Bookings Swagger Document Definition



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# Overview

KiwiRail is providing an EDI interface for customer bookings. It is a RESTful JSON web service secured by JWT in an Authorization bearer header. This document is intended to give sufficient detail for a customer organisation to create successful booking transactions.

# Security

Network access will be via HTTPS using TLS v1.2. Security will be implemented via an HTTP Authorization header with a bearer JWT value. A sample JWT header and payload is as follows:

{

 "typ": "JWT",

 "alg": "ES256"

}

.

{

 "sub": "Fonterra",

 "type": "access",

 "iss": "KiwiRail",

 "label": "ctms",

 "nbf": 1517396400,

 "exp": 1517482800,

 "iat": 1517396400,

 "jti": "328ea5d5-df30-4622-b248-7ed4ede75b4a",

 "roles": [

 "create-booking", "update-booking", "cancel-booking"

 ]

}

The payload fields have the following uses:

|  |  |
| --- | --- |
| **Field** | **Purpose** |
| **sub** | Company name, or possibly user id for some applications |
| **type** | "access" or "refresh" |
| **iss** | Company that created this token |
| **label** | Allows labelling of tokens for different intended uses, e.g. the AAA service could apply differing security checks for some values. |
| **nbf** | Not before time. Token is invalid if used before this time |
| **exp** | Expiry Time. Token is invalid is used after this time. |
| **iat** | Time the token was created. |
| **jti** | Unique identifier for this token. |
| **roles** | List of roles that this token is valid for |

This JWT would appear as an HTTP header (all on one line):

Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJFUzI1NiJ9.eyJzdWIiOiJGb250ZXJyYSIsInR5cGUiOiJhY2Nlc3MiLCJpc3MiOiJLaXdpUmFpbCIsImxhYmVsIjoiY3RtcyIsIm5iZiI6MTUxNzM5NjQwMCwiZXhwIjoxNTE3NDgyODAwLCJpYXQiOjE1MTczOTY0MDAsImp0aSI6IjMyOGVhNWQ1LWRmMzAtNDYyMi1iMjQ4LTdlZDRlZGU3NWI0YSIsInJvbGVzIjpbImNyZWF0ZS1ib29raW5nIiwidXBkYXRlLWJvb2tpbmciXX0.FWSnUv0Twc1LmGVPer4ZIiPuSqIsSt9eB\_Kycj1dP9egeOG-3v9z2k-74U3\_V8H7GbBC2VO1jJHLbRV2DSVqAw

Signatures will always be performed using the ES256 algorithm.

# Booking Endpoint Overview

## Create Booking Endpoint

|  |  |  |
| --- | --- | --- |
| Production URI | Method | Description |
| https://api.kiwirail.co.nz/V1/bookings | POST | Create unscheduled booking |

|  |  |  |
| --- | --- | --- |
| Test URI | Method | Description |
| https://api-uat.kiwirail.co.nz:444/V1/bookings | POST | Create unscheduled booking |

## Create Booking Sample Body Request

{

 "bookingSource": "string",

 "bookingReference": "string",

 "bookingType": "string",

 "bookerCode": "string",

 "freightPayerCode": "string",

 "senderCode": "string",

 "railOrigin": "string",

 "exCTorSiding": "string",

 "doorPickupRequired": false,

 "senderAddress": {

 "senderAddressName": "string",

 "senderAddressSuburb": "string",

 "senderAddressCity": "string"

 },

 "receiverCode": "string",

 "railDestination": "string",

 "toCTorSiding": "string",

 "doorDropoffRequired": false,

 "receiverAddress": {

 "receiverAddressName": "string",

 "receiverAddressSuburb": "string",

 "receiverAddressCity": "string"

 },

 "freightAvailable": "string",

 "freightRequiredAtDestination": "string",

 "scheduleBooking": false,

 "scheduleTo": "string",

 "scheduleWaitlistOK": false,

 "scheduleFirstOnly": false,

 "customerReference": "string",

 "releaseNumber": "string",

 "commodity": "string",

 "equipmentCategory": "string",

 "doorPickUp": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "doorDropOff": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "equipmentAttributes": [

 {

 "equipmentGroup": "string",

 "equipmentClass": "string",

 "quantity": 0,

 "netWeight": 0,

 "reefer": false,

 "hazardous": false,

 "kiwiRailSupplyIndicator": true,

 "orderNumber": "string",

 "equipmentID": "string",

 "underBond": false,

 "reeferAttributes": {

 "setTemperature": 0,

 "allowedTimeOffPower": 0,

 "requiresGenerator": false,

 "KRSupply": true

 },

 "hazAttributes": [

 {

 "hazClass": "string",

 "un": "string"

 }

 ],

 "kiwiRailSupplyAttributes": {

 "supplyDateTime": "string"

 }

 }

 ],

 "imexAttributes": {

 "ship": "string",

 "shipOperator": "string",

 "shipCutOffDateTime": "string",

 "voyageNumber": "string",

 "nzPort": "string",

 "customsClearanceNumber": "string",

 "overseasDestination": "string"

 },

 "bookerEmail": "string",

 "senderEmail": "string",

 "receiverEmail": "string",

 "scheduleServices": [

 {

 "serviceID": "string"

 }

 ]

}

## Create Booking Request Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingSource | optional | string | Identifies the channel by which the booking was received, for example, email, phone, EDI. |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identifies this booking request.  |
| bookingType | optional | string | The type of booking to be created, that is, standard. |
| bookerCode | optional | string | The Customer Address Code for the party requesting the booking.  |
| freightPayerCode | mandatory | string | The Customer Address Code for the Freight Payer that is the customer address (and associated customer account) that will be invoiced for the booking.  |
| senderCode | optional | string | The Customer Address Code for the address from which the freight is originating. If this is not supplied then Sender Address details must be supplied in order to identify the Sender Code. |
| railOrigin | optional | string | The Location Code for the 'on rail' location from where the freight will travel. If not provided this will be derived from the Sender Code using the following rules. If the Sender Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Sender Address is not associated to a Siding then this will be the CT Site linked to the Sender Address. |
| exCTorSiding | optional | string | Determines whether the freight will travel from a Siding or a CT Site. If not supplied then this will default using the same rules as for railOrigin. If provided the Customer’s Sender Address must be associated to a siding in order to place an ex siding booking. Any sender address can request an ex CT booking. |
| doorPickupRequired | optional | boolean | For ex CT bookings defines whether the customer requires their freight to be collected from their sender address and transported to the CT site. Where this is required, door pickup details must also be provided to create the required transport orders. |
| senderAddress | optional |  | Optionally the customer can supply address details for the Sender Code to be derived from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| senderAddressName | mandatory | string | The Customer Address Name that can be used to derive the Sender Code.  |
| senderAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Sender Code.  |
| senderAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Sender Code.  |
| receiverCode | optional | string | The Customer Address Code for the address to which the freight is destined. If this is not supplied then Receiver Address details must be supplied in order to identify the Receiver Code. |
| railDestination | optional | string | The Location Code for the 'on rail' location to where the freight will travel. If not provided this will be derived from the Receiver Code using the following rules. If the Receiver Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Receiver Address is not associated to a Siding then this will be the CT Site linked to the Receiver Address City. |
| toCTorSiding | optional | string | Determines whether the freight will travel to a Siding or a CT Site. If not supplied then this will default using the same rules as for railDestination. If provided the Customers Receiver Address must be associated to a siding in order to place a to siding booking. Any receiver address can request a to CT booking. |
| doorDropoffRequired | optional | boolean | For to CT bookings defines whether the customer requires their freight to be collected from the CT Site and delivered to their receiver address. Where this is required, door dropoff details must also be provided to create the required transport orders. |
| receiverAddress | optional |  | Optionally the customer can supply address details to derive the Receiver Code from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| receiverAddressName | mandatory | string | The Customer Address Name that can be used to derive the Receiver Code.  |
| receiverAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Receiver Code.  |
| receiverAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Receiver Code.  |
| freightAvailable | mandatory | string | The date and time when the freight will be available to travel. For an exCT booking this is the date and time that the freight will be at the CT site. For siding freight this is the time the freight will be loaded and ready to travel.  |
| freightRequiredAtDestination | mandatory | string | The date and time when the customer requires the freight to arrive at the on rail destination. For a toCT booking this is the date and time that the freight will be required to reach the CT site. For toSiding bookings this should be when the wagons are required to reach the nearest rail terminal. |
| scheduleBooking | boolean | string | true/false indicates whether the booking needs to be scheduled or left as an unscheduled booking. Phase 1 of EDI bookings this will always be 'N' as the bookings will be manually scheduled. |
| scheduleTo | optional | string | freightAvailable' or 'freightRequiredAtDestination' indicates whether the booking needs to be scheduled to when the freight is available to travel or to when the freight is required at destination. Typically inbound empty supply will be scheduled to the service that gets the equipment to destination by when it is required at destination whereas outbound loads will be booked to the first service departing after the freight is available to travel. |
| scheduleWaitlistOK | optional | boolean | true/false indicates whether it is ok for the booking to be waitlisted if there is no available capacity and the service allows waitlisting. This option will only be used where the customer is set up to allow 'waitlisting' |
| scheduleFirstOnly | optional | boolean | true/false indicates whether to only allow scheduling against the 'first' service that satisfies the customer requirement. Where 'true' it will not search for services with available capacity but rather attempt to book to the 'first' service that meets the requirement. If no capacity is available it will check whether waitlisting is allowed. If it is, it will waitlist, else it will reject the booking with 'No Capacity Available'. |
| customerReference | mandatory | string | The customer reference for the booking, typically this will be the Customer Purchase Order Number. This will be treated as a mandatory field where the customer is set up as 'Customer Reference required'. |
| releaseNumber | optional | string | The Shipping line booking reference which is used to release empty container from the container park and supplied to the Port when delivering freight to be shipped. |
| commodity | mandatory | string | The commodity code for the freight to be moved in the booking. |
| equipmentCategory | optional | string | Wagon/Container indicates the type of equipment being booked. |
| doorPickUp |  |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at origin |
| moveType | mandatory | string | origin |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | mandatory | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container. |
| deliveryDateTime | optional | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| doorDropOff | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at destination |
| moveType | mandatory | string | destination |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | optional | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container |
| deliveryDateTime | mandatory | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| equipmentAttributes | mandatory |  | At least one equipment line must exist for a booking |
| equipmentGroup | optional | string | The KiwiRail Equipment Group code of the equipment to be booked. Where the equipment is not KiwiRail supply the customer can specify the Equipment Group and the Equipment Class will default. If the Equipment class is provided the Equipment Group will default from the Class. This must be one of the valid values - refer 'EquipmentGroup' |
| equipmentClass | optional | string | The KiwiRail Equipment Class code of the equipment to be booked. This must be provided where the equipment is to be supplied by KiwiRail else it may be defaulted from the Equipment Group. This must be one of the valid values - refer 'EquipmentClass' |
| quantity | optional | integer | The quantity of this group, class and weight of equipment and commodity to be booked |
| netWeight | mandatory | integer | The net weight of the freight being booked. This must be supplied but may be 0 where the commodity is empty. |
| reefer | optional | boolean | true/false indicates whether it is reefer commodity being booked. Where this is 'true' reefer attributes must be supplied for the equipment. |
| hazardous | optional | boolean | true/false indicates whether it is hazardous commodity being booked. Where this is 'true' haz attributes may be supplied for the equipment. |
| kiwiRailSupplyIndicator | optional | boolean | true/false indicates whether the equipment is to be supplied by KiwiRail. For wagon bookings this will always be 'true' . |
| orderNumber | optional | string | A customer supplied order number for this equipment  |
| equipmentID | optional | string | The identifier for the equipment line. This is the container or wagon ID to be moved. |
| underBond | optional | boolean | Indicates whether the container is under bond. |
| reeferAttributes | optional |  | Where the equipment is 'reefer' the following information must be supplied |
| setTemperature | mandatory | number | The temperature that the container is to be set at. |
| allowedTimeOffPower | optional | number | The maximum amount of time that the container is allowed to be off power. This is cumulative and is not reset when the container is plugged in. |
| requiresGenerator | mandatory | boolean | true/false indicates whether the freight being transported is 'refrigerated' commodity which requires a generator (so that it does not exceed the maximum time off power) |
| KRSupply | optional | boolean | true/false where a generator is required this indicates whether the generator is to be supplied by KiwiRail.  |
| hazAttributes | optional |  | Where the equipment is 'hazardous' the following information may be supplied. Only one haz class and UN code can be supplied for a booking request. |
| hazClass | mandatory | string | The haz class of the commodity |
| un | mandatory | string | The haz UN code of the commodity |
| kiwiRailSupplyAttributes | optional |  |  |
| supplyDateTime | mandatory | string | Where KiwiRail is to supply the equipment this is the date and time that it is required to be supplied. This is required where the kiwiRailSupplyIndicator is true. |
| imexAttributes | optional |  | Where the booking is for Imports or Exports the shipping details can be captured  |
| ship | optional | string | The ship that the freight is on (for inbound) or booked to (outbound) |
| shipOperator | optional | string | The shipping line that operates the ship |
| shipCutOffDateTime | optional | string | For export, the time that the freight must reach the Port  |
| voyageNumber | optional | string | The voyage number for the ship sailing |
| nzPort | optional | string | The NZ Port that the freight is inbound to, or outbound from |
| customsClearanceNumber | optional | string | For imports, the NZ customs clearance number for clearing the goods from the Port |
| overseasDestination | optional | string | For exports, the overseas Port to which the freight is destined  |
| bookerEmail | optional | string | If the booker requires a booking confirmation to be emailed then they must supply an email address to send this to (**For Production, please use the DTL EDI booking confirmation email address**) |
| senderEmail | optional | string | If the sender requires a booking confirmation to be emailed then they must supply an email address to send this to |
| recieverEmail | optional | string | If the receiver requires a booking confirmation to be emailed then they must supply an email address to send this to |
| scheduleServices | optional | string | Schedule to Service list |
| serviceID | mandatory | string | The Service Identifier for the service the equipment to book to |

## Create Booking Request Headers

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** | **Value** | **Data Type** | **Comment** |
| **Version** *\*requrired* | 1 | integer | The version of this message format. |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | string | An unique identifier for a set of messages belonging to each other. Can be null if there is no transaction ID attached to this message. Identifier is defined as <app>\_<initiator>\_<timestamp>\_UUID for example |
| **messageID** |  | string | Unique identifier for this message. This is similar to the Mule ESB MessageID who would use this id internally. The message ID should only exist for the message between two systems, so a stream over three components will use two messageIDs one for component A to B and one from B to C. This value cannot be set by the caller. |
| **currentSystem** | Fonterra Bookings | string | System that generated the message |
| **userInitiatingRequest** | email | string | User requesting/submitting information Login ID  |
| **creationTimestamp** *\*required* | 2017-11-07 13:13:13:123 NZDT | string | Date of creation of the message in YYYY-MM-DD hh:mm:ss:ms in NZDT |
| **auditCategory** | string | string | Holds a string that can be used to collect log information over all services |
| **payloadEncrypted** | Boolean | boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | string | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is passthrough |
| **debug** | 0 | integer | Logs all requests if set in debug mode 0 - Don't debug 1 - Debug mode |
| **retryNumber** | 0 | integer | Attempts made by calling service to read content |
| **Cache-Control** | no-cache | string | Recommended caching time for services to expire (When data should be refreshed.) (When data should be refreshed.) The directives can be used max-age, s-max-age, private/public, no-cache, no-store, must-revalidate, proxy-revalidate |
| **previousID** |  | string | If this is a next message in a communication sequence, the message that triggered this one. For instance, message ‘aa’ created this message ‘bb’ the PreviousID equals 'aa’. If this is the first message, the value is null |
| **payloadSignature** |  | string | Optional payload signature for cases where nonrepudiation is required. |

## Create booking Sample Response Body

The response message is the entire booking, with a bookingID field and possibly other fields updated by CTMS.

{

 "bookingID": "string",

 "bookingSource": "string",

 "bookingReference": "string",

 "bookingType": "string",

 "bookerCode": "string",

 "freightPayerCode": "string",

 "senderCode": "string",

 "railOrigin": "string",

 "exCTorSiding": "string",

 "doorPickupRequired": false,

 "senderAddress": {

 "senderAddressName": "string",

 "senderAddressSuburb": "string",

 "senderAddressCity": "string"

 },

 "receiverCode": "string",

 "railDestination": "string",

 "toCTorSiding": "string",

 "doorDropoffRequired": false,

 "receiverAddress": {

 "receiverAddressName": "string",

 "receiverAddressSuburb": "string",

 "receiverAddressCity": "string"

 },

 "freightAvailable": "string",

 "freightRequiredAtDestination": "string",

 "scheduleBooking": false,

 "scheduleTo": "string",

 "scheduleWaitlistOK": false,

 "scheduleFirstOnly": false,

 "customerReference": "string",

 "releaseNumber": "string",

 "commodity": "string",

 "equipmentCategory": "string",

 "doorPickUp": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "doorDropOff": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "equipmentAttributes": [

 {

 "equipmentGroup": "string",

 "equipmentClass": "string",

 "quantity": 0,

 "netWeight": 0,

 "reefer": false,

 "hazardous": false,

 "kiwiRailSupplyIndicator": true,

 "orderNumber": "string",

 "equipmentID": "string",

 "underBond": false,

 "reeferAttributes": {

 "setTemperature": 0,

 "allowedTimeOffPower": 0,

 "requiresGenerator": false,

 "KRSupply": true

 },

 "hazAttributes": [

 {

 "hazClass": "string",

 "un": "string"

 }

 ],

 "kiwiRailSupplyAttributes": {

 "supplyDateTime": "string"

 },

 "scheduleDetails": {

 "serviceCutOffDateTime": "string",

 "arrivalAtDestinationDateTime": "string",

 "expectedAtDestinationDateTime": "string",

 "waitlisted": false

 }

 }

 ],

 "imexAttributes": {

 "ship": "string",

 "shipOperator": "string",

 "shipCutOffDateTime": "string",

 "voyageNumber": "string",

 "nzPort": "string",

 "customsClearanceNumber": "string",

 "overseasDestination": "string"

 },

 "bookerEmail": "string",

 "senderEmail": "string",

 "receiverEmail": "string",

 "scheduleStatus": "string",

 "errors": [

 {

 "code": 0,

 "description": "string"

 }

 ],

 "\_links": [

 {

 "rel": "string",

 "href": "string"

 }

 ]

}

## Create Booking Response Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingID | mandatory | string | A unique ID to be generated by CTMS |
| bookingSource | optional | string | Identifies the channel by which the booking was received, for example, email, phone, EDI. |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identifies this booking request.  |
| bookingType | optional | string | The type of booking to be created, standard, repeat master (recurring booking), cash sale, service recovery. The default for EDI bookings will be ‘Standard’ |
| bookerCode | mandatory | string | The Customer Address Code for the party requesting the booking.  |
| freightPayerCode | mandatory | string | The Customer Address Code for the Freight Payer, that is the customer address (and associated customer account) that will be invoiced for the booking.  |
| senderCode | optional | string | The Customer Address Code for the address from which the freight is originating. If this is not supplied then Sender Address details must be supplied in order to identify the Sender Code. |
| railOrigin | optional | string | The Location Code for the 'on rail' location from where the freight will travel. If not provided this will be derived from the Sender Code using the following rules. If the Sender Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Sender Address is not associated to a Siding then this will be the CT Site linked to the Sender Address. |
| exCTorSiding | optional | string | Determines whether the freight will travel from a Siding or a CT Site. If not supplied then this will default using the same rules as for railOrigin. If provided the Customer’s Sender Address must be associated to a siding in order to place an ex siding booking. Any sender address can request an ex CT booking. |
| doorPickupRequired | optional | boolean | For ex CT bookings defines whether the customer requires their freight to be collected from their sender address and transported to the CT site. Where this is required, door pickup details must also be provided to create the required transport orders. |
| senderAddress | optional |  | Optionally the customer can supply address details for the Sender Code to be derived from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| senderAddressName | mandatory | string | The Customer Address Name that can be used to derive the Sender Code.  |
| senderAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Sender Code.  |
| senderAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Sender Code.  |
| receiverCode | optional | string | The Customer Address Code for the address to which the freight is destined. If this is not supplied then Receiver Address details must be supplied in order to identify the Receiver Code. |
| railDestination | optional | string | The Location Code for the 'on rail' location to where the freight will travel. If not provided this will be derived from the Receiver Code using the following rules. If the Receiver Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Receiver Address is not associated to a Siding then this will be the CT Site linked to the Receiver Address City. |
| toCTorSiding | optional | string | Determines whether the freight will travel to a Siding or a CT Site. If not supplied then this will default using the same rules as for railDestination. If provided the Customers Receiver Address must be associated to a siding in order to place a to siding booking. Any receiver address can request a to CT booking. |
| doorDropoffRequired | optional | boolean | For to CT bookings defines whether the customer requires their freight to be collected from the CT Site and delivered to their receiver address. Where this is required, door dropoff details must also be provided to create the required transport orders. |
| receiverAddress | optional |  | Optionally the customer can supply address details to derive the Receiver Code from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| receiverAddressName | mandatory | string | The Customer Address Name that can be used to derive the Receiver Code.  |
| receiverAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Receiver Code.  |
| receiverAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Receiver Code.  |
| freightAvailable | mandatory | string | The date and time when the freight will be available to travel. For an exCT booking this is the date and time that the freight will be at the CT site. For siding freight this is the time the freight will be loaded and ready to travel.  |
| freightRequiredAtDestination | mandatory | string | The date and time when the customer requires the freight to reach destination. For a toCT booking this is the date and time that the freight will be required to reach the CT site. For toSiding bookings this should be when the wagons are required to be placed at the siding. |
| scheduleBooking | optional | boolean | true/false indicates whether the booking needs to be scheduled or left as an unscheduled booking. |
| scheduleTo | optional | string | freightAvailable' or 'freightRequiredAtDestination' indicates whether the booking needs to be scheduled to when the freight is available to travel or to when the freight is required at destination. Typically inbound empty supply will be scheduled to the service that gets the equipment to destination by when it is required at destination whereas outbound loads will be booked to the first service departing after the freight is available to travel. |
| scheduleWaitlistOK | optional | boolean | true/false indicates whether it is ok for the booking to be waitlisted if there is no available capacity and the service allows waitlisting. This option will only be used where the customer is set up to allow 'waitlisting' |
| scheduleFirstOnly | optional | boolean | true/false indicates whether to only allow scheduling against the 'first' service that satisfies the customer requirement. Where 'true' it will not search for services with available capacity but rather attempt to book to the 'first' service that meets the requirement. If no capacity is available it will check whether waitlisting is allowed. If it is, it will waitlist, else it will reject the booking with 'No Capacity Available'. |
| customerReference | mandatory | string | The customer reference for the booking, typically this will be the Customer Purchase Order Number.  |
| releaseNumber | optional | string | The Shipping line booking reference which is used to release empty container from the container park and supplied to the Port when delivering freight to be shipped. |
| Commodity | mandatory | string | The commodity code for the freight to be moved in the booking. |
| equipmentCategory | optional | string | Wagon/Container indicates the type of equipment being booked. |
| doorPickUp | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at origin |
| moveType | mandatory | string | origin |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | mandatory | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container. |
| deliveryDateTime | optoinal | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| doorDropOff | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at destination |
| moveType | mandatory | string | destination |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime |  | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container |
| deliveryDateTime | mandatory | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| equipmentAttributes | mandatory |  | At least one equipment line must exist for a booking |
| equipmentGroup | optional | string | The KiwiRail Equipment Group code of the equipment to be booked. Where the equipment is not KiwiRail supply the customer can specify the Equipment Group and the Equipment Class will default. If the Equipment class is provided the Equipment Group will default from the Class. This must be one of the valid values - refer 'EquipmentGroup' |
| equipmentClass | optional | string | The KiwiRail Equipment Class code of the equipment to be booked. This must be provided where the equipment is to be supplied by KiwiRail else it may be defaulted from the Equipment Group. This must be one of the valid values - refer 'EquipmentClass' |
| quantity | optional | integer | The quantity of this group, class and weight of equipment and commodity to be booked |
| netWeight | mandatory | integer | The net weight of the freight being booked. This must be supplied but may be 0 where the commodity is empty. |
| reefer | optional | boolean | true/false indicates whether it is reefer commodity being booked. Where this is 'true' reefer attributes must be supplied for the equipment. |
| hazardous | optional | boolean | true/false indicates whether it is hazardous commodity being booked. Where this is 'true' haz attributes may be supplied for the equipment. |
| kiwiRailSupplyIndicator | optional | boolean | true/false indicates whether the equipment is to be supplied by KiwiRail. For wagon bookings this will always be 'true' . |
| orderNumber | optional | string | A customer supplied order number for this equipment  |
| equipmentID | optional | string | The identifier for the equipment line. This is the container or wagon ID to be moved. |
| underBond | optional | boolean | Indicates whether the container is under bond |
| reeferAttributes | optional |  | Where the equipment is 'reefer' the following information must be supplied |
| setTemperature | mandatory | number | The temperature that the container is to be set at. |
| allowedTimeOffPower | optional | number | The maximum amount of time that the container is allowed to be off power. This is cumulative and is not reset when the container is plugged in. |
| requiresGenerator | mandatory | boolean | true/false indicates whether the freight being transported is 'refrigerated' commodity which requires a generator (so that it does not exceed the maximum time off power) |
| KRSupply | optional | boolean | true/false where a generator is required this indicates whether the generator is to be supplied by KiwiRail.  |
| hazAttributes | optional |  | Where the equipment is 'hazardous' the following information may be supplied. Only one haz class and UN code can be supplied for a booking request. |
| hazClass | mandatory | string | The haz class of the commodity |
| Un | mandatory | string | The haz UN code of the commodity |
| scheduleDetails | optional |  | Where the equipment has been scheduled the schedule details |
| serviceCutOffDateTime | mandatory | string | This is the date and time that the equipment needs to be checked in at the CT site for ex CT bookings, or manifest received by for ex siging bookings in order for it to travel on the sceduled service |
| arrivalAtDestinationDateTime | mandatory | string | The time the equipment is scheduled to arrive at the destination Rail Terminal |
| expectedAtDestinationDateTime | mandatory | string | The time the equipment is scheduled to be released to the customer at destination |
| waitlisted | mandatory | boolean | true/false indicates whether the equipment has been waitlisted or conformed on the Service |
| kiwiRailSupplyAttributes | optional |  |  |
| supplyDateTime | mandatory | string | Where KiwiRail is to supply the equipment this is the date and time that it is required to be supplied. This is required where the kiwiRailSupplyIndicator is true. |
| imexAttributes | optional |  | Where the booking is for Imports or Exports the shipping details can be captured  |
| ship | optional | string | The ship that the freight is on (for inbound) or booked to (outbound) |
| shipOperator | optional | string | The shipping line that operates the ship |
| shipCutOffDateTime | optional | string | For export, the time that the freight must reach the Port  |
| voyageNumber | optional | string | The voyage number for the ship sailing |
| nzPort | optional | string | The NZ Port that the freight is inbound to, or outbound from |
| customsClearanceNumber | optional | string | For imports, the NZ customs clearance number for clearing the goods from the Port |
| overseasDestination | optional | string | For exports, the overseas Port to which the freight is destined  |
| bookerEmail | optional | string | If the booker requires a booking confirmation to be emailed then they must supply an email address to send this to |
| senderEmail | optional | string | If the sender requires a booking confirmation to be emailed then they must supply an email address to send this to |
| recieverEmail | optional | string | If the receiver requires a booking confirmation to be emailed then they must supply an email address to send this to |

## Create Booking Response Headers

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** | **Value** | **Data Type** | **Comment** |
| **version** | 1 | integer | The version of this message format. |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | string | An unique identifier for a set of messages belonging to each other. Can be null if there is no transaction ID attached to this message. Identifier is defined as <app>\_<initiator>\_<timestamp>\_UUID for example |
| **messageID** |  | string | Unique identifier for this message. This is similar to the Mule ESB MessageID who would use this id internally. The message ID should only exist for the message between two systems, so a stream over three components will use two messageIDs one for component A to B and one from B to C. This value cannot be set by the caller. |
| **currentSystem** | Fonterra Bookings | string | System that generated the message |
| **userInitiatingRequest** | email | string | User requesting/submitting information Login ID  |
| **creationTimestamp** | 2017-11-07 13:13:13:123 NZDT | string | Date of creation of the message in YYYY-MM-DD hh:mm:ss:ms in NZDT |
| **auditCategory** | string | string | Holds a string that can be used to collect log information over all services. |
| **payloadEncrypted** | Boolean | boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | string | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass-through |
| **debug** | 0 | integer | Logs all requests if set in debug mode 0 - Don't debug 1 - Debug mode |
| **retryNumber** | 0 | integer | Attempts made by calling service to read content |
| **Cache-Control** | no-cache | string | Recommended caching time for services to expire (When data should be refreshed) (When data should be refreshed) The directives can be used max-age, s-max-age, private/public, no-cache, no-store, must-revalidate, proxy-revalidate |

# Update Booking

## Update Booking Endpoint

|  |  |  |
| --- | --- | --- |
| Production URI | Method | Description |
| https://api.kiwirail.co.nz/V1/bookings/<bookingid> | PUT | Update unscheduled booking |

|  |  |  |
| --- | --- | --- |
| TEST URI | Method | Description |
| https://api-uat.kiwirail.co.nz:444/V1/bookings/<bookingid> | PUT | Update unscheduled booking |

## Update Booking Sample Body Request

{

 "bookingSource": "string",

 "bookingReference": "string",

 "bookingType": "string",

 "bookerCode": "string",

 "freightPayerCode": "string",

 "senderCode": "string",

 "railOrigin": "string",

 "exCTorSiding": "string",

 "doorPickupRequired": false,

 "senderAddress": {

 "senderAddressName": "string",

 "senderAddressSuburb": "string",

 "senderAddressCity": "string"

 },

 "receiverCode": "string",

 "railDestination": "string",

 "toCTorSiding": "string",

 "doorDropoffRequired": false,

 "receiverAddress": {

 "receiverAddressName": "string",

 "receiverAddressSuburb": "string",

 "receiverAddressCity": "string"

 },

 "freightAvailable": "string",

 "freightRequiredAtDestination": "string",

 "scheduleBooking": false,

 "scheduleTo": "string",

 "scheduleWaitlistOK": false,

 "scheduleFirstOnly": false,

 "customerReference": "string",

 "releaseNumber": "string",

 "commodity": "string",

 "equipmentCategory": "string",

 "doorPickUp": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "doorDropOff": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "equipmentAttributes": [

 {

 "equipmentGroup": "string",

 "equipmentClass": "string",

 "quantity": 0,

 "netWeight": 0,

 "reefer": false,

 "hazardous": false,

 "kiwiRailSupplyIndicator": true,

 "orderNumber": "string",

 "equipmentID": "string",

 "underBond": false,

 "reeferAttributes": {

 "setTemperature": 0,

 "allowedTimeOffPower": 0,

 "requiresGenerator": false,

 "KRSupply": true

 },

 "hazAttributes": [

 {

 "hazClass": "string",

 "un": "string"

 }

 ],

 "kiwiRailSupplyAttributes": {

 "supplyDateTime": "string"

 }

 }

 ],

 "imexAttributes": {

 "ship": "string",

 "shipOperator": "string",

 "shipCutOffDateTime": "string",

 "voyageNumber": "string",

 "nzPort": "string",

 "customsClearanceNumber": "string",

 "overseasDestination": "string"

 },

 "bookerEmail": "string",

 "senderEmail": "string",

 "receiverEmail": "string",

 "modificationReason": "string"

}

## Update Booking Request Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingSource | optional | string | Identifies the channel by which the booking was received, for example, email, phone, EDI. |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identifies this booking request.  |
| bookingType | optional | string | The type of booking to be created, standard, repeat master (recurring booking), cash sale, service recovery. The default for EDI bookings will be ‘Standard’ |
| bookerCode | mandatory | string | The Customer Address Code for the party requesting the booking.  |
| freightPayerCode | mandatory | string | The Customer Address Code for the Freight Payer, that is the customer address (and associated customer account) that will be invoiced for the booking.  |
| senderCode | optional | string | The Customer Address Code for the address from which the freight is originating. If this is not supplied then Sender Address details must be supplied in order to identify the Sender Code. |
| railOrigin | optional | string | The Location Code for the 'on rail' location from where the freight will travel. If not provided this will be derived from the Sender Code using the following rules. If the Sender Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Sender Address is not associated to a Siding then this will be the CT Site linked to the Sender Address. |
| exCTorSiding | optional | string | Determines whether the freight will travel from a Siding or a CT Site. If not supplied then this will default using the same rules as for railOrigin. If provided the Customer’s Sender Address must be associated to a siding in order to place an ex siding booking. Any sender address can request an ex CT booking. |
| doorPickupRequired | optional | boolean | For ex CT bookings defines whether the customer requires their freight to be collected from their sender address and transported to the CT site. Where this is required, door pickup details must also be provided to create the required transport orders. |
| senderAddress | optional |  | Optionally the customer can supply address details for the Sender Code to be derived from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| senderAddressName | mandatory | string | The Customer Address Name that can be used to derive the Sender Code.  |
| senderAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Sender Code.  |
| senderAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Sender Code.  |
| receiverCode | optional | string | The Customer Address Code for the address to which the freight is destined. If this is not supplied then Receiver Address details must be supplied in order to identify the Receiver Code. |
| railDestination | optional | string | The Location Code for the 'on rail' location to where the freight will travel. If not provided this will be derived from the Receiver Code using the following rules. If the Receiver Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Receiver Address is not associated to a Siding then this will be the CT Site linked to the Receiver Address City. |
| toCTorSiding | optional | string | Determines whether the freight will travel to a Siding or a CT Site. If not supplied then this will default using the same rules as for railDestination. If provided the Customers Receiver Address must be associated to a siding in order to place a to siding booking. Any receiver address can request a to CT booking. |
| doorDropoffRequired | optional | boolean | For to CT bookings defines whether the customer requires their freight to be collected from the CT Site and delivered to their receiver address. Where this is required, door dropoff details must also be provided to create the required transport orders. |
| receiverAddress | optional |  | Optionally the customer can supply address details to derive the Receiver Code from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| receiverAddressName | mandatory | string | The Customer Address Name that can be used to derive the Receiver Code.  |
| receiverAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Receiver Code.  |
| receiverAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Receiver Code.  |
| freightAvailable | mandatory | string | The date and time when the freight will be available to travel. For an exCT booking this is the date and time that the freight will be at the CT site. For siding freight this is the time the freight will be loaded and ready to travel.  |
| freightRequiredAtDestination | mandatory | string | The date and time when the customer requires the freight to reach destination. For a toCT booking this is the date and time that the freight will be required to reach the CT site. For toSiding bookings this should be when the wagons are required to be placed at the siding. |
| scheduleBooking | optional | boolean | true/false indicates whether the booking needs to be scheduled or left as an unscheduled booking. |
| scheduleTo | optional | string | freightAvailable' or 'freightRequiredAtDestination' indicates whether the booking needs to be scheduled to when the freight is available to travel or to when the freight is required at destination. Typically inbound empty supply will be scheduled to the service that gets the equipment to destination by when it is required at destination whereas outbound loads will be booked to the first service departing after the freight is available to travel. |
| scheduleWaitlistOK | optional | boolean | true/false indicates whether it is ok for the booking to be waitlisted if there is no available capacity and the service allows waitlisting. This option will only be used where the customer is set up to allow 'waitlisting' |
| scheduleFirstOnly | optional | boolean | true/false indicates whether to only allow scheduling against the 'first' service that satisfies the customer requirement. Where 'true' it will not search for services with available capacity but rather attempt to book to the 'first' service that meets the requirement. If no capacity is available it will check whether waitlisting is allowed. If it is, it will waitlist, else it will reject the booking with 'No Capacity Available'. |
| customerReference | mandatory  | string | The customer reference for the booking, typically this will be the Customer Purchase Order Number. |
| releaseNumber | optional | string | The Shipping line booking reference which is used to release empty container from the container park and supplied to the Port when delivering freight to be shipped. |
| commodity | mandatory | string | The commodity code for the freight to be moved in the booking. |
| equipmentCategory | optional | string | Wagon/Container indicates the type of equipment being booked. |
| doorPickUp | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at origin |
| moveType | mandatory | string | origin |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | mandatory | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container. |
| deliveryDateTime | optional | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| doorDropOff | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at destination |
| moveType | mandatory | string | destination |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | optional | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container |
| deliveryDateTime | optional | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| equipmentAttributes | mandatory |  | At least one equipment line must exist for a booking |
| equipmentGroup | optional | string | The KiwiRail Equipment Group code of the equipment to be booked. Where the equipment is not KiwiRail supply the customer can specify the Equipment Group and the Equipment Class will default. If the Equipment class is provided the Equipment Group will default from the Class. This must be one of the valid values - refer 'EquipmentGroup' |
| equipmentClass | optional | string | The KiwiRail Equipment Class code of the equipment to be booked. This must be provided where the equipment is to be supplied by KiwiRail else it may be defaulted from the Equipment Group. This must be one of the valid values - refer 'EquipmentClass' |
| quantity | optional | integer | The quantity of this group, class and weight of equipment and commodity to be booked |
| netWeight | mandatory | integer | The net weight of the freight being booked. This must be supplied but may be 0 where the commodity is empty. |
| reefer | optional | boolean | true/false indicates whether it is reefer commodity being booked. Where this is 'true' reefer attributes must be supplied for the equipment. |
| hazardous | optional | boolean | true/false indicates whether it is hazardous commodity being booked. Where this is 'true' haz attributes may be supplied for the equipment. |
| kiwiRailSupplyIndicator | optional | boolean | true/false indicates whether the equipment is to be supplied by KiwiRail. For wagon bookings, this will always be 'true'. |
| orderNumber | optional | string | A customer supplied order number for this equipment  |
| equipmentID | optional | string | The identifier for the equipment line. This is the container or wagon ID to be moved. |
| underBond | optional | boolean | Indicates whether the container is under bond. |
| reeferAttributes | optional |  | Where the equipment is 'reefer' the following information must be supplied |
| setTemperature | mandatory | number | The temperature that the container is to be set at. |
| allowedTimeOffPower | optional | number | The maximum amount of time that the container is allowed to be off power. This is cumulative and is not reset when the container is plugged in. |
| requiresGenerator | mandatory | boolean | true/false indicates whether the freight being transported is 'refrigerated' commodity which requires a generator (so that it does not exceed the maximum time off power) |
| KRSupply | optional | boolean | true/false where a generator is required this indicates whether the generator is to be supplied by KiwiRail.  |
| hazAttributes | optional |  | Where the equipment is 'hazardous' the following information may be supplied. Only one haz class and UN code can be supplied for a booking request. |
| hazClass | mandatory | string | The haz class of the commodity |
| un | mandatory | string | The haz UN code of the commodity |
| kiwiRailSupplyAttributes | optional |  |  |
| supplyDateTime | mandatory | string | Where KiwiRail is to supply the equipment this is the date and time that it is required to be supplied. This is required where the kiwiRailSupplyIndicator is true. |
| imexAttributes | optional |  | Where the booking is for Imports or Exports the shipping details can be captured  |
| ship | optional | string | The ship that the freight is on (for inbound) or booked to (outbound) |
| shipOperator | optional | string | The shipping line that operates the ship |
| shipCutOffDateTime | optional | string | For export, the time that the freight must reach the Port  |
| voyageNumber | optional | string | The voyage number for the ship sailing |
| nzPort | optional | string | The NZ Port that the freight is inbound to, or outbound from |
| customsClearanceNumber | optional | string | For imports, the NZ customs clearance number for clearing the goods from the Port |
| overseasDestination | optional | string | For exports, the overseas Port to which the freight is destined  |
| bookerEmail | optional | string | If the booker requires a booking confirmation to be emailed then they must supply an email address to send this to (**For Production, please use the DTL EDI booking confirmation email address**) |
| senderEmail | optional | string | If the sender requires a booking confirmation to be emailed then they must supply an email address to send this to |
| recieverEmail | optional | string | If the receiver requires a booking confirmation to be emailed then they must supply an email address to send this to |
| modificationReason | optional | string | The reason the booking is to be modified |
| scheduleServices | optional |  | Schedule to Service list |
| serviceID | mandatory | string | The Service Identifier for the service the equipment to book to |

## Update Booking Request Headers

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** | **Value** | **Data Type** | **Comment** |
| **bookingID** *\*required* | String | string | The booking ID of the booking to update |
| **Version** *\*required* | 1 | integer | The version of this message format |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | string | An unique identifier for a set of messages belonging to each other. Can be null if there is no transaction ID attached to this message. Identifier is defined as \_UUID for example |
| **currentSystem** | Fonterra Bookings | string | System that generated the message |
| **userInitiatingRequest** | email | string | User requesting/submitting information Login ID  |
| **creationTimestamp** *\*required* | 2017-11-07 13:13:13:123 NZDT | string | Date of creation of the message in YYYY-MM-DD hh:mm:ss:ms in NZDT |
| **auditCategory** | string | string | Holds a string that can be used to collect log information over all services. |
| **payloadEncrypted** | Boolean | boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption (like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | string | When the payload is text, it should contain the text encoding (Like ‘UTF-8’), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass-through |
| **debug** | 0 | integer | Logs all requests if set in debug mode 0 - Don’t debug 1 - Debug mode |
| **retryNumber** | 0 | integer | Attempts made by calling service to read content |
| **Cache-Control** | no-cache | string | Recommended caching time for services to expire (When data should be refreshed. ) (When data should be refreshed. ) The directives can be used max-age, s-max-age, private/public, no-cache, no-store, must-revalidate, proxy-revalidate |
| **previousID** | string | string | If this is a next message in a communication sequence, the message that triggered this one. For instance, message ‘aa’ created this message ‘bb’ the PreviousID equals 'aa’. If this is the first message, the value is null |
| **payloadSignature** | string | string | Optional payload signature for cases where nonrepudiation is required. |

## Update booking Sample Response Body

{

 "bookingID": "string",

 "bookingSource": "string",

 "bookingReference": "string",

 "bookingType": "string",

 "bookerCode": "string",

 "freightPayerCode": "string",

 "senderCode": "string",

 "railOrigin": "string",

 "exCTorSiding": "string",

 "doorPickupRequired": false,

 "senderAddress": {

 "senderAddressName": "string",

 "senderAddressSuburb": "string",

 "senderAddressCity": "string"

 },

 "receiverCode": "string",

 "railDestination": "string",

 "toCTorSiding": "string",

 "doorDropoffRequired": false,

 "receiverAddress": {

 "receiverAddressName": "string",

 "receiverAddressSuburb": "string",

 "receiverAddressCity": "string"

 },

 "freightAvailable": "string",

 "freightRequiredAtDestination": "string",

 "scheduleBooking": false,

 "scheduleTo": "string",

 "scheduleWaitlistOK": false,

 "scheduleFirstOnly": false,

 "customerReference": "string",

 "releaseNumber": "string",

 "commodity": "string",

 "equipmentCategory": "string",

 "doorPickUp": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "doorDropOff": [

 {

 "moveType": "string",

 "empty": false,

 "pickUpDateTime": "string",

 "deliveryDateTime": "string"

 }

 ],

 "equipmentAttributes": [

 {

 "equipmentGroup": "string",

 "equipmentClass": "string",

 "quantity": 0,

 "netWeight": 0,

 "reefer": false,

 "hazardous": false,

 "kiwiRailSupplyIndicator": true,

 "orderNumber": "string",

 "equipmentID": "string",

 "underBond": false,

 "reeferAttributes": {

 "setTemperature": 0,

 "allowedTimeOffPower": 0,

 "requiresGenerator": false,

 "KRSupply": true

 },

 "hazAttributes": [

 {

 "hazClass": "string",

 "un": "string"

 }

 ],

 "kiwiRailSupplyAttributes": {

 "supplyDateTime": "string"

 }

 }

 ],

 "imexAttributes": {

 "ship": "string",

 "shipOperator": "string",

 "shipCutOffDateTime": "string",

 "voyageNumber": "string",

 "nzPort": "string",

 "customsClearanceNumber": "string",

 "overseasDestination": "string"

 },

 "bookerEmail": "string",

 "senderEmail": "string",

 "receiverEmail": "string",

 "modificationReason": "string",

 "errors": [

 {

 "code": 0,

 "description": "string"

 }

 ],

 "\_links": [

 {

 "rel": "string",

 "href": "string"

 }

 ]

}

## Update Booking Response Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingID | mandatory | string | A unique ID generated by CTMS for the updated booking. This may not match the booking ID in the request. |
| bookingSource | optional | string | Identifies the channel by which the booking was received, for example, email, phone, EDI. |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identifies this booking request.  |
| bookingType | optional | string | The type of booking to be created, standard, repeat master (recurring booking), cash sale, service recovery. The default for EDI bookings will be ‘Standard |
| bookerCode | optional | string | The Customer Address Code for the party requesting the booking.  |
| freightPayerCode | mandatory | string | The Customer Address Code for the Freight Payer, that is the customer address (and associated customer account) that will be invoiced for the booking.  |
| senderCode | optional | string | The Customer Address Code for the address from which the freight is originating. If this is not supplied then Sender Address details must be supplied in order to identify the Sender Code. |
| railOrigin | optional | string | The Location Code for the 'on rail' location from where the freight will travel. If not provided this will be derived from the Sender Code using the following rules. If the Sender Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Sender Address is not associated to a Siding then this will be the CT Site linked to the Sender Address. |
| exCTorSiding | optional | string | Determines whether the freight will travel from a Siding or a CT Site. If not supplied then this will default using the same rules as for railOrigin. If provided the Customer’s Sender Address must be associated to a siding in order to place an ex siding booking. Any sender address can request an ex CT booking. |
| doorPickupRequired | optional | boolean | For ex CT bookings defines whether the customer requires their freight to be collected from their sender address and transported to the CT site. Where this is required, door pickup details must also be provided to create the required transport orders. |
| senderAddress | optional |  | Optionally the customer can supply address details for the Sender Code to be derived from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| senderAddressName | mandatory | string | The Customer Address Name that can be used to derive the Sender Code.  |
| senderAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Sender Code.  |
| senderAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Sender Code.  |
| receiverCode | optional | string | The Customer Address Code for the address to which the freight is destined. If this is not supplied then Receiver Address details must be supplied in order to identify the Receiver Code. |
| railDestination | optional | string | The Location Code for the 'on rail' location to where the freight will travel. If not provided this will be derived from the Receiver Code using the following rules. If the Receiver Address is associated to a Siding, this will be the 'on rail' location linked to the Siding. If the Receiver Address is not associated to a Siding then this will be the CT Site linked to the Receiver Address City. |
| toCTorSiding | optional | string | Determines whether the freight will travel to a Siding or a CT Site. If not supplied then this will default using the same rules as for railDestination. If provided the Customers Receiver Address must be associated to a siding in order to place a to siding booking. Any receiver address can request a to CT booking. |
| doorDropoffRequired | optional | boolean | For to CT bookings defines whether the customer requires their freight to be collected from the CT Site and delivered to their receiver address. Where this is required, door dropoff details must also be provided to create the required transport orders. |
| receiverAddress | optional |  | Optionally the customer can supply address details to derive the Receiver Code from the Address. The Address Name and City must be supplied, Suburb is optional, in order to return a Customer Address Code. |
| receiverAddressName | mandatory | string | The Customer Address Name that can be used to derive the Receiver Code.  |
| receiverAddressSuburb | optional | string | The Customer Address Suburb that can be used to derive the Receiver Code.  |
| receiverAddressCity | mandatory | string | The Customer Address Town/City that can be used to derive the Receiver Code.  |
| freightAvailable | mandatory | string | The date and time when the freight will be available to travel. For an exCT booking this is the date and time that the freight will be at the CT site. For siding freight this is the time the freight will be loaded and ready to travel.  |
| freightRequiredAtDestination | mandatory | string | The date and time when the customer requires the freight to reach destination. For a toCT booking this is the date and time that the freight will be required to reach the CT site. For toSiding bookings this should be when the wagons are required to be placed at the siding. |
| scheduleBooking | optional | boolean | true/false indicates whether the booking needs to be scheduled or left as an unscheduled booking. |
| scheduleTo | optional | string | freightAvailable' or 'freightRequiredAtDestination' indicates whether the booking needs to be scheduled to when the freight is available to travel or to when the freight is required at destination. Typically inbound empty supply will be scheduled to the service that gets the equipment to destination by when it is required at destination whereas outbound loads will be booked to the first service departing after the freight is available to travel. |
| scheduleWaitlistOK | optional | boolean | true/false indicates whether it is ok for the booking to be waitlisted if there is no available capacity and the service allows waitlisting. This option will only be used where the customer is set up to allow 'waitlisting' |
| scheduleFirstOnly | optional | boolean | true/false indicates whether to only allow scheduling against the 'first' service that satisfies the customer requirement. Where 'true' it will not search for services with available capacity but rather attempt to book to the 'first' service that meets the requirement. If no capacity is available it will check whether waitlisting is allowed. If it is, it will waitlist, else it will reject the booking with 'No Capacity Available'. |
| customerReference | mandatory  | string | The customer reference for the booking, typically this will be the Customer Purchase Order Number. |
| releaseNumber | optional | string | The Shipping line booking reference which is used to release empty container from the container park and supplied to the Port when delivering freight to be shipped.  |
| commodity | mandatory | string | The commodity code for the freight to be moved in the booking. |
| equipmentCategory | optional | string | Wagon/Container indicates the type of equipment being booked. |
| doorPickUp | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at origin |
| moveType | mandatory | string | origin |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | mandatory | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container. |
| deliveryDateTime | optional | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| doorDropOff | optional |  | Indicates whether any transport orders are to be created to transport the empty/loaded container at destination |
| moveType | mandatory | string | destination |
| empty | mandatory | boolean | true/false indicates whether this is an empty or loaded container |
| pickUpDateTime | optional | string | The date and time that the container is to be picked up, either at the customer site for a loaded container, or at the container supply site for an empty container |
| deliveryDateTime | optional | string | The date and time that the container is to be picked up, either at the KR CT Site for a loaded container, or at the customer site for an empty container. |
| equipmentAttributes | mandatory |  | At least one equipment line must exist for a booking |
| equipmentGroup | optional | string | The KiwiRail Equipment Group code of the equipment to be booked. Where the equipment is not KiwiRail supply the customer can specify the Equipment Group and the Equipment Class will default. If the Equipment class is provided the Equipment Group will default from the Class. This must be one of the valid values - refer 'EquipmentGroup' |
| equipmentClass | optional | string | The KiwiRail Equipment Class code of the equipment to be booked. This must be provided where the equipment is to be supplied by KiwiRail else it may be defaulted from the Equipment Group. This must be one of the valid values - refer 'EquipmentClass' |
| quantity | optional | integer | The quantity of this group, class and weight of equipment and commodity to be booked |
| netWeight | mandatory | integer | The net weight of the freight being booked. This must be supplied but may be 0 where the commodity is empty. |
| reefer | optional | boolean | true/false indicates whether it is reefer commodity being booked. Where this is 'true' reefer attributes must be supplied for the equipment. |
| hazardous | optional | boolean | true/false indicates whether it is hazardous commodity being booked. Where this is 'true' haz attributes may be supplied for the equipment. |
| kiwiRailSupplyIndicator | optional | boolean | true/false indicates whether the equipment is to be supplied by KiwiRail. For wagon bookings this will always be 'true' . |
| orderNumber | optional | string | A customer supplied order number for this equipment  |
| equipmentID | optional | string | The identifier for the equipment line. This is the container or wagon ID to be moved. |
| underBond | optional | ***boolean*** | Indicates whether the container is under bond. |
| reeferAttributes | optional |  | Where the equipment is 'reefer' the following information must be supplied |
| setTemperature | mandatory | number | The temperature that the container is to be set at. |
| allowedTimeOffPower | optional | number | The maximum amount of time that the container is allowed to be off power. This is cumulative and is not reset when the container is plugged in. |
| requiresGenerator | mandatory | boolean | true/false indicates whether the freight being transported is 'refrigerated' commodity which requires a generator (so that it does not exceed the maximum time off power) |
| KRSupply | optional | boolean | true/false where a generator is required this indicates whether the generator is to be supplied by KiwiRail.  |
| hazAttributes | optional |  | Where the equipment is 'hazardous' the following information may be supplied. Only one haz class and UN code can be supplied for a booking request. |
| hazClass | mandatory | string | The haz class of the commodity |
| un | mandatory | string | The haz UN code of the commodity |
| kiwiRailSupplyAttributes | optional |  |  |
| supplyDateTime | mandatory | string | Where KiwiRail is to supply the equipment this is the date and time that it is required to be supplied. This is required where the kiwiRailSupplyIndicator is true. |
| scheduleDetails | optional |  |  |
| serviceCutOffDateTime | mandatory | string | This is the date and time that the equipment needs to be checked in at the CT site for ex CT bookings, or manifest received by for ex siging bookings in order for it to travel on the sceduled service |
| arrivalAtDestinationDateTime | mandatory | string | The time the equipment is scheduled to arrive at the destination Rail Terminal |
| expectedAtDestinationDateTime | optional | string | The time the equipment is scheduled to be released to the customer at destination |
| waitlisted | mandatory | string | true/false indicates whether the equipment has been waitlisted or conformed on the Service |
| imexAttributes | optional |  | Where the booking is for Imports or Exports the shipping details can be captured  |
| ship | optional | string | The ship that the freight is on (for inbound) or booked to (outbound) |
| shipOperator | optional | string | The shipping line that operates the ship |
| shipCutOffDateTime | optional | string | For export, the time that the freight must reach the Port  |
| voyageNumber | optional | string | The voyage number for the ship sailing |
| nzPort | optional | string | The NZ Port that the freight is inbound to, or outbound from |
| customsClearanceNumber | optional | string | For imports, the NZ customs clearance number for clearing the goods from the Port |
| overseasDestination | optional | string | For exports, the overseas Port to which the freight is destined  |
| bookerEmail | optional | string | If the booker requires a booking confirmation to be emailed then they must supply an email address to send this to |
| senderEmail | optional | string | If the sender requires a booking confirmation to be emailed then they must supply an email address to send this to |
| recieverEmail | optional | string | If the receiver requires a booking confirmation to be emailed then they must supply an email address to send this to |
| modificationReason | mandatory | string | The reason the booking is to be modified |

## Update Booking Response Header

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** | **Value** | **Data Type** | **Comment** |
| **version** | 1 | integer | The version of this message format. |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | string | A unique identifier for a set of messages belonging to each other. Can be null if there is no transaction ID attached to this message. Identifier is defined as <app>\_<initiator>\_<timestamp>\_UUID for example |
| **messageID** |  | string | Unique identifier for this message. This is similar to the Mule ESB MessageID who would use this id internally. The message ID should only exist for the message between two systems, so a stream over three components will use two messageIDs one for component A to B and one from B to C. This value cannot be set by the caller. |
| **currentSystem** | Fonterra Bookings | string | System that generated the message |
| **userInitiatingRequest** | email | string | User requesting/submitting information Login ID  |
| **creationTimestamp** | 2017-11-07 13:13:13:123 NZDT | string | Date of creation of the message in YYYY-MM-DD hh:mm:ss:ms in NZDT |
| **auditCategory** | string | string | Holds a string that can be used to collect log information over all services. |
| **payloadEncrypted** | Boolean | boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | string | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass-through |
| **debug** | 0 | integer | Logs all requests if set in debug mode 0 - Don't debug 1 - Debug mode |
| **retryNumber** | 0 | integer | Attempts made by calling service to read content |
| **Cache-Control** | no-cache | string | Recommended caching time for services to expire (When data should be refreshed) (When data should be refreshed) The directives can be used max-age, s-max-age, private/public, no-cache, no-store, must-revalidate, proxy-revalidate |

# Cancel a Created Booking

## Cancel Booking Endpoint

|  |  |  |
| --- | --- | --- |
| Production URI | Method | Description |
| https://api.kiwirail.co.nz/V1/bookings/<bookingid> | DELETE | Cancel unscheduled booking |

|  |  |  |
| --- | --- | --- |
| TEST URI | Method | Description |
| https://api-uat.kiwirail.co.nz:444/V1/bookings/<bookingid> | DELETE | Cancel unscheduled booking |

## Cancel Booking Body Request

{

 "bookingReference": "string",

 "cancellationReason": "string"

}

## Cancel Booking Request Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identifies the booking to cancel. This field along with bookingID is used to identify the booking. |
| cancellationReason | optional | string | The reason that the booking is cancelled. |

## Cancel Booking Request Headers

|  |  |  |
| --- | --- | --- |
| **Header** | **Value** | **Comment** |
| **bookingID** *\*required* | String | The booking ID of the booking to update |
| **version** *\*required* | 1 | API version |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | Identifies a group of messages |
| **currentSystem** | Fonterra Bookings | Name of originating system |
| **userInitiatingRequest** | email | Name of any logged in user |
| **creationTimestamp** *\*required* | 2017-11-07 13:13:13:123 NZDT | When the message was created |
| **auditCategory** | string | Holds a string that can be used to collect log information over all services. |
| **payloadEncrypted** | Boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass through |
| **debug** | 0 | If 0 then do not log in debug mode, if 1 then log. |
| **retryNumber** | 0 | How many retries have been made |
| **Cache-Control** | no-cache | See https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cache-Control |
| **previousID** | string | If this is a next message in a communication sequence, the message that triggered this one. For instance message 'aa' created this message 'bb' the PreviousID equals 'aa'. If this is the first message, the value is null |
| **payloadSignature** | string | Optional payload signature for cases where nonrepudiation is required. |

## Cancel Booking Sample Response Body

{

 "bookingID": "string",

 "bookingReference": "string",

 "cancellationReason": "string"

}

## Cancel Booking Response Data Definition

|  |  |  |  |
| --- | --- | --- | --- |
| Field | Required? | Data Type | Description |
| bookingID | mandatory | string | The KiwiRail unique ID that identified the CTMS to cancel. This field along with bookingReference was used to identify the booking. |
| bookingReference | mandatory | string | A customer supplied reference that uniquely identified the booking to cancel. This field along with bookingID was used to identify the booking. |
| cancellationReason | mandatory | string | The reason that the booking is cancelled. |

## Cancel Booking Response Headers (HTTP 200)

|  |  |  |
| --- | --- | --- |
| **Header** | **Value** | **Comment** |
| **version** | 1 | API version |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | Identifies a group of messages |
| **messageID** | string | Message ID should only exist for the message between two systems, so a stream over three components will use two messageIDs one for component A to B and one from B to C. This value cannot be set by the caller. |
| **currentSystem** | Fonterra Bookings | Name of originating system |
| **userInitiatingRequest** | email | Name of any logged in user |
| **creationTimestamp** | 2017-11-07 13:13:13:123 NZDT | When the message was created |
| **auditCategory** | string | Holds a string that can be used to collect log information over all services.  |
| **payloadEncrypted** | Boolean | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | string | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass-through |
| **debug** | 0 | If 0 then do not log in debug mode, if 1 then log. |
| **retryNumber** | 0 | How many retries have been made |
| **Cache-Control** | no-cache | See https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cache-Control |

# Error Response Message

## Sample Error Response Message

{

 "errors": [

 {

 "code": "123"

"description": "This booking 000ARH4104 is not currently valid. Field, Type, Message: Origin, 1, Location 'MTARA' does not have siding 'SLMRY' (customer siding) as a child siding.",

 }

 ],

 "links": [

 {

 "rel": "help",

 "href": "[http://example.com](http://example.com/)"

 }

 ]

}

## Error Response Headers (HTTP:400,401,403,429,500)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Value** | **Data Type** | **Comment** |
| **version** | 1 | integer | The version of this message format. |
| **transactionID** | FONTERRA\_20171107131313\_3dc7ffca-fd28-49ba-9636-1ff66bfe5341 | string | An unique identifier for a set of messages belonging to each other. Can be null if there is no transaction ID attached to this message. Identifier is defined as <app>\_<initiator>\_<timestamp>\_UUID for example |
| **messageID** | string | string | Unique identifier for this message. This is similar to the Mule ESB MessageID who would use this id internally. The message ID should only exist for the message between two systems, so a stream over three components will use two messageIDs one for component A to B and one from B to C. This value cannot be set by the caller. |
| **currentSystem** |  EdiBooking | string | System that generated the message |
| **userInitiatingRequest** | email | string | User requesting/submitting information Login ID  |
| **creationTimestamp** | 2017-11-07 13:13:13:123 NZDT | string | Date of creation of the message in YYYY-MM-DD hh:mm:ss:ms in NZDT |
| **auditCategory** | edi.booking | string | Holds a string that can be used to collect log information over all services |
| **payloadEncrypted** | false | **boolean** | If true the payload is encrypted, when false it is not. This is set for the content encryption(like GPG), not the connection (like SSL) |
| **payloadEncoding** | UTF-8 | **string** | When the payload is text, it should contain the text encoding (Like 'UTF-8'), if binary, the encoding is binary When the payload is encrypted, the encoding should be the encoding of the unencrypted payload. If the payload type is not known, or not disclosed, the value is pass-through |
| **debug** | 0 | **integer**  | Logs all requests if set in debug mode 0 - Don't debug 1 - Debug mode |
| **retryNumber** | 0 | **integer** | Attempts made by calling service to read content |
| **Cache-Control** | no-cache | **string** | Recommended caching time for services to expire (When data should be refreshed.) (When data should be refreshed.) The directives can be used max-age, s-max-age, private/public, no-cache, no-store, must-revalidate, proxy-revalidate |