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2018A XML Object Suite

Schema Publication Release Notes

Contents

About the OpenTravel Alliance	3
Getting Started with the OpenTravel XML Object Suite	4
Key OpenTravel Online Implementer & Member Resources	4
OpenTravel Implementers Forum	4
Specification Comments	4
OpenTravel Project Teams & Workgroups.....	5
New Libraries.....	6
Product.....	6
Resources.....	6
Services	6
Modified Libraries (see comments report for detailed changes during comment period)	6
Common	6
Finance	6
Order.....	7
Organization.....	7
Product.....	7
Reservation.....	7
New Messages.....	7
Services	7
HospitalityFacility Service	7
HospitalityOffers Service.....	8
Resources.....	8
HospitalityFacility Resource	8
HospitalityOffers Resource	8

About the OpenTravel Alliance

OpenTravel provides the preferred open source standards for the travel and leisure industry.

The established foundation of electronic messages in the travel industry, the OpenTravel Specifications are used worldwide by travel industry suppliers, resellers, global distributors, and integrators to meet customer and trading partner data distribution demands.

As a travel industry specific (and membership-based) organization, our products are built by and for travel companies. The OpenTravel Specifications are made publicly available for download (at no charge) typically twice a year.

By using OpenTravel Specifications, implementers benefit from a consistent data exchange through the use of a standard communication method implemented by thousands of companies in the worldwide travel industry.

Our specifications cover numerous travel industry segments, including Air, Car, Hotel, Vacation Rental, Golf, Travel Insurance, Rail, Ground Transportation, Day Tours and Activities, Packaged Tours and Dynamic Packages. They are well suited for reservation systems, branded websites and other such information exchanges between trading partners.

The maturity of OpenTravel standards—in combination with our Specification adoption rate—provide OpenTravel implementers with an “interoperability” head start that allows them to transact with a broad base of trading partners while decreasing IT integration timeframes and cost.

The OpenTravel 2.0 Object Suite embraces the latest data exchange processes and technologies to create state of the art APIs and services for the travel industry. **The consistency of the object suite is designed to significantly reduce the time to develop REST or WSDL travel services and APIs in either XML or JSON.**

Key Facts...

Company

- Membership funded, not for profit organization
- Founded in 1999

Specification

- Open source
- Free for all implementers
- OpenTravel 1.0 XML Message Suite
- OpenTravel 2.0 Object Suite



For more information on OpenTravel membership, please visit our website at <http://opentravel.org/Join/Default.aspx>

Getting Started with the OpenTravel XML Object Suite

To help you prepare to use your OpenTravel schema product, follow these steps:

1. Read this document: You should review these notes for critical information regarding the 2018A Object Suite.
2. Refer to the *OpenTravel 2018A Library Versioning* artifact (included in the publication download) to see the versions of all OpenTravel Libraries.

Key OpenTravel Online Implementer & Member Resources

You can find the answers to many of your questions on the OpenTravel Implementers Forum website:

<http://www.opentravelcommunityforum.com/forum/>

OpenTravel Implementers Forum

OpenTravel has an extensive discussion Forum to provide an implementation resource for users of its schema, called *the OpenTravel Forum*, which has all the functionality members expect from a full-featured discussion board, with forums for:

- Architecture
- Hospitality
- Transport
- Travel Services
- Tours and Activities
- Implementers Discussion 1.0
- OpenTravel Discussion 2.0

Members can post a question and get an answer from a moderator. Also included are OpenTravel documentation, mailing list subscription, events and announcements, and feedback boards, as well as the OpenTravel Showcase where companies that provide tools, services or technologies to assist in the implementation of OpenTravel schemas can post about their offerings. Note that priority support is provided to OpenTravel member company participants on the Implementers Forum.

Specification Comments

All implementers are welcome to submit comments to enhance the OpenTravel 2.0 specification.

There are two types of comments that you can submit:

- Technical—proposes a minor change to one or more elements of an OpenTravel XML schema product, such as an XML message and/or an XML object or object library. Technical comments may be submitted at: <http://www.opentravel.org/Specifications/CommentOnSpec2.aspx>

- Artifact—proposes a correction and/or addition to a schema supporting artifact, such as release notes or an OpenTravel Solution Scenario. Technical comments may be submitted at :
<http://opentravelmodel.net/pubs/specifications/Comment20Artifact.html>

OpenTravel Project Teams & Workgroups

All OpenTravel members are welcome to participate in OpenTravel workgroups, which are neutral environments comprised of travel industry experts that meet once per month or as needed to:

- Review and action open specification comments
- Review and accept new and enhanced schema from project teams
- Discuss emerging business requirements and how OpenTravel schema can be enhanced to address them

Each workgroup serves the needs of one or more associated travel industry segments that are supported by the OpenTravel Specification:

- Architecture: Underlying constructs (or architecture) of OpenTravel schema products, design patterns, solution scenarios and implementation best practices
- Hospitality: Hotel, Hostel, Vacation Rental and Cruise
- Transport: Air, Rental Car, Ground Transportation and Rail
- Travel Integration: Tours and Activities, Dynamic Packages, Travel Insurance, Golf and other shared services including Travel Itineraries, Loyalty Programs and Customer Profiles

All OpenTravel members are welcome to propose and join any **project team**. Project teams serve as the primary method for introducing major enhancements into OpenTravel schema products as these teams are formed to address a set of business-specific enhancements for the OpenTravel specification—such as merchandising offers. In addition to OpenTravel schema and XML components, project team work produces a variety of artifacts, including use cases, capability maps, process models, business glossary terms and solution scenarios.

New Libraries

Product

- **Hospitality** - The hospitality library houses objects that pertain to hospitality products.
Examples: RoomStay, RoomRate, RatePlan

Resources

- **HospitalityFacility** – The HospitalityFacility library houses the query facets and resources for searching for facilities, searching for facility availability and retrieving facilities.
- **HospitalityOffers** – The HospitalityOffers library houses query facets and resources for finding offers for multiple properties and finding offers for a single property.

Services

- **HospitalityFacility** – The HospitalityFacility library houses the services and operations for searching for facilities, searching for facility availability and retrieving facilities.
- **HospitalityOffers** - The HospitalityOffers library houses the services and operations for finding offers for multiple property offers and finding offers for a single property.

Modified Libraries (see comments report for detailed changes during comment period)

Common

- **CodeList** – The code list library houses both open and closed enumerations that are used across multiple libraries. The naming convention for enumerations is a meaningful name followed by an under bar and the text “Enum”.
Examples: BedType_Enum, Gender_Enum,
- **Common** – The common library houses objects that are used across multiple libraries.
Examples: AmountPercent, Company, Person

Finance

- **Finance** - The finance library houses objects that pertain to payments.
Examples: FormOfPayment, EncryptionToken, DirectBill

Order

- **Order** - The order library houses objects used in creating offers and orders.
Examples: Offer, Order, TermsAndConditions

Organization

- **Organization** - The organization library houses objects related to an organization such as a facility. These are overarching objects that apply to each of the specific organization libraries.
Examples: Facility, MeetingCenter, Property
- **OrganizationHospitality** - The organization hospitality library houses objects that are related to hospitality facilities such as a hotel.
Examples: HotelFacility, HotelReference, HotelPolicy

Product

- **Ground** – The Ground library houses objects that are specific to ground transportation.
Examples: Driver, GroundServiceQuery
- **Product** – The Product library houses objects that are specific to sellable products such as rooms in a hotel, seats on an airplane or seats on a train.
Examples: Product, Journey, Segment

Reservation

- **Reservation** - The reservation library houses objects used in creating reservations. Reservation is a container for orders across one or more verticals.
Examples: Reservation, Receipt, TravelerCriteria

New Messages

Services

HospitalityFacility Service

- **FindHospitalityAvailabilityRQ/RS** - Request criteria may include chain code, brand code, location information as well as other items such as hotel or room amenities. The response returns a list of properties that match the search criteria. Rate and availability information are not provided because dates are not part of the request.

- FindHospitalityFacilitiesRQ/RS– Request criteria may include chain code, brand code, location information as well as other items such as hotel or room amenities. Dates are provided in order for availability to be returned. The response returns available properties that match the search criteria and includes the best available rate or rate range in the response.
- RetrieveHospitalityAvailabilityRQ/RS – The request includes specific properties and dates for which the availability is to be retrieved. The response returns available properties with the best available rate or rate range.

HospitalityOffers Service

- FindMultiPropertyOffersRQ/RS – The request includes specific properties and dates for which offers are to be found. The response returns offers organized by property.
- FindSinglePropertyOffersRQ/RS - The request includes a specific property and dates for which offers are to be found. The response returns offers for that property.

Resources

HospitalityFacility Resource

- FindHospitalityAvailabilityRQ/RS - Request criteria may include chain code, brand code, location information as well as other items such as hotel or room amenities. The response returns a list of properties that match the search criteria. Rate and availability information are not provided because dates are not part of the request.
- FindHospitalityFacilitiesRQ/RS– Request criteria may include chain code, brand code, location information as well as other items such as hotel or room amenities. Dates are provided in order for availability to be returned. The response returns available properties that match the search criteria and includes the best available rate or rate range in the response.
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HospitalityOffers Resource

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