Accident Compensation Commission

Claim API

Software specification

Version 1.0 Released 03 October 2017

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1 Claim API: Overview

This API enables a vendor to submit a claim request to be processed by the eChannel gateway. The API only submits valid, authorised requests; it returns validation errors to the submitting application.

The legacy system carries out all the usual validation, including verifying codes with the relevant code table, and returns an error message if appropriate.

A valid claim request is passed on to Eos, which returns the final result of the request to the submitting application.

Vendors can also retrieve a list of claims submitted, query the status of a claim, and retrieve details of a claim, according to authorisation. These API endpoints are described separately.

Terms and abbreviations used in this document:

Terms	Description
ACC45	The ACC injury claim form
Facility	In the schemas, 'practice' and 'organisation' both refer to the health provider's employer, also called a facility. An organisation may have more than one facility.
	A facility has an HPI-FAC identifier, like FB1032.
Organisation	In the schemas, and in LDAP and other sources, 'organisation' refers to the employer of a health provider, or to the umbrella group including that employer (for instance, Southern Cross).
	An organisation has an HPI-ORG identifier, like GA1234, in the Health Practitioner Index.
Provider	The XML schema uses 'provider' to mean a health professional such as a doctor or physiotherapist, with an HPI-CPN identifier like 12ABCD.
Vendor	The XML schema uses 'vendor', 'organisation', and 'facility' to refer to a health 'facility', such as a medical practice.
	(In this case, vendor does not refer to a software vendor, the supplier of a software system used by medical practices.)

Table 1 Terms and abbreviations

1.1 Standard information

When the API returns an error message that relates to a specific field, the name of that field is given before the error, for instance:

```
declarationDate.   The date format is invalid;  use YYYY-MM-DD.
```

1.1.1 Generic error messages

The following validation error messages are returned whenever they apply:

Condition	Error message
The field is mandatory ('required'), and no value is present	This field is required.
The value submitted was longer than the maximum length allowed for the field	This field cannot be more than <maximum length> characters.

Table 2 Standard error messages

As noted above, the current release doesn't verify any codes. Code-table error conditions are shown in section 3 in blue text, marked with *. **Legacy error messages** (not shown) are returned.

2 Authenticate the claim request

Apigee, not the API, authenticates the request.

If the sender does not have a valid digital certificate, Apigee returns an error message with code 401, 'The provider's digital certificate is not provisioned to use the vendor ID supplied.'

3 Validate and map the request

The API validates each field of an authenticated claim request. If the request fails validation, the API doesn't authorise it, but returns all relevant error messages to the sender.

This section describes the validation rules.

The API payload comprises the following structures:

Structure	includes	Instances allowed	See section
Claim		one	3.1
Vendor		one	3.2
Provider		one	3.3
	provider's address	one	3.3.2
Patient		one	3.4
	patient's address	one	3.4.3
Employment		one	3.5
	employer's name and address	one	3.5.2
Injury		one	3.6
	injury diagnosis info	1-10	3.6.4
Work capacity		one	3.7
	time off work or on selected work	0-1 of each	3.7.2
Referral		0-5	3.8

Table 3 Claim request overview

3.1 Claim

3.1.1 Claim form number

API JSON	`claimNumber`		
Required?	Yes		
Data type	string		
Limit	1-7 characters		
Format	`[A-Z]{2}[0-9]{5}`		
Note	The ACC45 claim number, which must be unique. Example: AB12345		
Error condition		**Code**	**Message**
Format is invalid		400	Please resubmit this claim with a new claim number, in the form AA99999 where A is any capital letter and 9 is any single digit.

3.2 Vendor

3.2.1 Practice (facility) name

API JSON	`Vendor/practiceName`
Required?	Yes
Data type	string
Limit	1-40 characters
Note	

3.2.2 Vendor number

API JSON	`Vendor/hpiOrganisationNumber`
Required?	Yes
Data type	string
Limit	1-14 characters
Note	HPI format is not essential

3.2.3　　Facility number

API JSON	`Vendor/hpiFacilityNumber`
Required?	Optional
Data type	string
Limit	1-8 characters
Note	HPI format is not essential

3.3　　Treatment provider

3.3.1　　Provider's identifiers and name

These details refer to the health professional who is providing treatment.

3.3.1.1　　ACC provider ID

API JSON	`Provider/ProviderDetails/providerID`
Required?	Yes
Data type	string
Limit	1-6 characters
Note	

3.3.1.2　　Facility

see section 3.2.1

3.3.1.3　　Provider type code

API JSON	`Provider/ProviderDetails/providerTypeCode`
Required?	Yes
Data type	string
Limit	1 or 2 characters
Note	The legacy system validates the code

3.3.1.4 Provider's first name

API JSON	Provider/ProviderDetails/firstName
Required?	Yes
Data type	string
Limit	1-20 characters
Note	

3.3.1.5 Provider's middle names or initials

API JSON	Provider/ProviderDetails/middleName
Required?	Optional
Data type	string
Limit	1-20 characters
Note	

3.3.1.6 Provider's family name

API JSON	Provider/ProviderDetails/surname
Required?	Yes
Data type	string
Limit	1-25 characters
Note	

3.3.2 Provider's address

The provider's address may contain the seven elements Address type through Country.

3.3.2.1 Address type

API JSON	Provider/Address/type
Required?	Yes
Data type	string
Format	enum (Home, Postal)
Note	

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [Home, Postal]

3.3.2.2   Address line 1

API JSON	Provider/Address/line1
Required?	Yes
Data type	string
Limit	1-35 characters
Note	

3.3.2.3   Address line 2

API JSON	Provider/Address/line2
Required?	Optional
Data type	string
Limit	1-30 characters
Note	

3.3.2.4   Suburb

API JSON	Provider/Address/suburb
Required?	Optional
Data type	string
Limit	1-30 characters
Note	Please enter the suburb if it's different from the city or town

3.3.2.5   Town or city

API JSON	Provider/Address/city
Required?	Yes
Data type	string
Limit	1-30 characters
Note	

3.3.2.6 Postcode

API JSON	Provider/Address/postCode
Required?	Yes
Data type	string
Limit	4-20 characters
Note	Although New Zealand postcodes are generally 4 digits, overseas postcodes may include alphabetic characters.

3.3.2.7 Country

API JSON	Provider/Address/country
Required?	Yes
Data type	string
Limit	1-30 characters
Note	

3.3.3 Declaration date

API JSON	providerDeclaration
Required?	Yes
Data type	string date-time
Format	YYYY-MM-DD
Note	

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
Date is earlier than 1900-01-01	400	The date cannot be before 1900-01-01.
Date is later than the current date	400	That date is in the future; enter a date no later than today.

3.4 Patient

3.4.1 Patient details

3.4.1.1 NHI number

API JSON	`Patient/PatientDetails/nhi`
Required?	Optional
Data type	string
Limit	exactly 7 characters (3 letters and 4 numbers)
Note	The API only validates the number of characters submitted

Error condition	Code	Message
The value has fewer or more than 7 characters	400	This field must have exactly 7 characters.

3.4.1.2 Patient's first name

API JSON	`Patient/PatientDetails/firstName`
Required?	Yes
Data type	string
Limit	1-20 characters
Note	

3.4.1.3 Patient's middle names or initials

API JSON	`Patient/PatientDetails/middleName`
Required?	Optional
Data type	string
Limit	1-20 characters
Note	

3.4.1.4 Patient's family name

API JSON	Patient/PatientDetails/surname
Required?	Yes
Data type	string
Note	

3.4.1.5 Patient's date of birth

API JSON	Patient/PatientDetails/dateOfBirth
Required?	Yes
Data type	string date-time
Format	YYYY-MM-DD
Note	

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
Date is earlier than 1900-01-01	400	The date cannot be before 1900-01-01.
Date is later than the current date	400	That date is in the future; enter a date no later than today.

3.4.1.6 Patient's gender

API JSON	Patient/PatientDetails/gender
Required?	Yes
Data type	string
Format	enum (M, F)
Note	

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [M, F]

3.4.1.7 Patient's ethnicity

API JSON	Patient/PatientDetails/ethnicityCode
Required?	Yes
Data type	string
Limit	1 or 2 characters
Note	The legacy system validates the code

3.4.1.8 Other ethnicity

API JSON	Patient/PatientDetails/otherEthnicity
Required?	Required when `ethnicityCode` is 54
Data type	string
Limit	40 characters
Note	The legacy system doesn't allow this field if the ethnicity is 61 'Other ethnicity'

Error condition	Code	Message
`Ethnicity_Code` is 54, and `Other_Ethnicity` is not present	400	This field is required when the ethnicity code is 'Other'.

3.4.1.9 Patient's occupation

API JSON	Patient/occupationCode
Required?	Yes
Data type	string
Limit	1-20 characters
Note	The legacy system validates the code

3.4.1.10 Patient's declaration date

Not required. The value in section 3.3.3 is used here also.

3.4.2 Patient's contact details

3.4.2.1 Mobile phone number

API JSON	Patient/Contact/mobilePhone
Required?	Optional
Data type	string
Limit	1-20 characters
Note	Enter at least one contact phone number, preferably mobile. No format validation (could restrict to 7-12 numeric characters)

3.4.2.2   Work phone number

API JSON	`Patient/Contact/workPhone`
Required?	Optional
Data type	string
Limit	1-20 characters
Note	No format validation

3.4.3   Patient's address

The patient address contains the seven elements Address type through Country.

3.4.3.1   Address type

API JSON	`Patient/Address/type`
Required?	Yes
Data type	string
Format	enum (Home, Postal)
Note	

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [Home, Postal]

3.4.3.2   Address line 1

API JSON	`Patient/Address/line1`
Required?	Yes
Data type	string
Limit	1-35 characters
Note	Business rule, required.

3.4.3.3   Address line 2

API JSON	`Patient/Address/line2`
Required?	Optional
Data type	string
Limit	1-30 characters
Note	

3.4.3.4   Suburb

API JSON	`Patient/Address/suburb`
Required?	Optional
Data type	string
Limit	1-30 characters
Note	Please enter the suburb if it's different from the city or town

3.4.3.5   Town or city

API JSON	`Patient/Address/city`
Required?	Yes
Data type	string
Limit	1-30 characters
Note	

3.4.3.6   Postcode

API JSON	`Patient/Address/postCode`
Required?	Yes
Data type	string
Limit	4-20 characters
Note	

3.4.3.7   Country

API JSON	`Patient/Address/country`
Required?	Yes
Data type	string
Limit	1-30 characters
Note	

3.5 Employment

3.5.1 Patient's employment status

3.5.1.1 Whether the patient is employed

API JSON	Employment/inPaidEmployment
Required?	Yes
Data type	string
Format	enum (False, True)
Note	True if the patient is in paid employment

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.5.1.2 Employment status

API JSON	Employment/employmentStatusCode
Required?	Required if inPaidEmployment is true, otherwise not permitted
Data type	string
Limit	1 or 2 characters
Note	The legacy system validates the code

Error condition	Code	Message
inPaidEmployment is true, and employment status is not present	400	Employment status is required when the patient is in paid employment.

3.5.1.3 Other employment

API JSON	Employment/otherEmployment
Required?	Required if employmentStatusCode is 5 (Other), otherwise not permitted
Data type	string
Limit	1-50 characters
Note	

Error condition	Code	Message
employmentStatusCode is 5 (other), and otherEmployment is not present	400	This field is required when the employment status is 'Other'.

3.5.1.4   Type of work

API JSON	Employment/workTypeCode
Required?	Required if `inPaidEmployment` is true, otherwise not permitted
Data type	string
Limit	1 character
Note	The legacy system validates the code

Error condition	Code	Message
`inPaidEmployment` is true, and `workTypeCode` is not present	400	This field is required when the patient is in paid employment.

3.5.2   Employer's name and address

The name and address of the patient's employer must be provided in the following cases:

1.   the employer's name is required if the patient is employed, optional otherwise

2.   the employer's address is required if the employer's name is given.

This is implemented by having the `Employment/Employer` structure optional, with some of its elements mandatory.

3.5.2.1   Employer's name

API JSON	Employment/Employer/employerName
Required?	Required if `employmentStatusCode` is 1 or 3, otherwise optional
Data type	string
Limit	1-50 characters
Note	'Self' is valid

Error condition	Code	Message
`employmentStatusCode` is 1 or 3, and `employerName` is not supplied	400	If the patient is in paid employment, the employer's name and address is required.

3.5.2.2   Employer's address type

API JSON	Employment/Employer/Address/type
Required?	Required if employerName is provided
Data type	string
Format	enum (Home, Postal)
Note	

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [Home, Postal]

3.5.2.3   Address line 1

API JSON	Employment/Employer/Address/line1
Required?	Required if employerName is provided
Data type	string
Limit	1-35 characters
Note	

3.5.2.4   Address line 2

API JSON	Employment/Employer/Address/line2
Required?	Optional
Data type	string
Limit	1-30 characters
Note	

3.5.2.5   Suburb

API JSON	Employment/Employer/Address/suburb
Required?	Optional
Data type	string
Limit	1-30 characters
Note	Please enter the suburb if it's different from the city or town

3.5.2.6   Town or city

API JSON	Employment/Employer/Address/city
Required?	Required if employerName is provided
Data type	string
Limit	1-30 characters
Note	

3.5.2.7   Postcode

API JSON	Employment/Employer/Address/postCode
Required?	Required if employerName is provided
Data type	string
Limit	4-20 characters
Note	

3.5.2.8   Country

API JSON	Employment/Employer/Address/country
Required?	Required if employerName is provided
Data type	string
Limit	1-30 characters
Note	

3.6 Injury

3.6.1 Time and place of the accident

3.6.1.1 Date of the accident

API JSON	`Injury/accidentDate`
Required?	Yes
Data type	string date-time
Format	YYYY-MM-DD
Note	The API sets the time automatically.

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
Date is earlier than 1900-01-01	400	The date cannot be before 1900-01-01.
Date is later than the current date	400	That date is in the future; enter a date no later than today.
Date is later than `providerDeclaration`	400	The accident date cannot be later than the date of the declaration.
Date is earlier than `dateOfBirth`	400	The accident date cannot be before the patient's date of birth.

3.6.1.2 Scene of the accident

API JSON	`Injury/accidentSceneCode`
Required?	Yes
Data type	string
Limit	1 or 2 characters
Transform	map
ACC45 XML	`Claim/Injury/Accident_Scene_Code`
Data type	string
Limit	1 or 2 characters
Note	The legacy system validates the code

3.6.1.3 Location of the accident

API JSON	Injury/accidentLocationCode
Required?	Yes
Data type	string
Limit	1-3 characters
Note	Intended to record the city or district where the accident occurred. The backend system does not validate this value with the geolocation code.

3.6.1.4 Whether the accident occurred in New Zealand

The API sets this automatically.

3.6.2 Cause and conditions of the accident or injury

3.6.2.1 Cause of injury

API JSON	Injury/causeOfAccident
Required?	Yes
Data type	string
Limit	1-255 characters
Note	Intended to describe the specific accident event, such as 'fell off a ladder', rather than 'doing DIY'.

3.6.2.2   Whether a vehicle was involved

API JSON	`Injury/involvesVehicle`
Required?	Yes
Data type	string
Format	enum (False, True)
Note	True if the accident involved a moving motor vehicle on a public road, when the patient was: • a driver or passenger • in a stationary vehicle • struck by a moving vehicle • travelling for work purposes. This value doesn't apply to off-road or non-motorised vehicles, or to a stationary vehicle that's being repaired.

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.2.3   Whether the injury was from medical treatment

API JSON	`Injury/medicalTreatmentInjury`
Required?	Optional
Data type	string
Format	enum (False, True)
Note	True for injuries that occurred while the patient was receiving treatment from a registered health professional.

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.2.4   Whether the accident is related to work

API JSON	`Injury/workInjury`
Required?	Yes
Data type	string
Format	enum (False, True)
Note	True for injuries sustained over time, a gradual process, or infection, related to work.

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.2.5   Whether the injury was from sport

API JSON	Injury/sportingInjury
Required?	Yes
Data type	string
Format	enum (False, True)
Note	True for an accident related to playing sport

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.2.6   Type of sport

API JSON	Injury/sportNameCode
Required?	Required if sportingInjury is true, otherwise not permitted
Data type	string
Limit	1-3 characters
Note	The legacy system validates the code

Error condition	Code	Message
sportingInjury is true and sportNameCode is not present	400	For a sporting injury, the name of the sport is required.
sportingInjury is false but sportNameCode is provided	400	If the injury is not from sport, the name of a sport is not permitted.

3.6.2.7   Whether the injury occurred gradually

API JSON	Injury/gradualProcessInjury
Required?	Optional
Data type	string
Format	enum (False, True)
Note	

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.2.8 Whether the patient was admitted to hospital

API JSON	Injury/admittedToHospital
Required?	Optional
Data type	string
Format	enum (False, True)
Note	Only a DHB can set this to true.

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.3 ACC help and contact

3.6.3.1 Whether assistance is required

API JSON	Injury/assistanceRequired
Required?	Optional
Data type	string
Format	enum (False, True)
Note	A DHB can set this to True, meaning the patient requires additional assistance.

Error condition	Code	Message
Value not in the enum list	400	This value must be one of [False, True]

3.6.3.2 Injury comments

API JSON	Injury/injuryComments
Required?	Optional
Data type	string
Limit	1-255 characters
Note	

3.6.3.3   Whether ACC should contact the provider

API JSON	`Injury/accContactProvider`
Required?	Yes
Data type	string
Limit	1 character
Note	Value '4' if ACC should contact the health provider. This field is sent to ACC but doesn't appear in the printout.
	Value '1' by default.
	The legacy system validates the code

3.6.4   Injury diagnosis

This comprises four elements, 3.6.4.1 through 3.6.4.4. One diagnosis is required; Eos and the API allow up to ten diagnoses in total on a single claim.

3.6.4.1   Diagnosis coding system

API JSON	`Diagnosis/diagnosisCodeType`
Required?	Yes
Data type	string
Limit	1 character
Note	The legacy system validates the code

Error condition	Code	Message
Ten diagnoses already present	400	A claim request cannot include more than 10 diagnoses.

3.6.4.2   Diagnosis code

API JSON	`Diagnosis/diagnosisCode`
Required?	Yes
Data type	string
Limit	1-20 characters
Note	The legacy system validates the code

Error condition	Code	Message
Ten diagnoses already present	400	A claim request cannot include more than 10 diagnoses.

3.6.4.3 Laterality code

API JSON	Diagnosis/diagnosisSide
Required?	Optional
Data type	string
Format	enum (notApplicable, left, right)
Note	A diagnosis always requires a side code, US043.

Error condition	Code	Message
Ten diagnoses already present	400	A claim request cannot include more than 10 diagnoses.
Value not in the enum list	400	This value must be one of [notApplicable, left, right]

3.6.4.4 Diagnosis description

API JSON	Diagnosis/diagnosisDescription
Required?	Yes
Data type	string
Limit	1-255 characters
Note	

Error condition	Code	Message
Ten diagnoses already present	400	A claim request cannot include more than 10 diagnoses.

3.7   Fitness for work

This comprises ten elements, 3.7.1 through 3.7.2.8, grouped here for convenience. It applies to patients who have 'Paid employment in New Zealand', that is with employment status 1 employee or 3 self-employed.

Business requirements allow for one or both of the following time periods, in either order, for a total of no more than 14 days: one period when the patient is unfit for any work, one when the patient is fit for selected work.

Table 4 shows when work restrictions apply; grey fill indicates an answer would be invalid, red text indicates a potential overlap.

Criterion eClaim, API field names	Values				
1. employmentStatusCode (1 or 3 = is in paid employment)	'', 11, or 5	1 or 3	1 or 3	1 or 3	1 or 3
2. canResumeNormalWork		Yes	No	No	No
3. Unfit for any work period fullyUnfitForWork, days between fromDate and toDate			**1-14**	**0-13**	**0-13**
4. Unfit for any work period **type**			API sets 1, Days		
5. fullyUnfitForWork, fromDate			not before accident date		
6. fullyUnfitForWork, toDate			not before from date		
7. fitForSelectedWork Alternative_Work_Ind				No	Yes
8. alternativeWorkTypeCode					valid code
9. physical restrictions, and comment					Lifting, etc, + text
10. restrictedHoursPerDay *					1-8
11. fitForSelectedWork, fromDate Alt_Work_Start_Date					not before accident date
12. returnToNormalWorkDate			see below		see below

Table 4 When work capacity restrictions apply

* assume all days in the time period are restricted.

If there are two time periods, ideally present them in order by start date. There must be no gap between them. That is, the following rules apply to the dates for these periods.

Rules	See
1. `fromDate` is not before the date of the accident	3.7.2.2
2. `toDate` for either period is not earlier than `fromDate` for that period	3.7.2.3
3. if there are two periods, `fromDate` for the second period must = `toDate` for the first period + 1 day (no gap, no overlap)	3.7.2.2, 3.7.2.3
4. `returnToNormalWorkDate` is later than the last or only `toDate`	3.7.2.8
5. if the `returnToNormalWorkDate` is not later than the first or only `fromDate` + 15 days, it must = the second or only `toDate` + 1 day	3.7.2.8

Table 5 Date rules for the fitness-for-work time periods

3.7.1 Whether the patient can continue normal work

API JSON	`WorkCapacity/canResumeNormalWork`
Required?	Required if `employmentStatusCode` is 1 or 3, otherwise not permitted
Data type	string
Format	enum (False, True)
Note	True if the patient can resume normal work. (Table 4 rule 2)

Error condition	Code	Message
`employmentStatusCode` is 1 or 3, and `canResumeNormalWork` is not present	400	When the patient is employed or self-employed, this field is required.
Value not in the enum list	400	This value must be one of [False, True]
`employmentStatusCode` is not present, or is 5 or 11	400	This field is only allowed when the patient is employed or self-employed.

3.7.2 Not fit for normal work

API JSON	WorkCapacity/incapacity
Required?	Required if canResumeNormalWork is false, otherwise not permitted
Data type	structure
Note	These are the reverse conditions to section 3.7.1

Error condition	Code	Message
canResumeNormalWork is false, but incapacity is not present	400	If the patient cannot continue normal work, at least one of 'Fully unfit for work' or 'Fit for selected for work' must be selected.
canResumeNormalWork is true, but incapacity is supplied	400	If the patient can continue normal work, these fields are not permitted.

3.7.2.1 Type of incapacity

API JSON	WorkCapacity/incapacityType
Required?	One value must be selected if canResumeNormalWork is false. Both types may be selected, but only one of each.
Data type	string
Format	list: fullyUnfitForWork, fitForSelectedWork
Note	Table 4 rule 7

3.7.2.2 Start date of an incapacity period

API JSON	WorkCapacity/Incapacity/DateRange/fromDate
Required?	Required for each incapacityType selected
Data type	string date-time
Format	YYYY-MM-DD
Note	Table 4 rules 5, 11; Table 5 rules 1, 3

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
fromDate is earlier than accidentDate	400	The period of time off work cannot start before the accident date.
Both incapacity types are selected, and the second fromDate is not equal to the first toDate + 1 day	400	The time periods for time off work and time on light duties must have no gap and no overlap.

3.7.2.3 End date of an incapacity period

API JSON	`WorkCapacity/Incapacity/DateRange/toDate`
Required?	Required for each `incapacityType` selected
Data type	string date-time
Format	YYYY-MM-DD
Note	Table 4 rule 6; Table 5 rules 2, 3

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
`toDate` for one incapacity type is earlier than `fromDate` for that type	400	The end date of a period of incapacity must be no earlier than its start date.
Both incapacity types are selected, and the second `fromDate` is not equal to the first `toDate` + 1 day	400	The time periods for time off work and time on light duties must have no gap and no overlap.

3.7.2.4 Period of time off work

API JSON	`WorkCapacity/incapacity/fullyUnfitForWork, fromDate, toDate`
Required?	Required if • `canResumeNormalWork` is false, and `fitForSelectedWork` is false. Optional if • `canResumeNormalWork` is false, and `fitForSelectedWork` is true
Data type	integer
Range	1-14
Note	Table 4 rules 3, 5, 6. The API automatically sets the type of this period.

Error condition	Code	Message
value is not an integer	400	This value must be an integer.
`Full_Incapacity_Period` > 14	400	A claim request allows no more than 14 days off work or on alternative work. A medical certificate is needed beyond this.
`Full_Incapacity_Period` = 14, and `fitForSelectedWork` is true	400	A claim request allows no more than 14 days off work or on alternative work. A medical certificate is needed beyond this.

3.7.2.5   Type of alternative work

API JSON	`WorkCapacity/Incapacity/SelectedAlternativeWork/alternativeWorkTypeCode`
Required?	Required if `fitForSelectedWork` is selected, otherwise not permitted
Data type	string
Note	The legacy system validates the code Table 4 rule 8.

Error condition	Code	Message
`fitForSelectedWork` is selected, but `alternativeWorkTypeCode` is not supplied	400	The alternative work type code must be selected when the patient is fit for selected work.
`Alternative_Work_Ind` is false, and `alternateWorkTypeCode` is supplied	400	This value is only allowed when the patient is fit for selected work.

3.7.2.5   Type of alternative work

3.7.2.6   Physical restrictions

API JSON	`WorkCapacity/Incapacity/SelectedAlternativeWork/physicalRestrictions`, and `restrictionComment`
Required?	Optional if `fitForSelectedWork` is selected, otherwise not permitted
Data type	string
Limit	1-255 characters
Note	Physical restrictions: any of the following can be selected, up to 255 characters: • Lifting • Posture • Heavy physical • Repetition • Vibration • Temperature • Driving • Prolonged sitting • Prolonged walking • Prolonged standing • Other • (further comment). Table 4 rule 9

Error condition	Code	Message
`fitForSelectedWork` is not selected, but restrictions are present	400	This field is only allowed when alternative work is selected.
This value is longer than 255 characters	400	This field only allows 255 characters in total. Please shorten the comment or select fewer options.

3.7.2.7   Hours per day

API JSON	`WorkCapacity/Incapacity/SelectedAlternativeWork/restrictedHoursPerDay`
Required?	Required if `fitForSelectedWork` is selected, otherwise not permitted.
Data type	integer
Range	1-8
Note	Table 4 rule 10

Error condition	Code	Message
value is present but is not an integer	400	This value must be an integer.
`fitForSelectedWork` is selected and `restrictedHoursPerDay` < 1 or > 8	400	When the patient is fit for selected work, this value must be a whole number from 1 to 8.

3.7.2.8   Date for returning to normal work

API JSON	returnToNormalWorkDate
Required?	Optional if canResumeNormalWork is false, otherwise not permitted
Data type	string date-time
Format	YYYY-MM-DD
Note	See toDate in section 3.7.2.3. See Table 4 rule 12, Table 5 rules 4, 5; note that returnToNormalWorkDate can be later than the first or only fromDate + 15 days, with a medical certificate. (No error if canResumeNormalWork is false, and returnToNormalWorkDate is not supplied.)

Error condition	Code	Message
Format not YYYY-MM-DD	400	The date format is invalid; use YYYY-MM-DD.
returnToNormalWorkDate is not later than the last or only toDate	400	This date must be later than the end date of the last period.
returnToNormalWorkDate is later than the first or only toDate + 1 day, and not later than the first or only fromDate + 15 days	400	When the total time off work or on alternative work is no more than 14 days, the patient must return to normal work the day after the last period ends.
canResumeNormalWork is true, but returnToNormalWorkDate is present	400	This field is only allowed when the patient cannot continue normal work.

3.8   Referral

Referrals are optional, but if a referral is provided, it must include both the required fields. The API allows no more than five referrals.

3.8.1   Type of provider

API JSON	`Referral/providerTypeCode`
Required?	Yes
Data type	string
Limit	1 or 2 characters
Note	The legacy system validates the code

Error condition	Code	Message
Five referrals already present	400	A claim request cannot include more than five referrals.

3.8.2   Reason for referral

API JSON	`Referral/referralReason`
Required?	Yes
Data type	string
Limit	1-255 characters
Note	

Error condition	Code	Message
Five referrals already present	400	A claim request cannot include more than five referrals.

4 Authorise the request

For an authenticated request, Apigee passes the email address from the digital certificate to the API. When a claim request has been successfully validated, the API verifies that the sender with this email address is authorised to make a claim request.

If the user is not authorised, a log file records the specific error, but the error message returned to the sender is the same in all cases: 'You are not authorised to access this service. Please contact the eBusiness Support Team on 0800 222 994 option 1 for assistance.'

4.1 Email address

Value	sender's email address, from Apigee
Condition	maps to a unique user account in LDAP
Note	

Error condition	Code	Log file message
Email address not found in LDAP	403	No user account found for <email address>.
More than one account found in LDAP with this email address	403	Sender's email address belongs to more than one user account

4.2 User account

Value	unique user account from LDAP
Conditions	• unique ACC organisation attached • user account is active • user account is in the group authorised to submit claims
Note	See US031, and email from Kaaran on 29 Aug: LDAP doesn't allow a provider to belong to more than one organisation—second error condition cannot occur

Error condition	Code	Log file message
The user account has no ACC organisation	403	Provider is not associated with an ACC organisation.
The user account has more than one ACC organisation attached	403	Provider belongs to more than one ACC organisation
The user account is marked as inactive in LDAP	403	Provider is not active in LDAP
User account is not a member of the claim-request group	403	Provider is not authorised to make a claim request.

5 Translate read or SNOMED codes

ICD-9 and ICD-10 codes are accepted as valid, and included without any translation.

For a valid, authorised request which includes:

- a read code, the API looks up the relevant SNOMED code

- a SNOMED code, the API looks up the relevant read code and replaces the SNOMED code in the request with the result.

If a SNOMED lookup fails, the API returns an error message.

On success, it logs the result of each translation (that is, the matched read and SNOMED codes or SNOMED and read codes, with the full message payload) in the audit database.

5.1 Read code to SNOMED code

API JSON	`diagnosisCode`
Condition	• `diagnosisCodingSystem` is 1, and • the code is no more than 5 characters long
Lookup	Call the translation from read code->SNOMED code with the value of `diagnosisCode`
Transform	Don't change the claim request payload for the eChannel gateway
ICS database	If a SNOMED code is returned, store: • the claim request payload • the translation payload • the read code (`diagnosisCode`) and the SNOMED code returned, if there is one • the date and time. Otherwise, don't add a record to the ICS database.
Payload copy for the sender	If a SNOMED code is returned, add it to this copy of the payload. Otherwise add an empty field in place of a SNOMED code.
Note	Eos doesn't accept SNOMED codes. No error message is required if this translation fails.

5.2   SNOMED code to read code

API JSON	`diagnosisCode`
Condition	• `diagnosisCodingSystem` is 1, and • the `diagnosisCode` is 6-19 digits long, with no alphabetic characters
Lookup	Call the translation from SNOMED code->read code with the value of the SNOMED code
Transform	Replace the SNOMED code in the XML with the read code returned.
ICS database	Store: • the claim request payload • the translation payload • the SNOMED code and the read code returned • the date and time
Payload copy for the sender	Add the read code returned to this copy of the payload.
Note	If the claim request includes both a SNOMED and a read code, two translations occur, both may be logged, and if both succeed the claim request will have two read codes, which could be identical.

Error condition	Code	Message
No read code returned	400	No read code returned. Please resubmit with a valid SNOMED or read code.

6   Submit the request

When a claim request is valid, authorised, and has valid diagnosis codes, the API:

- submits it as an ACC45 to the eChannel gateway

- returns a copy of the claim, with any diagnosis code translations, to the sender, with code 202 'accepted'.

Eos returns the final result to the sender.

Summary of response codes that a sender may see:

Code	Indicates
201	created
202	accepted
400	invalid data
401	authentication error
403	authorisation error
404	not found
500	internal server error

Table 6 Response codes