Location Intelligence
Infrastructure Asset Management

Confirm®

Bookings Connector Schema

v26.30a.AM

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October 02, 2026

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Specifications

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Bookings Connector XML Schema

Introduction

This document describes the XML schema used to allow an external system or website to query, add and update Bookings using the Confirm Connector.

The data transfer will be initiated by the external system or website. The Connector will always send data as a reply to the request.

Operation Overview

The Request sent to the Connector contains an “Authentication” section detailing the database connection and Confirm User information, and an “Operation” section detailing the operations to be carried out on that database.

The rest of this document describes briefly each of the operations that might be included in a Request, and the corresponding Response for each.

Where data is provided in a lookup field it must correspond to a valid record in the Confirm database, otherwise a Fault will be returned.

Where subsequent sections refer to a “User” this is the Connector User, i.e. the Login Name the Connector uses in connecting to the Confirm database. This determines which data will be returned where Data Key Security is in place.

XML Schema Definitions

The Request XML is defined in the following schema documents:

- BookingsRequest.xsd
- DataDictionary.xsd

The Response XML is defined in the following schema documents:

- BookingsResponse.xsd
- BookingsConnectorResponseData.xsd
- DataDictionary.xsd

Methods

This section describes the Requests to be sent from the external system or website to Confirm, and what the Responses will contain.

GetBookingResources

This operation is used to obtain a list of valid Resource Types for Bookings from Confirm.

GetBookingTypes

This operation is used to obtain a list of available Booking Types and the associated Booking Sub Types from Confirm.

GetBookingSlots

This Operation is used to return a list of all the available Booking slots for a given Booking Type (if this is not supplied then the combination of Type of Service, Subject and Site code is used to determine the Booking Type) in the specified datetime range. Only those Slots that have the capacity to accommodate the Booking Quantity are returned. The response also states, for every Booking Slot, if the Optimum capacity will be exceeded after this Booking Quantity is applied and if the Slot already contains any Bookings.

A Fault will be returned if an invalid value is supplied for the BookingTypeKey or ServiceCode, SubjectCode and SiteCode. If no Booking Slots match the supplied criteria then an empty Response will be returned.

Note: The FromTime and ToTime values are used purely to determine the days for which slots are returned. Any time component of these values is ignored.

CreateProvisionalBooking

Before a Booking is confirmed a provisional Booking must be made in Confirm. This will be retained by Confirm for a system specified amount of time while the Booking is finalised. If the Booking is not confirmed within this time then the slot will be freed up again automatically. If an invalid value is supplied for the BookingTypeKey, ResourceKey or BookingSubTypeKey then a Fault will be returned.

A successfully created provisional Booking will result in a returned BookingKey. Alternatively if the Booking Slot on overall capacity does not exist, is no longer available, is too far in advance or would exceed the maximum capacity, then no BookingKey is returned and the appropriate message contained within the FailureReason.

Note that individual resource capacity is not checked at the time of CreateProvisionalBooking request.

CreateConfirmedBooking

This operation confirms the provisional booking made using the CreateProvisionalBooking request.

If the corresponding BookingKey or EnquiryNumber is not found in Confirm or the Booking is no longer available then the returned Success value will be false. In this instance the Failure Reason will contain the appropriate message.

UpdateBooking

This operation is used to update the booking record. Please note that the Start Time and End Time cannot be changed using this operation. To change the Booking Date a new booking needs to be made and the existing booking cancelled. A successfully updated Booking results in a value of true in the responses Success. The FailureReason element is not currently used.

If the BookingKey is not found in Confirm or the BookingSubTypeKey is not linked to the current Booking Type then a Fault will be returned.

CancelBooking

This operation is used to cancel an existing booking. Please note that this operation behaves differently from the FailBooking operation mentioned below. A successfully canceled Booking results in a value of true in the responses Success. An appropriate FailureReason will be supplied if the Booking cannot be cancelled (for example, if it has already been Completed).

If the BookingKey is not found in Confirm then a Fault will be returned.

GetConfirmedBookings

This operation is used to obtain the list of confirmed Bookings in a given date range for a specific Resource. The response will include all the Booking Slots that meets the filter criteria, the associated Bookings, Booking Types and the Enquiries linked to each of the Bookings. An empty response indicates that no Bookings were found in Confirm that matched the supplied criteria.

If the corresponding ResourceKey is not found in Confirm then a Fault is returned.

CompleteBooking

This operation is used to update Confirm with a completed booking. Please note that the actual start and end times can vary from the original start and end times of the booking. A successfully completed Booking results in a value of true in the responses Success. A FailureReason will be returned if the Booking cannot be Completed (if, for example, it has already been Completed).

If the corresponding BookingKey is not found in Confirm or invalid dates are supplied then a Fault will be returned.

FailBooking

This Operation would be used if a Booking could not be fulfilled for some reason, e.g. client did not keep their appointment. A successfully failed Booking results in a value of true in the response Success. A FailureReason will be returned if the Booking cannot be Failed (if, for example, it has already been Completed).

If the corresponding BookingKey is not found in Confirm then a Fault will be returned.