb-03, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-03, SIN-HND 2010-Feb-03, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-03, SIN-HND 2010-Feb-03, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-04
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-04, SIN-HND, 2010-Feb-04, 09:20:00, 2010-Feb-04, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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LegCabins:
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Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-04, SIN-HND 2010-Feb-04, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Feb-04, SIN-HND 2010-Feb-04, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Feb-04, SIN-HND 2010-Feb-04, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Feb-04, SIN-HND 2010-Feb-04, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Feb-04, SIN-HND 2010-Feb-04, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQL2, 2010-Feb-05

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Feb-05, SIN-HND, 2010-Feb-05, 09:20:00, 2010-Feb-05, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Feb-05, SIN-HND 2010-Feb-05, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Feb-05, SIN-HND 2010-Feb-05, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Feb-05, SIN-HND 2010-Feb-05, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Feb-05, SIN-HND 2010-Feb-05, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Feb-05, SIN-HND 2010-Feb-05, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQL2, 2010-Feb-06

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Feb-06, SIN-HND, 2010-Feb-06, 09:20:00, 2010-Feb-06, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Feb-06, SIN-HND 2010-Feb-06, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-06, SIN-HND 2010-Feb-06, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-06, SIN-HND 2010-Feb-06, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-06, SIN-HND 2010-Feb-06, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-06, SIN-HND 2010-Feb-06, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-07

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-07, SIN-HND, 2010-Feb-07, 09:20:00, 2010-Feb-07, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-07, SIN-HND 2010-Feb-07, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-07, SIN-HND 2010-Feb-07, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-07, SIN-HND 2010-Feb-07, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-07, SIN-HND 2010-Feb-07, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-07, SIN-HND 2010-Feb-07, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-08

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-08, SIN-HND, 2010-Feb-08, 09:20:00, 2010-Feb-08, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-08, SIN-HND 2010-Feb-08, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-08, SIN-HND 2010-Feb-08, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-08, SIN-HND 2010-Feb-08, Y, 2, 0, 0, 0, 0, 200, 0,
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Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-08, SIN-HND 2010-Feb-08, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-08, SIN-HND 2010-Feb-08, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-09
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-09, SIN-HND, 2010-Feb-09, 09:20:00, 2010-Feb-09, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-09, SIN-HND 2010-Feb-09, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-09, SIN-HND 2010-Feb-09, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-09, SIN-HND 2010-Feb-09, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-09, SIN-HND 2010-Feb-09, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-09, SIN-HND 2010-Feb-09, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-10
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-10, SIN-HND, 2010-Feb-10, 09:20:00, 2010-Feb-10, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
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LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-10, SIN-HND 2010-Feb-10, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-10, SIN-HND 2010-Feb-10, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-10, SIN-HND 2010-Feb-10, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-10, SIN-HND 2010-Feb-10, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-10, SIN-HND 2010-Feb-10, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-11
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-11, SIN-HND, 2010-Feb-11, 09:20:00, 2010-Feb-11, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-11, SIN-HND 2010-Feb-11, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-11, SIN-HND 2010-Feb-11, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-11, SIN-HND 2010-Feb-11, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-11, SIN-HND 2010-Feb-11, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-11, SIN-HND 2010-Feb-11, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-12
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-12, SIN-HND, 2010-Feb-12, 09:20:00, 2010-Feb-12, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-12, SIN-HND 2010-Feb-12, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:

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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-12, SIN-HND 2010-Feb-12, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-12, SIN-HND 2010-Feb-12, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-12, SIN-HND 2010-Feb-12, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-12, SIN-HND 2010-Feb-12, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-13
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-13, SIN-HND, 2010-Feb-13, 09:20:00, 2010-Feb-13, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-13, SIN-HND 2010-Feb-13, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
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Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-13, SIN-HND 2010-Feb-13, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-13, SIN-HND 2010-Feb-13, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-13, SIN-HND 2010-Feb-13, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-13, SIN-HND 2010-Feb-13, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
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FlightDate: SQ12, 2010-Feb-14
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Leg-Dates:
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Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-14, SIN-HND, 2010-Feb-14, 09:20:00, 2010-Feb-14, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
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LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-14, SIN-HND 2010-Feb-14, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
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Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-14, SIN-HND 2010-Feb-14, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-14, SIN-HND 2010-Feb-14, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-14, SIN-HND 2010-Feb-14, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-14, SIN-HND 2010-Feb-14, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-15

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-15, SIN-HND, 2010-Feb-15, 09:20:00, 2010-Feb-15, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-15, SIN-HND 2010-Feb-15, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-15, SIN-HND 2010-Feb-15, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-15, SIN-HND 2010-Feb-15, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-15, SIN-HND 2010-Feb-15, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-15, SIN-HND 2010-Feb-15, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-16

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-16, SIN-HND, 2010-Feb-16, 09:20:00, 2010-Feb-16, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-16, SIN-HND 2010-Feb-16, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-16, SIN-HND 2010-Feb-16, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-16, SIN-HND 2010-Feb-16, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-16, SIN-HND 2010-Feb-16, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-16, SIN-HND 2010-Feb-16, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-17

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-17, SIN-HND, 2010-Feb-17, 09:20:00, 2010-Feb-17, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-17, SIN-HND 2010-Feb-17, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-17, SIN-HND 2010-Feb-17, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-17, SIN-HND 2010-Feb-17, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-17, SIN-HND 2010-Feb-17, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-17, SIN-HND 2010-Feb-17, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-18

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-18, SIN-HND, 2010-Feb-18, 09:20:00, 2010-Feb-18, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-18, SIN-HND 2010-Feb-18, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

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Buckets:
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Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
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SegmentCabins:
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Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-18, SIN-HND 2010-Feb-18, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-18, SIN-HND 2010-Feb-18, Y, 2, 0, 0, 0, 0, 200, 0,
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Subclasses:
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Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-18, SIN-HND 2010-Feb-18, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-18, SIN-HND 2010-Feb-18, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
```

```
*****
*****
FlightDate: SQ12, 2010-Feb-19
*****
*****
```

```
Leg-Dates:
-----
```

```
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-19, SIN-HND, 2010-Feb-19, 09:20:00, 2010-Feb-19, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
```

```
LegCabins:
-----
```

```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-19, SIN-HND 2010-Feb-19, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
```

```
*****
*****
Buckets:
-----
```

```
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
```

```
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-19, SIN-HND 2010-Feb-19, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-19, SIN-HND 2010-Feb-19, Y, 2, 0, 0, 0, 0, 200, 0,
```

```
*****
*****
Subclasses:
-----
```

```
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-19, SIN-HND 2010-Feb-19, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-19, SIN-HND 2010-Feb-19, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
```

```
*****
*****
FlightDate: SQ12, 2010-Feb-20
*****
*****
```

```
Leg-Dates:
-----
```

```
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-20, SIN-HND, 2010-Feb-20, 09:20:00, 2010-Feb-20, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
```

```
LegCabins:
-----
```

```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
```

```
SQL2 2010-Feb-20, SIN-HND 2010-Feb-20, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Feb-20, SIN-HND 2010-Feb-20, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Feb-20, SIN-HND 2010-Feb-20, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Feb-20, SIN-HND 2010-Feb-20, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Feb-20, SIN-HND 2010-Feb-20, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Feb-21
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Feb-21, SIN-HND, 2010-Feb-21, 09:20:00, 2010-Feb-21, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Feb-21, SIN-HND 2010-Feb-21, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Feb-21, SIN-HND 2010-Feb-21, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Feb-21, SIN-HND 2010-Feb-21, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Feb-21, SIN-HND 2010-Feb-21, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Feb-21, SIN-HND 2010-Feb-21, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQL2, 2010-Feb-22
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQL2 2010-Feb-22, SIN-HND, 2010-Feb-22, 09:20:00, 2010-Feb-22, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
```



```
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-22, SIN-HND 2010-Feb-22, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-22, SIN-HND 2010-Feb-22, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-22, SIN-HND 2010-Feb-22, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-22, SIN-HND 2010-Feb-22, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-22, SIN-HND 2010-Feb-22, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-23
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-23, SIN-HND, 2010-Feb-23, 09:20:00, 2010-Feb-23, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-23, SIN-HND 2010-Feb-23, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-23, SIN-HND 2010-Feb-23, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-23, SIN-HND 2010-Feb-23, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-23, SIN-HND 2010-Feb-23, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-23, SIN-HND 2010-Feb-23, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-24
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-24, SIN-HND, 2010-Feb-24, 09:20:00, 2010-Feb-24, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
```

```
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-24, SIN-HND 2010-Feb-24, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-24, SIN-HND 2010-Feb-24, Y, 1, 0, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-24, SIN-HND 2010-Feb-24, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-24, SIN-HND 2010-Feb-24, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-24, SIN-HND 2010-Feb-24, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-25
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-25, SIN-HND, 2010-Feb-25, 09:20:00, 2010-Feb-25, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-25, SIN-HND 2010-Feb-25, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-25, SIN-HND 2010-Feb-25, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-25, SIN-HND 2010-Feb-25, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-25, SIN-HND 2010-Feb-25, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-25, SIN-HND 2010-Feb-25, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****
*****
FlightDate: SQ12, 2010-Feb-26
*****
*****
Leg-Dates:
-----
Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-26, SIN-HND, 2010-Feb-26, 09:20:00, 2010-Feb-26, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,
*****
*****
```

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-26, SIN-HND 2010-Feb-26, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-26, SIN-HND 2010-Feb-26, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-26, SIN-HND 2010-Feb-26, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-26, SIN-HND 2010-Feb-26, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-26, SIN-HND 2010-Feb-26, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-27

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-27, SIN-HND, 2010-Feb-27, 09:20:00, 2010-Feb-27, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

LegCabins:

Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQ12 2010-Feb-27, SIN-HND 2010-Feb-27, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,

Buckets:

Flight, Leg, Cabin, Yield, AU/SI, SS, AV,

SegmentCabins:

Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQ12 2010-Feb-27, SIN-HND 2010-Feb-27, Y, 1, 0, 0, 0, 0, 200, 0,
SQ12 2010-Feb-27, SIN-HND 2010-Feb-27, Y, 2, 0, 0, 0, 0, 200, 0,

Subclasses:

Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQ12 2010-Feb-27, SIN-HND 2010-Feb-27, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQ12 2010-Feb-27, SIN-HND 2010-Feb-27, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,

FlightDate: SQ12, 2010-Feb-28

Leg-Dates:

Flight, Leg, BoardDate, BoardTime, OffDate, OffTime, Date Offset, Time Offset, Elapsed, Distance, Capacity
SQ12 2010-Feb-28, SIN-HND, 2010-Feb-28, 09:20:00, 2010-Feb-28, 12:00:00, 07:40:00, 0, -05:00:00, 6300, 0,

```

*****
LegCabins:
-----
Flight, Leg, Cabin, OffedCAP, PhyCAP, RgdADJ, AU, UPR, SS, Staff, WL, Group, CommSpace, AvPool, Avl, NAV,
SQL2 2010-Feb-28, SIN-HND 2010-Feb-28, Y, 200, 200, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 200, 9, 0, 0, 0, 0, 0,
*****
*****
Buckets:
-----
Flight, Leg, Cabin, Yield, AU/SI, SS, AV,
*****
*****
SegmentCabins:
-----
Flight, Segment, Cabin, FF, Bkgs, MIN, UPR, CommSpace, AvPool, BP,
SQL2 2010-Feb-28, SIN-HND 2010-Feb-28, Y, 1, 0, 0, 0, 0, 200, 0,
SQL2 2010-Feb-28, SIN-HND 2010-Feb-28, Y, 2, 0, 0, 0, 0, 200, 0,
*****
*****
Subclasses:
-----
Flight, Segment, Cabin, FF, Subclass, MIN/AU (Prot), Nego, NS%, OB%, Bkgs, GrpBks (pdg), StfBkgs, WLBkgs,
SQL2 2010-Feb-28, SIN-HND 2010-Feb-28, Y, 1, Y, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
SQL2 2010-Feb-28, SIN-HND 2010-Feb-28, Y, 2, M, 200 (0), 0, 0, 0, 0, 0 (0), 0, 0, 0, 0, 0, 0,
*****

```

12.12.6 Exploring the Predefined BOM Tree

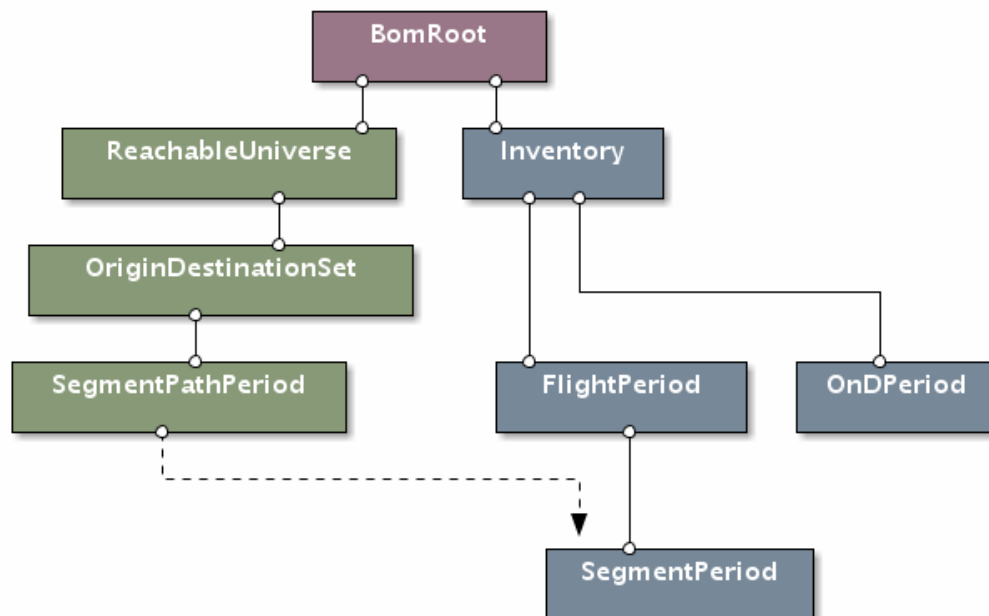


Figure 2: AirSched BOM tree

AirSched predefines a BOM (Business Object Model) tree specific to the airline IT arena.

12.12.6.1 Airline Network BOM Tree

- [AIRSCHED::ReachableUniverse](#)
- [AIRSCHED::OriginDestinationSet](#)
- [AIRSCHED::SegmentPathPeriod](#)

12.12.6.2 Airline Schedule BOM Tree

- `stdair::Inventory`
- `stdair::FlightPeriod`
- `stdair::SegmentPeriod`
- `stdair::OnDPeriod`

12.12.7 Extending the BOM Tree

12.12.8 The travel solution calculation procedure

The project AirSched aims at calculating a list of travel solutions for every incoming booking request.

12.13 Supported Systems

12.13.1 Table of Contents

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 - * [Gentoo Linux with ACML](#)
 - * [Gentoo Linux with ATLAS](#)
 - * [Gentoo Linux with MKL](#)
 - * [Gentoo Linux with NetLib's BLAS and LAPACK](#)
 - * [Red Hat Enterprise Linux with AirSched External](#)
 - * [SUSE Linux 10.0 with NetLib's BLAS and LAPACK](#)
 - * [SUSE Linux 10.0 with MKL](#)
 - [Windows Systems](#)
 - * [Microsoft Windows XP with Cygwin](#)
 - * [Microsoft Windows XP with Cygwin and ATLAS](#)
 - * [Microsoft Windows XP with Cygwin and ACML](#)
 - * [Microsoft Windows XP with MinGW, MSYS and ACML](#)
 - * [Microsoft Windows XP with MinGW, MSYS and AirSched External](#)
 - * [Microsoft Windows XP with MS Visual C++ and Intel MKL](#)
 - [Unix Systems](#)
 - * [SunOS 5.9 with AirSched External](#)

- [AirSched 3.9.1](#)
- [AirSched 3.9.0](#)
- [AirSched 3.8.1](#)

12.13.2 Introduction

This page is intended to provide a list of AirSched supported systems, i.e. the systems on which configuration, installation and testing process of the AirSched library has been successful. Results are grouped based on minor release number. Therefore, only the latest tests for bug-fix releases are included. Besides, the information on this page is divided into sections dependent on the operating system.

Where necessary, some extra information is given for each tested configuration, e.g. external libraries installed, configuration commands used, etc.

If you manage to compile, install and test the AirSched library on a system not mentioned below, please let us know, so we could update this database.

12.13.3 AirSched 0.2.x

12.13.3.1 Linux Systems

Fedora Core 4 with ATLAS

- **Platform:** Intel Pentium 4
- **Operating System:** Fedora Core 4 (x86)
- **Compiler:** g++ (GCC) 4.0.2 20051125
- **AirSched release:** 0.2.0
- **External Libraries:** From FC4 distribution:
 - `fftw3.i386-3.0.1-3`
 - `fftw3-devel.i386-3.0.1-3`
 - `atlas-sse2.i386-3.6.0-8.fc4`
 - `atlas-sse2-devel.i386-3.6.0-8.fc4`
 - `blas.i386-3.0-35.fc4`
 - `lapack.i386-3.0-35.fc4`
- **Tests Status:** All tests PASSED
- **Comments:** AirSched configured with:

```
% CXXFLAGS="-O3 -pipe -march=pentium4" ./configure
```
- **Date:** March 7, 2006
- **Tester:** Tony Ottosson

Gentoo Linux with ACML

- **Platform:** AMD Sempron 3000+
- **Operating System:** Gentoo Linux 2006.0 (x86 arch)
- **Compiler(s):** g++ (GCC) 3.4.5
- **AirSched release:** 0.2.1
- **External Libraries:** Compiled and installed from portage tree:

```
- sci-libs/acml-3.0.0
```

- **Tests Status:** All tests PASSED
- **Comments:** BLAS and LAPACK libs set by using the following system commands:

```
% eselect blas set ACML  
% eselect lapack set ACML
```

AirSched configured with:

```
% export CPPFLAGS="-I/usr/include/acml"  
% ./configure --with-blas="-lblas"
```

- **Date:** March 31, 2006
- **Tester:** Adam Piatyszek (ediap)

Gentoo Linux with ATLAS

- **Platform:** Intel Pentium M Centrino
- **Operating System:** Gentoo Linux 2006.0 (x86)
- **Compiler:** g++ (GCC) 3.4.5
- **AirSched release:** 0.2.1
- **External Libraries:** Compiled and installed from portage tree:

```
- sci-libs/fftw-3.1  
- sci-libs/blas-atlas-3.6.0-r1  
- sci-libs/lapack-atlas-3.6.0
```

- **Tests Status:** All tests PASSED
- **Comments:** BLAS and LAPACK libs set by using the following system commands:

```
% eselect blas set ATLAS  
% eselect lapack set ATLAS
```

AirSched configured with:

```
% ./configure --with-blas="-lblas"
```

- **Date:** March 31, 2006
- **Tester:** Adam Piatyszek (ediap)

Gentoo Linux with MKL

- **Platform:** Intel Pentium M Centrino
- **Operating System:** Gentoo Linux 2006.0 (x86 arch)
- **Compiler:** g++ (GCC) 3.4.5
- **AirSched release:** 0.2.0
- **External Libraries:** Intel Math Kernel Library (MKL) 8.0.1 installed manually in the following directory: `/opt/intel/mkl/8.0.1`
- **Tests Status:** All tests PASSED
- **Comments:** AirSched configured using the following commands:

```
% export LDFLAGS="-L/opt/intel/mkl/8.0.1/lib/32"
% export CPPFLAGS="-I/opt/intel/mkl/8.0.1/include"
% ./configure
```

- **Date:** February 28, 2006
- **Tester:** Adam Piatyszek (ediap)

Gentoo Linux with NetLib's BLAS and LAPACK

- **Platform:** Intel Pentium M Centrino
- **Operating System:** Gentoo Linux 2006.0 (x86)
- **Compiler:** g++ (GCC) 3.4.5
- **AirSched release:** 0.2.1
- **External Libraries:** Compiled and installed from portage tree:
 - `sci-libs/fftw-3.1`
 - `sci-libs/blas-reference-19940131-r2`
 - `sci-libs/cblas-reference-20030223`
 - `sci-libs/lapack-reference-3.0-r2`
- **Tests Status:** All tests PASSED
- **Comments:** BLAS and LAPACK libs set by using the following system commands:

```
% blas-config reference
% lapack-config reference
```

AirSched configured with:

```
% ./configure --with-blas="-lblas"
```

- **Date:** March 31, 2006
- **Tester:** Adam Piatyszek (ediap)

Red Hat Enterprise Linux with AirSched External

- **Platform:** Intel Pentium 4
- **Operating System:** Red Hat Enterprise Linux AS release 4 (Nahant Update 2)
- **Compiler:** g++ (GCC) 3.4.4 20050721 (Red Hat 3.4.4-2)
- **AirSched release:** 0.2.0
- **External Libraries:** BLAS, CBLAS, LAPACK and FFTW libraries from AirSched External 2.1.1 package
- **Tests Status:** All tests PASSED
- **Date:** March 7, 2006
- **Tester:** Erik G. Larsson

SUSE Linux 10.0 with NetLib's BLAS and LAPACK

- **Platform:** Intel Pentium 4 CPU 3.20GHz (64-bit)
- **Operating System:** SUSE Linux 10.0 (x86_64)
- **Compiler(s):** g++ (GCC) 4.0.2
- **AirSched release:** 0.2.0
- **External Libraries:** BLAS, LAPACK and FFTW libraries installed from OpenSuse 10.0 RPM repository:
 - blas-3.0-926
 - lapack-3.0-926
 - fftw3-3.0.1-114
 - fftw3-threads-3.0.1-114
 - fftw3-devel-3.0.1-114
- **Tests Status:** All tests PASSED
- **Comments:** AirSched configured with:

```
% export CXXFLAGS="-m64 -march=nocona -O3 -pipe"
% ./configure --with-lapack="/usr/lib64/liblapack.so.3"
```
- **Date:** March 1, 2006
- **Tester:** Adam Piatyszek (ediap)

SUSE Linux 10.0 with MKL

- **Platform:** Intel Pentium 4 CPU 3.20GHz (64-bit)
- **Operating System:** SUSE Linux 10.0 (x86_64)
- **Compiler(s):** g++ (GCC) 4.0.2
- **AirSched release:** 0.2.0
- **External Libraries:** Intel Math Kernel Library (MKL) 8.0.1 installed manually in the following directory: /opt/intel/mkl/8.0.1
- **Tests Status:** All tests PASSED
- **Comments:** AirSched configured with:

```
% export CXXFLAGS="-m64 -march=nocona -O3 -pipe"  
% export LDFLAGS="-L/opt/intel/mkl/8.0.1/lib/em64t"  
% export CPPFLAGS="-I/opt/intel/mkl/8.0.1/include"  
% ./configure
```
- **Date:** March 1, 2006
- **Tester:** Adam Piatyszek (ediap)

12.13.3.2 Windows Systems**Microsoft Windows XP with Cygwin**

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2, Cygwin 1.5.19-4
- **Compiler(s):** g++ (GCC) 3.4.4 (cygming special)
- **AirSched release:** 0.2.1
- **External Libraries:** Installed from Cygwin's repository:
 - fftw-3.0.1-2
 - fftw-dev-3.0.1-1
 - lapack-3.0-4
- **Tests Status:** All tests PASSED
- **Comments:** Only static library can be built. AirSched configured with:

```
% ./configure
```
- **Date:** March 31, 2006
- **Tester:** Adam Piatyszek (ediap)

Microsoft Windows XP with Cygwin and ATLAS

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2, Cygwin 1.5.19-4
- **Compiler(s):** g++ (GCC) 3.4.4 (cygming special)
- **AirSched release:** 0.2.1
- **External Libraries:** Installed from Cygwin's repository:

```
- fftw-3.0.1-2  
- fftw-dev-3.0.1-1
```

ATLAS BLAS and LAPACK libraries from AirSched External 2.1.1 package configured using:

```
% ./configure --enable-atlas --disable-fftw
```

- **Tests Status:** All tests PASSED
- **Comments:** Only static library can be built. AirSched configured with:

```
% export LDFLAGS="-L/usr/local/lib"  
% ./configure
```

- **Date:** March 31, 2006
- **Tester:** Adam Piatyszek (ediap)

Microsoft Windows XP with Cygwin and ACML

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2, Cygwin 1.5.19-4
- **Compiler(s):** g++ (GCC) 3.4.4 (cygming special)
- **AirSched release:** 0.2.2
- **External Libraries:** ACML version 3.1.0 (acml3.1.0-32-win32-g77.exe) installed into a default directory, i.e. "c:\Program Files\AMD\acml3.1.0"
- **Tests Status:** All tests PASSED
- **Comments:** Only static library can be built. AirSched configured with:

```
% export LDFLAGS="-L/cygdrive/c/Progra~1/AMD/acml3.1.0/gnu32/lib"  
% export CPPFLAGS="-I/cygdrive/c/Progra~1/AMD/acml3.1.0/gnu32/include"  
% ./configure --enable-debug
```

- **Date:** May 15, 2006
- **Tester:** Adam Piatyszek (ediap)

Microsoft Windows XP with MinGW, MSYS and ACML

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2, MinGW 5.0.2, MSYS 1.0.10
- **Compiler(s):** g++ (GCC) 3.4.4 (mingw special)
- **AirSched release:** 0.2.2
- **External Libraries:** ACML version 3.1.0 (acml3.1.0-32-win32-g77.exe) installed into a default directory, i.e. "c:\Program Files\AMD\acml3.1.0"
- **Tests Status:** All tests PASSED
- **Comments:** Only static library can be built. AirSched configured with:

```
% export LDFLAGS="-L/c/Progra~1/AMD/acml3.1.0/gnu32/lib"
% export CPPFLAGS="-I/c/Progra~1/AMD/acml3.1.0/gnu32/include"
% ./configure --enable-debug
```

- **Date:** May 15, 2006
- **Tester:** Adam Piatyszek (ediap)

Microsoft Windows XP with MinGW, MSYS and AirSched External

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2, MinGW 5.0.2, MSYS 1.0.10
- **Compiler(s):** g++ (GCC) 3.4.4 (mingw special)
- **AirSched release:** 0.2.5
- **External Libraries:** BLAS, CBLAS, LAPACK and FFTW libraries from AirSched External 2.2.0 package
- **Tests Status:** All tests PASSED
- **Comments:** Only static library can be built. AirSched configured with:

```
% export LDFLAGS="-L/usr/local/lib"
% export CPPFLAGS="-I/usr/local/include"
% export CXXFLAGS="-Wall -O3 -march=athlon-tbird -pipe"
% ./configure --disable-html-doc
```

- **Date:** August 11, 2006
- **Tester:** Adam Piatyszek (ediap)

Microsoft Windows XP with MS Visual C++ and Intel MKL

- **Platform:** AMD Sempron 3000+
- **Operating System:** Microsoft Windows XP SP2
- **Compiler(s):** Microsoft Visual C++ 2005 .NET
- **AirSched release:** 0.2.5
- **External Libraries:** Intel Math Kernel Library (MKL) 8.1 installed manually in the following directory: "C:\Program Files\Intel\MKL\8.1"
- **Tests Status:** Not fully tested. Some AirSched based programs compiled and run with success.
- **Comments:** Only static library can be built. AirSched built by opening the "win32\airsched.vcproj" project file in MSVC++ and executing "Build → Build Solution" command from menu.
- **Date:** August 11, 2006
- **Tester:** Adam Piatyszek (ediap)

12.13.3.3 Unix Systems**SunOS 5.9 with AirSched External**

- **Platform:** SUNW, Sun-Blade-100 (SPARC)
- **Operating System:** SunOS 5.9 Generic_112233-10
- **Compiler(s):** g++ (GCC) 3.4.5
- **AirSched release:** 0.2.2
- **External Libraries:** BLAS, CBLAS, LAPACK and FFTW libraries from AirSched External 2.1.1 package. The following configuration command has been used:

```
% export CFLAGS="-mcpu=ultrasparc -O2 -pipe -funroll-all-loops"  
% ./configure
```

- **Tests Status:** All tests PASSED
- **Comments:** AirSched configured with:

```
% export LDFLAGS="-L/usr/local/lib"  
% export CPPFLAGS="-I/usr/local/include"  
% export CXXFLAGS="-mcpu=ultrasparc -O2 -pipe"  
% ./configure --enable-debug
```

- **Date:** May 15, 2006
- **Tester:** Adam Piatyszek (ediap)

12.14 AirSched Supported Systems (Previous Releases)

12.14.1 AirSched 3.9.1

12.14.2 AirSched 3.9.0

12.14.3 AirSched 3.8.1

12.15 Tutorials

12.15.1 Table of Contents

- [Preparing the AirSched Project for Development](#)
- [Your first networkBuilde](#)
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- [Network building with an input file](#)
 - [How to build a network input file?](#)
 - [Building the BOM tree with an input file](#)
 - [Result of the Batch Program](#)

12.15.2 Preparing the AirSched Project for Development

The source code for these examples can be found in the `batches` and `test/airsched` directories. They are compiled along with the rest of the `AirSched` project. See the [Users Guide](#) for more details on how to build the `AirSched` project.

12.15.3 Your first networkBuilde

12.15.3.1 Summary of the different steps All the steps below can be found in the same order in the batch `AirSched.cpp` program.

First, we instantiate the `AIRSCHEM_Service` object:

Then, we construct a default sample list of travel solutions and a default booking request (as mentioned in `ug_procedure_bookingrequest` and `ug_procedure_travelsolution` parts):

```
stdair::TravelSolutionList_T lTravelSolutionList;  
airschedService.buildSegmentPathList (lTravelSolutionList, lBookingRequest);
```

For basic use, the default BOM tree can be built using:

The main step is the network building (see [The travel solution calculation procedure](#)):

12.15.3.2 Result of the Batch Program When the `AirSched.cpp` program is run (with the `-b` option), the log output file should look like:

What is interesting is to compare the travel solution list (here reduced to a single travel solution) displayed before:

and after the network building:

Between the two groups of dashes, we can see that a network option structure has been added by the network builder: the price is 450 EUR for the Y class, the ticket is refundable but there are exchange fees and the customer must stay over on saturday night.

Let's return to our default BOM tree display: the only network rule stored was a match for the travel solution into consideration (same origin airport, same destination airport, flight date included in the network rule date range, same airline "BA", ...).

By looking at the network rule trip type "RT", we can guess we face a round trip network: that means the price given in the default bom tree construction in `stdair::CmdBomManager.hpp` has been divided by 2 because we are considering either an inbound trip or an outbound one.

12.15.4 Network building with an input file

12.15.4.1 How to build a network input file? The objective here is to build a network input file to network build the default travel solution list built using:

This travel solution list, reduced to a singleton, can be displayed as done before:

We deduce:

- we need a network rule whose origin-destination couple is "LHR, SYD".
- the date range must include the date "2011-06-10".
- the time range must include the time "21:45".
- the airline operating is "BA", so it must be the airline pricing.

We can deduce a part of our network rule file :

```
// Fares: fare ID; OriginCity; DestinationCity; TripType; DateRangeStart; DateRangeEnd; DepartureTimeRange
// Segment: AirlineCode; Class;
1; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; ???; ?; ??; ?; ?; ?; ?; ?; ?; ?; BA; ?;
```

We have no information about stay duration and advance purchase (such information are contained into the booking request): so let us put "0" to embrace all the requests possible.

No information for the point-of-sale and the channel too: let us consider all the channels ("IN", "DN", "IF" and "DF") and all the points of sale (the origin "LHR", the destination "SYD" and the rest-of-the-world "ROW") existing. To access this information, we could look into the default booking request.

The input file is now:

```
// Fares: fare ID; OriginCity; DestinationCity; TripType; DateRangeStart; DateRangeEnd; DepartureTimeRange
// Segment: AirlineCode; Class;
1; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; ?; IN; 0; ?; ?; ?; 0; ????; BA; ?;
2; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; ?; IF; 0; ?; ?; ?; 0; ????; BA; ?;
3; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; ?; DN; 0; ?; ?; ?; 0; ????; BA; ?;
4; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; ?; DF; 0; ?; ?; ?; 0; ????; BA; ?;
5; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; ?; IN; 0; ?; ?; ?; 0; ????; BA; ?;
6; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; ?; IF; 0; ?; ?; ?; 0; ????; BA; ?;
7; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; ?; DN; 0; ?; ?; ?; 0; ????; BA; ?;
8; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; ?; DF; 0; ?; ?; ?; 0; ????; BA; ?;
9; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; ?; IN; 0; ?; ?; ?; 0; ????; BA; ?;
10; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; ?; IF; 0; ?; ?; ?; 0; ????; BA; ?;
11; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; ?; DN; 0; ?; ?; ?; 0; ????; BA; ?;
12; LHR; SYD; ??; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; ?; DF; 0; ?; ?; ?; 0; ????; BA; ?;
```

Let us say we have just the Economy cabin "Y" and British Airways prices ticket for class "Y".

No information about the trip type, so we duplicate all the network rules for both type: one-way "OW" and round-trip "RT" (to access this information, we could look to the default booking request).

The network options are all set to a default value "T" (meaning true) and the network values are chosen to be all distinct.

We obtain:

```
// Fares: fare ID; OriginCity; DestinationCity; TripType; DateRangeStart; DateRangeEnd; DepartureTimeRange
// Segment: AirlineCode; Class;
1; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; IN; 0; T; T; T; 0; 50; BA; Y;
2; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; IF; 0; T; T; T; 0; 150; BA; Y;
3; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; DN; 0; T; T; T; 0; 250; BA; Y;
4; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; DF; 0; T; T; T; 0; 350; BA; Y;
5; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; IN; 0; T; T; T; 0; 450; BA; Y;
6; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; IF; 0; T; T; T; 0; 550; BA; Y;
7; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; DN; 0; T; T; T; 0; 650; BA; Y;
8; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; DF; 0; T; T; T; 0; 750; BA; Y;
9; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; IN; 0; T; T; T; 0; 850; BA; Y;
10; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; IF; 0; T; T; T; 0; 950; BA; Y;
11; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; DN; 0; T; T; T; 0; 1050; BA; Y;
12; LHR; SYD; OW; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; DF; 0; T; T; T; 0; 1150; BA; Y;
13; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; IN; 0; T; T; T; 0; 90; BA; Y;
14; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; IF; 0; T; T; T; 0; 190; BA; Y;
15; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; DN; 0; T; T; T; 0; 290; BA; Y;
16; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; LHR; Y; DF; 0; T; T; T; 0; 390; BA; Y;
17; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; IN; 0; T; T; T; 0; 490; BA; Y;
18; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; IF; 0; T; T; T; 0; 590; BA; Y;
19; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; DN; 0; T; T; T; 0; 690; BA; Y;
20; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; SYD; Y; DF; 0; T; T; T; 0; 790; BA; Y;
21; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; IN; 0; T; T; T; 0; 890; BA; Y;
22; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; IF; 0; T; T; T; 0; 990; BA; Y;
23; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; DN; 0; T; T; T; 0; 1090; BA; Y;
24; LHR; SYD; RT; 2011-01-01; 2011-12-31; 00:00; 23:59; ROW; Y; DF; 0; T; T; T; 0; 1190; BA; Y;
```

12.15.4.2 Building the BOM tree with an input file The steps are the same as before [Summary of the different steps](#) except the bom tree must be built using the network input file :

12.15.4.3 Result of the Batch Program When the `AirSched.cpp` program is run with the `-f` option linking with the file built just above:

```
~/AirSched -f ~/<YourFileName>.csv
```

the last lines of the log output should look like:

```
[D]~/AirSchedgit/AirSched/batches/AirSched.cpp:223: Travel solutions:
  [0] [0] BA, 9, 2011-06-10, LHR, SYD, 21:45 --- Y, 145, 1 1 1 ---
```

We have just one network option added to the travel solution. We can deduce from the price value 145 that the network builder used the network rule number 15 to price the travel solution. We have an inbound or outbound trip of a round trip: the total price 290 has been divided by 2.

12.16 Command-Line Test to Demonstrate How To Test the AirSched Project

```

*/
// ////////////////////////////////////////
// Import section
// ////////////////////////////////////////
// STL
#include <sstream>
#include <fstream>
#include <string>
// Boost Unit Test Framework (UTF)
#define BOOST_TEST_DYN_LINK
#define BOOST_TEST_MAIN
#define BOOST_TEST_MODULE InventoryTestSuite
#include <boost/test/unit_test.hpp>
// Boost Date-Time
#include <boost/date_time/gregorian/gregorian.hpp>
// StdAir
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/basic/BasLogParams.hpp>
#include <stdair/basic/BasDBParams.hpp>
#include <stdair/basic/BasFileMgr.hpp>
#include <stdair/bom/TravelSolutionStruct.hpp>
#include <stdair/bom/BookingRequestStruct.hpp>
#include <stdair/service/Logger.hpp>
// AirSched
#include <airsched/AIRSCHED_Types.hpp>
#include <airsched/AIRSCHED_Service.hpp>
#include <airsched/config/airsched-paths.hpp>

namespace boost_utf = boost::unit_test;

// (Boost) Unit Test XML Report
std::ofstream utfReportStream ("AirlineScheduleTestSuite_utfresults.xml");

struct UnitTestConfig {
    UnitTestConfig() {
        boost_utf::unit_test_log.set_stream (utfReportStream);
        boost_utf::unit_test_log.set_format (boost_utf::XML);
        boost_utf::unit_test_log.set_threshold_level (boost_utf::log_test_units);
        //boost_utf::unit_test_log.set_threshold_level (boost_utf::log_successful_tests);
    }

    ~UnitTestConfig() {
    }
}

```

```

};

// //////////////////////////////////////
const unsigned int testScheduleHelper (const unsigned short iTestFlag,
                                       const stdair::Filename_T& iScheduleInputFilename,
                                       const stdair::Filename_T& iODInputFilename,
                                       const bool isBuiltin,
                                       const bool isWithOnD) {

    // Output log File
    std::ostringstream oStr;
    oStr << "AirlineScheduleTestSuite_" << iTestFlag << ".log";
    const stdair::Filename_T lLogFilename (oStr.str());

    // Set the log parameters
    std::ofstream logOutputFile;
    // Open and clean the log outputfile
    logOutputFile.open (lLogFilename.c_str());
    logOutputFile.clear();

    // Instantiate the AirSched service
    const stdair::BasLogParams lLogParams (stdair::LOG::DEBUG, logOutputFile);
    AIRSCHED::AIRSCHED_Service airschedService (lLogParams);

    stdair::AirportCode_T lOrigin;
    stdair::AirportCode_T lDestination;
    stdair::AirportCode_T lPOS;
    stdair::Date_T lPreferredDepartureDate;;
    stdair::Date_T lRequestDate;

    // Check whether or not a (CSV) input file should be read
    if (isBuiltin == true) {

        // Build the default sample BOM tree (filled with schedules)
        airschedService.buildSampleBom();

        lOrigin = "SIN";
        lDestination = "BKK";
        lPOS = "SIN";
        lPreferredDepartureDate = boost::gregorian::from_string ("2010/02/08");
        lRequestDate = boost::gregorian::from_string ("2010/01/21");

    } else {

        if (isWithOnD == false) {

            // Build the BOM tree from parsing input files
            const stdair::ScheduleFilePath lScheduleFilePath (iScheduleInputFilename);
            airschedService.parseAndLoad (lScheduleFilePath);

            lOrigin = "NCE";
            lDestination = "BKK";
            lPOS = "NCE";
            lPreferredDepartureDate = boost::gregorian::from_string ("2007/04/21");
            lRequestDate = boost::gregorian::from_string ("2007/03/21");

        } else {

            // Build the BOM tree from parsing input files
            const stdair::ScheduleFilePath lScheduleFilePath (iScheduleInputFilename);
            const stdair::ODFilePath lODFilePath (iODInputFilename);
            airschedService.parseAndLoad (lScheduleFilePath,
                                         lODFilePath);

            lOrigin = "SIN";
            lDestination = "BKK";
            lPOS = "SIN";

```

```

        lPreferredDepartureDate = boost::gregorian::from_string ("2009/02/02");
        lRequestDate = boost::gregorian::from_string ("2009/01/01");
    }

}

// Create a booking request structure
const stdair::Duration_T lRequestTime (boost::posix_time::hours(8));
const stdair::DateTime_T lRequestDateTime (lRequestDate, lRequestTime);
const stdair::CabinCode_T lPreferredCabin ("Bus");
const stdair::PartySize_T lPartySize (3);
const stdair::ChannelLabel_T lChannel ("DF");
const stdair::TripType_T lTripType ("RO");
const stdair::DayDuration_T lStayDuration (5);
const stdair::FrequentFlyer_T lFrequentFlyerType ("NONE");
const stdair::Duration_T lPreferredDepartureTime (boost::posix_time::hours(10));
const stdair::WTP_T lWTP (2000.0);
const stdair::PriceValue_T lValueOfTime (20.0);
const stdair::ChangeFees_T lChangeFees (true);
const stdair::Disutility_T lChangeFeeDisutility (50);
const stdair::NonRefundable_T lNonRefundable (true);
const stdair::Disutility_T lNonRefundableDisutility (50);

const stdair::BookingRequestStruct lBookingRequest (lOrigin, lDestination,
                                                    lPOS,
                                                    lPreferredDepartureDate,
                                                    lRequestDateTime,
                                                    lPreferredCabin,
                                                    lPartySize, lChannel,
                                                    lTripType, lStayDuration,
                                                    lFrequentFlyerType,
                                                    lPreferredDepartureTime,
                                                    lWTP, lValueOfTime,
                                                    lChangeFees,
                                                    lChangeFeeDisutility,
                                                    lNonRefundable,
                                                    lNonRefundableDisutility);

// Build the segment path list
stdair::TravelSolutionList_T lTravelSolutionList;
airschedService.buildSegmentPathList (lTravelSolutionList, lBookingRequest);
const unsigned int lNbOfTravelSolutions = lTravelSolutionList.size();

STDAIR_LOG_DEBUG ("The number of travel solutions for the booking request '"
                  << lBookingRequest.describe() << "' is equal to "
                  << lNbOfTravelSolutions << ".");

// Close the Log outputFile
logOutputFile.close();

return lNbOfTravelSolutions;
}

// ////////////////////////////////// Main: Unit Test Suite //////////////////////////////////

// Set the UTF configuration (re-direct the output to a specific file)
BOOST_GLOBAL_FIXTURE (UnitTestFixture);

// Start the test suite
BOOST_AUTO_TEST_SUITE (master_test_suite)

BOOST_AUTO_TEST_CASE (airsched_simple_build) {

    // Input file name
    const stdair::Filename_T lScheduleInputFilename (STDAIR_SAMPLE_DIR

```

```

        "/schedule03.csv");

// State whether the BOM tree should be built-in or parsed from input files
const bool isBuiltin = false;
const bool isWithOnD = false;

// Try to build a travel solution list
unsigned int lNbOfTravelSolutions = 0;
BOOST_CHECK_NO_THROW (lNbOfTravelSolutions =
    testScheduleHelper (0, lScheduleInputFilename, " ",
        isBuiltin, isWithOnD));

// Check the size of the travel solution list
const unsigned int lExpectedNbOfTravelSolutions = 4;
BOOST_CHECK_MESSAGE (lNbOfTravelSolutions == lExpectedNbOfTravelSolutions,
    "The number of travel solutions is "
    << lNbOfTravelSolutions << ", but it should be equal to "
    << lExpectedNbOfTravelSolutions);
}

BOOST_AUTO_TEST_CASE (airsched_default_bom_tree_simple_build) {

// State whether the BOM tree should be built-in or parsed from input files
const bool isBuiltin = true;
const bool isWithOnD = false;

// Try to build a travel solution list
unsigned int lNbOfTravelSolutions = 0;
BOOST_CHECK_NO_THROW (lNbOfTravelSolutions =
    testScheduleHelper (1, " ", " ", isBuiltin, isWithOnD));

// Check the size of the travel solution list
const unsigned int lExpectedNbOfTravelSolutions = 1;
BOOST_CHECK_MESSAGE (lNbOfTravelSolutions == lExpectedNbOfTravelSolutions,
    "The number of travel solutions is "
    << lNbOfTravelSolutions << ", but it should be equal to "
    << lExpectedNbOfTravelSolutions);
}

BOOST_AUTO_TEST_CASE (airsched_OnD_input_file) {

// Input file names
const stdair::Filename_T lScheduleInputFilename (STDAIR_SAMPLE_DIR
    "/rds01/schedule05.csv");
const stdair::Filename_T lODInputFilename (STDAIR_SAMPLE_DIR
    "/ond01.csv");

// State whether the BOM tree should be built-in or parsed from input files
const bool isBuiltin = false;
const bool isWithOnD = true;

// Try to build a travel solution list
unsigned int lNbOfTravelSolutions = 0;
BOOST_CHECK_NO_THROW (lNbOfTravelSolutions =
    testScheduleHelper (2, lScheduleInputFilename,
        lODInputFilename,
        isBuiltin, isWithOnD));

// Check the size of the travel solution list
const unsigned int lExpectedNbOfTravelSolutions = 1;
BOOST_CHECK_MESSAGE (lNbOfTravelSolutions == lExpectedNbOfTravelSolutions,
    "The number of travel solutions is "
    << lNbOfTravelSolutions << ", but it should be equal to "
    << lExpectedNbOfTravelSolutions);
}

```

```

BOOST_AUTO_TEST_CASE (airsched_missing_OnD_input_file) {

    // Input file names
    const stdair::Filename_T lScheduleInputFilename (STDAIR_SAMPLE_DIR
                                                    "/schedule03.csv");
    const stdair::Filename_T lODInputFilename (STDAIR_SAMPLE_DIR
                                                "/missingFiles.csv");

    // State whether the BOM tree should be built-in or parsed from input files
    const bool isBuiltin = false;
    const bool isWithOnD = true;

    // Try to build a travel solution list
    BOOST_CHECK_THROW (testScheduleHelper (3, lScheduleInputFilename,
                                           lODInputFilename,
                                           isBuiltin, isWithOnD),
                      AIRSCHED::OnDInputFileNotFoundException);
}

BOOST_AUTO_TEST_CASE (airsched_missing_schedule_input_file) {

    // Input file name
    const stdair::Filename_T lScheduleInputFilename (STDAIR_SAMPLE_DIR
                                                    "/missingFiles.csv");

    // State whether the BOM tree should be built-in or parsed from input files
    const bool isBuiltin = false;
    const bool isWithOnD = false;

    // Try to build a travel solution list
    BOOST_CHECK_THROW (testScheduleHelper (4, lScheduleInputFilename, " ",
                                           isBuiltin, isWithOnD),
                      AIRSCHED::ScheduleInputFileNotFoundException);
}

BOOST_AUTO_TEST_CASE (airsched_segment_date_not_found) {

    // Input file name
    const stdair::Filename_T lScheduleInputFilename (STDAIR_SAMPLE_DIR
                                                    "/scheduleError03.csv");

    // State whether the BOM tree should be built-in or parsed from input files
    const bool isBuiltin = false;
    const bool isWithOnD = false;

    // Try to build a travel solution list
    BOOST_CHECK_THROW (testScheduleHelper (5, lScheduleInputFilename,
                                           " ",
                                           isBuiltin, isWithOnD),
                      AIRSCHED::SegmentDateNotFoundException);
}

// End the test suite
BOOST_AUTO_TEST_SUITE_END()

/*!

```