IT DEVELOPMENT

MSC XML INTERFACE SPECIFICATION

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| Approval date |  | Approved by | Francesco Cimmino |

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# Summary

[Summary 3](#_Toc346266290)

[Introduction 4](#_Toc346266291)

[Booking Item Type 4](#_Toc346266292)

[Messages Summary 5](#_Toc346266293)

[Booking Flows 8](#_Toc346266294)

[Implementation Notes 12](#_Toc346266295)

[**Functionality.** 12](#_Toc346266296)

[**Session Concept.** 12](#_Toc346266297)

[**Session Identification.** 12](#_Toc346266298)

[**Session Content and Messages.** 13](#_Toc346266299)

[**Participant Numbers.** 13](#_Toc346266300)

[**Component Ids.** 13](#_Toc346266301)

[**Code Usage.** 13](#_Toc346266302)

[**Component Item Booked.** 14](#_Toc346266303)

[**Dynamic Pricing Features.** 14](#_Toc346266304)

[Booking Flow 15](#_Toc346266305)

[**Login Message.** 17](#_Toc346266306)

[**Cruise Shopping.** 18](#_Toc346266307)

[**Itineray Details.** 21](#_Toc346266308)

[**Cruise Prices.** 25](#_Toc346266309)

[**Checking Flight availability.** 27](#_Toc346266310)

[**Cruise Category Shopping** 29](#_Toc346266311)

[**Category Items shopping.** 43](#_Toc346266312)

[**Cabin Shopping.** 47](#_Toc346266313)

[**Additional Non Cruise Item List.** 50](#_Toc346266314)

[**Additional and/or Associated Non Cruise Items Shopping.** 53](#_Toc346266315)

[**Insurance Shopping.** 58](#_Toc346266316)

[**Booking Price Calculation.** 62](#_Toc346266317)

[**Booking.** 70](#_Toc346266318)

[**Retrieving Booking Informations and Items.** 73](#_Toc346266319)

[**Booking Confirmation Quote.** 104](#_Toc346266320)

[**Booking Confirmation.** 106](#_Toc346266321)

[**Update Information Passenger.** 108](#_Toc346266322)

[**Recap Booking.** 110](#_Toc346266323)

[**soapUI Example (Login).** 115](#_Toc346266324)

# Introduction

This document provides a definition of a set of XML messages that encompasses the ability to interface with the MSC Reservation System (DTS) and Cruise Partner bookings engine.

The intent is to provide an XML interface in support of client web sites (either existing or new ) requiring the ability to shop for availability and pricing , and make bookings in DTS, for the full range of supported booking item types. Support for functionality required in both public and agency orientated web sites is provided.

A summary of the message set functions is followed by a detailed specification of each message.

# Booking Item Type

The following booking item types are supported by the DTS Tour and Cruise Partner booking engine:

* Cruises - Cruise bookings.
* Air - Airline bookings.
* Plan - Plan bookings: Cruise + Fight + Transfer.
* Insurance - bookings for a variety of types of insurance.
* Activities - bookings for an occurrence for an event that occurs at a particular date and time.
* Special Services - Special Service bookings in conjunction with a cruise.
* Miscellaneous – Miscellaneous bookings for a variety of not inventoried miscellaneous items.
* Transportation - bookings for point to point land transportation (bus, train)..
* Onboard Services - is used to manage a variety of services that may be on offer on board a cruise. This can include beverage packages, spa treatments, gift hampers etc.

# Messages Summary

###### Agency Sign-in and Maintenance Functions.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsAgencyLoginMessage  DtsAgencyLoginResponse | Establish a session on behalf of a travel agent, validate the login credentials (user name/password). |
| DtsAgencyProfileRetrieveRequest  DtsAgencyProfileRetrieveResponse | Retrieve the agency details for the given session details. |
| DtsAgencyPasswordChangeRequest  DtsAgencyPasswordChangeResponse | Change the password of the given user. |
| DtsAgencyProfileUpdateRequest  DtsAgencyProfileUpdateResponse | Update the agency details. |
| DtsAgentProfileUpdateRequest  DtsAgentProfileUpdateResponse | Update the agent details (agency representative). |

###### Basic Shopping and Booking Flow.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsShopRequestMessage  DtsShopResponseMessage | Shop for availability and pricing for air, hotel, car, activities, transportation, transfers, miscellaneous, cruise (tour operator), insurance, special services (cruise), plus combinations of these items included in flexible departure date packages or fixed departure date (tour) packages.  Predefined promotions being advertised on a website can also be shopped directly.  No of adults and children must be specified. |
| DtsHotelOptionsRequestMessage  DtsHotelOptionsResponseMessage | Request options for a hotel component including available promotions, category pricing per promotion, and meal plan pricing per promotion. |
| DtsPlanListRequestMessage  DtsPlanListResponseMessage | Obtain a list of flexible departure packages (plans) available including Flights + transfer (airport/port). |
| DtsAssocItemsListRequestMessage  DtsAssocItemsListResponseMessage | Obtain a list of items that are associated with another item - that is, suggested to be booked along with it. |
| DtsPriceToBookRequestMessage  DtsPriceToBookResponseMessage | For a selected list of items in the shopping cart, request total pricing (to determine amount of payment required). Also provides pricing detail for an existing booking. |
| DtsBookRequestMessage  DtsBookResponseMessage | Book the selected items, record participant and booking information details, and creates a credit card payment (including online approval). In agency mode, allow creation of a quote only, with no payment or inventory updates. Return a booking number. |

###### Shopping Functions related to AIR.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsAirWrapOutboundRequest  DtsAirWrapOutboundResponse | Step 1 of wrapping an air itinerary around a specified set of components: Obtain a list of flight choices for the outbound leg. |
| DtsAirWrapReturnRequest  DtsAirWrapReturnResponse | Step 2 of wrapping an air itinerary around a specified set of components: Obtain a list of flight choices for the return leg that are valid for a chosen outbound leg. |
| DtsAirWrapPriceRequest  DtsAirWrapPriceResponse | Step 3 of wrapping an air itinerary around a specified set of components: Price a specified itinerary consisting of an outbound and return leg, and create a component ID that can subsequently be booked by the BOOK message. |

###### Shopping Functions related to CRUISE.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsCruiseItineraryDetailRequest  DtsCruiseItineraryDetailResponse | Cruise bookings only - request itinerary detail for a cruise. |
| DtsCruisePricingAvailabilityRequest  DtsCruisePricingAvailabilityResponse | Cruise bookings only - request what type of pricing is available on a cruise. |
| DtsCruiseCategoryAvailabilityRequest  DtsCruiseCategoryAvailabilityResponse | Cruise bookings only - request what cabin categories are available for a particular price type on a cruise. |
| DtsCategoryItemRequestMessage  DtsCategoryItemResponseMessage | Cruise bookings only - request what cabin categories items are available for a particular price type on a cruise. |
| DtsCruiseCabinAvailabilityRequest  DtsCruiseCabinAvailabilityResponse | Cruise bookings only - request what cabins are available in a category on a cruise. |
| DtsCruiseCabinLockRequest  DtsCruiseCabinLockResponse | Cruise bookings only - lock one or more cabins for booking. |

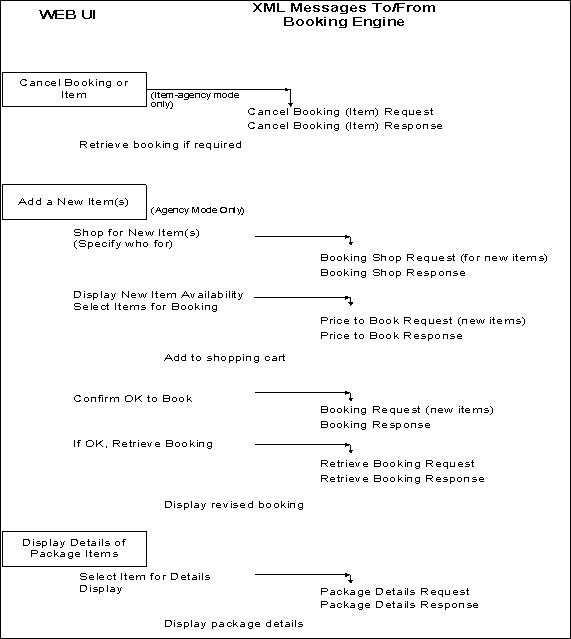
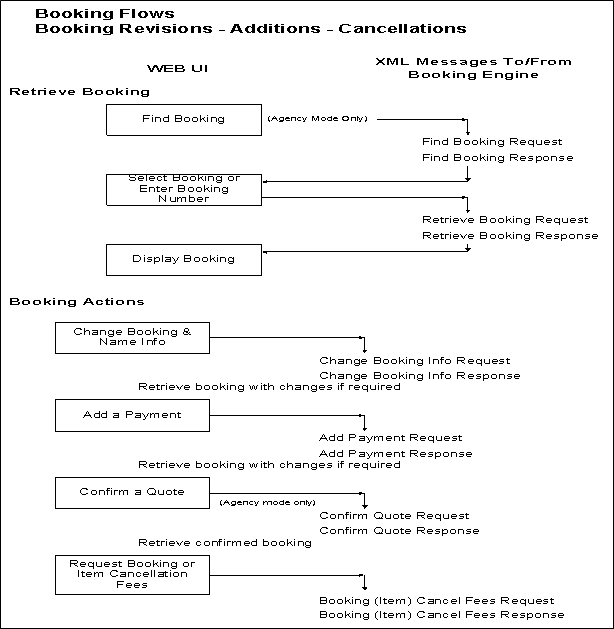
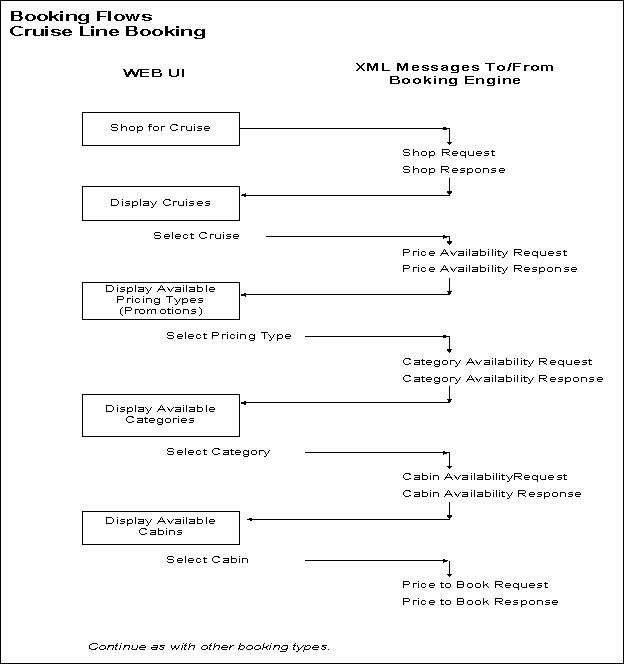
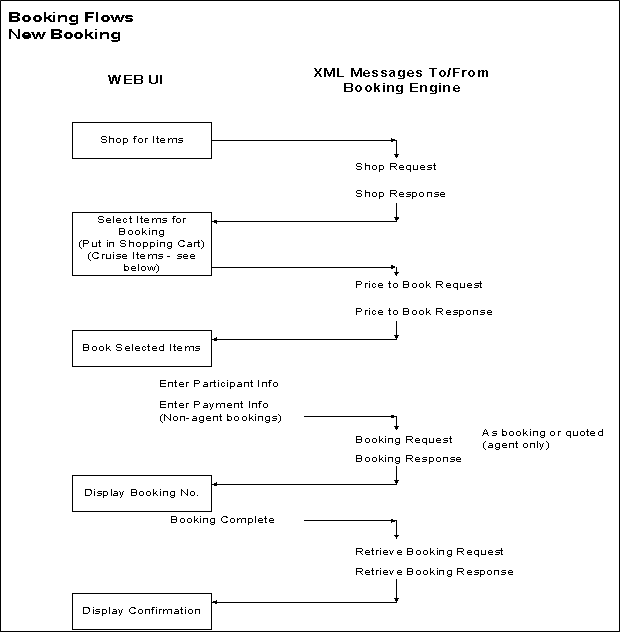
###### Group Functions.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsGroupListRequestMessage  DtsGroupListResponseMessage | Obtain list of non-departed groups for a travel agency. |
| DtsGroupItemRequestMessage  DtsGroupItemResponseMessage | Obtain list of booking components for a group departure. |

###### Booking Retrieve and Maintenance Functions.

|  |  |
| --- | --- |
| **Message Pair** | **Message Function** |
| DtsFindBookingRequestMessage  DtsFindBookingResponseMessage | Request a list of all bookings that meet the entered search criteria. |
| DtsRetrieveBookingRequestMessage  DtsRetrieveBookingResponseMessage | Request the return of the full details of a booking, including all booking information, participant information, payments made, and all booking items. |
| DtsRecapBookingRequestMessage  DtsRecapBookingResponseMessage | Request an HTML-formatted recap of the booking. |
| DtsBkgAttrUpdateRequestMessage  DtsBkgAttrUpdateResponseMessage | Modify certain booking-level attributes on an existing booking. |
| DtsApplyPaymentRequestMessage  DtsApplyPaymentResponseMessage | Apply a payment to a booking. |
| DtsConfirmQuoteRequestMessage  DtsConfirmQuoteResponseMessage | Convert a previously created quote to a booking, updating inventory etc. |
| DtsConfirmBookingRequestMessage  DtsConfirmBookingResponseMessage | Manually confirm a booking from OPT (On Option) to BKD (firm booking) without making any payments. |
| DtsBookingCancelFeesRequestMessage  DtsBookingCancelFeesResponseMessage | Request what cancel fees would apply if an item, items, or the whole booking is cancelled. |
| DtsCancelBookingRequestMessage  DtsCancelBookingResponseMessage | Cancel an item, items, or an entire booking. |

# Booking Flows



# Implementation Notes

## **Functionality.**

The interface supports shopping, pricing, booking (or quote) creation with necessary participant data, payment, and booking retrieval to display confirmation information.

The shopping functionality is for multiple travel item types simultaneously.

It also supports finding a booking, retrieving a booking, converting a quote to a booking, getting cancel fees for an item or the whole booking, canceling an item or the whole booking, adding a payment, changing booking details, adding new items.

For cruise bookings, pricing, category and cabin selection is provided.

Public functionality is a subset of travel agency functionality.

## **Session Concept.**

The interface operates on the concept of a session basis.

The start of a session is defined as the sending of the agency login message, one without a session ID.

In Public functionality the start of a session is defined as the sending of a new shopping message, one without a session ID.

The server will assign a session ID that should be echoed by the client on all subsequent messages, until a new shopping message is sent.

## **Session Identification.**

For travel agent sessions, the server will validate the agency ID, so a sign on/registration process in the client system is required.

For public sessions no validation of the user occurs, thus the client is not required to register public users.

For public functions requiring retrieval of an existing booking, security is enforced by the sending of a booking reference ID, which is logically associated with the booking. This will have been sent to the client at the time the booking was created, along with the booking number.

## **Session Content and Messages.**

The server will maintain context for each session in process.

The server will return session context data in each response message, which the client can choose to use as appropriate.

Each response message contains an advisory message block. Both errors and informational messages will be returned in this block.

Messages are both coded and in text. The client can choose to use either as appropriate.

The session context contains a language and a currency code. The client is required to set these on the initial shopping message. The server will then respond in the language specified (if supported), and price in the specified currency (if available).

## **Participant Numbers.**

Participant numbers are used to associate specific participants on a booking with specific booking items. These numbers are the first, second person on the booking.

Up to 999 participants can theoretically be added to a booking.

## **Component Ids.**

Component IDs are used to identify specific booking items that have been shopped, booked etc.

Component IDs are in the form of x9999999.

The client must return the correct component ID when requiring the server to take an action on the relevant component ID.

Component IDs are also used to cross reference items for a number of purposes e.g. components of a package, a special service or an OBS associated with a cruise.

## **Code Usage.**

The server uses codes for identifying a variety of data types, e.g. countries, airports, cities.

The ability to request a download of one, a list of, or all code types is provided. Generally code sets should be downloaded when required to populate drop downs or do validations in the client.

All travel items are identified by codes, but these can be shielded from the user. For these items descriptions are always sent with the associated code.

## **Component Item Booked.**

For flexible packages (plans) all items including optional will be booked.

Insurance can be shopped, once other items for which insurance is required have been selected.

Air shopping can be FIT via the generic shopping message, or generated (wrapping around a selection of travel items) by filling in the component ID list of a shopping message once the travel item selection has been done.

To shop for a front end promotion that has been mapped to a product in the server, use the ‘PromoShop’ block of the shopping message.

## **Dynamic Pricing Features.**

This feature allows the company to associate non cruise items like Special Services, Shore Excursions to a cruise category for more focussed selling. For e.g. an altogether different set of items can be offered to the exclusive Yacht Club categories.

These non cruise items being setup can have one of the following applicability rules with respect to the category:

* Mandatory – The item is to be mandatorily shopped along with the cruise category.
* Substitutional – At least one item offered from a range/group of items is to be shopped with the cruise category. The items within the group will have varying selling priorities.
* Optional – The user can decide whether or not to shop the item with the cruise category.

Considering the above explanations on category items, it must be clear that:

* The availability of a cruise category is directly linked to the availability of one or more non cruise items associated with the category.
* A cabin change after booking to a different category can lead to the existing non cruise items associated to the category in the booking getting cancelled and a new set of category items getting added.

# Booking Flow

The flow for a Cruise Booking includes the following steps:

* ***Login Message - DtsAgencyLoginMessage/DtsAgencyLoginResponse***: Login.
* ***Cruise Shopping - DtsShopRequestMessage/DtsShopResponseMessage***: Cruise shopping starting from a search criteria.
* ***Itinerary Details - DtsCruiseItineraryDetailRequest/DtsCruiseItineraryDetailResponse***: (Optional). Shows the details about the cruise itinerary.
* ***Cruise Prices - DtsCruisePricingAvailabilityRequest/*** ***DtsCruisePricingAvailabilityResponse***: Getting the list of available fare codes for the selected cruise.
* ***Checking Flight Availability - DtsPlanListRequestMessage/DtsPlanListResponseMessage***: Checking if fligths are available for the selected cruise.
* ***Category Shopping - DtsCruiseCategoryAvailabilityRequest/DtsCruiseCategoryAvailabilityResponse***: Category shopping between the available ones.
* ***Category Items Shopping - DtsCategoryItemRequestMessage/DtsCategoryItemResponseMessage***: Shopping Items associated to the category selected.
* ***Cabin Shopping - DtsCruiseCabinAvailabilityRequest/DtsCruiseCabinAvailabilityResponse***: Cabin shopping between the available ones.
* ***Additional Non Cruise Item List - DtsCodeDescriptionsRequestMessage/*** ***DtsCodeDescriptionsResponseMessage***: (Optional). Shows the list of the cruise additional item that can be shopped.
* ***Non Cruise Item Shopping - DtsShopRequestMessage/DtsShopResponseMessage***: (Optional). Shopping the cruise associated and/or additional item shopping:
  + Insurance – INS
  + Special Service – SSV
  + Activity (excursions)
  + Miscellaneous – MSC
  + On Board Service – OBS
  + Transportation – TPT.
* ***Booking Price Calculation - DtsPriceToBookRequestMessage/DtsPriceToBookResponseMessage***  (Optional). Calculatin the booking total gross price.
* ***Booking - DtsBookRequestMessage/DtsBookResponseMessage*** Generate the reservation..

Additional actions can be executed including the following steps:

* ***Retrieving Booking Informations and Items - DtsRetrieveBookingRequestMessage/*** ***DtsRetrieveBookingResponseMessage***: Retrieving the full details of a booking, including all booking information, participant information, payments made, and all booking items. Before this step a new login is required in orer to calculate a new session.
* ***Booking Confirmation - DtsConfirmBookingRequestMessage*** ***DtsConfirmBookingResponseMessage/***: Changing the booking status from OPT (option) to BKD (booked). Before this step a new login is required in orer to calculate a new session.

## **Login Message.**

**REQUEST:**

<DtsAgencyLoginMessage>

<LoginInfo>

<AgencyID>XXXXXXXX</AgencyID>

<AgentID>YYYYYYYY</AgentID>

<AgentPassword>\*\*\*\*\*\*\*\*</AgentPassword>

</LoginInfo>

</DtsAgencyLoginMessage>

**RESPONSE:**

<DtsAgencyLoginResponse>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<AdvisoryInfo/>

</DtsAgencyLoginResponse>

The ***SessionID*** calculated in the **DtsAgencyLoginResponse** shall be used as the ***SessionID*** in all the messages during the flow until the reservation will not be done.

## **Cruise Shopping.**

**REQUEST:**

<DtsShopRequestMessage>

<SessionInfo>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

<SessionID>9138</SessionID>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<PricingShopInfo>

<NoAdults>2</NoAdults>

<NoChildren>2</NoChildren>

<ChildInfo>

<ChildAge>10,12</ChildAge>

</ChildInfo>

</PricingShopInfo>

<CruiseShop>

<ShipCode>FA</ShipCode>

<SailingsFromDate>2012-07-15</SailingsFromDate>

<SailingsToDate>2012-07-15</SailingsToDate>

</CruiseShop>

</DtsShopRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

When reserving childrens, their ages shall be defined in the tag ***ChildAge***, comma separated.

**RESPONSE:**

<DtsShopResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<PricingShopInfo>

<NoAdults>2</NoAdults>

<NoChildren>2</NoChildren>

<ShopInsurance>N</ShopInsurance>

<ChildInfo>

<ChildAge>10</ChildAge>

<ChildAge>12</ChildAge>

</ChildInfo>

</PricingShopInfo>

<HotelProducts/>

<ActivityProducts/>

<TransportationProducts/>

<TransferProducts/>

<CarProducts/>

<MiscellaneousProducts/>

<InsuranceProducts/>

<AirProducts/>

<TourPackageProducts/>

<FlexiblePackageProducts/>

<CruiseProducts>

<CruiseSailing>

<CruiseInfo>

<CruiseID>FA20120715GOAGOA</CruiseID>

<ShipCode>FA</ShipCode>

<ShipName>MSC FANTASIA</ShipName>

<SailingDate>2012-07-15</SailingDate>

<SailingTime>1700</SailingTime>

<ReturnDate>2012-07-22</ReturnDate>

<SailingLengthDays>7</SailingLengthDays>

<ItineraryCode>FG50</ItineraryCode>

<ItineraryDescription>Italy,Tunisia,Spain,France</ItineraryDescription>

<DepartingPort>GOA</DepartingPort>

<UsesDynamicPricing>yes</UsesDynamicPricing>

</CruiseInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceRangeInfo/>

<ComponentInfo>

<ComponentID>Z41019</ComponentID>

<ComponentsPriced/>

</ComponentInfo>

</CruiseSailing>

</CruiseProducts>

<SpecialServiceProducts/> </DtsShopResponseMessage>

For each cruise in the response, the tag ***UsesDynamicPricing*** contains ***“yes”*** when it has the dynamic pricing feature.

The valid cruises for reservation, in the response, have the tag ***AvailabilityStatusCode*** valued with ***“AV”.***

The ***ComponentID*** calculated in the **DtsShopResponseMessage** shall be used as the ***ComponentID*** in all the messages during the flow until the reservation will not be done.

## **Itineray Details.**

**REQUEST:**

<DtsCruiseItineraryDetailRequest>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

</CruiseComponent>

</DtsCruiseItineraryDetailRequest>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**. **RESPONSE:**

<DtsCruiseItineraryDetailResponse>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<AdvisoryInfo/>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<CruiseID>FA20120715GOAGOA</CruiseID>

<ItineraryDesciption>Italy,Tunisia,Spain,France</ItineraryDesciption>

<ItineraryGraphicsUrl>/images/msc/iti/itin/FG50.jpg</ItineraryGraphicsUrl>

<SailingDate>2012-07-15</SailingDate>

<SailingPortCode>GOA</SailingPortCode>

<SailingPortName>Genoa, Italy</SailingPortName>

<EndPortCode>GOA</EndPortCode>

<EndPortName>Genoa, Italy</EndPortName>

<SailingLengthDays>7</SailingLengthDays>

</CruiseComponent>

<ItinerarySegments>

<ItinerarySegment>

<ItineraryDate>2012-07-15</ItineraryDate>

<ItineraryWeekday>SUN</ItineraryWeekday>

<ArrivalTime>0000</ArrivalTime>

<DepartureTime>1700</DepartureTime>

<ItineraryPortCode>GOA</ItineraryPortCode>

<ItineraryPortName>Genoa, Italy</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-16</ItineraryDate>

<ItineraryWeekday>MON</ItineraryWeekday>

<ArrivalTime>1130</ArrivalTime>

<DepartureTime>1930</DepartureTime>

<ItineraryPortCode>NAP</ItineraryPortCode>

<ItineraryPortName>Naples, Italy</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-17</ItineraryDate>

<ItineraryWeekday>TUE</ItineraryWeekday>

<ArrivalTime>0900</ArrivalTime>

<DepartureTime>1700</DepartureTime>

<ItineraryPortCode>PMO</ItineraryPortCode>

<ItineraryPortName>Palermo, Italy</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-18</ItineraryDate>

<ItineraryWeekday>WED</ItineraryWeekday>

<ArrivalTime>0700</ArrivalTime>

<DepartureTime>1700</DepartureTime>

<ItineraryPortCode>TUN</ItineraryPortCode>

<ItineraryPortName>La Goulette, Tunisia</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-20</ItineraryDate>

<ItineraryWeekday>FRI</ItineraryWeekday>

<ArrivalTime>0900</ArrivalTime>

<DepartureTime>1800</DepartureTime>

<ItineraryPortCode>BCN</ItineraryPortCode>

<ItineraryPortName>Barcelona, Spain</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-21</ItineraryDate>

<ItineraryWeekday>SAT</ItineraryWeekday>

<ArrivalTime>0800</ArrivalTime>

<DepartureTime>1700</DepartureTime>

<ItineraryPortCode>MRS</ItineraryPortCode>

<ItineraryPortName>Marseille, France</ItineraryPortName>

</ItinerarySegment>

<ItinerarySegment>

<ItineraryDate>2012-07-22</ItineraryDate>

<ItineraryWeekday>SUN</ItineraryWeekday>

<ArrivalTime>0800</ArrivalTime>

<DepartureTime>0000</DepartureTime>

<ItineraryPortCode>GOA</ItineraryPortCode>

<ItineraryPortName>Genoa, Italy</ItineraryPortName>

</ItinerarySegment>

</ItinerarySegments>

</DtsCruiseItineraryDetailResponse>

## **Cruise Prices.**

**REQUEST:**

<DtsCruisePricingAvailabilityRequest>

<SessionInfo>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

<SessionID>9138</SessionID>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

</CruiseComponent>

</DtsCruisePricingAvailabilityRequest>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.**RESPONSE:**

<DtsCruisePricingAvailabilityResponse>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<CruiseID>FA20120715GOAGOA</CruiseID>

<ItineraryDesciption>Italy,Tunisia,Spain,France</ItineraryDesciption>

<ItineraryGraphicsUrl>/images/msc/iti/itin/FG50.jpg</ItineraryGraphicsUrl>

<SailingDate>2012-07-15</SailingDate>

<SailingPortCode>GOA</SailingPortCode>

<SailingPortName>Genoa, Italy</SailingPortName>

<EndPortCode>GOA</EndPortCode>

<EndPortName>Genoa, Italy</EndPortName>

<SailingLengthDays>7</SailingLengthDays>

</CruiseComponent>

<PricingPromotionsAvailable>

<CruisePromotionCode>APREDAOBS</CruisePromotionCode>

<CruisePromotionDesc>apredaobs</CruisePromotionDesc>

<CruisePromotionDetails>

<![CDATA[Price Classification: Cruise only, This fare is applicable to: Offices-ITA, All Agents , Markets-ITA, All Passenger Types , All Group Types . Cruises on the following ship(s):- FA. Itinerarys- FG50]]>

</CruisePromotionDetails>

<CruisePricingMethod>D</CruisePricingMethod>

<CruisePricingPriority>0</CruisePricingPriority>

<CruisePriceClassification>CROL</CruisePriceClassification>

<CruisePriceType>BROCHURE</CruisePriceType>

<BrochureRate>yes</BrochureRate>

<PriceContainsItem>yes</PriceContainsItem>

</PricingPromotionsAvailable>

</DtsCruisePricingAvailabilityResponse>

For each price in the response, the tag ***CruisePromotionCode*** contains the price that the user can apply in the next steps of the reservation.

## **Checking Flight availability.**

**REQUEST:**

<DtsPlanListRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<ComponentID>Z41019</ComponentID>

</DtsPlanListRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**. **RESPONSE:**

<DtsPlanListResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<AdvisoryInfo/>

<PlanCodes>

<PlanCode>APREDAOBS</PlanCode>

<PlanDescription>apredaobs</PlanDescription>

<AirFlag>N</AirFlag>

<AirFlagDesc>Not Required</AirFlagDesc>

<ComponentID>Z41020</ComponentID>

</PlanCodes>

</DtsPlanListResponseMessage>

When a flight is available the tag ***AirFlag*** contains the value:

"**M**" = Flight is mandatory  
"**N**" = A flight can NOT be reserved  
"**Y**" = A flight can be reserved

When a flight is available and the user intends to reserve it, than the ***ComponentID*** (**Z41020**) calculated in the **DtsPlanListResponseMessage** shall be used as the ***ComponentID*** in all the messages during the flow until the reservation will not be done, otherwise, the ***ComponentID*** (**Z41019**) calculated in the **DtsShopMessageResponse** will be used.

## **Cruise Category Shopping**

**REQUEST:**

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<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<PromotionCode>APREDAOBS</PromotionCode>

</CruiseComponent>

</DtsCruiseCategoryAvailabilityRequest>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.

The ***PromotionCode*** has been calculated in the **DtsCruisePricingAvailabilityResponse**.

**RESPONSE:**

<DtsCruiseCategoryAvailabilityResponse xmlns="DTS" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="DTS file:///R:/xsd/DtsCruiseCategoryAvailabilityResponseMessage\_01.xsd">

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<Language>ENG</Language>

<Version>1.0</Version>

</SessionInfo>

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<MarketCode>USA</MarketCode>

<BookingCurrencyCode>USD</BookingCurrencyCode>

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<OfficeCode>USA</OfficeCode>

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<CruiseComponent>

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<CruiseID>FA20120501PMOPMO</CruiseID>

<ItineraryDesciption>Italy,Tunisia,Spain,France</ItineraryDesciption>

<ItineraryGraphicsUrl>/images/msc/iti/itin/FP50.jpg</ItineraryGraphicsUrl>

<SailingDate>2012-05-01</SailingDate>

<SailingPortCode>PMO</SailingPortCode>

<SailingPortName>Palermo, Italy</SailingPortName>

<EndPortCode>PMO</EndPortCode>

<EndPortName>Palermo, Italy</EndPortName>

<SailingLengthDays>7</SailingLengthDays>

</CruiseComponent>

<SelectedPromotion>

<CruisePromotionCode>EBFAM303P45</CruisePromotionCode>

</SelectedPromotion>

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<AvailableCatg>

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<CategoryDesc>Inside</CategoryDesc>

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<CategoryDesc>Ocean View</CategoryDesc>

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<CategoryCode>06</CategoryCode>

<CategoryDesc>Balcony Cabin</CategoryDesc>

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<PricedOccupancy>2</PricedOccupancy>

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<CabinIncludesAirPrice>no</CabinIncludesAirPrice>

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<CategoryCode>08</CategoryCode>

<CategoryDesc>Balcony Cabin</CategoryDesc>

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<CategoryDesc>Balcony Cabin</CategoryDesc>

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<CategoryDesc>Balcony Cabin</CategoryDesc>

<CategoryGraphicsUrl>/images/msc/ships-decks/Ships/Fantasia/Cabin\_Photo/FA\_11\_OutsideBalcony.jpg</CategoryGraphicsUrl>

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<GrossAmount>150</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>CAB</ChargeType>

<GrossAmount>1249</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>PCH</ChargeType>

<GrossAmount>29.74</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>SRN</ChargeType>

<GrossAmount>150</GrossAmount>

</CtgPriceDetails>

</AvailableCatg>

<AvailableCatg>

<CategoryCode>YC1</CategoryCode>

<CategoryDesc>Deluxe Suite</CategoryDesc>

<CategoryGraphicsUrl>/images/msc/ships-decks/Ships/Fantasia/Cabin\_Photo/FA\_Y1.jpg</CategoryGraphicsUrl>

<MaximumOccupancy>2</MaximumOccupancy>

<PricedOccupancy>2</PricedOccupancy>

<TotalCabinPrice>10117.48</TotalCabinPrice>

<CabinIncludesAirPrice>no</CabinIncludesAirPrice>

<TotalAirPrice>0</TotalAirPrice>

<CabinsAvailable>10</CabinsAvailable>

<GuaranteesAvailable>0</GuaranteesAvailable>

<TotalAvailable>10</TotalAvailable>

<PricedCategory>YC1</PricedCategory>

<MaximumOccupancyGar>0</MaximumOccupancyGar>

<CategoryItems>no</CategoryItems>

<NETPRICE>no</NETPRICE>

<CtgPriceDetails>

<PaxID>-9999</PaxID>

<ChargeType>CAB</ChargeType>

<GrossAmount>4879</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9999</PaxID>

<ChargeType>PCH</ChargeType>

<GrossAmount>29.74</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9999</PaxID>

<ChargeType>SRN</ChargeType>

<GrossAmount>150</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>CAB</ChargeType>

<GrossAmount>4879</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>PCH</ChargeType>

<GrossAmount>29.74</GrossAmount>

</CtgPriceDetails>

<CtgPriceDetails>

<PaxID>-9998</PaxID>

<ChargeType>SRN</ChargeType>

<GrossAmount>150</GrossAmount>

</CtgPriceDetails>

</AvailableCatg>

</AvailableCatgs>

</DtsCruiseCategoryAvailabilityResponse>

The tag ***CategoryCode*** contains the value of the code for a cruise cabin pricing category, the message will show only the available ctaegories.

The tag ***MaximumOcupancy*** contains the value of the maximum cabin occupancy (persons) associated with a cruise cabin category.

The tag ***PricedOcupancy*** contains the value of the cabin occupancy on which the category price is based.

The tag ***TotalCabinPrice*** contains the value of the total price for the cabin on a cruise booking.

The tag ***TotalAvailable*** is the sum of the values of the tags ***CabinsAvailable*** and ***GuaranteesAvailable***, if there are only guarantees cabins available the cabin numbers to be used int next steps will be **G00000**.

**Pricing Tag table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Format** | **Length** | **Description** |
| NETPRICE | Logical | Yes/No | **Yes** = Fare is without commission.  **No** = Fare contains commission. |
| PaxID | integer | 9 | Temporary value for identifier each passenger |
| ChargeType | string | x(3) | Kind of price.  Possible values:  **CAB** = “Standard Cabin Ch”, **PCH** = “GFT-Port Charge”, **CHD** = “Child Cabin Charge”, **SUP** = “Supplemental Cabin Charge”, **SNG** = “Single Supplement Charge”, **SRN** = “NCF-Non-Commissionable”, **SUR** = “NCF-Surcharge Fee”, **CHG** = “Change Fee”. |
| GrossAmount | decimal | 9(7).99 | The Charge amount value for each passenger. |

## **Category Items shopping.**

**REQUEST:**

<DtsCategoryItemRequestMessage>

<SessionInfo>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

<SessionID>9138</SessionID>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<CategoryCode>10</CategoryCode>

<DynamicPriceCode>APREDAOBS</DynamicPriceCode>

</CruiseComponent>

</DtsCategoryItemRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***CategoryCode*** has been calculated in the **DtsCategoryItemRequestMessage**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.

The ***DynamicPriceCode*** has been calculated in the **DtsCruisePricingAvailabilityResponse.** **RESPONSE:**

<DtsCategoryItemResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<ComponentDetails>

<ComponentID>Z41019</ComponentID>

<ItemDetails>

<ItemTypeCode>OBS</ItemTypeCode>

<ItemLevel>1</ItemLevel>

<ItemSeqNo>1</ItemSeqNo>

<ItemDate>2012-07-15</ItemDate>

<ItemDayNo>0</ItemDayNo>

<ItemDescription>APREDA person/stay</ItemDescription>

<Occurrence>0</Occurrence>

<ComponentID>O12009</ComponentID>

<ItemApplicability>M</ItemApplicability>

<PriceBasis>P</PriceBasis>

<PriceType>BROCHURE</PriceType>

<ItemQuantity>1</ItemQuantity>

<ItemPrice>40.00</ItemPrice>

<AvailabilityStatusDesc>AV</AvailabilityStatusDesc>

<DynamicPriceCode>APREDAOBS</DynamicPriceCode>

<ItemCode>apreda1</ItemCode>

<ParentComponentId>Z41019</ParentComponentId>

<ItemPriority>0</ItemPriority>

</ItemDetails>

<ItemDetails>

<ItemTypeCode>OBS</ItemTypeCode>

<ItemLevel>1</ItemLevel>

<ItemSeqNo>2</ItemSeqNo>

<ItemDate>2012-07-15</ItemDate>

<ItemDayNo>0</ItemDayNo>

<ItemDescription>apreda person/night</ItemDescription>

<Occurrence>0</Occurrence>

<ComponentID>O12010</ComponentID>

<ItemApplicability>O</ItemApplicability>

<PriceBasis>P</PriceBasis>

<PriceType>BROCHURE</PriceType>

<ItemQuantity>1</ItemQuantity>

<ItemPrice>280.00</ItemPrice>

<AvailabilityStatusDesc>AV</AvailabilityStatusDesc>

<DynamicPriceCode>APREDAOBS</DynamicPriceCode>

<ItemCode>apreda2</ItemCode>

<ParentComponentId>Z41019</ParentComponentId>

<ItemPriority>0</ItemPriority>

</ItemDetails>

<ItemDetails>

<ItemTypeCode>OBS</ItemTypeCode>

<ItemLevel>1</ItemLevel>

<ItemSeqNo>3</ItemSeqNo>

<ItemDate>2012-07-15</ItemDate>

<ItemDayNo>0</ItemDayNo>

<ItemDescription>apreda cbn/stay</ItemDescription>

<Occurrence>0</Occurrence>

<ComponentID>O12011</ComponentID>

<ItemApplicability>S</ItemApplicability>

<PriceBasis>B</PriceBasis>

<PriceType>BROCHURE</PriceType>

<ItemQuantity>1</ItemQuantity>

<ItemPrice>10.00</ItemPrice>

<AvailabilityStatusDesc>AV</AvailabilityStatusDesc>

<DynamicPriceCode>APREDAOBS</DynamicPriceCode>

<ItemCode>apreda3</ItemCode>

<ParentComponentId>Z41019</ParentComponentId>

<ItemPriority>1</ItemPriority>

</ItemDetails>

<ItemDetails>

<ItemTypeCode>OBS</ItemTypeCode>

<ItemLevel>1</ItemLevel>

<ItemSeqNo>3</ItemSeqNo>

<ItemDate>2012-07-15</ItemDate>

<ItemDayNo>0</ItemDayNo>

<ItemDescription>apreda cbn/night</ItemDescription>

<Occurrence>0</Occurrence>

<ComponentID>O12012</ComponentID>

<ItemApplicability>S</ItemApplicability>

<PriceBasis>B</PriceBasis>

<PriceType>BROCHURE</PriceType>

<ItemQuantity>1</ItemQuantity>

<ItemPrice>70.00</ItemPrice>

<AvailabilityStatusDesc>AV</AvailabilityStatusDesc>

<DynamicPriceCode>APREDAOBS</DynamicPriceCode>

<ItemCode>apreda4</ItemCode>

<ParentComponentId>Z41019</ParentComponentId>

<ItemPriority>2</ItemPriority>

</ItemDetails>

</ComponentDetails>

</DtsCategoryItemResponseMessage>

The tag ***ItemTypeCode*** contains one of the following codes:

* AIR - Air
* HTL - Hotel
* ACT - Transfer/ Transportation/ Shore-ex
* SSV - Enhanced Special Services
* OBS - On Board Services
* MSC - Miscellaneous.

The tag ***ItemSeqNo*** contains the item sequence number,

Substitutable items belonging to the same group will have the same value in the ***ItemSeqNo*** tag.

The tag ***ItemDate*** contains the item start date.

The tag ***ComponentID*** contains the Component id of the shopped Items.

The tag ***ItemApplicability*** contains one of the following codes:

* M - Mandatory Item
* O - Optional Item
* S - Substitutable Item.

The tag ***ItemPrice*** contains the price of the category item.

The tag ***ItemPriority*** contains the priority of the category item whitin the applicability.

Substitutable items belonging to the same group will have the same value in the ***ItemSeqNo*** tag but different values in the tag ***ItemPriority***. The one with higest priority is the default.

## **Cabin Shopping.**

**REQUEST:**

<DtsCruiseCabinAvailabilityRequest>

<SessionInfo>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

<SessionID>9138</SessionID>

</SessionInfo>

<BookingContext>

<BookingContactName>xml Test Contact</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<CategoryCode>10</CategoryCode>

</CruiseComponent>

</DtsCruiseCabinAvailabilityRequest>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***CategoryCode*** has been calculated in the **DtsCategoryItemRequestMessage**.

The ***ComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.

**RESPONSE:**

<DtsCruiseCabinAvailabilityResponse>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<CruiseComponent>

<ComponentID>Z41019</ComponentID>

<CruiseID>FA20120715GOAGOA</CruiseID>

<ItineraryDesciption>Italy,Tunisia,Spain,France</ItineraryDesciption>

<ItineraryGraphicsUrl>/images/msc/iti/itin/FG50.jpg</ItineraryGraphicsUrl>

<SailingDate>2012-07-15</SailingDate>

<SailingPortCode>GOA</SailingPortCode>

<SailingPortName>Genoa, Italy</SailingPortName>

<EndPortCode>GOA</EndPortCode>

<EndPortName>Genoa, Italy</EndPortName>

<SailingLengthDays>7</SailingLengthDays>

</CruiseComponent>

<SelectedCategory>

<CategoryCode>10</CategoryCode>

<CategoryDesc>Outside balcony</CategoryDesc>

<CategoryGraphicsUrl>/images/msc/ships-decks/Ships/Fantasia/Cabin\_Photo/FA\_10\_OutsideBalcony.jpg</CategoryGraphicsUrl>

<MaximumOccupancy>4</MaximumOccupancy>

</SelectedCategory>

<AvailableCabins>

<AvailableCabin>

<CabinNo>12036</CabinNo>

<DeckCode>DE12</DeckCode>

<DeckName>INCANTO</DeckName>

<PhysicallyChallenged>no</PhysicallyChallenged>

<BedArrangement>2 Lowers, 2 Uppers</BedArrangement>

<ShipLocationDesc>Forward Starboard</ShipLocationDesc>

</AvailableCabin>

<AvailableCabin>

<CabinNo>12040</CabinNo>

<DeckCode>DE12</DeckCode>

<DeckName>INCANTO</DeckName>

<PhysicallyChallenged>no</PhysicallyChallenged>

<BedArrangement>2 Lowers, 2 Uppers</BedArrangement>

<ShipLocationDesc>Forward Starboard</ShipLocationDesc>

</AvailableCabin>

<AvailableCabin>

<CabinNo>12044</CabinNo>

<DeckCode>DE12</DeckCode>

<DeckName>INCANTO</DeckName>

<PhysicallyChallenged>no</PhysicallyChallenged>

<BedArrangement>2 Lowers, 2 Uppers</BedArrangement>

<ShipLocationDesc>Forward Starboard</ShipLocationDesc>

</AvailableCabin>

</AvailableCabins>

</DtsCruiseCabinAvailabilityResponse>

The tag ***CabinNo*** contains the cabin number of the shopped category.

## **Additional Non Cruise Item List.**

**REQUEST:**

<DtsCodeDescriptionsRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<RequestedTypes>

<CodeType>SST</CodeType>

</RequestedTypes>

</DtsCodeDescriptionsRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***CodeType*** can be reached in the table below.

|  |  |
| --- | --- |
| **CodeType** | **Description** |
| THM | Themes |
| SHP | Ships |
| CRP | Cruise Pricing Types |
| CBP | Cabin Pricing Types |
| SST | Special Service Types |
| TFT | Transfer Types |
| MKT | Markets |
| OFF | Offices |
| LNG | Languages |
| CUR | Currencies |
| NAT | Nationality |
| CNT | Countries |
| TPT | Transportation |

**RESPONSE:**

<DtsCodeDescriptionsResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<AdvisoryInfo/>

<CodeDescriptions>

<CodeType>SST</CodeType>

<CodeDetail>

<Code>ALLINC</Code>

<CodeDescription>All-inclusive 24 hours</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>BCARNE</Code>

<CodeDescription>Beverage carnet</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>BIRTHD</Code>

<CodeDescription>Birthday treatments</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>CAPACK</Code>

<CodeDescription>Cabin treatments</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>FORFAI</Code>

<CodeDescription>Forfeit drinks at meals</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>GREVEN</Code>

<CodeDescription>Group events - parties</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>HONEY</Code>

<CodeDescription>wedding packages on board</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>MILAN</Code>

<CodeDescription>milan junior camp si27.06</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>NOTAVA</Code>

<CodeDescription>no longer available</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>PRESS</Code>

<CodeDescription>Press Trip package</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>PRIMASPA</Code>

<CodeDescription>pacchetto primavera</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>SPA0809</Code>

<CodeDescription>spa package</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>WCARNE</Code>

<CodeDescription>Wine carnet</CodeDescription>

</CodeDetail>

<CodeDetail>

<Code>WISU</Code>

<CodeDescription>flower</CodeDescription>

</CodeDetail>

</CodeDescriptions>

</DtsCodeDescriptionsResponseMessage>

The tag ***Code*** contains the achronim to use in the additional non cruise item shopping step.

## **Additional and/or Associated Non Cruise Items Shopping.**

**REQUEST:**

<DtsShopRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>TEST</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<PricingShopInfo>

<NoAdults>2</NoAdults>

<NoChildren>2</NoChildren>

<ChildInfo>

<ChildAge>10,12</ChildAge>

</ChildInfo>

</PricingShopInfo>

<!-- Additional Non Cruise Item SSV - SPECIAL SERVICE -->

<SpecialServiceShop>

<ServiceTypeCode>FORFAI</ServiceTypeCode>

<DeliveryDate>2012-07-15</DeliveryDate>

<CruiseComponentID>Z41019</CruiseComponentID>

</SpecialServiceShop>

<!-- Associated Non Cruise Item -->

<AssociatedItemShop>

<AssociatedWithComponentID>Z41019</AssociatedWithComponentID>

</AssociatedItemShop>

</DtsShopRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The node ***SpeciaServiceShop*** contains the Special Service infoes.

The tag ***ServiceTypeCode*** contains the code of the **SST** item, associated t the selected cruise, calculated in the **DtsCodeDescriptionsResponseMessage**.

The tag ***CruiseComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.

The node ***AssociatedItemShop*** contains the non Cruise Associated Item infoes.

The tag ***AssociatedWithComponentID*** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.**RESPONSE:**

<DtsShopResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>TEST</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<PricingShopInfo>

<NoAdults>2</NoAdults>

<NoChildren>2</NoChildren>

<ShopInsurance>N</ShopInsurance>

<ChildInfo>

<ChildAge>10</ChildAge>

<ChildAge>12</ChildAge>

</ChildInfo>

</PricingShopInfo>

<HotelProducts/>

<ActivityProducts/>

<TransportationProducts/>

<TransferProducts/>

<CarProducts/>

<MiscellaneousProducts/>

<InsuranceProducts/>

<AirProducts/>

<TourPackageProducts/>

<FlexiblePackageProducts/>

<CruiseProducts/>

<SpecialServiceProducts>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>977</SpecialServiceCode>

<SpecialServiceDesc>CORKAGE FEE</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>DN</AvailabilityStatusCode>

<AvailabilityStatusDesc>\*\*\* DENIED \*\*\*</AvailabilityStatusDesc>

<AvailabilityStatusReason>PRICE -- No Price Header Found</AvailabilityStatusReason>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>0</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>S17781</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>ssvbeeob</SpecialServiceCode>

<SpecialServiceDesc>test ssv obs</SpecialServiceDesc>

<SpecialServiceSupplier>GENERIC</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>50</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>PPD</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>S17782</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>test200</SpecialServiceCode>

<SpecialServiceDesc>fruit basket</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>DN</AvailabilityStatusCode>

<AvailabilityStatusDesc>\*\*\* DENIED \*\*\*</AvailabilityStatusDesc>

<AvailabilityStatusReason>PRICE -- No Price Header Found</AvailabilityStatusReason>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>0</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>S17783</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>apreda2</SpecialServiceCode>

<SpecialServiceDesc>apreda person/night</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>560</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>O12019</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>apreda3</SpecialServiceCode>

<SpecialServiceDesc>apreda cbn/stay</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>20</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>O12020</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>apreda4</SpecialServiceCode>

<SpecialServiceDesc>apreda cbn/night</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>280</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>O12021</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

<SpecialServiceItem>

<SpecialServiceInfo>

<SpecialServiceCode>obsapred</SpecialServiceCode>

<SpecialServiceDesc>obsapreda1</SpecialServiceDesc>

<SpecialServiceSupplier>SN0927</SpecialServiceSupplier>

</SpecialServiceInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>200</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>O12022</ComponentID>

<CruiseComponentID>Z41019</CruiseComponentID>

<ComponentsPriced/>

</ComponentInfo>

</SpecialServiceItem>

</SpecialServiceProducts>

</DtsShopResponseMessage>

The node ***SpecialServiceProducts*** contains all the Secial Services and OBS associated items components within the ***SpecialServiceItem*** nodes:

* The ***SpecialServiceCode*** is the item type code.
* The ***PriceAmount*** is the item type amount.
* The ***ComponentID*** is the iitem type component id.

## **Insurance Shopping.**

**REQUEST:**

<DtsShopRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>TEST</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<PricingShopInfo>

<NoAdults>2</NoAdults>

</PricingShopInfo>

<!-- INS -->

<InsuranceShop>

<!-- CRU -->

<CoveredItemsInfo>

<ItemComponentID>Z41019</ItemComponentID>

</CoveredItemsInfo>

<!-- OBS M "APREDA person/stay" -->

<CoveredItemsInfo>

<ItemComponentID>O12009</ItemComponentID>

</CoveredItemsInfo>

<!-- OBS O "apreda person/night" -->

<CoveredItemsInfo>

<ItemComponentID>O12010</ItemComponentID>

</CoveredItemsInfo>

<!-- OBS S-2 "apreda cbn/night" -->

<CoveredItemsInfo>

<ItemComponentID>O12012</ItemComponentID>

</CoveredItemsInfo>

<!-- SSV Shopped "test ssv obst" -->

<CoveredItemsInfo>

<ItemComponentID>S17782</ItemComponentID>

</CoveredItemsInfo>

<!—SSV/OBS Asscociated "obsapred" -->

<CoveredItemsInfo>

<ItemComponentID>O12022</ItemComponentID>

</CoveredItemsInfo>

</InsuranceShop>

</DtsShopRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The node ***InsuranceShop*** contains more nodes ***CoveredItemsInfo*** than the Cruise Items shopped.

Each shopped item component is valued in the tag ***ItemComponentID***.

**RESPONSE:**

<DtsShopResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>TEST</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<PricingShopInfo>

<NoAdults>2</NoAdults>

<NoChildren>0</NoChildren>

<ShopInsurance>N</ShopInsurance>

</PricingShopInfo>

<HotelProducts/>

<ActivityProducts/>

<TransportationProducts/>

<TransferProducts/>

<CarProducts/>

<MiscellaneousProducts/>

<InsuranceProducts>

<InsuranceType>

<ProductInfo>

<InsTypeCode>insbeeob</InsTypeCode>

<InsTypeDescription>test insurance obs</InsTypeDescription>

</ProductInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>600</PriceAmount>

<DepositAmount>0</DepositAmount>

</PriceInfo>

<ComponentInfo>

<ComponentID>I27167</ComponentID>

<ComponentsPriced/>

</ComponentInfo>

</InsuranceType>

<InsuranceType>

<ProductInfo>

<InsTypeCode>IT/INS01</InsTypeCode>

<InsTypeDescription>Contrib. emissione polizza E.A</InsTypeDescription>

<InsSupplierCode>VN1878</InsSupplierCode>

</ProductInfo>

<AvailabilityInfo>

<AvailabilityStatusCode>AV</AvailabilityStatusCode>

<AvailabilityStatusDesc>AVAILABLE AT THIS TIME</AvailabilityStatusDesc>

</AvailabilityInfo>

<PriceInfo>

<PriceAmount>116</PriceAmount>

<DepositAmount>0</DepositAmount>

<PaymentType>DIR</PaymentType>

</PriceInfo>

<ComponentInfo>

<ComponentID>I27168</ComponentID>

<ComponentsPriced/>

</ComponentInfo>

</InsuranceType>

</InsuranceProducts>

<AirProducts/>

<TourPackageProducts/>

<FlexiblePackageProducts/>

<CruiseProducts/>

<SpecialServiceProducts/>

</DtsShopResponseMessage>

The node ***InsuranceProducts*** contains all the insurance components within the ***InsuranceType*** nodes, the first ***InsuranceProducts*** node is the Insurance to book:

* The ***InsTypeCode*** is the insurance type code.
* The ***PriceAmount*** is the insurance type amount. It has been calculated in relation with the cruise component and the category items component (see the request). If you intend to book the associated item component below, the insurance price should increase.
* The ***ComponentID*** **(I27167)** is the insurance type component id.

## **Booking Price Calculation.**

**REQUEST:**

<DtsPriceToBookRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>TEST</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<ComponentsToPrice>

<!-- CRU -->

<ComponentDetails>

<ComponentID>Z41019</ComponentID>

<CategoryCode>10</CategoryCode>

</ComponentDetails>

<!-- OBS M "APREDA person/stay" -->

<ComponentDetails>

<ComponentID>O12009</ComponentID>

</ComponentDetails>

<!-- OBS O "apreda person/night" -->

<ComponentDetails>

<ComponentID>O12010</ComponentID>

</ComponentDetails>

<!-- OBS S-2 "apreda cbn/night" -->

<ComponentDetails>

<ComponentID>O12012</ComponentID>

</ComponentDetails>

<!-- SSV Shopped "test ssv obst" -->

<ComponentDetails>

<ComponentID>S17782</ComponentID>

</ComponentDetails>

<!-- SSV Asscociated "obsapreda1" -->

<ComponentDetails>

<ComponentID>O12022</ComponentID>

</ComponentDetails>

<!-- INS "test insurance obs" -->

<ComponentDetails>

<ComponentID>I27167</ComponentID>

</ComponentDetails>

</ComponentsToPrice>

</DtsPriceToBookRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***CategoryCode*** has been calculated in the **DtsCruiseCategoryAvailabilityResponse.**

The node ***ComponentsToPrice*** contains all the shopped booking components within the ***ComponentDetails*** nodes:

* The ***ComponentID*** **(Z41019)** is the cruise component; it has been calculated in the **DtsShopMessageResponse**.
* The ***ComponentID*** **(O12009)** is the mandatory item (OBS) component; it has been calculated in the **DtsCategoryItemResponseMessage**.
* The ***ComponentID*** **(O12010)** is the optional item (OBS) component; it has been calculated in the **DtsCategoryItemResponseMessage**.
* The ***ComponentID*** **(O12012)** is the substitutable item (OBS) component with priority 2; it has been calculated in the **DtsCategoryItemResponseMessage**.
* The ***ComponentID*** **(S17782)** is an additional items (SSV) component calculated in the **DtsShopResponseMessage** used for additional and associated items shopping
* The ***ComponentID*** **(O12022)** is an associated items (OBS) component calculated in the **DtsShopResponseMessage** used for additional and associated items shopping.
* The ***ComponentID*** **(I27167)** is the insurance component component calculated in the last **DtsShopResponseMessage**.

**RESPONSE:**

<DtsPriceToBookResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

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<BookingContactName>TEST</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<AdvisoryInfo/>

<ComponentsPricedList>

<ComponentPrice>

<ComponentID>Z41019</ComponentID>

<ItemGrossPrice>4480</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>1120</TotalPrice>

<TaxAmount>120</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>1120</TotalPrice>

<TaxAmount>120</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>3</PersonNo>

<TotalPrice>1120</TotalPrice>

<TaxAmount>120</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>4</PersonNo>

<TotalPrice>1120</TotalPrice>

<TaxAmount>120</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>O12009</ComponentID>

<ItemGrossPrice>40</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>10</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

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<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>10</TotalPrice>

<TaxAmount>0</TaxAmount>

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<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>3</PersonNo>

<TotalPrice>10</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

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<TotalPrice>10</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>O12010</ComponentID>

<ItemGrossPrice>280</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>70</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

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<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>70</TotalPrice>

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<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

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<TotalPrice>70</TotalPrice>

<TaxAmount>0</TaxAmount>

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<FuelSur>0</FuelSur>

</PassengerPrice>

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<TotalPrice>70</TotalPrice>

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<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>O12012</ComponentID>

<ItemGrossPrice>70</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>17.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>17.5</TotalPrice>

<TaxAmount>0</TaxAmount>

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</PassengerPrice>

<PassengerPrice>

<PersonNo>3</PersonNo>

<TotalPrice>17.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>4</PersonNo>

<TotalPrice>17.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>S17782</ComponentID>

<ItemGrossPrice>50</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>12.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>12.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>3</PersonNo>

<TotalPrice>12.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>4</PersonNo>

<TotalPrice>12.5</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>O12022</ComponentID>

<ItemGrossPrice>200</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>1</PersonNo>

<TotalPrice>50</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>50</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

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</PassengerPrice>

<PassengerPrice>

<PersonNo>3</PersonNo>

<TotalPrice>50</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

<PassengerPrice>

<PersonNo>4</PersonNo>

<TotalPrice>50</TotalPrice>

<TaxAmount>0</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

<ComponentPrice>

<ComponentID>I27167</ComponentID>

<ItemGrossPrice>600</ItemGrossPrice>

<PricePerPassenger>

<PassengerPrice>

<PersonNo>2</PersonNo>

<TotalPrice>150</TotalPrice>

<TaxAmount>100</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

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<PassengerPrice>

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<TotalPrice>150</TotalPrice>

<TaxAmount>100</TaxAmount>

<TotalSurcharges>0</TotalSurcharges>

<FuelSur>0</FuelSur>

</PassengerPrice>

</PricePerPassenger>

</ComponentPrice>

</ComponentsPricedList>

<BookingPrice>

<TotalGrossPrice>5720</TotalGrossPrice>

<DepositAmountDue>0</DepositAmountDue>

<FinalPaymentDate>2012-06-15</FinalPaymentDate>

</BookingPrice>

</DtsPriceToBookResponseMessage>

For each shopped component the node ***ComponentPrice*** contains the item gross price (***ItemGrossPrice***).

The node ***BookingPrice*** contains the booking gorss price (***TotalGrossPrice***).

## **Booking.**

**REQUEST:**

<DtsBookRequestMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingAction>

<BookOrQuote>B</BookOrQuote>

</BookingAction>

<BookingContext>

<BookingContactName>TEST</BookingContactName>

<OfficeCode>ITA</OfficeCode>

</BookingContext>

<ParticipantList>

<ParticipantData>

<PersonNo>1</PersonNo>

<PassengerNo>Text</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>A</PersonType>

<Gender>M</Gender>

</ParticipantData>

<ParticipantData>

<PersonNo>2</PersonNo>

<PassengerNo>Text</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>A</PersonType>

<Gender>F</Gender>

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<FirstName>Test</FirstName>

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</ParticipantList>

<ComponentsToBook>

<!-- CRU -->

<ComponentDetails>

<ComponentID>Z41019</ComponentID>

<CategoryCode>10</CategoryCode>

<CabinNo>12040</CabinNo>

</ComponentDetails>

<!-- OBS M "APREDA person/stay" -->

<ComponentDetails>

<ComponentID>O12009</ComponentID>

</ComponentDetails>

<!-- OBS O "apreda person/night" -->

<ComponentDetails>

<ComponentID>O12010</ComponentID>

</ComponentDetails>

<!-- OBS S-2 "apreda cbn/night" -->

<ComponentDetails>

<ComponentID>O12012</ComponentID>

</ComponentDetails>

<!-- SSV Shopped "test ssv obst" -->

<ComponentDetails>

<ComponentID>S17782</ComponentID>

</ComponentDetails>

<!-- SSV Asscociated "obsapreda1" -->

<ComponentDetails>

<ComponentID>O12022</ComponentID>

</ComponentDetails>

<!-- INS "test insurance obs" -->

<ComponentDetails>

<ComponentID>I27167</ComponentID>

</ComponentDetails>

</ComponentsToBook>

</DtsBookRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

The ***BookOrQuote*** shall have the values **b** or **q**: create a (**b**)ooking or a (**q**)uote**.**

The ***CategoryCode*** has been calculated in the **DtsCruiseCategoryAvailabilityResponse.**

The node ***ComponentsToBook*** contains all the shopped booking components within the ***ComponentDetails*** nodes.

**RESPONSE:**

<DtsBookResponseMessage>

<SessionInfo>

<SessionID>9138</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>TEST</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

<BookingNo>7158475</BookingNo>

</BookingContext>

<AdvisoryInfo/>

<BookingInfo>

<BookingCharges>

<TotalGrossPrice>5720</TotalGrossPrice>

<TotalNetPrice>5061.48</TotalNetPrice>

<DepositAmountDue>0</DepositAmountDue>

<DepositDueDate>2011-06-22</DepositDueDate>

<TotalPaymentsReceived>0</TotalPaymentsReceived>

<GrossBalanceDue>5720</GrossBalanceDue>

<NetBalanceDue>5061.48</NetBalanceDue>

<OptionExpiresDate>2011-06-22</OptionExpiresDate>

<FinalPaymentDate>2012-06-15</FinalPaymentDate>

</BookingCharges>

</BookingInfo>

</DtsBookResponseMessage>

The ***BookingNo*** node contains the reference number assigned to the booking at booking creation time.

The ***TotalGrossPrice*** node contains the total gross price (including commissions) for a booking or booking item.

The ***TotalNetPrice*** node contains the total price for a booking (net of commissions).

The ***OptionExpiresDate*** node contains the option expiry date.

## **Retrieving Booking Informations and Items.**

**REQUEST:**

<DtsRetrieveBookingRequestMessage>

<SessionInfo>

<SessionID>11487</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<AgentID>test</AgentID>

<BookingContactName>xml Test Contact</BookingContactName>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

<MarketCode>ITA</MarketCode>

<BookingNo>7158475</BookingNo>

</BookingContext>

</DtsRetrieveBookingRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

**RESPONSE:**

<?xml version="1.0" encoding="utf-8"?>

<DtsRetrieveBookingResponseMessage>

<SessionInfo>

<SessionID>11487</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

<BookingNo>7158475</BookingNo>

<MarketName>Italian Market</MarketName>

<OfficeName>MSC Crociere SpA</OfficeName>

</BookingContext>

<AdvisoryInfo/>

<BookingInfo>

<BookingFor>

<PrimaryProductType>CRU</PrimaryProductType>

<PrimaryProductDesc>MSC FANTASIA 15/07/12 12040/10/GOA-GOA</PrimaryProductDesc>

<BkgDepartDate>2012-07-15</BkgDepartDate>

<NumberPax>4</NumberPax>

<AgencySourceCode>YYYYYYYY</AgencySourceCode>

<LoyaltyBooking>no</LoyaltyBooking>

</BookingFor>

<BookingStatus>

<BookingStatusCode>OPT</BookingStatusCode>

<BookingStatusDesc>On Option</BookingStatusDesc>

<PaymentStatusCode>40</PaymentStatusCode>

<PaymentStatusDescription>No payments received, no deposit required</PaymentStatusDescription>

<BookingType>IND</BookingType>

<BookedDate>2011-06-21</BookedDate>

<LastChangedDate>2011-06-21</LastChangedDate>

<LastChangedBy>Itadmin</LastChangedBy>

</BookingStatus>

<BookingCharges>

<TotalGrossPrice>5720</TotalGrossPrice>

<TotalNetPrice>5061.48</TotalNetPrice>

<DepositAmountDue>0</DepositAmountDue>

<DepositDueDate>2011-06-22</DepositDueDate>

<TotalPaymentsReceived>0</TotalPaymentsReceived>

<GrossBalanceDue>5720</GrossBalanceDue>

<NetBalanceDue>5061.48</NetBalanceDue>

<OptionExpiresDate>2011-06-22</OptionExpiresDate>

<FinalPaymentDate>2012-06-15</FinalPaymentDate>

</BookingCharges>

<SpecialNeedCodeList/>

</BookingInfo>

<OfficeAddress>

<AddressLine1>via Depretis, 31</AddressLine1>

<City>Napoli</City>

<StateProvince>CAM</StateProvince>

<DistrictCode>NA</DistrictCode>

<ZipPostalCode>80133</ZipPostalCode>

<CountryCode>ITA</CountryCode>

<TelephoneNo>+390817942111</TelephoneNo>

<FaxNo>+390817942222</FaxNo>

<Email> aaaaaa.bbbb@msccrociere.it </Email>

</OfficeAddress>

<AgencyAddress>

<AgencyName>Test agent for MSC reviews</AgencyName>

<AddressLine1>Piazza Municipio, 1</AddressLine1>

<City>NAPOLI</City>

<StateProvince>CAM</StateProvince>

<DistrictCode>NA</DistrictCode>

<ZipPostalCode>80133</ZipPostalCode>

<CountryCode>ITA</CountryCode>

<TelephoneNo>0817942284</TelephoneNo>

<FaxNo>0817942999</FaxNo>

<Email>aaaaaa.bbbb@msccrociere.it</Email>

<SendDocsToPax>no</SendDocsToPax>

<MaskCommission>yes</MaskCommission>

</AgencyAddress>

<ParticipantList>

<ParticipantData>

<PersonNo>1</PersonNo>

<PassengerNo>19150358</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>A</PersonType>

<Gender>M</Gender>

<LeadPax>yes</LeadPax>

<PassportData/>

<ParticipantAddress/>

<FrequentTravelerNumbers/>

</ParticipantData>

<ParticipantData>

<PersonNo>2</PersonNo>

<PassengerNo>19150359</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>A</PersonType>

<Gender>F</Gender>

<LeadPax>yes</LeadPax>

<PassportData/>

<ParticipantAddress/>

<FrequentTravelerNumbers/>

</ParticipantData>

<ParticipantData>

<PersonNo>3</PersonNo>

<PassengerNo>19150360</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>C</PersonType>

<Gender>F</Gender>

<LeadPax>yes</LeadPax>

<PassportData/>

<ParticipantAddress/>

<FrequentTravelerNumbers/>

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<ParticipantData>

<PersonNo>4</PersonNo>

<PassengerNo>19150361</PassengerNo>

<LastName>Test</LastName>

<FirstName>Test</FirstName>

<PersonType>C</PersonType>

<Gender>M</Gender>

<LeadPax>yes</LeadPax>

<PassportData/>

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<TravelWiths/>

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<MiscellaneousBookings/>

<InsuranceBookings>

<InsuranceBooking>

<InsTypeCode>insbeeob</InsTypeCode>

<InsTypeDescription>test insurance obs</InsTypeDescription>

<StatusInfo>

<BookingStatusCode>BKD</BookingStatusCode>

<BookingStatusDesc>Booked</BookingStatusDesc>

</StatusInfo>

<PriceInfo>

<GrossPriceAmount>600</GrossPriceAmount>

<CommissionAmount>0</CommissionAmount>

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<PersonNo>2</PersonNo>

<PersonNo>3</PersonNo>

</ParticipantIDs>

<ComponentInfo>

<ComponentID>I27241</ComponentID>

<BookedDate>2011-06-23</BookedDate>

</ComponentInfo>

</InsuranceBooking>

</InsuranceBookings>

<AirBookings/>

<TourPackageBookings/>

<CruiseBookings>

<CruiseSailing>

<CruiseID>FA20120715GOAGOA</CruiseID>

<ShipCode>FA</ShipCode>

<ShipName>MSC FANTASIA</ShipName>

<ShipGraphicsUrl>/images/msc/shp/Fantasia.gif</ShipGraphicsUrl>

<SailingDate>2012-07-15</SailingDate>

<SailingTime>1700</SailingTime>

<SailingPort>GOA</SailingPort>

<ReturnDate>2012-07-22</ReturnDate>

<ReturnPort>GOA</ReturnPort>

<SailingLengthDays>7</SailingLengthDays>

<ItineraryCode>FG50</ItineraryCode>

<ItineraryDescription>Italy,Tunisia,Spain,France</ItineraryDescription>

<ItineraryGraphicsUrl>/images/msc/iti/itin/FG50.jpg</ItineraryGraphicsUrl>

<CategoryCode>10</CategoryCode>

<CategoryDesc>Outside balcony</CategoryDesc>

<CategoryGraphicsUrl>/images/msc/ships-decks/Ships/Fantasia/Cabin\_Photo/FA\_10\_OutsideBalcony.jpg</CategoryGraphicsUrl>

<CabinNo>12040</CabinNo>

<CabinConfigCode>S4</CabinConfigCode>

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<ChargeDesc>OnBoard Services</ChargeDesc>

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<ChargeDesc>OnBoard Service Tax</ChargeDesc>

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<DiscountAmount>0</DiscountAmount>

<GrossChargeAmount>0</GrossChargeAmount>

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</ChargesForComponent>

</ChargeDetails>

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## **Booking Confirmation Quote.**

**REQUEST:**

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<SessionID>11487</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>YYYYYYYY</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<BookingNo>7158475</BookingNo>

</BookingContext>

</DtsConfirmQuoteRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

**RESPONSE:**

<DtsConfirmQuoteResponseMessage>

<SessionInfo>

<SessionID>11487</SessionID>

<Profile>A</Profile>

<Language>ITA</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>YYYYYYYY</AgencyID>

<BookingNo>7158475</BookingNo>

</BookingContext>

<AdvisoryInfo/>

</DtsConfirmQuoteResponseMessage>

## **Booking Confirmation.**

**REQUEST:**

<DtsConfirmBookingRequestMessage>

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<SessionID>11487</SessionID>

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<Language>ITA</Language>

<Version>1.0</Version>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXXXXX</AgencyID>

<AgentID>YYYYYYYY</AgentID>

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<BookingCurrencyCode>EUR</BookingCurrencyCode>

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<MarketCode>ITA</MarketCode>

<BookingNo>7158475</BookingNo>

</BookingContext>

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<BookingNo>7158475</BookingNo>

</BookingContext>

<AdvisoryInfo/>

</DtsConfirmBookingResponseMessage>

## **Update Information Passenger.**

**REQUEST:**

<DtsPaxUpdateRequestMessage>

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<Language>ENG</Language>

<Version>1</Version>

<SessionID>11487</SessionID>

</SessionInfo>

<BookingContext>

<AgencyID>XXXXX</AgencyID>

<BookingContactName>xml Test Contact</BookingContactName>

<MarketCode>ITA</MarketCode>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<LanguageCode>ITA</LanguageCode>

<OfficeCode>ITA</OfficeCode>

<BookingNo>7158475</BookingNo>

</BookingContext>

<ParticipantList>

<ParticipantData>

<PersonNo>1</PersonNo>

<Action>UPD</Action>

<LastName>test</LastName>

<FirstName>test</FirstName>

<DateOfBirth>1950-10-15</DateOfBirth>

</ParticipantData>

<PassportData>

<PassportNo>AI22222</PassportNo>

<PassportIssuedDate>2000-04-17</PassportIssuedDate>

<PassportIssuedAt>2013-04-18</PassportIssuedAt>

<PassportExpireDate>2017-04-16</PassportExpireDate>

<NationalID>123456</NationalID>

<NatIDExpryDate>2015-04-16</NatIDExpryDate>

<PersonNo>1</PersonNo>

</PassportData>

</ParticipantList>

</DtsPaxUpdateRequestMessage>

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**RESPONSE:**

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<SessionID>11487</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingNo>7158475</BookingNo>

<BookingContactName>xml Test Contact</BookingContactName>

</BookingContext>

</DtsPaxUpdateResponseMessage>

## **Recap Booking.**

**REQUEST:**

<DtsRecapBookingRequestMessage>

<SessionInfo>

<SessionID>630235</SessionID>

<Profile>A</Profile>

<Language>ENG</Language>

<Version>1</Version>

</SessionInfo>

<BookingContext>

<BookingContactName>XML Test</BookingContactName>

<BookingCurrencyCode>EUR</BookingCurrencyCode>

<BookingNo>11653012</BookingNo>

</BookingContext>

</DtsRecapBookingRequestMessage>

The ***SessionID*** has been calculated in the **DtsAgencyLoginResponse**.

**RESPONSE:**

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<B><FONT SIZE=+1>CUSTOM ITINERARY<BR></FONT></B>

<HR>

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<TR><TD COLSPAN=2>&nbsp;</TD></TR>

<TR>

<TD ALIGN='left' COLSPAN=2>

<B>BOOKING NUMBER 11653012</B>&nbsp;&nbsp;

<I>(Please use this as your reference)</I>

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<TR><TD COLSPAN=2>&nbsp;</TD></TR>

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<TH WIDTH='20%' ALIGN='left'>BOOKED BY:</TH>

<TD><EM>techtrade</EM></TD>

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<TH ALIGN='left' >Name</TH>

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<TD ALIGN='center'>1</TD>

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<TD COLSPAN=5><B><HR><I>Germany,United Kingdom,France,Belgium,Netherlands - MSC MAGNIFICA</I></B><HR></TD>

<TD>&nbsp;</TD>

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<TD>&nbsp;</TD>

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<TR>

<TD>&nbsp;</TD>

<TD ALIGN='right'>Departure Port:</TD>

<TD ALIGN='left'>Hamburg, Germany (HAM)</TD>

<TD ALIGN='right'>Date:&nbsp;22 Apr 2013</TD>

<TD ALIGN='right'>Check-In Time:</TD>

<TD ALIGN='left'>18:00</TD>

<TD ALIGN='right'>Sailing Time:</TD>

<TD ALIGN='left'>21:00</TD>

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<TD ALIGN='right'>Arrival Port:</TD>

<TD ALIGN='left'>Hamburg, Germany (HAM)</TD>

<TD ALIGN='right'>Date:&nbsp;01 May 2013</TD>

<TD ALIGN='right'>Arrival Time:</TD>

<TD ALIGN='left' COLSPAN=3>10:30</TD>

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<TD COLSPAN=9>&nbsp;</TD>

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<TD ALIGN='right' COLSPAN=2>Cabin Occupants:</TD>

<TD COLSPAN=6>1, 2</TD>

<TD>&nbsp;</TD>

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<TR><TD COLSPAN=9>&nbsp;</TD></TR>

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MSC Web Services Architecture

MSC supports the Service Oriented Architecture (SOA) for the XML Web Services.

Specific location and implementation information about the Web service are the concrete parts of the Web Services Description Language (WSDL) document, as represented by the binding, service, and endpoint (or port) elements.

The WSDL is available to this URL: [**http://www.msconline.com/mscws\_wsdl.xml**](http://www.msconline.com/mscws_wsdl.xml) .

Another specification is the protocol supported: SOAP Simple Object Access Protocol.

The tool for Web Service testing used is soapUI: <http://sourceforge.net/projects/soapui/files/soapui/3.0.1/soapUI-x32-3_0_1.exe/download>

The URL for accessing to test environment is: [**http://www.msconline.com/mscws\_test.php**](http://www.msconline.com/mscws_test.php).

## **soapUI Example (Login).**

**REQUEST:**

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:urn="urn:it-progress-operate:ws\_operate">

<soapenv:Header/>

<soapenv:Body>

<urn:wssigateway>

<urn:ipcInvocationName>wsinvokeservice</urn:ipcInvocationName>

<urn:ipcMethodNamespace>svcmsgxml.bldximsgin</urn:ipcMethodNamespace>

<urn:ttIn>

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<urn:ttInRow>

<urn:ParPos>0</urn:ParPos>

<urn:ParNam>MethodName</urn:ParNam>

<urn:ParVal>POST</urn:ParVal>

</urn:ttInRow>

<urn:ttInRow>

<urn:ParPos>1</urn:ParPos>

<urn:ParNam>XMLDocumentIn</urn:ParNam>

<urn:ParVal>

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**<DtsAgencyLoginMessage>**

**<LoginInfo>**

**<AgencyID>XXXXXXXX</AgencyID>**

**<AgentID>YYYYYYYY</AgentID>**

**<AgentPassword>\*\*\*\*\*\*\*\*</AgentPassword>**

**</LoginInfo>**

**</DtsAgencyLoginMessage>**

**]]>**

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<urn:ParVal/>

</urn:ttOutRow>

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<urn:ParPos>1</urn:ParPos>

<urn:ParNam>Result</urn:ParNam>

<urn:ParVal/>

</urn:ttOutRow>

<urn:ttOutRow>

<urn:ParPos>2</urn:ParPos>

<urn:ParNam>XMLDocumentOut</urn:ParNam>

<urn:ParVal/>

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</urn:wssigateway>

</soapenv:Body>

</soapenv:Envelope>

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**RESPONSE:**

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<SOAP-ENV:Header>

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<wsa:To SOAP-ENV:mustUnderstand="0">http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>

</SOAP-ENV:Header>

<SOAP-ENV:Body>

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<ns1:result xsi:nil="true"/>

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</ttOutRow>

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<ParNam>XMLDocumentOut</ParNam>

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**<Profile>A</Profile>**

**<Language>ENG</Language>**

**<Version>1</Version>**

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</ttOut>

<ns1:opcErrorMessage/>

</ns1:wssigatewayResponse>

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</SOAP-ENV:Envelope>

The ***<![CDATA[*** tag contains **DtsAgencyLoginResponse** message.