

**Oracle® Hospitality OPERA Exchange  
Interface**  
Guest Stay Data XML Specifications

October 2017

Copyright © 2009, 2017, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

---

---

# Contents

- Preface..... 4**
  - Audience .....4
  - Customer Support.....4
  - Documentation.....4
  
- 1 Introduction..... 5**
  - Guest Stay Data from OPERA to External System .....5
  - Business Events Needed for Sending Stay Data to the External System.....5
  - Mapping Table Data Elements .....5
  - Stay Data - Mapping between External System and XML Message .....6
  - Requirements to Build the XML Messages.....10
  - XML Message Header Label.....11

---

---

# Preface

This document describes the Guest Stay Data XML schema layout and data elements used for the OPERA Xchange Interface. It further explains the mapping of the XML data elements into the OPERA application and the generic business rules that are applied.

In the following document we will refer to the third party system as external system. Third Party Systems can be central reservation systems, property management systems, or others. The OPERA applications will be referred to as OPERA. Please note that OPERA can function as single property OPERA, multi property OPERA, or as central system OPERA. The respective differences between these OPERA flavors will be addressed where necessary. The OPERA Exchange Interface will be referred to as OXI.

The specifications in this document are based on the XML schema version 3.0, compatible with OPERA version 2.5 onwards.

## Audience

This document is intended for those developing custom applications that interact with Guest Stay Data functionality in OPERA through OXI.

## Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:  
<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screen shots of each step you take

## Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at <http://docs.oracle.com/en/industries/hospitality/>

---

---

# 1 Introduction

## Guest Stay Data from OPERA to External System

### Options and restrictions

- If OPERA is the PMS, it will trigger a business event CLOSE BUSINESS DATE once the night audit is completed. OXI will send the Stay and Membership information once that business event has been retrieved. This will allow all the revenue information to be available in the uploaded messages.
- The data of all departed guests will be collected from the OPERA tables and built into an XML message for upload to the external system.
- Status departed and check-out date will filter the records eligible for upload = last system date.
- All stay and revenue information will come up per stay.

## Business Events Needed for Sending Stay Data to the External System

Module	Business Event (Action type)	Business Type
Night audit	Close business date	Business event to inform about the completion of the night audit process.
Night audit	Roll business date	Rolls the business date.

## Mapping Table Data Elements

Legend for mapping table:

Date Element	Description
External System Column	Indicates the possible external system value in <i>italics</i> . This column is blank if no value is required and it describes schema layout only.
XML Main Group	The main group in the HITIS/XML schema containing all data elements that belong to this group.
XML Message Label	The label or tag that is given to the data element in this XML schema. These labels are derived from HITIS and are standard for all Micros-Fidelio XML schema labels.
Mandatory in XML Message?	Indicates whether this data element is mandatory for OPERA.
Business Rules	Description of data element, conversion table name if applicable, all business rules, and functionality description.

---

## Stay Data - Mapping between External System and XML Message

The original schemas contain more data elements than are described in the following mapping table. Whatever is not described is not used by OXI and can be ignored in the schema. All additions from XML schema version 1+ to schema version 2.0 are shown in blue color.

External System Column	XML Message Main Group	XML Message Label	Mandatory in XML Message?	Business Rules
				A business event for CLOSE BUSINESS DATE is created each night from OPERA PMS. This will be the initiator to collect stay/membership data for the interface
Inactivation Date			mfnInactiveDate	Inactivation date for stay record. This will lead to the deletion of the stay record in the receiving system.
Hotel Code	Stay Object	Hotel Reference	hotelCode	Property for which reservation is created. In case of a multi property environment, we will need to retrieve a reservation history record based on the resort ID.

Chain Code	Stay Object	Hotel Reference	ChainCode	Chain the property belongs to. Not used at the moment. Rules: XML Message - PMS CHECKED OUT - Checked Out. 1. OXI uploads only departed guests. 2. Checked out guests are filtered in the PMS table by status 'CHECKED OUT and check-out date = sysdate - 1 (date before night audit).
Reservation Number	Stay Object		resortBookNo	OPERA PMS reservation number.
Guest Profile	Stay Object		pmsGuestID	Guest profile linked to reservation.
Inactivation Date for Membership			mfnInactiveDate	Inactivation date for stay membership. This will lead to the deletion of the membership record in the receiving system.
Membership Type	Stay Object	Stay Membership	membershipType	Frequent guest or frequent flyer membership type. Rules: OXI conversion table for membership types will be used.
Membership Number	Stay Object	Stay Membership	memberNumber	Frequent guest or frequent flyer membership number of guest.
Free Nights Member Number	Stay Object		fnMemberNo	Currently not used.
Free Nights used	Stay Object		freeNightsUsed	Currently not used.
Cancellation Date	Stay Object		cancellationDate	This is the cancellation date created by PMS.
Actual Check-in Date	Stay Object		actualArrivalDate	Actual check-in date.

Actual Departure Date	Stay Object		actualDepartureDate	Actual check-out date.
OriginalBookingDate	Stay Object		bookDate	Date of reservation creation.
Departure Date	Stay Object		bookedDepartureDate	Original departure date of total reservation.
Arrival Date	Stay Object		bookedArrivalDate	Original arrival date of total reservation.
Share Number	Stay Object		shareNo	If the reservation is a shared reservation this will be populated.
Complimentary Stay	Stay Object		compYN	Was reservation complimentary. Default to 'N'.
Adults	Stay Object		adults	Adults in this reservation.
Children	Stay Object		children	Children in this reservation.
CRS Booking Number	Stay Object		crsBookNo	CRS reservation number.
Room Type	Stay Object		pmsRoomCategory	Room type in PMS at the time of check out. Rules: OXI conversion table for room types will be used.
Room Number	Stay Object		roomNumber	Room number guest stayed in at the time of check-out.
Rate	Stay Object		pmsRateCode	Rate code for reservation leg in PMS at the time of check out. Rules: OXI conversion table for rate codes will be used.
Currency of the Rate Code	Stay Object	PMSRate	currencyCode	Currency of rate code in the PMS reservation. Rules: OXI conversion table for currency codes will be used.
Rate Value used		PMSRate	valueNum	Rate amount for reservation leg at time of check out.



	pmsCurrencyCode	Property currency code. Rules: OXI conversion table for currency codes will be used.
Source Code	sourceCode	Source code of booking for reservation leg at the time of check out. Rules: OXI conversion table for source codes will be used.
Market Code	marketCode	Market code for reservation leg at the time of check out. Rules: OXI conversion table for market codes will be used.
Attached Profile Source	pmsWholesalerID	Source profile linked to reservation in OPERA PMS.
Attached Profile Group	pmsGroupID	Group profile linked to reservation in OPERA PMS.
Attached Profile Travel Agent	pmsTaID	Travel Agent profile linked to reservation in OPERA PMS.
Attached Profile Company	pmsCompanyID	Company profile linked to reservation in OPERA PMS.
Channel Code	channel	Channel code at the time of check out. Rules: OXI conversion table for channel codes will be used.
Method of Payment	paymentMethod	Payment Method at the time of check out. Rules: OXI conversion table for payment methods will be used.

Inactivation Date for Revenue		rateCurrencyCode	Property Currency Code. Same as PMS currency code.
Inactivation Date for Revenue		mflnactiveDate	Inactivation date for stay revenue. This will lead to the deletion of the revenue record in the receiving system.
Revenue per Revenue Bucket	Stay Revenue	revenueType Amount currencyCode valueNum	Revenue for reservation. Rules: 1. OXI conversion table for revenue types will be used. 2. OPERA home currency is used.
	Awards	cardType	Award card type - Not currently used.
	Awards	awardType	Award type - Not currently used.
	Awards	awardMemberNumber	Award member number - Not currently used.
	Awards	quantity	Number of awards used for stay - Not currently used.
	Awards	datum	Date award has been used - Not currently used.
	Awards	idNumber	ID number for award - Not currently used.
	Awards	pmsProfileID	Internal profile ID in OPERA PMS - Not currently used.
	UDFs		Not currently used.

## Requirements to Build the XML Messages

### Information on the XML schemas used by OXI

- We are using Oracle xmlparser to parse the xml message
- The current OXI XML schemas are created before the W3C Specifications released, so they are not W3C compliant
- The current OXI XML schemas are derived from HITIS specifications
- The current OXI XML schemas are created using Microsoft SDK 3.0
- The current OXI XML schemas are called as XDR Schemas [XDR : The XML-Data Reduced (XDR) schema defines the individual elements, attributes, and relations used in the XML structure]

---

## XML Message Header Label

A label needs to be added in the XML message header so OXI can identify who the sender was. We have introduced this label as a standard for all messages:

```
INT |Resort |Msgtype |MsgId  
<?Label FTCRS|SANNO|RESERVATION|532317?>
```

INT	The interface name. This can be the external system name.
Resort	The external system property code, which will be converted into the OPERA property code.
MsgType	Message Type identifies what kind of message is received.
MsgID	Message ID from the external system. Should be a unique message ID.