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Invoice API

Software specification

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Changes since v1.0

Where	Change
section 5.1	Schedule number format restrictions relaxed; you can use your own schedule number

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1 Invoice API : overview

This document specifies the API for submitting a schedule of invoices, for processing by the eChannel gateway. The endpoint is:

- `POST/claims/vendors/invoice`

(insert `'/https://<environment>/<version>'`, as required, between `'POST'` and the rest of the URI).

The specification `'Query invoices and payments'` describes how vendors can find information about submitted invoices, and payments made.

This document specifies:

- fields used only in this API
- variations and extensions to the core specifications, overriding the common validations
- user interface suggestions for fields where this is not given in the core specification.

For all other details, please refer to the Core specification.

In sections 3.3-6, the `'UI suggestion'` value shows what a user might think the field is intended for, and what content to expect. It's not a required standard — the user experience is up to you.

The API specifies the following dates, with the following limits.

Earlier limit	Date of	Later limit	Section
1900-01-01	declaration	current date	5.2
1972-01-01	accident	declaration date	6.1.3
2000-01-01	service	2099-12-31	6.2.2
1900-01-01	patient's birth	accident date if present, otherwise the current date	6.4.5

Table 1 Sequence of dates

1.1 Payload structure

The API payload comprises the following:

Structure	includes	Instances allowed	See section
Standard header	(no content)	one	2
Message	source and information	one	3
Vendor		one	3.3
Schedule header	includes the contract ID	one	5
Schedule line	(that is, 'invoice')	1-200	6
	line number, claim ID, accident date	one per line	6.1
	line details: service date, PO number, billing	one set per line	6.2
	service item codes	1-5 per line	6.2.1
	provider	one per line	6.3
	patient	one per line	6.4
	line details: invoice comment, invoice amount	one set per line	6.6
Schedule trailer	number of lines, invoice total	one	7
Standard trailer	End of run description	one	8
Message control		one	9

Table 2 Invoice request overview

1.2 Validate and map the request

The rest of this document describes the validation rules and user-interface suggestions specific to this API.

See the Core specification for all details not specified here: section 3, Standard behaviour, and section 4, Common input for submissions.

2 ACC standard header

The API creates this required element.

3 Message source and information

3.1 Message source

3.1.1 PMS software name

API JSON	invoice/pmsSoftwareName
Required?	Yes
Note	Core

3.1.2 PMS software version

API JSON	invoice/pmsSoftwareVersion
Required?	Yes
Note	Core

The API sets the document date and time, and the document gateway (value 'A' since the XML schema allows only one character).

3.2 Document data

The API sets the following values:

- document date: the current date
- document time: midnight
- application name and version of the document source: the pmsSoftwareName and pmsSoftwareVersion values provided, concatenated with a space separator, and truncated to 30 characters if the result is too long.

3.3 ACC document gateway

The API sets this value to 'A'.

4 Vendor

4.1 Vendor name

API JSON	invoice/vendor/vendorName
UI suggestion	Vendor name
Required?	Yes
Data type	string
Limit	1-60 characters
Note	May contain spaces

4.2 Vendor identifier

API JSON	invoice/vendor/vendorId
Required?	Yes
Data type	string
Limit	6-12 alphanumeric characters, also allowing forward-slash '/'
Note	One vendor per schedule. Core

4.3 Vendor's GST number

API JSON	invoice/vendor/vendorGst	
UI suggestion	Vendor's GST number	
Required?	Optional	
Data type	string	
Format	8 or 9 digits	
Note	<p>GST numbers are IRD numbers. Inland Revenue format for IRD numbers: 8 or 9 digits, consisting of a seven- or eight-digit base number and one trailing check digit.</p> <p>http://www.oecd.org/tax/automatic-exchange/crs-implementation-and-assistance/tax-identification-numbers/New%20Zealand-TIN.pdf</p> <p>The API changes the all-digit input into this form: 012-345-678 or 012345678, 123-456-789 or 123456789</p>	
Error condition	Code	Message
Invalid format	400	This field can only contain numbers.

4.4 Vendor's phone number

API JSON	invoice/vendor/vendorPhone	
UI suggestion	Vendor's phone number	
Required?	Optional	
Data type	string	
Limit	7-15 characters	
Note	<p>eSchedule: 'only used for visual validation purposes'</p> <p>The API only validates the length of the value.</p>	

5 Schedule header

5.1 Schedule number

API JSON	invoice/invoiceNumber
Required?	Optional
Data type	string
Limit	10 characters
Format	<ul style="list-style-type: none">• If supplied by the API, 'APG' followed by 7 alphanumeric characters, with all alphabetic characters in uppercase• otherwise: 10 alphanumeric characters, not starting with W;<ul style="list-style-type: none">– after the first character, space, hyphen, underscore, forward slash, and backslash are also allowed.
Note	<p>The schedule number cannot start with W.</p> <p>The schedule number and vendor ID combination must be unique.</p> <p>The API makes all alphabetic characters uppercase, to avoid duplicate IDs in MFP.</p>
Error condition	Code Message
invalid format	400 This field must start with a number or a letter (but not 'W'). Each remaining character (up to 10 total) can be a letter, digit, space, hyphen, or underscore.

5.2 Declaration date

API JSON	invoice/declaration/declarationDate
Required?	Yes
Note	<p>Inland Revenue requires the date the invoice was issued.</p> <p>Core</p>

5.3 Whether GST is included in the invoice lines

As in the legacy system, this is automatically set to true.

5.4 Schedule comment

API JSON	invoice/scheduleComment
UI suggestion	Schedule comment
Required?	Optional
Data type	string
Limit	0-255 characters
Note	This comment refers to the whole schedule.

5.5 ACC contract identifier

API JSON	invoice/contractId
UI suggestion	Contract ID
Required?	Optional; a schedule can have no more than one unique contractID
Data type	string
Limit	1-8 alphanumeric characters, also allowing forward-slash '/'
Note	<p>examples: '20 HTR015' (8 characters after removing the space); '87/22'</p> <p>The API validates the format and uniqueness, but not the existence of the ID.</p> <p>When a contract ID is provided, the API uses this value to populate the contract ID in every schedule line.</p> <p>Use a new schedule for each contract ID.</p>

Error condition	Code	Message
Invalid format	400	This field can only contain letters, numbers, and '/', no more than 8 characters in all.

6 Schedule line

A schedule contains 1-200 claims, each one a schedule line (that is, an invoice) that lists:

line number, claim ID, accident date	section 6.1
service codes (1-5), service date, PO number	section 6.2
provider details	section 6.3
patient details	section 6.4
billing method and units	section 6.5
invoice comment and amount	section 6.6

Table 3 Schedule line structure

6.1 Line number, claim ID, accident date

6.1.1 Schedule line number

The API sets each line number.

6.1.2 Medical fees number (claim identifier)

API JSON	invoice/lines/claimId
Required?	Yes
Note	Inland Revenue requires a claim number or ACC45 number, or both. Core specification section 4.4.1

6.1.3 Accident date

API JSON	invoice/lines/accidentDate
Required?	Optional
Note	Core

6.2 Line details

6.2.1 Service item codes

A schedule line includes a list of 1-5 service item codes, for instance for GP and radiology services.

API JSON	invoice/lines/lineDetails/serviceCode
UI suggestion	Service code
Required?	One required, up to four more optional
Data type	list
Limit	1-5 list items
Format	1-10 alphanumeric characters, for each list element included
Note	<p>Inland Revenue requires the correct service codes.</p> <p>The API validates the format of the service code, and the maximum number allowed. It makes any alphabetic characters uppercase, and removes leading zeroes.</p> <p>The legacy system verifies the existence of each code, and whether codes are consistent and are valid for this invoice.</p>

Error condition	Code	Message
Empty list	400	You must specify at least 1 service item code, and no more than 5, for each schedule line.
A service code is repeated	400	Duplicate found. Each service item code must be unique.
More than five list elements provided	400	You must specify at least 1 service item code, and no more than 5, for each schedule line.
A list element is not alphanumeric	400	Each list element must have letters and numbers only.

6.2.2 Service date

API JSON	invoice/lines/lineDetails/serviceDate		
UI suggestion	Service date		
Required?	Yes		
Data type	string date		
Format	YYYY-MM-DD		
Note			
Error condition	Code	Message	
Date is earlier than 2000-01-01	400	The date cannot be before 2000-01-01	
Date is later than 2099-12-31	400	The service date cannot be later than 2099-12-31.	

6.2.3 ACC contract identifier

This is where the API copies the value from section 5.5.

6.2.4 Purchase order number (purchase approval number)

API JSON	invoice/lines/lineDetails/purchaseOrderNumber		
UI suggestion	Purchase order number		
Required?	Optional		
Data type	string		
Limit	6-7 digits		
Note	Enter the purchase order number for the service being claimed. The API stores this value in the schedule line comment, section 6.6.1.		
Error condition	Code	Message	
invalid format	400	This field can only contain numbers.	
Value has fewer than 6 or more than 7 digits	400	This value must be 6 or 7 digits long.	

6.3 Provider details and facility code

6.3.1 Provider identifier

API JSON	invoice/lines/provider/providerId
Required?	Optional
Note	Core

6.3.2 Provider's given name

API JSON	invoice/lines/provider/firstName
Required?	Optional
Note	Core

6.3.3 Provider's middle name or initials

API JSON	invoice/lines/provider/middleName
Required?	Optional
Note	Core

6.3.4 Provider's family name

API JSON	invoice/lines/provider/surname
Required?	Optional
Note	Core

6.3.5 Facility code

API JSON	invoice/lines/provider/facilityID
Required?	Optional
Note	Core

6.4 Patient details

6.4.1 Claimant's NHI number

API JSON	invoice/lines/patient/nhi
Required?	Optional
Note	Core

6.4.2 Claimant's given name

API JSON	invoice/lines/patient/firstName
Required?	Yes
Note	Inland Revenue requires the claimant's full name. Core

6.4.3 Claimant's middle names or initials

API JSON	invoice/lines/patient/middleName
Required?	Optional
Note	Core

6.4.4 Claimant's family name

API JSON	invoice/lines/patient/surname
Required?	Yes
Note	The surname of the claimant, who has suffered a personal injury arising from at least one accident that has been registered with ACC. Inland Revenue requires the claimant's full name. Core

6.4.5 Claimant's date of birth

API JSON	invoice/lines/patient/dateOfBirth
Required?	Optional
Note	Enter this date if possible; otherwise the API will use 1800-01-01. Core

6.5 Billing method and details

6.5.1 Billing method

API JSON	invoice/lines/lineDetails/billing/billingMethod	
UI suggestion	Billing method	
Required?	Yes	
Data type	string	
Format	enum (distance, units, time, flat fee)	
Note	<p>Inland Revenue requires the quantity or volume of the goods and services supplied. When 'flat fee' is selected, the API automatically sets units to 1.</p> <p>Note that MFP ensures there is a single billing method, even with multiple service codes.</p>	
Error condition	Code	Message
Value not in the enum list	400	This value must be one of [distance, units, time, flat fee].

6.5.2 Hours claimed

API JSON	invoice/lines/lineDetails/billing/hoursClaimed	
UI suggestion	Hours claimed	
Required?	Required if billingMethod is time; otherwise not permitted	
Data type	integer	
Range	00-99	
Note	<p>Hours, minutes, or both required for time-billed services (either can be 00). Hours are generally less than 24.</p>	
Error condition	Code	Message
billingMethod 'time' is selected, but this value is not supplied	400	This value is required when the billing method is 'time'.
Value is less than 0 or greater than 99	400	This value must be between 00 and 99, inclusive.
Hours and minutes are both set to 00	400	When the billing method is 'time', either hours or minutes (or both) must be greater than 0.
billingMethod 'time' is not selected, but this field is present	400	This field is only allowed when the billing method is 'time'.

6.5.3 Minutes claimed

API JSON	invoice/lines/lineDetails/billing/minutesClaimed	
UI suggestion	Minutes claimed	
Required?	Required if <code>billingMethod</code> is <code>time</code> ; otherwise not permitted	
Data type	integer	
Range	00-59	
Note	Hours, minutes, or both required for time-billed services (either can be 00)	
Error condition	Code	Message
<code>billingMethod</code> 'time' is selected, but this value is not supplied	400	This value is required when the billing method is 'time'.
Value is less than 0 or greater than 59	400	This value must be between 00 and 59 inclusive.
Hours and minutes are both set to 00	400	When the billing method is 'time', either hours or minutes (or both) must be greater than 0.
<code>billingMethod</code> 'time' is not selected, but this field is present	400	This field is only allowed when the billing method is 'time'.

6.5.4 Distance claimed

API JSON	invoice/lines/lineDetails/billing/travelClaimed	
UI suggestion	Distance claimed	
Required?	Required if <code>billingMethod</code> is 'distance'; otherwise not permitted	
Data type	integer	
Range	1-99,999	
Note	Required for travel-billed services. Must be whole kilometres. An input value like 101,000.12 will meet two error conditions and cause two error messages.	
Error condition	Code	Message
<code>billingMethod</code> 'distance' is selected, but this value is not supplied	400	This value is required when the billing method is 'distance'.
Value is less than 0 or greater than 99,999	400	This value must be a whole number greater than 0 and less than 100,000.
<code>billingMethod</code> 'distance' is not selected, but this field is present	400	This field is only allowed when the billing method is 'distance'.

6.5.5 Units claimed

API JSON	invoice/lines/lineDetails/billing/unitsClaimed	
UI suggestion	Units claimed	
Required?	Required if billingMethod is 'units'; otherwise not permitted	
Data type	decimal number	
Format	999.99	
Range	0.01—999.99	
Note	<p>Required for unitary services; normally a whole number. (For 'flat fee', the API sets the value of unitsClaimed to '1'.) An input value like 1,001.123 will meet two error conditions and cause two error messages.</p>	
Error condition	Code	Message
billingMethod 'units' is selected, but this value is not supplied	400	This value is required when the billing method is 'units'.
Invalid format	400	This value must be a decimal number.
Value has more than 2 decimal places, or is outside the range	400	This value must be a number with two decimal places, between 0 and a thousand. 0.01 and 999.99 are valid.
billingMethod 'units' is not selected, but this field is present	400	This field is only allowed when the billing method is 'units'.

6.5.6 Flat fee claimed

If billing method 'flat fee' is selected (section 6.5.1), the API sets the value of units to '1'; no other billing details are needed.

6.6 Schedule line comment and amount

6.6.1 Schedule line comment

API JSON	invoice/lines/lineDetails/invoiceComment	
UI suggestion	Schedule line comment	
Required?	Optional	
Data type	string	
Limit	1-255 characters, including a key-value pair for the purchase order number, if there is one	
Note	<p>If you entered a purchase order number (section 6.2.4), the API automatically puts it into this comment field, like this:</p> <p>PO number = 1234567, Comment = Your comment goes here.</p>	
Error condition	Code	Message
This value is longer than 255 characters	400	This field only allows 255 characters in total. If there is a purchase order number, the actual comment can be no longer than 224 characters.

6.6.2 Amount claimed for this schedule line

API JSON	invoice/lines/lineDetails/invoiceAmount	
UI suggestion	Amount claimed	
Required?	Yes	
Data type	decimal	
Format	999,999.99	
Range	0.01—999,999.99	
Note	<p>Must be positive (credits not allowed). Example: 123456.12</p> <p>Inland Revenue requires the amount (excluding GST).</p> <p>An input value like 1,000,001.123 will meet two error conditions and cause two error messages.</p>	
Error condition	Code	Message
Invalid format	400	This value must be a decimal number.
Value has more than 2 decimal places, or is outside the range.	400	This value must be a number with two decimal places, between 0 and a million. Amounts from 0.01 to 999999.9]9 are valid.

7 Schedule trailer

7.1 Number of lines

API JSON	-
Required?	No; derived by the API
Data type	positive integer
Range	1-200
Note	
Error condition	Code Message
Number of claimIDs is < 1	400 You must include at least one claim.
Number of claimIDs is > 200	400 You can't include more than 200 claims in a single schedule.

7.2 Claimed amount

API JSON	
Required?	No; derived by the API
Data type	positive decimal number
Format	2 decimal places
Range	0.01 – 999,999,999.99
Note	The sum of the claims in each invoice line, which is the total amount invoiced to ACC. Legacy validation: greater than 0 and less than 100 billion Inland Revenue requires the total amount payable with a GST statement.
Error condition	Code Message
Total amount less than 0 or greater than 999,999,999.99	400 The total claimed amount must be between 0.00 and 999,999,999.99.

8 Standard trailer

The API sets the end-of-run time to the current date and time, and the end-of-run description to 'End of job'.

9 Message control

The API stores the name of the API service, the vendor ID, and schedule number.