



## **Product Specification**

**Property Web Services  
Version 2009B**

## About HTNG

Hotel Technology Next Generation ("HTNG") is a nonprofit organization with global scope, formed in 2002 to facilitate the development of next-generation, customer-centric technologies to better meet the needs of the global hotel community. HTNG's mission is to provide leadership that will facilitate the creation of one (or more) industry solution set(s) for the lodging industry that:

- Are modeled around the customer and allow for a rich definition and distribution of hotel products, beyond simply sleeping rooms;
- Comprise best-of-breed software components from existing vendors, and enable vendors to collaboratively produce world-class software products encompassing all major areas of technology spending: hotel operations, telecommunications, in-room entertainment, customer information systems, and electronic distribution;
- Properly exploit and leverage a base system architecture that provides integration and interoperability through messaging; and that provides security, redundancy, and high availability;
- Target the needs of hotel companies up to several hundred properties, that are too small to solve the issues themselves;
- Will reduce technology management cost and complexity while improving reliability and scalability; and
- Can be deployed globally, managed remotely, and outsourced to service providers where needed.

In June 2005, HTNG announced the first-ever "Branding and Certification Program" for hotel technology. This program will enable vendors to certify their products against open HTNG specifications, and to use the "HTNG Certified" logo in their advertising and collateral materials.

It will enable hotels to determine which vendors have completed certification of their products against which specific capabilities, and the environments in which performance is certified. HTNG's vision is to achieve a flexible technical environment that will allow multiple vendors' systems to interoperate and that will facilitate vendor alliances and the consolidation of applications, in order to provide hotels with easily managed, continually evolving, cost-effective solutions to meet their complete technology needs on a global basis.

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## 1 Introduction

This document defines the Hotel Technology Next Generation (“HTNG”) Product Specification for the Property Web Services.

The following documents are referenced in this document:

1. HTNG Property Web Services Specifications 2009B – available at <http://www.htng.org/specs/published.htm>
2. WS-I Basic Profile 1.0 – available at <http://www.ws-i.org>
3. WS-Security 1.0 Specification – available at <http://www.ws-i.org>

## 2 Product Standard

### 2.1 Name

Property Web Services

### 2.2 Label for "HTNG Certified" Certification Logo

Property Web Services 2009B

When the "HTNG Certified" certification logo, along with this label, is used on, or in relation to, a product registered as conformant to this Product Specification, it must be accompanied by an attribution in the form defined in the HTNG Certification Program Trademark License Agreement.

### 2.3 Description

This Product Specification requires conformance to one of the following specifications:

1. HTNG Property Web Services Specifications 2009B – Part 1: Web Services Framework Version 2.1.1
2. HTNG Property Web Services Specifications 2009B – Part 5: Back Office Integration Version 2.0

In addition, if conformance to the Web Services Framework Version 2.1.1 specification is chosen above, the Product Specification optionally includes conformance to one or more of the following specifications:

3. HTNG Property Web Services Specifications 2009B – Part 2: Single Guest Itinerary Version 2.2
4. HTNG Property Web Services Specifications 2009B – Part 3: Digital Signage Version 1.0
5. HTNG Property Web Services Specifications 2009B – Part 4: Open Data Exchange Version 1.4.2
6. HTNG Property Web Services Specifications 2009B – Part 6: Guest Self Service Version 1.0.3
7. HTNG Property Web Services Specifications 2009B – Part 7: Food and Beverage Ordering Version 1.0
8. HTNG Property Web Services Specifications 2009B – Part 8: Guest and Room Status Messaging Version 1.0

The above documents are all available at <http://www.htng.org/specs/published.htm>

### 2.4 Conformance Requirements

Conformance to either the Web Services Framework Version 2.1.1 or the Back Office Integration Version 2.0 specification is mandatory.

Additionally, conformance to the Framework Version 2.1.1 specification is required in conjunction with conformance to anything but the Back Office Integration Version 2.0 specification.

#### 2.4.1 Web Services Framework Version 2.1.1

Conformance to the Web Services Framework Version 2.1.1 specification may be demonstrated by documenting Web Services that are implemented using it. These may be either defined in other HTNG specifications or they may be proprietary services.

The list of HTNG Web Services specifications that may be referenced to demonstrate conformance can be found here: <http://www.htng.org/specs/published.htm>.

The HTNG specified Web Services and proprietary services must be identified and evidence of a successful implementation may be provided in one of three ways:

1. By identifying another implementation with which the product has successfully interoperated.
2. By providing a report of successful internal testing.
3. By providing other evidence of a successful implementation.

At least one Web Service must be cited. Details of proprietary systems cited must be provided.

For each Web Service supported, up to six possible supporting documents may be provided, three of which are mandatory. For HTNG specified services, a fourth document is mandatory – a reference to the HTNG specification.

The communication styles supported must be documented. At least one of the communications styles listed must be supported

#### 2.4.2 Single Guest Itinerary Version 2.2

The Single Guest Itinerary specification defines roles:

- Activity Reservation System
- Accommodation Reservation System
- Posting System
- Folio System
- Customer Profile System
- Itinerary Consolidation System

### Itinerary Display System

Conformance to the Single Guest Itinerary specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.3 Digital Signage Version 1.0**

The Digital Signage specification defines roles:

- Event Information Display Manager
- Event and Meeting Space Manager

Conformance to the Digital Signage specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.4 Open Data Exchange Version 1.4.2**

The Open Data Exchange specification defines roles:

- Data Receiver
- Data Sender

Conformance to the Open Data Exchange specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.5 Back Office Integration Version 2.0**

The Back Office Integration specification defines roles:

- Accounting System
- Budgeting System
- Revenue Capturing System

Conformance to the Back Office Integration specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.6 Guest Self Service Version 1.0.3**

The Guest Self Service specification defines roles:

- Self Service Frontend
- Services Scheduling System

Conformance to the Guest Self Service specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.7 Food and Beverage Ordering Version 1.0**

The Food and Beverage Ordering specification defines roles:

- Device (Kiosk, Touch Screen, In-Room TV, IP Phone, etc)
- Food and Beverage POS System

Conformance to the Food and Beverage Ordering specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

#### **2.4.8 Guest and Room Status Messaging Version 1.0**

The Guest and Room Status Messaging specification defines roles:

- Room Stay Information Provider
- Room Stay Information Consumer

Conformance to the Guest and Room Status Messaging specification requires the support of all the mandatory functions and messages appropriate to the roles supported. All optional functions and messages must be documented.

### **2.5 Portability Environment**

Not applicable.

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## 2.6 Overriding Standards

None.

## 2.7 Indicators of Compliance

### 2.7.1 *Web Services Framework Version 2.1.1*

Interoperability must be demonstrated by providing one of the following

1. The name of other companies with whom you have successfully interoperated
2. A test report from internal testing. These can be either a URL on your own website or as inline text in the [Supporting Document Table](#) below.
3. Other evidence of a successful implementation.

### 2.7.2 *Single Guest Itinerary Version 2.2*

None.

### 2.7.3 *Digital Signage Version 1.0*

None.

### 2.7.4 *Open Data Exchange Version 1.4.2*

None.

### 2.7.5 *Back Office Integration Version 2.0*

None.

### 2.7.6 *Guest Self Service Version 1.0.3*

None.

### 2.7.7 *Food and Beverage Ordering Version 1.0*

None.

### 2.7.8 *Guest and Room Status Messaging Version 1.0*

None.

## 2.8 Migration

Web Services Framework Version 2.1.1 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Single Guest Itinerary Version 2.2 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Digital Signage Version 1.0 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Open Data Exchange Version 1.4.2 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Back Office Integration Version 2.0 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Guest Self Service Version 1.0.3 unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Food and Beverage Ordering Version 1.0 is unchanged from the version included in HTNG Property Web Services Product Specification Version 2009A.

Guest and Room Status Messaging Version 1.0 is included in the certification program for the first time.