

# Specification



<b>Name:</b>	Common Systems Interface Specification		
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<b>Last Updated:</b>	15 August 2012	<b>Author:</b>	Etienne Maillard

Date	Description of Document Changes	Originator	Version
24/02/2014	First Draft	Etienne Maillard	0.1
01/10/2008	Minor changes	Etienne Maillard	0.2
02/10/2008	Additional of UpdateBookingStatus	Etienne Maillard	0.3
21/10/2008	Added section about data formats, in particular time and date formats	Paul Wheeler	0.4
28/10/2008	Added Timestamp to all requests	Paul Wheeler	0.5
30/10/2008	Added Driver Key to Update Booking Status	Paul Wheeler	0.6
30/10/2008	Updated document changes with change made in 0.6	Paul Wheeler	0.7
06/11/2008	Added 'Miles' element to the return data (i.e. BookingInformation)	Paul Wheeler	0.8
14/11/2008	Changed 'JobNumber' to be an integer from a string as per CTI	Paul Wheeler	0.9
26/11/2008	Added 0 (list of country codes) and Appendix B (list of credit card types)	Paul Wheeler	1.0
26/11/2008	Added note that jobStop/Instructions will be truncated to a max length of 50 characters	Paul Wheeler	1.1
03/12/2008	Added 'Extras'	Paul Wheeler	1.2
20/01/2009	Changed AsDirectedDuration to be an integer Added 'Misc' element	Paul Wheeler	1.3
30/01/2009	Added AsDirectedDuration to the Quote element	Paul Wheeler	1.4
04/06/2009	Added PriceForWait to Status element Added Fields list to InvalidDataError Made Cancellation/Vehicle optional as it is deprecated Added LeadPassenger/VIP which was missing from the documentation. Added Booking/DriverKey	Paul Wheeler	2.0
17/06/2009	Added restrictions that apply to the CTI and CityTrak database to prevent errors (as supplied by Vince). Changed VATPercent to VATAmount (as supplied by Vince)	Paul Wheeler	2.1
08/03/2010	Add CSI version 1.1 and add two new web services	Steven Wu	2.2
12/03/2010	Amend the Interface version number to version 1.0+ or 1.1+	Steven Wu	2.3
04/04/2011	Added new version 1.2 (SameDay change request) elements to the AddBooking and GetBookingQuote data structures. Indicated which elements are no longer present in the 1.2 CSI version.	Ben Dyer	2.4
25/04/2012	New CSI version 1.3 has been created for the PathScan / Trek Solution. Elements have been added within the JobStop, JobItems and Price elements. A new operation GetBooking has been added.	Ben Dyer	2.5
08/05/2012	Updated jobItems elements to bring in line with updated CityTrak interface from SI.	Ben Dyer	2.6
27/06/2012	Second set of changes required for the PathTrak changes:  UpdateBookingStatus:	Ben Dyer	2.7

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	<p>Added StopCloc and StopItems.</p> <p>GetBookingDetail: In the return data, updated the list of possible values for the CurrentStatus element.</p> <p>Made a correction to the input data: GetBookingDetail/RefSupplierKey is not actually a choice in the actual XSD and WSDL. i.e. both Externalreference and SupplierKey are required.</p> <p>GetBookingList: Added several new elements to the input data, and added several new elements to the output data. Also in the return data, updated the list of possible values for the CurrentStatus element.</p> <p>Removed the GetBooking operation.</p>		
05/07/2012	<p>Added the following input parameters to 'GetBookingList' operation: GetBookingList/UniqueID GetBookingList/Authentication</p> <p>Added the following supported exceptions to the 'GetBookingList' operation:</p> <ul style="list-style-type: none"> <li>• ApplicationException,</li> <li>• AuthenticationException</li> <li>• BillingException</li> <li>• DatabaseException</li> <li>• InvalidDataException</li> <li>• UnknownJobException</li> <li>• UnableToCompleteException</li> </ul> <p>Changed selected 'GetBookingList' date/times in input parameters to conform to customer date/time formats, as used with established operations. Specifically changed:</p> <p>GetBookingList/StatDate to GetBookingList/StatDateTime GetBookingList/EndDate to GetBookingList/EndDateTime</p> <p>Changed output parameters similarly, such that date and time fields delivered to the caller separately are now combined into one customer format date/time string, specifically:</p> <p>GetBookingListResult/Job/StatusDate and GetBookingListResult/Job/StatusTime to GetBookingListResult/Job/StatusDateTime</p> <p>And</p> <p>GetBookingListResult/Job/BookingDate and GetBookingListResult/Job/BookingTime to GetBookingListResult/Job/BookingDateTime</p>	Steve Merchant	2.8
06/07/2012	<p>GetBookingDetail: Added 'UniqueKey' and 'Authentication' to input parameters.</p>	Steve Merchant	2.9
09/07/2012	<p>Changed GetBookingDetailResult/Result/StatusDate and</p>	Steve Merchant	3.0

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	GetBookingDetailResult/Result/StatusTime to GetBookingDetailResult/Result/StatusDateTime		
15/08/2012	Changes for Change Request 4 part 1:  Added specification for the GetJobGPS SOAP interface call.	Steve Merchant	
15/08/2012	Changes for Change Request 4 part 2:  <ul style="list-style-type: none"> <li>• Made Booking/JobItems/ItemReference mandatory</li> <li>• Added the following elements to the Booking type:                  Booking/jobItems/collectStop                  Booking/jobItems/deliverStop                  Booking/jobItems/action</li> <li>• Within JobItems the StopActions element has been renamed to ScanActions</li> <li>• Changed the the ScanActions/Type ENUM, ACTUAL is no longer an allowed value.</li> <li>• Added GetBookingListResult/Job/Department to the return data of the GetBookingList operation</li> </ul>	Ben Dyer	3.1
18/09/2012	Change Request CR7  GetBookingListResult/Job/CurrentStatus enumeration now includes a new status of "Booked"  GetBookingDetailResult/Result/CurrentStatus enumeration now includes a new status of "Booked"	Ben Dyer	3.2
19/02/2013	NDI change request  NDI specific fields added to the end of the booking structure. These new fields are all added in interface version 1.4 (the booking structure is described in the AddBooking section of this document)	Ben Dyer	3.3

Key	Related File Information	Title
1	CommonSystemInterface.wsdl	Web Service Interface Description Document

## Overview

This document is the specification for the Common Systems Interface (CSI), a component of the CityBridge; it is intended as an accompaniment to the WSDL[1] definition.

The interface is provided using SOAP over HTTP with parameter and return data being described using XML documents, SSL is used to provide data encryption.

## Data Formats

### Time and date

All time and dates will conform to the ISO 8601 standard and will be in Coordinated Universal Time (UTC).

## Security

Each call made to the CSI will provide security details to identify the calling application, the token used will be supplied by CitySprint upon receipt of the necessary configuration information.

Element Name	Type	Facets	Description
Authentication	Complex		
Authentication/Credentials	Complex		
Authentication/Credentials/UserToken	String		GUID based users' identifier.

## Multiple Version Support

Since CSI Version 3, it exposes multiple interfaces and tag the message it sent to the engine with the version of the interface it came in on. Current it has version 1.0 and version 1.1 interfaces. Both versions are running at the same port but a different endpoint Url.

## Operation

This section details the operations implemented in the CSI, operations use document style binding with literal use. Objects will be represented as XML controlled by the XSD definition contained in the WSDL. SOAP faults are used to indicate that an operation has been unsuccessful.

### AddBooking (Version 1.0+)

This operation can be called to add a new booking to the target system.

#### Parameters

Element Name	Type	Facets	Description
AddBooking	Complex		
AddBooking/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string, format will be XXX-123456789
AddBooking/Authentication	Complex		See section 0.
AddBooking/TimeStamp	String		The date and time the request was submitted to the Common System Interface, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
AddBooking/Booking	Booking		
Booking/AccountNumber	String	maxLength=9	The supplied CitySprint account number for customer
Booking/DateTime	String		The date and time of the booking, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
Booking/Service <b>(V1.2)</b>	String		Service needed, this will be mapped within the middleware
Booking/Vehicle	String	Optional <b>(V1.2)</b> maxLength=30	For <b>V1.0</b> and <b>V1.1</b> This will be mapped within the middleware. For <b>V1.2</b> this is not mapped within middleware and is passed through as is.
Booking/Department	String	Optional maxLength=30	The department that should be invoiced for this booking.
Booking/Reference	String	Optional	An optional reference to be included on the

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		maxLength=12	invoice
Booking/UniqueReference	String	maxLength=12	Customer supplied identifier, typically a JobNumber. Use 0 if you wish to use CitySprint's internal job numbers.
Booking/DriverKey	String	Optional	
Booking/Booker	Person		Details of the person making the booking
Booker/Name	String	minLength=1 maxLength=30	A contact name
Booker/Number	String	maxLength=12	A contact number
Booker/EmailAddress <b>(V1.2)</b>	String	maxLength=256	
Booking/Passengers <b>(V1.0, V1.1)</b>	Complex	Optional	
Passengers/LeadPassenger	Person		Details of the lead passenger
LeadPassenger/Name	String	maxLength=30	A contact name
LeadPassenger/Number	String	maxLength=20	Number the SMS will be sent to when the car arrives at the pickup
LeadPassenger/VIP	Boolean		Indicates that the passenger is a VIP
Passengers/NumberOfPassengers	Integer	maxLength=2	The total number of passengers to be picked up
Passengers/AsDirectedDuration	Integer	maxLength=4	Time required in minutes
Booking/Operator <b>(V1.2)</b>	Complex	Optional	
Operator/OperatorDetails	Complex		
OperatorDetails/Operator	String	Optional maxLength=15	
OperatorDetails/OperatorName	String	Optional maxLength=60	
OperatorDetails/PhoneNumber	String	Optional	
OperatorDetails/EmailAddress	String	Optional maxLength=256	
OperatorDetails/VIP	boolean	Optional	
Operator/AsDirectedDuration	Integer	Optional	
Booking/Parcel	Complex		Details of the parcel being couriered
Parcel/Weight	Double		The weight of the parcel being couriered in kg
Parcel/Items	Integer		The number of items being couriered
Booking/JobStop	Complex	2 or more	Details of the stops to be made, if booking is 'as directed' the second stop should indicate this as an 'AD' postcode
JobStop/StopId	Integer	maxLength= 2	
JobStop/StopOrder	Integer	maxLength=2	The order in the sequence that stop should be made
JobStop/Address	Complex		Details of the address of the stop
Address/Company	String	Optional maxLength=60	
Address/Address1	String	maxLength=60	
Address/Address2	String	Optional maxLength=60	
Address/Address3	String	Optional maxLength=60	Used only for International and NextDay parcel work
Address/Town	String	minLength=1 maxLength=60	
Address/County	String	Optional maxLength=60	
Address/PostCode	String	minLength=1 maxLength=20	
Address/Country	String		Refer to 0 for accepted country codes

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Address/Latitude	Float	Optional maxLength=20	
Address/Longitude	Float	Optional maxLength=20	
JobStop/Contact	Person		Contact details for the stop
Contact/Name	String	maxLength=20	Contacts name
Contact/Number	String	Optional maxLength=12	Contacts number
JobStop/Instructions	String	Optional	Any instructions the driver should be aware of for the stop, Wait on the road etc. This will be truncated to a maximum length of 50 characters.
JobStop/CloseTime	Time	Optional	Used to define the Close time, mainly for courier work. It's a standard XML time data type so the format needs to be hh:mm:ss
JobStop/ItemDescription <b>(V1.2)</b>	String	Optional maxLength= 60	
JobStop/EstimatedArrivalTime <b>(V1.3)</b>	String	Optional maxLength = 15	Format: hh:mm or hh:mm-hh:mm
JobStop/StopStatus <b>(V1.3)</b>	String	Optional	Can be set to one of the following values: NOT STARTED ARRIVED AT COMPLETED
JobStop/ArrivedAtTime <b>(V1.3)</b>	Time	Optional	This element is a standard XML time data type so the format needs to be hh:mm:ss
JobStop/StopCloc <b>(V1.3)</b>	Complex	Optional	
StopCloc/CodedLocation <b>(V1.3)</b>	String	maxLength=20	
StopCloc/ScanStatus <b>(V1.3)</b>	String		Can be set to one of the following values: SCAN NO SCAN ATTACHED
StopCloc/ScanDateTime <b>(V1.3)</b>	String	Optional	Scan datetime in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
StopCloc/Latitude <b>(V1.3)</b>	String	Optional maxLength=20	
StopCloc/Longitude <b>(V1.3)</b>	String	Optional maxLength=20	
Booking/WaitReturn	Boolean		Indicates that the booking is a wait and return
Booking/InvoiceNotes	String	Optional maxLength=300	Notes to be included when the booking is invoiced
Booking/JourneyNotes	String	Optional maxLength=300	Notes to assist the driver in completing the booking
Booking/Notification	Complex	0 or many	Details of any notifications that should be generated
Notification/Type	Enum		The point at which notification should be generated
Notification/EmailAddress	String	0 or many	List of email addresses to send notification
Notification/MobileNumber	String	0 or many	List of mobile phone numbers to send SMS notification
Booking/Billing	Complex	Optional	Details of how the booking will be billed, if not

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			specified the account will be invoiced
Billing/CreditCard	String	Optional	Booking will be charged directly to a credit card, no invoice will be generated
CreditCard/Type	String		VISA, Mastercard etc. Refer to Appendix B for the full list.
CreditCard/Number	String		Credit card nume
CreditCard/Name	String	minLength=1 maxLength=50	Name as it appear on the card
CreditCard/ExpireEnd	String	length=5	The card expiry date in the format yy/mm
CreditCard/ValidFrom	String	Optional length=5	The date the card is valid from in the format yy/mm
CreditCard/IssueNumber	Integer	Optional	The issue number
CreditCard/CV2	Integer	Optional maxLength=4	The security number from the reverse of the card
CreditCard/Address1	String	Optional maxLength=50	The credit card billing address
CreditCard/Address2	String	Optional maxLength=50	
CreditCard/Address3	String	Optional maxLength=50	
CreditCard/Address4	String	Optional maxLength=50	
CreditCard/Postcode	String	Optional maxLength=20	
Booking/Price	Complex	Optional	Details of the proposed price for the booking Outgoing only
Price/ItemsAmount	Decimal	Optional	Amount chargeable based on the number of items being couriered Outgoing only
Price/WeightAmount	Decimal	Optional	Amount chargeable based on the weight of the items being couriered Outgoing early
Price/DistanceAmount	Decimal	Optional	Amount chargeable based on the distance being travelled Outgoing only
Price/CustomerFuelLevy <b>(V1.3)</b>	Decimal	Optional	
Price/VATAmount		Optional	Amount of VAT
Price/CustomerTotal	Decimal	Optional	The total amount chargeable excluding VAT
Price/DriverTotal	Decimal	Optional	
Booking/Extras	Complex	Optional	Details of any Extras on the booking. This is intended to be used for amendments only.
Extras/CarPark	Decimal	Optional	Extras for car parking
Extras/Other	Decimal	Optional	Gratuities, extras, etc
Booking/Misc	Complex	Optional	This element allows job codes to be sent directly through to CityTrak
Misc/jobCode	String		Valid CityTrak job code relating to additional charge
Misc/units	Decimal	Optional	The number of units for the additional charge
Misc/description	String	Optional	Description of the additional charge
Misc/amount	Decimal	Optional	The amount applicable to the additional charge
Misc/stopId	Integer	Optional	If the extra relates to a particular stop, specify the stopId.
Operator <b>(V1.1)</b>	String	Optional	Operator Info
Booking/JobItems <b>(V1.2)</b>	Complex	0 or many	

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JobItems/ItemReference	String	maxLength=30	
JobItems/CollectStop <b>(V1.3)</b>	Integer		
JobItems/DeliverStop <b>(V1.3)</b>	Integer		
JobItems/Action <b>(V1.3)</b>	String	Optional	This will be used for Amends only  Can be set to one of the following values: A D M
JobItems/ItemDescription <b>(V1.3)</b>	String	Optional maxLength=30	
JobItems/Items <b>(V1.2 and earlier only)</b>	Integer	Optional	
JobItems/ItemContentCount <b>(V1.3)</b>	Integer	Optional	A count of the number of items.
JobItems/Weight	Decimal	Optional	
JobItems/Dimensions	Complex	Optional	
Dimensions/NoOfItems	Integer	Optional	
Dimensions/Length	Integer		
Dimensions/Width	Integer		
Dimensions/Height	Integer		
JobItems/Operator <b>(V1.3)</b>	String	Optional maxLength=15	
JobItems/Timestamp <b>(V1.3)</b>	String	Optional	Datetime in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
JobItems/ScanActions	Complex	0 or many	
ScanActions/StopId	Integer		
ScanActions/Action	String		In <b>V1.2</b> and below this element may only contain the following values: PICKUP DROP For <b>V1.3</b> this element may also contain: QUERY
ScanActions/Quantity	Decimal	Optional	
ScanActions/ActionDateTime <b>(V1.3)</b>	String	Optional	Datetime in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
ScanActions/ Type <b>(V1.3)</b>	String		To indicate whether planned or adhoc item  The element may only contain one of the following values: PLANNED ADHOC
DeliverByTime <b>(V1.1+)</b>	Complex	Optional	
DeliverByTime/DeliverBy	String		Deliver By time
DeliverByTime/DeliverByName	String		Deliver By name

The following booking fields are specific to NDI Jobs.

CityBridge only currently maps these new NDI booking fields when returning GetBookingDetailResult data.

HAWBNumber <b>(V1.4)</b>	String	Optional maxLength=15	
ServiceOption <b>(V1.4)</b>	String	Optional	



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		maxLength=10	
ProductType <b>(V1.4)</b>	String	Optional	Can only be set to one of the following values: DOX NDOX
AgentCode <b>(V1.4)</b>	String	Optional maxLength=8	
AgentTrackingNo <b>(V1.4)</b>	String	Optional maxLength=20	
ItemDimensions <b>(V1.4)</b>	Complex	0 or many	
ItemDimensions/NoOfItems	decimal		
ItemDimensions/Length	decimal		
ItemDimensions/Width	decimal		
ItemDimensions/Height	decimal		
Commodities <b>(V1.4)</b>	Complex	0 or many	
Commodities/CommodityCode	String	Optional	
Commodities/Description	String	minLength=1 maxLength=30	
Commodities/Quantity	decimal		
Commodities/Value	float		
Commodities/IndemnityAccepted	boolean		

Return

Success

Element Name	Type	Facets	Description
AddBookingResult	Complex		
AddBookingResult/BookingInformation	Complex		
BookingInformation/JobNumber	String		The CitySprint assigned value for the booking
BookingInformation/PickUpDelay	Integer		The estimated number of minutes that the pickup can be made in
BookingInformation/DeliverBy	String		The date and time the deliver will occur by, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
BookingInformation/Price	Complex		As section 0
BookingInformation/Miles	Integer	Optional	Mileage for the job.

Exceptions

Name
AuthenticationException
InvalidDataException
DatabaseException
ApplicationException
BillingException

## AmendBooking (Version 1.0+)

This operation can be called to amend a booking to the target system.

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## Parameters

Element Name	Type	Facets	Description
AmendBooking	Complex		
AmendBooking/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
AmendBooking/Authentication	Complex		See section 0.
AmendBooking/Timestamp	String		The date and time the request was submitted to the Common System Interface, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
AmendBooking/Amendment	Complex		Details of the booking being amended and the changes to be made
Amendment /JobNumber	Integer		The CitySprint JobNumber returned from AddBooking, see section 0
Amendment /Booking	Booking		As section 0

## Return

## Success

Element Name	Type	Facets	Description
AmendBookingResult	Complex		
AmendBookingResult/BookingInformation	Complex		As section 0

## Exceptions

Name
AuthenticationException
InvalidDataException
DatabaseException
ApplicationException
UnknownJobException
BillingException

## CancelBooking (*Version 1.0+*)

This operation can be called to cancel a booking to the target system.

## Parameters

Element Name	Type	Facets	Description
CancelBooking	Complex		
CancelBooking/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
CancelBooking/Authentication	Complex		See section 0.
CancelBooking/Timestamp	String		The date and time the request was submitted to the Common System Interface, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
CancelBooking/Cancellation	Complex		Details of the booking being cancelled
Cancellation/Vehicle	String	Optional	This is deprecated and should not be used.
Cancellation/JobNumber	Integer		The CitySprint JobNumber returned from AddBooking, see section 0

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Return

Success

Element Name	Type	Facets	Description
CancelBookingResult	Complex		

Exceptions

Name
AuthenticationException
InvalidDataException
DatabaseException
ApplicationException
UnknownJobException

## UpdateBookingStatus (Version 1.0+)

This operation can be called to update the current state of an existing booking in the target system.

Parameters

The following is an example of the parameters XML doc for this operation.

Element Name	Type	Facets	Description
UpdateBookingStatus	Complex		
UpdateBookingStatus/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
UpdateBookingStatus/Authentication	Complex		See section 0.
UpdateBookingStatus/Status	Complex		Details of the booking status changes
Status/JobNumber	Integer		The job number that the status relates to
Status/Reference	String	Optional	
Status/DateTime	String		The date and time that the status changed
Status/Type	String		The status that the booking is being change to. See Appendix C
Status/StopID	Integer	Optional	If the status change relates to a stop the provided identifier for that stop
Status/Units	Decimal	Optional	
Status/POD	String	Optional	
Status/Address	String	Optional	
Status/Price	Complex	Optional	See section 0
Status/Signature	Base64	Optional	Any associated signature that has been collect as part of the status change
Status/DriverKey	String	Optional	Valid for JobAlloc, JobRealloc and JobTag Status. Must be a valid CityTrak driver key to which the job will be allocated/tagged to. Max length of 4.
Status/PriceForWait	Decimal	Optional	The price incurred by waiting. Applies to a WaitingTime status.
Status/StopCloc <b>(V1.3)</b>	Complex	Optional	
StopCloc/CodedLocation <b>(V1.3)</b>	String	maxLength=20	
StopCloc/ScanStatus <b>(V1.3)</b>	String		Can be set to one of the following values: SCAN NO SCAN

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			ATTACHED
StopCloc/ScanDateTime <b>(V1.3)</b>	String	Optional	Scan datetime in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
StopCloc/Latitude <b>(V1.3)</b>	String	Optional maxLength=20	
StopCloc/Longitude <b>(V1.3)</b>	String	Optional maxLength=20	
Status/StopItems <b>(V1.3)</b>	Complex	Optional	
StopItems/ItemReference <b>(V1.3)</b>	String	Optional maxLength=30	
StopItems/Action <b>(V1.3)</b>	String	Optional	Can be set to one of the following values: PICKUP DROP QUERY
StopItems/Quantity <b>(V1.3)</b>	Decimal	Optional	
StopItems/ActionDateTime <b>(V1.3)</b>	String	Optional	datetime in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ

Return

Success

Element Name	Type	Facets	Description
UpdateBookingStatusResult	Complex		

Exceptions

Name
InvalidDataException
DatabaseException
CityTrakError
UnknownJobException
UnableToCompleteException
AuthenticationException

## GetBookingQuote (Version 1.0+)

This operation can be called to request a price for a booking; no booking is actually made as a result of this call.

### Parameters

Element Name	Type	Facets	Description
GetBookingQuote	Complex		
GetBookingQuote/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
GetBookingQuote/Authentication	Complex		See section 0
GetBookingQuote/Timestamp	String		The date and time the request was submitted to the Common System Interface, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
GetBookingQuote/Quote	Complex		Details of the booking being quoted for
Quote/AccountNumber	String		The supplied CitySprint account number for customer
Quote/DateTime	String		The date and time of the booking, in format matching that specified by customer, eg yyyyMMddhhmmss. Default format is yyyy-MM-dd'T'HH:mm:ss.SSSZ
Quote/Service <b>(V1.2)</b>	String		Service needed, this will be mapped within the middleware
Quote/Vehicle	String	Optional <b>(V1.2)</b>	For V1.0 and V1.1 This will be mapped within the middleware. For V1.2 this is not mapped within middleware and is passed through as is.
Quote/Parcel	Complex	Optional	Details of the parcel being couriered, as section 0
Quote/JobStop	Complex	2 or many	Details of the stops, as section 0
Quote/WaitReturn	Complex	Optional	As section 0
Quote/CreditCard	Boolean		Booking will be charged to a credit card not the invoiced to the account
AsDirectedDuration	Integer	Optional	Estimated time the vehicle will be needed for

### Return

### Success

Element Name	Type	Facets	Description
GetBookingQuoteResult	Complex		
GetBookingQuoteResult/BookingInformation	Complex		As section 0

### Exceptions

Name

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AuthenticationException
InvalidDataException
DatabaseException
ApplicationException

## Exceptions

### baseException

All Exceptions will have the same basic structure which specific error will derive from, either:

1. Implementing – The structure matches baseException exactly
2. Extends – There is additional data included specific to that failure scenario

Element Name	Type	Facets	Description
Reason	String		Free text to describe the nature/cause of the error
JobNumber	Integer	Optional	The associated CitySprint job number that was being acted on when the error occurred
RetryRequested			Should be set to indicate whether there is no chance of successfully processing regardless if the original operation was retired

### InvalidDataException

The data provided as part of an operation cannot be processed as it has failed validation.  
Extends baseException.

Additional fields:

Element Name	Type	Facets	Description
Fields	Complex	0 or many	Optional list of Fields that were incorrect
Fields/Field	Complex		Contains detail of an individual field that was incorrect
Field/Name	String		The name of the field that caused the failure
Field/Error	String		Description of the error with the field

### DatabaseException

An internal database error has prevented CityTrak from completing operation.  
Implements baseException.

### ApplicationException

Application encountered an internal error.  
Implements baseException.

### UnknownJobException

The job being altered does not exist within the system.  
Implements baseException.

### UnableToCompleteException

Requested operation cannot be completed due to business rules.  
Implements baseException.

### AuthenticationException

Requested operation could not be completed as security information supplied is not valid.  
Implements baseException.

### BillingException

Requested operation could not be completed as the billing information supplied is not valid.

# Specification

Implements baseException.



## GetBookingList (Version 1.1 +)

This operation can be called to request a list of jobs from CityTrak to view the work that's been done. The list will contain all the work booked and not just the jobs booked through the CSI interface.

We would need to record that a GetBookingList has been requested by PathTrak, as any future status updates will need to be sent to the JU05 supplierkey (may change when BlueStar upgrade to new version. ) end point)

### Parameters

Element Name	Type	Facets	Description
GetBookingList	Complex		
GetBookingList/UniqueID	String	MaxLength=64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
GetBookingList/Authentication	Complex		See section 0.
GetBookingList/CustomerKey	String		Customer Key
GetBookingList/LeadPassengerName	String		Lead passenger name
GetBookingList/Reference	String	Optional	Reference
GetBookingList/Postcode	String	Optional	Post code
GetBookingList/Service	String	Optional	Service Name
GetBookingList/StartDateTime	String		Start Date and Time, in format matching that specified by customer.
GetBookingList/EndDateTime	String		End Date and Time, in format matching that specified by customer.
GetBookingList/Supplierkey	String	Optional	
GetBookingList/JobNumber	String	Optional	
GetBookingList/IsPathTrak	Boolean		Set to true if the call is being made for the PathTrak module search
GetBookingList/DriverId	String	Optional	
GetBookingList/ItemReference	String	Optional Max Length=30	
GetBookingList/Department	String	Optional	
GetBookingList/Vehicle	String	Optional	

### Return

#### Success

Element Name	Type	Facets	Description
Result	Complex		
GetBookingListResult/Job	Complex	0 or many	
GetBookingListResult/Job/JobNumber	String		Job Number
GetBookingListResult/Job/ExternalRef	String	Optional	External reference
GetBookingListResult/Job/Reference	String	Optional	Reference
GetBookingListResult/Job/BookingDateTime	String		Booking Date and Time , in format matching

# Specification



			that specified by customer
GetBookingListResult/Job/PickupPostcode	String		Pickup postcode
GetBookingListResult/Job/DeliveryPostcode	String		Delivery post code
GetBookingListResult/Job/Service	String		Service Name
GetBookingListResult/Job/Price	Decimal		Job price
GetBookingListResult/Job/VAT	Decimal		Vat
GetBookingListResult/Job/CurrentStatus	String		One of the following values Pickup Deliver WaitingTime Accept Current ArrivedAt Complete Allocated JobAlloc JobTag JobUntag JobUnalloc JobRealloc Booked
GetBookingListResult/Job/StatusDateTime	String		Status Date and Time, in format matching that specified by customer
GetBookingListResult/Job/DriverKey	String		Driver key
GetBookingListResult/Job/Department	String	Optional	
GetBookingListResult/Job/Vehicle	String	Optional	
GetBookingListResult/Job/NumberOfItems	Integer	Optional	
GetBookingListResult/Job/ItemContentCount	Integer	Optional	
GetBookingListResult/Job/DeliverByTime	Time	Optional	
GetBookingListResult/Job/StopId	String	Optional	
GetBookingListResult/Job/POD	String	Optional maxLength=30	
GetBookingListResult/Job/NumberOfStops	Integer	Optional	

## Exceptions

### baseException

All Exceptions will have the same basic structure which specific error will derive from, either:

3. Implementing – The structure matches baseException exactly
4. Extends – There is additional data included specific to that failure scenario

Element Name	Type	Facets	Description
Reason	String		Free text to describe the nature/cause of the error
JobNumber	Integer	Optional	The associated CitySprint job number that was being acted on when the error occurred
RetryRequested			Should be set to indicate whether there is no chance of successfully processing regardless if the original operation was retired



# Specification



## Exceptions

Name
ApplicationException
AuthenticationException
BillingException
DatabaseException
InvalidDataException
UnknownJobException
UnableToCompleteException

### ApplicationException

Application encountered an internal error.  
Implements baseException.

### DatabaseException

An internal database error has prevented CityTrak from completing operation.  
Implements baseException.

### UnknownJobException

The job being altered does not exist within the system.  
Implements baseException.

### UnableToCompleteException

Requested operation cannot be completed due to business rules.  
Implements baseException.

### AuthenticationException

Requested operation could not be completed as security information supplied is not valid.  
Implements baseException.

### BillingException

Requested operation could not be completed as the billing information supplied is not valid.  
Implements baseException.

## GetBookingDetail (*Version 1.1+*)

This operation can be called to request a job's detail from CityTrak. The job will also have additional detail the shows the job audit and current status.

The job can be selected by supplying the CustomerKey/AccountNumber and either the CityTak job number or a combination of external reference and supplier key.

## Parameters

Element Name	Type	Facets	Description
GetBookingDetail	Complex		

# Specification



GetBookingDetail /UniqueID	String	MaxLength =64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string
GetBookingDetail /Authentication	Complex		See section 0.
GetBookingDetail/CustomerKey	String	Required	Customer key
GetBookingDetail/JobNumber	Integer		Job Number
GetBookingDetail/RefSupplierKey	Complex		
GetBookingDetail/RefSupplierKey/Externalreference	String	Required	External Reference
GetBookingDetail/RefSupplierKey/SupplierKey	String	Required	Supplier key

## Return

### Success

Element Name	Type	Facets	Description
GetBookingDetailResult	Complex	Optional	
GetBookingDetailResult/Result	Complex	Optional	
GetBookingDetailResult/Result/DriverKey	String	Optional	Based on whether job is allocated
GetBookingDetailResult/Result/JobAuditList	Complex		
../JobAuditList/JobAudit/StopNumber	String		If audit relates to a specific stop otherwise 0
../JobAuditList/JobAudit/EntryDate	String		Entry Date , in format matching that specified by customer
../JobAuditList/JobAudit/EntryTime	String		Entry Time , in format matching that specified by customer
../JobAuditList/JobAudit/Description	String		Description
GetBookingDetailResult/Result/CurrentStatus	String		One of the following values Pickup Deliver WaitingTime Accept Current ArrivedAt Complete Allocated JobAlloc JobTag JobUntag JobUnalloc JobRealloc
GetBookingDetailResult/Result/StatusDateTime	String		Status DateTime , in format matching that specified by customer
GetBookingDetailResult/Result/Booking	String		As section 0

### Exceptions

Name
ApplicationException
AuthenticationException
BillingException
DatabaseException

# Specification



InvalidDataException
UnknownJobException
UnableToCompleteException

## **ApplicationException**

Application encountered an internal error.  
Implements baseException.

## **DatabaseException**

An internal database error has prevented CityTrak from completing operation.  
Implements baseException.

## **UnknownJobException**

The job being altered does not exist within the system.  
Implements baseException.

## **UnableToCompleteException**

Requested operation cannot be completed due to business rules.  
Implements baseException.

## **AuthenticationException**

Requested operation could not be completed as security information supplied is not valid.  
Implements baseException.

## **BillingException**

Requested operation could not be completed as the billing information supplied is not valid.  
Implements baseException.

# Specification



## GetJobGPS (Version 1.3+)

This operation can be called to retrieve the current GPS co-ordinates for the driver allocated to the specified job. There are restrictions on when GPS information is available for a job.

The GPS co-ordinates of the allocated driver are only returned when a job is in progress. A job is considered to be in progress after the driver has accepted the job on the City Trakker and until the job is updated as 'delivered'.

If the job is not in progress then only the Job Status, Service Group and Vehicle Description tags are returned.

### Parameters

Element Name	Type	Facets	Description
GetJobGPS	Complex		
GetJobGPS /UniqueID	String	MaxLength =64	Identifier unique to the communication, should be prefixed with the CitySprint assigned string.
GetJobGPS /Authentication	Complex		See section 0.
GetJobGPS/CustomerKey	String	Required	Customer key (1-8)
GetJobGPS/JobNumber	Integer		Job Number

### Return

#### Success

Element Name	Type	Facets	Description
GetJobGPSResult	Complex	Optional	
GetJobGPSResult/Result	Complex	Optional	
GetJobGPSResult/Result/Mobileid	String	Optional	The mobile ID.
GetJobGPSResult/Result/GPSDateTime	String	Optional	GPS date and time, in format matching that specified by customer. Only returned if the <u>job is in progress</u> .
GetJobGPSResult/Result/JobStatus	String		Current job status.
GetJobGPSResult/Result/ServiceGroup	String		Entry Date , in format matching that specified by customer
GetJobGPSResult/Result/Latitude	String	Optional	Only returned if the <u>job is in progress</u> .
GetJobGPSResult/Result/Longitude	String	Optional	Only returned if the <u>job is in progress</u> .
GetJobGPSResult/Result/VehicleDescription	String		Vehicle description.

### Exceptions

Name
ApplicationException
AuthenticationException
DatabaseException
InvalidDataException
UnknownJobException
UnableToCompleteException

# Specification



## **ApplicationException**

Application encountered an internal error.  
Implements baseException.

## **DatabaseException**

An internal database error has prevented CityTrak from completing operation.  
Implements baseException.

## **UnknownJobException**

The job being altered does not exist within the system.  
Implements baseException.

## **UnableToCompleteException**

Requested operation cannot be completed due to business rules.  
Implements baseException.

## **AuthenticationException**

Requested operation could not be completed as security information supplied is not valid.  
Implements baseException.

## **InvalidDataException**

The operation found the operational data (inputted, processed, or outputted) to be invalid.

# Specification



## Appendix A List of Country Codes

This is the list of country codes that is accepted as the 'Country' part of an address.

Country Code	Country Name
ALD	ALDERNEY
ANT	Netherlands Antilles
AUS	Australia
BRN	Brunei
CAN	Canada
CHE	Switzerland
CHL	Chile
CHN	China
COD	DR Congo
COL	Colombia
CRI	Costa Rica
CYM	Cayman Islands
DOM	Dominican Republic
ECU	Ecuador
EGY	Egypt
ESP	Spain
EST	Estonia
GEO	Georgia
GGY	Guernsey
GIB	Gibraltar
GRC	Greece
GTM	Guatemala
GUF	French Guiana
GUM	Guam
GUY	Guyana
HKG	Hong Kong
HND	Honduras
HRV	Croatia
HTI	Haiti
ICY	Canary Islands
IDN	Indonesia
IMN	Isle of Man
ISL	Iceland
JAM	Jamaica
JEY	Jersey
JPN	Japan
KHM	Cambodia
KOR	South Korea
LAO	Laos
LIE	Liechtenstein
MAC	Macau
MCO	Monaco
MEX	Mexico
MMR	Myanmar
MSR	Montserrat

# Specification



MTQ	Martinique
MYS	Malaysia
NCY	Northern Cyprus
NIC	Nicaragua
NOR	Norway
NZL	New Zealand
PAN	Panama
PER	Peru
PHL	Philippines
PRI	Puerto Rico
PRY	Paraguay
RUS	Russia
SGP	Singapore
SLV	El Salvador
SMR	San Marino
SRB	Serbia
SUR	Suriname
SVK	Slovakia
SVN	Slovenia
THA	Thailand
TUR	Turkey
TWN	Taiwan
UKR	Ukraine
USA	United States
VNM	Vietnam
ZAF	South Africa
AUT	Austria
BEL	Belgium
BGR	Bulgaria
CYP	Cyprus
CZE	Czech Republic
DEU	Germany
DNK	Denmark
FIN	Finland
FRA	France
HUN	Hungary
IRL	Ireland
ITA	Italy
LTU	Lithuania
LUX	Luxembourg
LVA	Latvia
MLT	Malta
NLD	Netherlands
POL	Poland
PRT	Portugal
ROU	Romania
SWE	Sweden
ABW	Aruba
AFG	Afghanistan
AGO	Angola
AIA	Anguilla



# Specification



ALB	Albania
AND	Andorra
ARE	United Arab Emirates
ARG	Argentina
ARM	Armenia
ASC	Ascension
ASM	American Samoa
ATA	Antartica
ATG	Antigua & Barbuda
AZE	Azerbaijan
BDI	Burundi
BEN	Benin
BFA	Burkina Faso
BGD	Bangladesh
BHR	Bahrain
BHS	Bahamas
BIH	BOSNIA HERZEGOVINA
BLR	Belarus
BLZ	Belize
BMU	Bermuda
BOL	Bolivia
BRA	Brazil
BRB	Barbados
BTN	Bhutan
BWA	Botswana
CAF	Central African Republic
CCK	Cocos (Keeling) Islands
CIV	Cote D'Ivoire
CMR	Cameroon
COG	Republic of the Congo
COK	Cook Islands
COM	Comoros
CPV	Cape Verde
CUB	Cuba
CXR	Christmas Island
DJI	Djibouti
DMA	Dominica
DZA	Algeria
ERI	Eritrea
ESH	Western Sahara
ETH	Ethiopia
FJI	Fiji
FLK	Falkland Islands
FRO	Faroe Islands
FSM	Micronesia
GAB	Gabon
GBR	United Kingdom
GHA	Ghana
GIN	Guinea
GLP	Guadeloupe
GMB	Gambia

# Specification



GNB	Guinea Bissau
GNQ	Equatorial Guinea
GRD	Grenada
GRL	Greenland
HMD	Heard Island & McDonald Island
IND	India
IOT	British Indian Ocean Territory
IRN	Iran
IRQ	Iraq
ISR	Israel
JOR	Jordan
KAZ	Kazakhstan
KEN	Kenya
KGZ	Kyrgyzstan
KIR	Kiribati
KNA	Saint Kitts & Nevis
KWT	Kuwait
LBN	Lebanon
LBR	Liberia
LBY	Libya
LCA	Saint Lucia
LKA	Sri Lanka
LSO	Lesotho
MAR	Morocco
MDA	Moldova
MDG	Madagascar
MDV	Maldives
MHL	Marshall Islands
MKD	Macedonia
MLI	Mali
MNE	Montenegro
MNG	Mongolia
MNP	Northern Mariana Islands
MOZ	Mozambique
MRT	Mauritania
MUS	Mauritius
MWI	Malawi
MYT	Mayotte
NAM	Namibia
NCL	New Caledonia
NER	Niger
NFK	Norfolk Island
NGA	Nigeria
NIE	Northern Ireland
NIU	Niue
NPL	Nepal
NRU	Nauru
OMN	Oman
PAK	Pakistan
PCN	Pitcairn Islands
PLW	Palau

# Specification



PNG	Papua New Guinea
PRK	North Korea
PSE	Palestinian Territories
PYF	French Polynesia
QAT	Qatar
REU	Reunion
RWA	Rwanda
SAU	Saudi Arabia
SBH	Saint Barthelemy
SCG	Kosovo
SCI	Sark
SDN	Sudan
SEN	Senegal
SGS	South Georgia & South Sandwich Islands
SHN	Saint Helena
SJM	Svalbard
SLB	Solomon Islands
SLE	Sierra Leone
SOM	Somalia
SPM	Saint Pierre & Miquelon
STP	Sao Tome & Principe
SWZ	Swaziland
SYC	Seychelles
SYR	Syria
TAA	Tristan da Cunha
TCA	Turks & Caicos Islands
TCD	Chad
TGO	Togo
TJK	Tajikistan
TKL	Tokelau
TKM	Turkmenistan
TLS	East Timor
TON	Tonga
TTO	Trinidad & Tobago
TUN	Tunisia
TUV	Tuvalu
TZA	Tanzania
UGA	Uganda
URY	Uruguay
UZB	Uzbekistan
VAT	Vatican City
VCT	Saint Vincent & the Grenadines
VEN	Venezuela
VGB	British Virgin Islands
VIR	U.S. Virgin Islands
VUT	Vanuatu
WLF	Wallis & Futuna
WSM	Samoa
YEM	Yemen
ZMB	Zambia
ZWE	Zimbabwe

## Appendix B Credit Card Types

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This is the list of valid credit card types.

Credit Card Type
American Express
Diners Club
GE Capital
JBC
JCB
Laser
Maestro
Mastercard
Platima
Solo
Switch
VISA
VISA Delta
VISA Purchasing

## Appendix C Job Status

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Status	Description
JobAlloc	Job is allocated to a driver
JobRealloc	Job has been reallocated, the driver number will change
JobUnalloc	Job has been unallocated
Current	Driver on the way to pick up
AtPickup	Driver waiting at the pickup
Pickup	POB
Complete	Stop completed
Deliver	Job Completed
WaitingTime	Waiting time incurred, can be sent anytime during the jobs life