

**Oracle® Hospitality OPERA Exchange
Interface**
Profile Lookup Vendor Specification

October 2017

Copyright © 2004, 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 Assumptions.....	5
2 Validations	6
3 Profile Lookup Lifecycle	7
4 HTTP Communication	8
Lookup Request.....	8
Profile Request.....	8
5 XML Schemas	9
Lookup Request.....	9
Lookup Response	10
Profile Request.....	12
Profile Response	12
6 HTTP Call Samples	13
Profile Lookup Request and Response	13
Profile Request.....	14

Preface

Profile lookup may be used to retrieve profile information from remote systems. At a minimum, profile lookup should provide the following functionality:

- Search for profiles matching the criteria provided by the user. It should accept wildcards as part of the matching criteria.
- Retrieve complete information of a profile when requested by specifying the unique identifier of the profile.

Audience

This document explains the functionality currently offered by OPERA XChange Interface for doing profile lookup in external systems from OPERA.

It is intended for third party vendor developers who might be implementing the functionality to interface with OPERA XChange Interface. Knowledge of HTTP protocol and server side implementation is a prerequisite to accomplish this task.

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 Assumptions

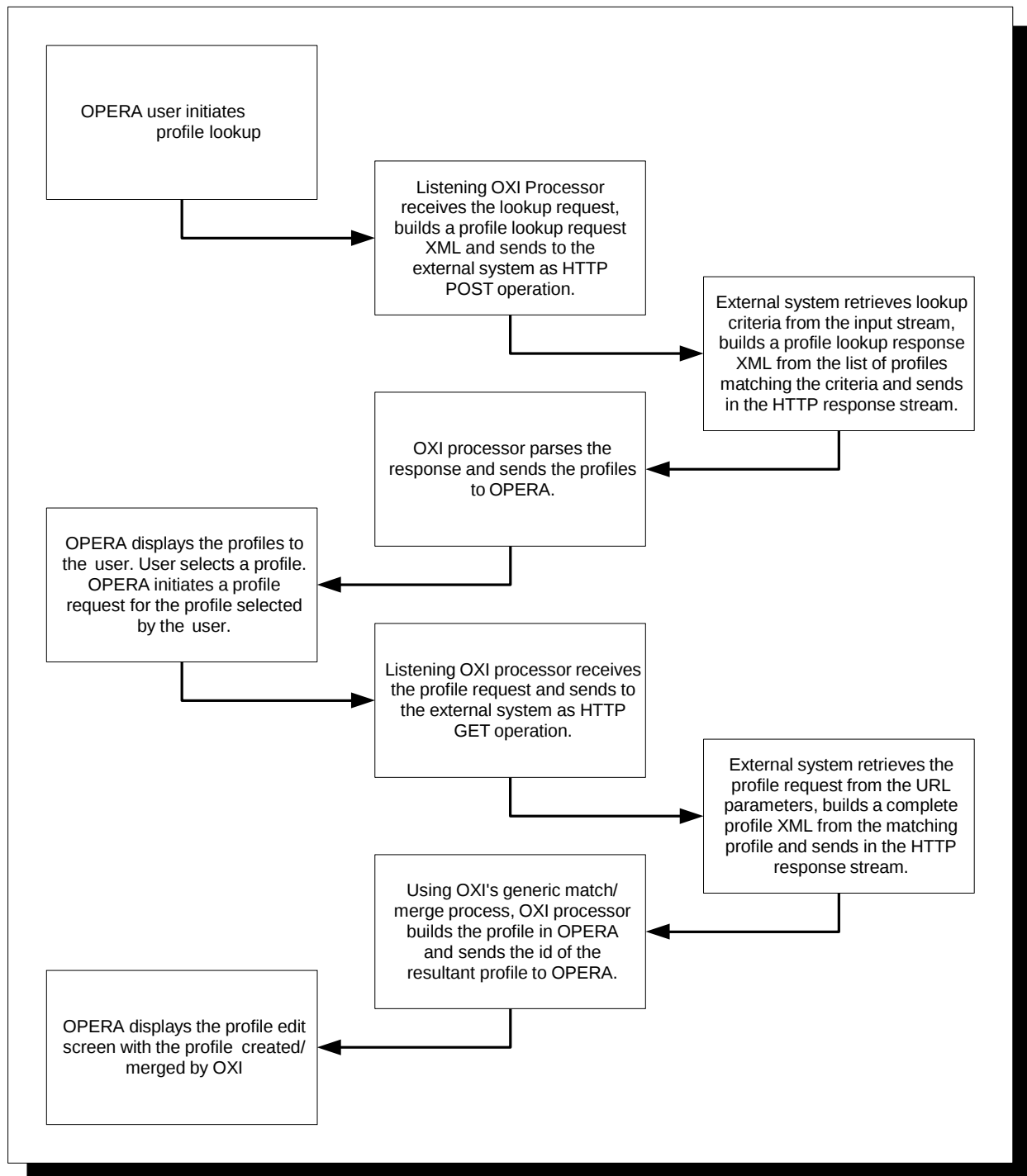
This document describes the intended functionality of profile lookup in OXI flavored interfaces. Details explained in this document may change as needed or required.

2 Validations

OXI does not validate the lookup criteria receive from OPERA. For details on any validations performed by OPERA, please refer to OPERA's documentation.

External systems may get a wild card profile lookup request. Neither OPERA nor OXI mandates any particular wild card conventions. A commonly used wild card is * for one or more characters.

3 Profile Lookup Lifecycle



4 HTTP Communication

Lookup Request

URL : [http://server\[:port\]/configurableUrl](http://server[:port]/configurableUrl)
HTTP Operation : POST
Parameters : none
Content-Type : text/xml
Data Stream : plquery XML message
Response Stream : plresult XML message

Profile Request

URL : [http://server\[:port\]/configurableUrl?](http://server[:port]/configurableUrl?propertyName=ExternalResort&transactionId=TransactionID&action=GETC RS&profileId=ExtSysUniqueProfileID)
propertyName=*ExternalResort*&transactionId=*TransactionID*&action=G
ETC RS&profileId=*ExtSysUniqueProfileID*
HTTP Operation : GET
Content-Type : text/xml
Data Stream : None
Response Stream : profile XML message

URL Parameters

Seq	Parameter Name	Type	Description
1	propertyName	string	Property code recognized by the external system. External resort configured in OXI's interface setup.
2	transactionId	int	Id to uniquely identify this request.
3	action	string	Always GETCRS.
4	profile_id	int	Unique profile Id recognized by the external system. This will be the value sent by the external system in ProfileSet\nameId element of plresult message.

5 XML Schemas

Lookup Request

XML Schema : plquery

XML Schema version : 1.1

Query

```
<xs:complexType name="Query">
  <xs:sequence>
    <xs:element name="propertyName" type="xs:string"/>
    <xs:element name="formatName" type="xs:string" minOccurs="0"/>
    <xs:element name="transactionId" type="xs:string"/>
    <xs:element name="setSize" type="xs:int" minOccurs="0"/>
    <xs:element name="transactionType" type="xs:string" minOccurs="0"/>
    <xs:element name="firstName" type="xs:string" minOccurs="0"/>
    <xs:element name="lastName" type="xs:string" minOccurs="0"/>
    <xs:element name="city" type="xs:string" minOccurs="0"/>
    <xs:element name="state" type="xs:string" minOccurs="0"/>
    <xs:element name="zip" type="xs:string" minOccurs="0"/>
    <xs:element name="country" type="xs:string" minOccurs="0"/>
    <xs:element name="memberNumber" type="xs:string" minOccurs="0"/>
    <xs:element name="creditCard" type="xs:string" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="profileType" type="xs:string"
    use="required"/>
</xs:complexType>
```

Name	Type	Data Type	Use	Comment
profileType	attribute	string	required	Type of the profile. Valid values are GUEST, CORPORATE, TRAVEL, GROUP and WHOLESALER. OXI uses profile type conversion.
propertyName	element	string	required	Property code recognized by the external system. External resort configured in OXI's interface setup.
formatName	element	string	optional	Not used.
transactionId	element	string	required	Unique id associated with the lookup request. Generated by OPERA while initiating the lookup.

setSize	element	int	optional	Maximum number of matching profiles to return in the response. External system should use this as a hint to limit the number of matching profiles.
transactionType	element	string	optional	Not used.
firstName	element	string	optional	First name of the profile. OPERA mandates this field.
lastName	element	string	optional	Last name of the profile. OPERA mandates this field.
city	element	string	optional	City of the profile.
state	element	string	optional	State of the profile.
zip	element	string	optional	Zip code of the profile.
country	element	string	optional	Country of the profile.
memberNumber	element	string	optional	Membership number.
creditCard	element	string	optional	Not used.

Lookup Response

XML Schema : plresult
XML Schema version : 1.0

LookupResult

```
<xs:complexType name="LookupResult">
  <xs:sequence>
    <xs:element name="transactionId" type="xs:string"/>
    <xs:element name="ProfileSets" type="ProfileSets" minOccurs="0"/>
    <xs:element name="errorMsg" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Name	Type	Data Type	Use	Comment
transactionId	element	string	required	transactionId sent in lookup request.
ProfileSets	element	ProfileSets	optional	List of matching profiles.
errorMsg	element	string	optional	Details of error, if any.

ProfileSets

```
<xs:complexType name="ProfileSets">
  <xs:sequence>
    <xs:element name="ProfileSet" type="ProfileSet" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

Name	Type	Data Type	Use	Comment
ProfileSet	element	ProfileSet	optional	Details of matching profile.

ProfileSet

```
<xs:complexType name="ProfileSet">
  <xs:sequence>
    <xs:element name="resortNameId" type="xs:string" minOccurs="0"/>
    <xs:element name="nameId" type="xs:int" minOccurs="0"/>
    <xs:element name="memberNumber" type="xs:string" minOccurs="0"/>
    <xs:element name="lastName" type="xs:string" minOccurs="0"/>
    <xs:element name="firstName" type="xs:string" minOccurs="0"/>
    <xs:element name="address" type="xs:string" minOccurs="0"/>
    <xs:element name="address2" type="xs:string" minOccurs="0"/>
    <xs:element name="city" type="xs:string" minOccurs="0"/>
    <xs:element name="state" type="xs:string" minOccurs="0"/>
    <xs:element name="zip" type="xs:string" minOccurs="0"/>
    <xs:element name="country" type="xs:string" minOccurs="0"/>
    <xs:element name="profileType" type="xs:string" minOccurs="0"/>
    <xs:element name="udf" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Name	Type	Data Type	Use	Comment
resortNameId	element	string	optional	Unique id of the profile in OPERA, if available.
nameId	element	int	optional	Unique id of the profile in external system. This value is mandatory as it is the key used while requesting for full profile when user selects a profile from the returned list of profiles.
memberNumber	element	string	optional	Membership number. OPERA displays this.
lastName	element	string	optional	Last name. OPERA displays this.
firstName	element	string	optional	First name. OPERA displays this.

address	element	string	optional	Address line 1. OPERA displays this.
address2	element	string	optional	Address line 2. OPERA displays this.
city	element	string	optional	City. OPERA displays this.
state	element	string	optional	State. OPERA displays this.
zip	element	string	optional	Postal code. OPERA displays this.
country	element	string	optional	Country. OPERA displays this.
profileType	element	string	optional	Profile type.
Udf	element	string	optional	Not used.

Profile Request

XML Schema	: Not applicable
Notes	: No XML schema is used to request a particular profile. Profile's unique identifier is passed in the request itself.

Profile Response

XML Schema	: profile
XML Schema version	: 1.2 or 2.0 as configured in OXI
XML Tables	: Please refer to OXI profile download specifications.

6 HTTP Call Samples

Profile Lookup Request and Response

HTTP Action	: POST
Sample URL	: /servlets/ORSLookup
URL Parameters	: None
Request & Response content type	: text/xml
Request & Response character encoding	: UTF8

HTTP POST Data (Request for matching profiles)

```
<?xml version="1.0"?>
<?Label SLBK|PLQUERY|5018|SUCCESS?>
<Query xmlns="plquery.fidelio.1.1" profileType="">
  <propertyName>SLBK</propertyName>
  <transactionId>1111</transactionId>
  <setSize>50</setSize>
  <firstName>Jane</firstName>
  <lastName>Smith</lastName>
  <city>Anytown</city>
  <state>FL</state>
  <zip>99999</zip>
  <country>US</country>
</Query>
```

HTTP POST Response (List of matching profiles returned synchronously by external system)

```
<?xml version="1.0"?>
<LookupResult xmlns="plresult.fidelio.1.0">
  <transactionId>5018</transactionId>
  <ProfileSets>
    <ProfileSet>
      <resortNameId>29542</resortNameId>
      <nameId>10759</nameId>
      <memberNumber>97105</memberNumber>
      <lastName>Smith</lastName>
      <firstName>Jane</firstName>
      <address>1111 Street</address>
      <city>Anytown</city>
      <state>FL</state>
      <zip>99999</zip>
      <country>US</country>
    </ProfileSet>
    <ProfileSet>
      <resortNameId>29542</resortNameId>
      <nameId>10759</nameId>
      <memberNumber>97105</memberNumber>
      <lastName>John</lastName>
```

```
<firstName>Smith</firstName>
<address> 1111 Street</address>
<address2>2222 Street</address2>
<city>Anytown</city>
<state>FL</state>
<zip> 99999</zip>
<country>US</country>
</ProfileSet>
<ProfileSet>
<resortNameId>29542</resortNameId>
<nameId>10759</nameId>
<memberNumber>97105</memberNumber>
<lastName>Smith</lastName>
<firstName>Jane</firstName>
<address>1111 Street</address>
<city>Anytown</city>
<zip>99999</zip>
<country>US</country>
</ProfileSet>
<ProfileSet>
  <nameId>10766</nameId>
<lastName>Smith</lastName>
<firstName>Jane</firstName>
<address>2222 Street</address>
<city>Anytown</city>
<state>FL</state>
<zip>9999</zip>
<country>US</country>
</ProfileSet>
</ProfileSets>
</LookupResult>
```

Profile Request

HTTP Action : GET
Sample URL : /servlets/ORSLookup
URL Parameters : propertyName=SLBK&transactionId=10766&action=GETCRS&profileId=10766
Response content type : text/xml
Response character encoding : UTF8

HTTP GET Response (Unique matching profile returned synchronously by external system)

```
<?xml version = '1.0'?>
<?Label SLBK|PROFILE|108|SUCCESS?>
<Profile profileType="GUEST" gender="F" xmlns="profile.fidelio.1.2">
  <profileID>10766</profileID>
  <creatorCode>OXI-V6</creatorCode>
  <createdDate>2003-11-12T13:57:03.000</createdDate>
  <lastUpdaterCode>SORIAM</lastUpdaterCode>
  <lastUpdated>2004-04-29T16:36:14.000</lastUpdated>
  <genericName>John</genericName>
  <IndividualName>
    <namePrefix>Mrs</namePrefix>
```

```
<nameFirst>Jane</nameFirst>
<nameSur>Smith</nameSur>
</IndividualName>
<primaryLanguageID>E</primaryLanguageID>
<Documents>
  <Document>
    <name>Jane</name>
    <docNumber>A1111111</docNumber>
    <nationality>US</nationality>
    <documentCode>PASSPORT</documentCode>
  </Document>
</Documents>
<PostalAddresses>
  <PostalAddress addressType="HOME">
    <address1>1111 Street</address1>
    <city>Anytown</city>
    <stateCode>FL</stateCode>
    <postalCode>99999</postalCode>
    <countryCode>US</countryCode>
    <mfPrimaryYN>Y</mfPrimaryYN>
  </PostalAddress>
</PostalAddresses>
<PhoneNumbers>
  <PhoneNumber phoneNumberType="HOME">
    <phoneNumber>+1 (999) 999-9999</phoneNumber>
    <mfPrimaryYN>Y</mfPrimaryYN>
  </PhoneNumber>
</PhoneNumbers>
<mfResort>SLBK</mfResort>
<mfVipStatus>0</mfVipStatus>
<mfAllowMail>NO</mfAllowMail>
<mfAllowEMail>NO</mfAllowEMail>
<mfGuestPriv>NO</mfGuestPriv>
</Profile>
```