

Inland Revenue

## Build pack: Return service

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## **1 Overview**

### **1.1 This solution**

Inland Revenue has a suite of digital services available for consumption by our service providers that support efficient, electronic business interactions with Inland Revenue. The Return service described in this build pack document forms part of a suite of Gateway Services.

This is a stand-alone document intended to provide the technical details required to support the end-to-end onboarding Gateway Services. It describes the architecture of the technical solution, schemas, end points, sample payloads to use in non-production environments, and also its interaction with other build packs that cover different aspects of Gateway Services. The associated onboarding documents describe the end-to-end business level solution, of which this build pack forms part.

### **1.2 Intended audience**

The solution outlined in this document is intended to be used by technical teams and development staff. It describes the technical interactions, including responses, provided by the Return service.

The reader is assumed to have a suitable level of technical knowledge in order to comprehend the information provided. A range of technical terms and abbreviations are used throughout this document, and while most of these will be understood by the intended readers, a [glossary](#) is provided at the end.

### **1.3 Supported onboarding packs**

Before using this build pack, ensure the relevant onboarding pack has been consulted to provide business level context.

The following Inland Revenue onboarding packs are supported by this build pack:

- GST via Gateway Services
- Accounting Income Method (AIM) via Gateway Services
- Employment Activities via Gateway Services.

The AIM onboarding pack also contains the relevant policy and supporting legislation.

### **1.4 Related build packs**

The following Gateway Services build packs complement this one.

#### **1.4.1 Identity and Access services build pack**

The Identity and Access (IAS) services build pack describes the operations provided under Identity and Access services, which is another part of the Gateway Services suite. These services are used to authenticate access.

This Return service build pack was written using information from version 1.5 of the Identity and Access services build pack.



#### 1.4.2 Employment service build pack

The Employment service build pack describes the operations provided under the Employment web service, which forms part of the Gateway Services suite. The operations offered to employers by this service include the ability to create, update and terminate employment, as well as retrieve a list of employees.

This Return service build pack was written using information from version 0.8 of the Employment service build pack.

#### 1.5 Prerequisites

Party	Requirement	Description
<b>Inland Revenue</b>	Provide the Inland Revenue public certificate for mutual TLS	IR's public X.509 certificate to support TLS will be provided as part of connectivity testing.
<b>Service provider</b>	Acquire a X.509 certificate from a competent authority for the Test and Production environments	This is required when using mutual TLS with cloud-based service providers.

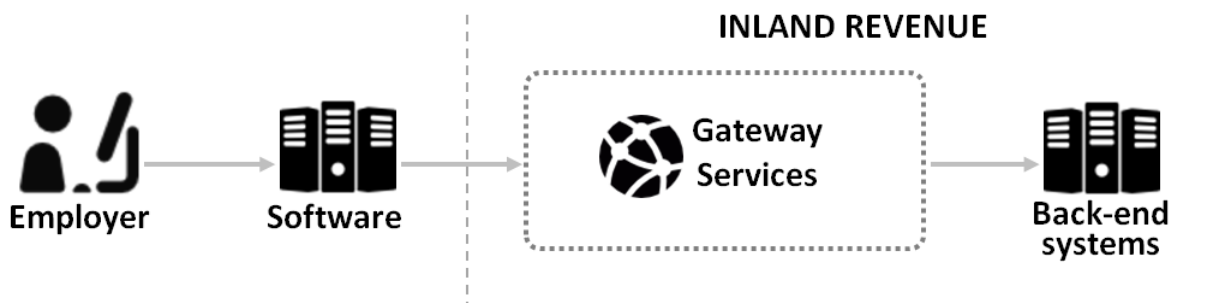


## 2 Solution design

### 2.1 Architecture

Inland Revenue is offering a suite of web services in order to facilitate interactions with Inland Revenue via software packages. The Gateway Services suite will be used by approved software vendors to facilitate everything from registration activities, filing returns, making payments and other service offerings in order to allow customers to interact with Inland Revenue.

The diagram below illustrates the flow of data from the customer to Inland Revenue.



The WSDLs for the Gateway Services define an 'any' XML request and response structure, which then relies on a group of XSDs to define the data structure of those requests and responses. Each request and response type will define a lower, 'wrapper' element.

Any malformed XML will instantly be rejected by the Gateway Services prior to any schema validation.

### 2.2 Service scope

The Return service supports the following operations:

- **File:** This service is used to submit a return to Inland Revenue for a customer.
- **Prepop:** This service is used by software to provide figures to assist in the calculation and display of return information prior to submission.
- **RetrieveStatus:** This service is used by software to return a status for a particular return.
- **RetrieveReturn:** This service retrieves a previously submitted return and the values associated to that return.
- **RetrieveFilingObligation:** This service retrieves the expectations for a customer to file a return.

### 2.3 Messaging

All SOAP messages require a SOAP header containing **To:** and **Action:** parameters, as well as a SOAP body containing a structured XML payload. Please refer to the WSDL for the correct addresses.

The Gateway Services allow the consumption of any structured XML payload but will be validated against the Inland Revenue-published XSDs.

This is a late binding validation, performed after authentication has been reviewed. The message structure of these services is a simple request/response. The XML request will be



checked for well-formed XML before the schema validation. Responses to these requests will be in XML format as well and will be defined in the same schemas that define the requests.

Any XML submissions in the SOAP body that do not meet the provided schemas will not be accepted by the Gateway Services. Incorrect namespaces will also fail validation against the published schemas.

### Example SOAP request structure

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
  xmlns:ret="https://services.ird.govt.nz/GWS>Returns/"
  xmlns:prep="https://services.ird.govt.nz/GWS>Returns/:types/PrepopRequest"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <soap:Header>
    <a:To>https://services.ird.govt.nz/Gateway/GWS>Returns</a:To>
    <a:Action>https://services.ird.govt.nz/GWS>Returns/Return/Operation</a:Action>
  </soap:Header>
  <soap:Body>
    <ret:Prepop>
      <ret:ReturnPrepopRequestMsg>
        <prep:PrepopRequestWrapper>
          <rc:formInfoRequest xmlns:xsi...
            <...PrepopFields...>
          </rc:formInfoRequest>
        </prep:PrepopRequestWrapper>
      </ret:ReturnPrepopRequestMsg>
    </ret:Prepop>
  </soap:Body>
</soap:Envelope>
```

### Example SOAP response structure

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      https://services.ird.govt.nz/GWS>Returns/Return/FileResponse
    </a:Action>
  </s:Header>
  <s:Body>
    <FileResponse xmlns="https://services.ird.govt.nz/GWS>Returns/">
      <FileResult xmlns:b="https://services.ird.govt.nz/GWS>Returns/:types/FileResponse"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:FileResponseWrapper>
          <fileResponse xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
            <statusMessage>
              <statusCode>0</statusCode>
              <errorMessage/>
            </statusMessage>
          </fileResponse>
        </b:FileResponseWrapper>
      </FileResult>
    </FileResponse>
  </s:Body>
</s:Envelope>
```



## 2.4 Security

Gateway Services requests are access-controlled using an OAuth token that identifies the user making the request. Users will authenticate using their Inland Revenue myIR credentials. For instructions on how to acquire an OAuth token, review the Identity and access build pack. For TDS Real Time web service requests, an OAuth access token is required in the HTTP header.

Authorisation for using the Gateway Services is defined in the permissions set in myIR. Permissions will reflect those granted in myIR. For example, if a user does not have permission to file a return online, they will not be able to file a return via Gateway Services either. This applies to users who are granted access as staff inside an organisation or as staff in a tax agency.

The Gateway Services use an HTTPS transport layer, with HTTP1.1 transport protocol supported.

The Gateway Services also use the SOAP version 1.2 protocol.

The SOAP service contract is published using WSDL version 1.1.

Transport layer encryption is mandatory and Gateway Services generally use the TLS version 1.2 specification.

Inland Revenue requires the following ciphers and key strengths to be used:

<b>Encryption:</b>	Advanced Encryption Standard (AES)	FIPS 197	256-bit key
<b>Hashing:</b>	Secure Hash Algorithm (SHA-2)	FIPS 180-3	SHA-256

There will be two end points, which are summarised in the bullet points below (the table immediately afterwards provides more detail):

1. There is an end point to which service providers' centralised **cloud** locations can connect. This will involve mutual TLS certificates that need to be exchanged during the onboarding phase. On the cloud end point Inland Revenue has controls to shield service providers from issues caused by heavy usage from other providers.
2. For service providers connecting from **desktops**, there is a separate end point that does not use mutual TLS. For this service, certificates do not need to be exchanged during onboarding. On the desktop end point Inland Revenue has less ability to shield consumers of the service from heavy usage by others.

**IMPORTANT:** Please note that only the end points for cloud-based connections are currently available.





	End point for cloud-based connections	End point for desktop connections
<b>Purpose</b>	<ul style="list-style-type: none"> <li>Primary preferred end point to connect to from service providers for Gateway Services</li> </ul>	<ul style="list-style-type: none"> <li>Additional transitory end point provided to facilitate connecting from desktops which might be high volumes of sources addresses, transient DHCP addresses, not realistically associated with client-side TLS certificates, not individually onboarded to setup certificate trust</li> </ul>
<b>Client application type</b>	<ul style="list-style-type: none"> <li>Cloud applications</li> </ul>	<ul style="list-style-type: none"> <li>Desktop/native applications</li> <li>For connecting from multiple decentralised clients</li> </ul>
<b>Constraints</b>	<ul style="list-style-type: none"> <li>Only for source locations with client side TLS certificates</li> <li>On the cloud end point Inland Revenue has controls to shield service providers from issues caused by heavy usage from other providers</li> </ul>	<ul style="list-style-type: none"> <li>Less scalable</li> <li>Subject to tighter security controls</li> <li>On the desktop end point Inland Revenue has less ability to shield consumers of the service from heavy usage by others</li> <li>OAuth2 refresh tokens will not be offered to desktop clients</li> </ul>
<b>Mutual TLS</b>	<ul style="list-style-type: none"> <li>Inland Revenue explicitly trusts the certificate the service provider associates with the TLS connection as client for Mutual TLS connections and uses it to identify the service provider in conjunction with the web service identification below</li> </ul>	<ul style="list-style-type: none"> <li>Server side certificates only</li> </ul>
<b>Minimum TLS version</b>	<ul style="list-style-type: none"> <li>1.2</li> </ul>	<ul style="list-style-type: none"> <li>1.2</li> </ul>
<b>URL</b>	<ul style="list-style-type: none"> <li>Contains ../gateway/..</li> </ul>	<ul style="list-style-type: none"> <li>Contains ../gateway2/..</li> </ul>
<b>Port</b>	<ul style="list-style-type: none"> <li>4046</li> </ul>	<ul style="list-style-type: none"> <li>443 (Default https port)</li> </ul>
<b>Web service consumer identification</b>	<ul style="list-style-type: none"> <li>To be identified in web service calls—each cloud application will be given client_id/client_secret credentials during onboarding to allow it to call this end point</li> </ul>	<ul style="list-style-type: none"> <li>Desktop clients will be given different client_id/client_secret credentials to cloud application clients</li> </ul>



	End point for cloud-based connections	End point for desktop connections
<b>Firewalling in production</b>	<ul style="list-style-type: none"> <li>No IP address restrictions</li> <li>Access limited by certificate enrolment</li> </ul>	<ul style="list-style-type: none"> <li>No IP address restrictions</li> </ul>
<b>Firewalling in non-production environments</b>	<ul style="list-style-type: none"> <li>No IP address restrictions</li> <li>Access limited by certificate enrolment</li> </ul>	<ul style="list-style-type: none"> <li>Firewalled—IP whitelisting needed</li> </ul>

**Delegated permissions:** The services will allow one to retrieve all of the data for a customer that the calling user (as represented by the OAuth token) has access to. There may be additional accounts this identity does not have access to, those will not be mentioned. If an account or data in it is targeted by the request parameters but the user does not have permission an error will be returned. This access will depend on delegation permissions set up in myIR. If the token represents a user in a tax agency or other intermediary, then the agent-client linking is also considered.



### 3 Operations

**IMPORTANT:** The end points, schemas and WSDLs listed here are subject to change. For the authoritative definitions, please refer to the information provided on the Inland Revenue Gateway Services GitHub site: <https://github.com/InlandRevenue/Gateway-Services>

The structures of all Gateway Service operations are intended to produce the most efficient requests and responses. Any common structures and fields will be used across many schemas and tax types through an intentional inheritance method. The section below describes the structure of each operation and the scenarios in which certain fields will be used in XML requests and responses.

This section contains schema aliases:

- Cmn: Common.xsd
- Rc: ReturnCommon.xsd
- R: returnSpecific.xsd (for example ReturnGST.xsd, ReturnAIM.xsd, ReturnEI.xsd)

NOTE: Some requests and responses live in ReturnCommon.xsd but can still be generated from an inheriting return-specific XSD. This could mean the schemaLocation could be different, depending on where the payload was generated from. Any method of generating these payloads is accepted. This applies to the fileResponse XML directly below.

The response structure for all File requests will use the two default service response fields: **statusCode** and **errorMessage**. The identifier for this XML is fileResponse in the ReturnCommon namespace.

The response structure for all File requests will have the **gatewayId** field populated. The gatewayId is a unique identifier passed back in the responseBody, assuming the response code for the request is zero (refer to [Chapter 5 Responses](#)). The gatewayId should be recorded and can be used by technical teams for troubleshooting. The gatewayId will not appear in search results when searching myIR. The gatewayId is also not available to IR front line staff (such as in the telephone contact centre) to search on.

For example:

```
<fileResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <StatusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage></errorMessage>
  </StatusMessage>
  <responseBody>
    <gatewayId>0000 002J ZJ5N 6</gatewayId>
  </responseBody>
</fileResponse>
```

All operations for the Return service will contain two standard header fields: **softwareProviderData** and **identifier**.

The **identifier** field is common across all gateway services but refers to different parties in different services. In all cases it is the party with delegated permissions to whom an OAuth token is provided. If the value cannot be resolved to a known context, or if it can but the provided OAuth token does not have the necessary delegated permissions then the error code



4 "unauthorised delegation" is returned. Please refer to individual operations for the nature of the identifier expected in this parameter in any given context.

For example:

```
<cmn:softwareProviderData>
  <cmn:softwareProvider>SoftwareProvider</cmn:softwareProvider>
  <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
  <cmn:softwareRelease>v1</cmn:softwareRelease>
</cmn:softwareProviderData>
<cmn:identifier IdentifierValueType="ACCIRD">012345678</cmn:identifier>
<cmn:accountType>GST</cmn:accountType>
```

Field	Description
<b>softwareProvider</b>	The company that developed the software
<b>softwarePlatform</b>	The software package that is making the request
<b>softwareRelease</b>	The version of the software package
<b>IdentifierValueType</b>	The ID type being submitted. This can be ACCIRD, NZBN or ACCID. The value submitted for this field should contain only digits, with no dashes. IRD Numbers that are eight digits must be padded with a leading zero.
<b>identifier</b>	The value submitted for this field should contain only digits, with no dashes. IRD Numbers that are eight digits must be padded with a leading zero.
<b>accountType</b>	The account type being submitted (GST, INC or EMP).

Proper use:

- The only softwareProviderData fields users will be able to input are the ones that were provided to Inland Revenue at the time of on-boarding.
- The identifier is that of the tax payer on whose behalf the operations are being performed.

Example scenario:

- Third party with IRD 898989898 submits for client IRD 121212121
  - Third party calls /Returns/File/ with  
 <cmn:identifier IdentifierValueType="ACCIRD">121212121</cmn:identifier>



### 3.1 File

The File operation will be used to submit all returns, regardless of the tax type. Note that the request and response structure is the same for all tax types.

Base structure:

```
<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
      <rc:formFields xsi:type="r:FormFieldsType">
        <...tax specific fields...>
      </rc:formFields>
    </rc:fileBody>
  </r:fileRequest>
```

Field	Description
<b>fileHeader</b>	The standard header for File requests across all tax types
<b>fileBody</b>	The standard body structure for File requests across all tax types
<b>standardFields</b>	A group of fields standard across all tax types
<b>formFields</b>	A wrapper that will contain tax form-specific fields

<FileHeader> structure:

```
<r:fileRequest namespaces...>
  <rc:fileHeader>
    <cmn:softwareProviderData>
      <cmn:softwareProvider>Software1</cmn:softwareProvider>
      <cmn:softwarePlatform>Software1Package</cmn:softwarePlatform>
      <cmn:softwareRelease>v1</cmn:softwareRelease>
    </cmn:softwareProviderData>
    <cmn:identifier IdentifierValueType="ACCIRD">012345678</cmn:identifier>
    <cmn:accountType>GST</cmn:accountType>
    <rc:periodEndDate>2017-03-31</rc:periodEndDate>
    <rc:majorFormType>GST</rc:majorFormType>
    <rc:minorFormType>101A</rc:minorFormType>
  </rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
      <rc:formFields xsi:type="r:FormFieldsType">
        <...tax specific fields...>
      </rc:formFields>
    </rc:fileBody>
  </r:fileRequest>
```



Field	Requirement	Description
<b>periodEndDate</b>	Required	The period in which a return exists or the period for which it is being submitted. An AIM Statement of Activity will cover a one or two month period. The period end date for the Statement of Activity refers to the last day of the period covered by that statement. For example, for a Statement of Activity covering the two month period of April and May 2019, the period end date is 31/05/19.
<b>majorFormType</b>	Required	The form type (ie GST, SOA etc)
<b>minorFormType</b>	Optional	The form number to the major form type, for example 101A vs 103G. NOTE: This is REQUIRED for major form types that have more than one minorFormType such as GST.

Proper uses:

- The major and minor form types will be used together to determine the submission form.

Example scenario:

- Attempting to submit a GST103H for the 2018-January period.  

```
<cmn:accountType>GST</cmn:accountType>
<rc:periodEndDate>2018-01-31</rc:periodEndDate>
<rc:majorFormType>GST</rc:majorFormType>
<rc:minorFormType>103H</rc:minorFormType>
```

**<FileBody>** structure:

```
<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
      <rc:formFields xsi:type="r:FormFieldsType">
        <...tax specific fields...>
      </rc:formFields>
    </rc:fileBody>
  </r:fileRequest>
```

FileBody is simply the wrapper of standardFields and formFields. The standard fields will be constant in every fileBody, but the formFields will be overridden by each tax type.

**<StandardFields>** structure:

```
<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
      <rc:isNilReturn>>false</rc:isNilReturn>
      <rc:isFinalReturn>>false</rc:isFinalReturn>
      <rc:amendmentRequest>
```



```

    <rc:isAmended>>false</rc:isAmended>
    <rc:amendReason></rc:amendReason>
    <rc:amendDetails></rc:amendReason>
  </rc:amendmentRequest>
  <rc:creditTransferRequest>
    <rc:transferIRD></rc:transferIRD>
    <rc:transferAccountType></rc:transferAccountType>
    <rc:transferFilingPeriod></rc:transferFilingPeriod>
    <rc:associatedCustomer></rc:associatedCustomer>
    <rc:transferAmount></rc:transferAmount>
  </rc:creditTransferRequest>
</rc:standardFields>
<rc:formFields xsi:type="r:FormFieldsType">
  <...tax specific fields...>
</rc:formFields>
</rc:fileBody>
</r:fileRequest>

```

Field	Requirement	Description
<b>isNilReturn</b>	Required	This allows for a nil return to be submitted
<b>isFinalReturn</b>	Optional	This field notes that the account is ready to be closed after this filing period. NOTE: This is <u>REQUIRED</u> for all tax types other than AIM.
<b>isAmended</b>	Required	This allows for a return to be filed as an amendment. NOTE: If isAmended=true then amendReason and amendDetails are required.
<b>amendReason</b>	Optional	This is attached to the amendmentRequest as the reason for the amendment. This can be either KEY (incorrect amount), MATH (calculation error), OTHER, or TRNSPO (transposition error).
<b>amendDetails</b>	Optional	This allows for any further details on the amendmentRequest.
<b>creditTransferRequest</b>	Optional	These fields can be added to transfer the refund to another START account. Any number of credit transfers from 0 to 10 can be submitted for every file operation.

Proper uses:

- Most standard submissions will require isNilReturn to be *false*, isFinalReturn to be *false*, and isAmended to be *false*.

Example scenario:

- Attempting to amend a GST return due to lack of information from client.
 

```

      <rc:isNilReturn>>false</rc:isNilReturn>
      <rc:isFinalReturn>>false</rc:isFinalReturn>
      <rc:isAmended>true</rc:isAmended>
      <rc:amendReason>KEY</rc:amendReason>
      <rc:amendDetails>Client withheld receipts of large business costs purchased during this GST
      filing period</rc:amendDetails>
      
```



### 3.1.1.1 GST usage

For GST, the formFields consists of three groups: gstSpecificFields, provSpecificFields, and transitionalFields.

**<FormFields>** structure (for GST):

```
<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
    <r:formFields xsi:type="r:FormFieldsType">
      <r:gstSpecificFields/>
      <r:provSpecificFields/>
      <r:transitionalFields/>
    </rc:formFields>
  </rc:fileBody>
</r:fileRequest>
```

Field	Requirement	Description
<b>gstSpecificFields</b>	Required	The fields in the group are standard GST101 fields
<b>provSpecificFields</b>	Optional	The provisional tax fields required for any GST103 form
<b>transitionalFields</b>	Optional	Additional fields used for a transitional period return

**<gstSpecificFields>** structure:

```
<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
    <r:formFields xsi:type="r:FormFieldsType">
      <r:gstSpecificFields>
        <r:totalSales>61223.50</r:totalSales>
        <r:zeroRatedSupplies>2210.55</r:zeroRatedSupplies>
        <r:debitAdjustment>
          <r:privateUsePeriodAdjustment>123.45</r:privateUsePeriodAdjustment>
          <r:privateUseOneOff>123.45</r:privateUseOneOff>
          <r:assetsAfterCease>123.45</r:assetsAfterCease>
          <r:entertainment>123.45</r:entertainment>
          <r:changeAccountingBasis>123.45</r:changeAccountingBasis>
          <r:exemptSupplies>123.45</r:exemptSupplies>
          <r:currentRateGSTAdjustments>123.45</r:currentRateGSTAdjustments>
          <r:other>123.45</r:other>
          ...OR...
          <r:totalDebitAdjustment>321.45</r:totalDebitAdjustment>
        <r:totalExpenses>6001.20</r:totalExpenses>
        <r:creditAdjustment>
          <r:useOfPrivateGoods>123.45</r:useOfPrivateGoods>
          <r:privateAssetsForBusiness>123.45</r:privateAssetsForBusiness>
          <r:changeAccountingBasis>123.45</r:changeAccountingBasis>
          <r:currentRateGSTCredits>123.45</r:currentRateGSTCredits>
          <r:other>123.45</r:other>
          ...OR...
          <r:totalCreditAdjustment>321.45</r:totalCreditAdjustment>
        <r:totalGST>123456.78</r:totalGST>
      </r:gstSpecificFields>
    </r:formFields>
  </rc:fileBody>
</r:fileRequest>
```





```

    </r:gstSpecificFields>
    <r:transitionalFields/>
    <r:provSpecificFields/>
  </rc:formFields>
</rc:fileBody>
</r:fileRequest>

```

Field	Requirement	Description
<b>totalSales</b>	Required	Total sales and income for the period (GST and zero-rated supplies)
<b>zeroRatedSupplies</b>	Required	Zero-rated supplies included in totalSales
<b>debitAdjustment</b>	Required	Calculation fields for determining debit adjustments OR the debit adjustment total
<b>totalExpenses</b>	Required	Total purchases and expenses (including GST) for which tax invoicing requirements have been met
<b>creditAdjustment</b>	Required	Calculation fields for determining credit adjustments OR the debit adjustment total
<b>totalGST</b>	Required	Total GST collected on sales and income

**<transitionalFields>** structure:

```

<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
    <rc:formFields xsi:type="r:FormFieldsType">
      <r:gstSpecificFields/>
      <r:transitionalFields>
        <r:totalSales>1324</r:totalSales>
        <r:zeroRatedSupplies>123</r:zeroRatedSupplies>
        <r:debitAdjustments>
          <r:privateUsePeriodAdjustment></r:privateUsePeriodAdjustment>
          <r:privateUseOneOff></r:privateUseOneOff>
          <r:assetsAfterCease></r:assetsAfterCease>
          <r:entertainment></r:entertainment>
          <r:changeAccountingBasis></r:changeAccountingBasis>
          <r:exemptSupplies></r:exemptSupplies>
          <r:currentRateGSTAdjustments></r:currentRateGSTAdjustments>
          <r:other></r:other>
          ...OR....
          <r:totalDebitAdjustment>321.45</r:totalDebitAdjustment>
        </r:debitAdjustments>
        <r:totalExpenses>123</r:totalExpenses>
        <r:creditAdjustments>
          <r:useOfPrivateGoods></r:useOfPrivateGoods>
          <r:privateAssetsForBusiness></r:privateAssetsForBusiness>
          <r:changeAccountingBasis></r:changeAccountingBasis>
          <r:currentRateGSTCredits></r:currentRateGSTCredits>
          <r:other></r:other>
          ...OR...
          <r:totalCreditAdjustment>321.45</r:totalCreditAdjustment>
        </r:creditAdjustments>
        <r:totalGST>123</r:totalGST>
        <r:totalTransitionalAndStandardGST></r:totalTransitionalAndStandardGST>
      </r:transitionalFields>
    </rc:formFields>
  </rc:fileBody>
</r:fileRequest>

```



```

    <r:provSpecificFields/>
  </rc:formFields>
</rc:fileBody>
</r:fileRequest>

```

Field	Description
<b>totalTransitionalAndStandardGST</b>	This field is the sum of the totalGST fields from the standard GST and the transitional GST sections.

Proper uses:

- The transitionalFields should only be used in the case of a national GST ratio change. If the ratio changes in the middle of a filing period, the next return submission would include these transitional fields. These fields are a copy of the GST specific fields with the totalTransitionalAndStandardGST field at the end.

**<provSpecificFields>** structure:

```

<r:fileRequest namespaces...>
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>
    <rc:formFields xsi:type="r:FormFieldsType">
      <r:gstSpecificFields/>
      <r:transitionalFields/>
      <r:provSpecificFields>
        <r:ratioTaxPercent></r:ratioTaxPercent>
        <r:ratioLastMonthTotalSales></r:ratioLastMonthTotalSales>
        <r:ratioMultiBranchTotalSales></r:ratioMultiBranchTotalSales>
        <r:ratioAssetAdjustment></r:ratioAssetAdjustment>
        <r:voluntaryPayment></r:voluntaryPayment>
        <r:provTaxInstalmentAmount>123.45</r:provTaxInstalmentAmount>
        <r:refundTransferAmountToProv></r:refundTransferAmountToProv>
        <r:totalGSTandProvToPay>12345.56</r:totalGSTandProvToPay>
      </r:provSpecificFields>
    </rc:formFields>
  </rc:fileBody>
</r:fileRequest>

```

Fields	Requirement	Description
<b>ratioTaxPercent</b>	Optional	Ratio percentage.
<b>ratioLastMonthTotalSales</b>	Optional	Total sales and income for the previous month's return.
<b>ratioMultiBranchTotalSales</b>	Optional	If user has more than one branch, total sales and income for all other branches/divisions.
<b>ratioAssetAdjustment</b>	Optional	If an asset has been sold in the last two months, an adjustment for the asset's worth can be made in this field.
<b>voluntaryPayment</b>	Optional	If the user makes a voluntary payment, the amount can be specified in this field.



Fields	Requirement	Description
<b>provTaxInstalmentAmount</b>	Required	The ratio percentage multiplied by the difference between the asset's adjustment and total sales and income.
<b>refundTransferAmountToProv</b>	Optional	If the user is expecting a refund, an amount to be transferred to provisional tax can be specified in this field.
<b>totalGSTandProvToPay</b>	Required	The combination of the provisional tax instalment due and either a GST refund or GST to pay.

When submitting the GST 101 form the optional provisional fields should be left blank, unless submitting a GST 103 form.

### 3.1.2 AIM usage

**<FormFields>** structure (for AIM):

```
<r:fileRequest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnAIM.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnAIM.v1">
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields/>
    <rc:formFields xsi:type="r:FormFieldsType">
      <r:aimInstalmentDate/>
      <r:grossSalesAndServiceIncome/>
      <r:openingStock/>
      <r:purchases/>
      <r:closingStock systemAdjustedValue="" userAdjustedValue=""/>
      <r:grossProfit/>
      <r:interestReceived/>
      <r:dividendsReceived/>
      <r:rentLeaseLicenceIncome/>
      <r:otherIncome/>
      <r:badDebts/>
      <r:depreciationAndAmortisation/>
      <r:insurance/>
      <r:interestExpense/>
      <r:fees/>
      <r:rates/>
      <r:rentsLeasesLicences/>
      <r:repairsAndMaintenance/>
      <r:researchAndDevelopment/>
      <r:relatedPartyRemuneration/>
      <r:salariesAndWages/>
      <r:contractorPayments/>
      <r:otherExpenses/>
      <r:exceptionalItems/>
      <r:netProfitLossBeforeTax/>
      <r:taxAdjustments/>
      <r:currentYearTaxableProfitLoss/>
      <r:accountsReceivable systemAdjustedValue="" userAdjustedValue=""/>
      <r:cashAndDeposits/>
      <r:otherCurrentAssets/>
    </rc:formFields>
  </rc:fileBody>
</r:fileRequest>
```



```

    <r:vehicles/>
    <r:plantAndMachinery/>
    <r:furnitureAndFittings/>
    <r:land/>
    <r:buildings/>
    <r:otherFixedAssets/>
    <r:intangibles/>
    <r:sharesAndOwnershipInterests/>
    <r:termDeposits/>
    <r:otherNonCurrent/>
    <r:provisions systemAdjustedValue="" userAdjustedValue=""/>
    <r:provisionsForShareholderSalaries systemAdjustedValue="" userAdjustedValue=""/>
    <r:accountsPayable systemAdjustedValue="" userAdjustedValue=""/>
    <r:currentLoans/>
    <r:otherCurrentLiabilities/>
    <r:nonCurrentLiabilities/>
    <r:ownersEquity/>
    <r:taxDepreciation systemAdjustedValue="" userAdjustedValue=""/>
    <r:unTaxedRealisedGainsAndReceipts/>
    <r:additionsToFixedAssets/>
    <r:disposalOffFixedAssets/>
    <r:depreciationRecovered systemAdjustedValue="" userAdjustedValue=""/>
    <r:losses />
    <r:privateUse systemAdjustedValue="" userAdjustedValue=""/>
    <r:dividendsPaid/>
    <r:drawings/>
    <r:currentAccountYearEndBalances/>
    <r:taxDeductibleLossOnDisposalOffFixedAssets/>
    <r:otherAdjustments>
      <r:adjustments>
        <r:amount/>
        <r:description/>
      <r:adjustments/>
    <r:otherAdjustments/>
    <r:yearToDateProvTaxLiability/>
    <r:thisInstalment/>
    <r:shareholderProvTax/>
    <r:refundAmount/>
    <r:refundIndicator/>
  </rc:formFields>
</rc:fileBody>
</r:fileRequest>

```

Attribute	Description
<b>systemAdjustedValue</b>	If the system has adjusted the value, the adjustment value should be placed here. The old value will be placed between the field tags.
<b>userAdjustedValue</b>	If the customer has overridden the system calculated adjustment, the adjustment value entered by the customer should be placed here.
<b>shareholderProvTax</b>	This field should be left blank. It is intended that this field will enable companies to communicate the amount of provisional tax (if any) they have paid on behalf of shareholders based on proposed future enhancements to the AIM method.



Attribute	Description
<b>refundAmount</b>	This value is how much has been requested to be refunded. This amount should be set as 0 unless refundIndicator is set to true. If refundIndicator is set to true and refundAmount is set to 0, the entire amount in the account will be refunded.
<b>refundIndicator</b>	This field indicates if a balance on the account should be refunded.

The otherAdjustment field is used for any adjustment with no specific field defined. There is a minimum of zero additional adjustments and a maximum of 20 additional adjustments.

For credit transfers, use creditTransferRequest fields in the standardFields portion of the payload.

If the refundIndicator is false and there is no credit transfer request, then the default operation is to hold the entire amount.

[Appendix B](#) of this document provides a number of sample scenarios to illustrate how to manage overpayments.

### 3.1.3 EI usage

Multiple EI returns can be submitted for each payDayDate.

Note that an employer cannot commence payday filing part way through a month; payday filing must start with the very first payday in the month.

**<FormFields>** structure (for EI):

```
<r:fileRequest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1">
  <rc:fileHeader>...</rc:fileHeader>
  <rc:fileBody>
    <rc:standardFields>...</rc:standardFields>
    <rc:formFields xsi:type="r:FormFieldsType">
      <r:submissionKey/>
      <r:payDayDate/>
      <r:piIrdNumber/>
      <r:contactName/>
      <r:contactPhoneNumber/>
      <r:contactEmail/>
      <r:employeeFields>
        <r:employee>
          <r:lineNumber/>
          <r:irdNumber/>
          <r:employeeName/>
          <r:taxCode/>
          <r:payPeriodStartDate/>
          <r:payPeriodEndDate/>
          <r:employmentStartDate/>
          <r:employmentFinishDate/>
          <r:referenceId/>
          <r:employeePayFrequency/>
          <r:grossEarnings/>
          <r:earningsNotLiableACC/>
        </r:employee>
      </r:employeeFields>
    </rc:formFields>
  </rc:fileBody>
</r:fileRequest>
```



```

    <r:lumpSumIndicator/>
    <r:payeSchedularTaxDeductions/>
    <r:childSupportCode/>
    <r:childSupportDeductions/>
    <r:studentLoansDeductions/>
    <r:kiwisaverEmployerContributions/>
    <r:kiwisaverDeductions/>
    <r:taxCreditPayrollDonations/>
    <r:esctDeducted/>
    <r:familyTaxCredits/>
  </r:employee>
</r:employeeFields>
<r:totalGrossEarnings/>
<r:totalEarningsNotLiableACC/>
<r:totalPAYESchedularTaxDeductions/>
<r:totalChildSupportDeductions/>
<r:totalStudentLoansDeductions/>
<r:totalKiwisaverEmployerContributions/>
<r:totalKiwisaverDeductions/>
<r:totalTaxCreditPayrollDonations/>
<r:totalESCTDeducted/>
<r:totalFamilyTaxCredits/>
<r:totalAmountPayable/>
</rc:formFields>
</rc:fileBody>
</r:fileRequest>
  
```

Fields	Requirement	Description
<b>submissionKey</b>	Optional	This field only be used when amending EI returns
<b>isReverseReplace</b>	Optional	This field is required on amendments. Signifies if amendment method is reverse/replace.
<b>payDayDate</b>	Required	Pay day date for return submission
<b>piIrdNumber</b>	Optional	PAYE Intermediary IRD Number
<b>contactName</b>	Optional	Name of payroll contact person
<b>contactPhoneNumber</b>	Optional	Payroll contact phone number
<b>contactEmail</b>	Optional	Payroll contact email
<b>lineNumber</b>	Optional	IR-generated unique line item identifier. This field should only be used when amending EI returns
<b>referenceId</b>	Optional	Unique employee reference field created by the software provider. Can be submitted on initial file, then used as the unique line item identifier for amended lines instead of using the IR-generated lineNumber.
<b>irdNumber</b>	Required	IRD number of the employee—it can be zeros if IRD number not known



Fields	Requirement	Description
<b>employeeName</b>	Required	Name of the employee
<b>taxCode</b>	Required	The tax code of the employee (see table below for list of acceptable values)
<b>employmentStartDate</b>	Optional	Employee start date
<b>employmentFinishDate</b>	Optional	Employee end date Note: field not to be supplied if there is no end date
<b>payPeriodStartDate</b>	Required	Period start date for this employee's submission
<b>payPeriodEndDate</b>	Required	Period end date for this employee's submission
<b>employeePayFrequency</b>	Optional	Pay frequency/cycle for employee (see table below for list of acceptable values)
<b>grossEarnings</b>	Optional	Gross earnings/schedular payments
<b>earningsNotLiableACC</b>	Optional	Earnings not liable for ACC earner's levy
<b>lumpSumIndicator</b>	Optional	Boolean for indicating lump sum
<b>payeSchedularTaxDeductions</b>	Optional	PAYE/schedular tax deductions
<b>childSupportCode</b>	Optional	Child support code (see table below for list of acceptable values)
<b>childSupportDeductions</b>	Optional	Child support deductions (sequenced with child support code)
<b>studentLoansDeductions</b>	Optional	Student loan deductions
<b>kiwisaverEmployerContributions</b>	Optional	Net KiwiSaver employer contributions
<b>kiwisaverDeductions</b>	Optional	KiwiSaver employee deductions
<b>taxCreditPayrollDonations</b>	Optional	Tax credits for payroll donations
<b>esctDeducted</b>	Optional	Employer superannuation contribution tax
<b>familyTaxCredits</b>	Optional—to be filled in by MSD ONLY	Family tax credits
<b>totalGrossEarnings</b>	Compulsory	Total gross earnings
<b>totalEarningsNotLiableACC</b>	Compulsory	Total earnings not liable for ACC Earner's Levy
<b>totalPAYESchedularTaxDeductions</b>	Compulsory	Total PAYE (inc. tax on schedular payments)



Fields	Requirement	Description
<b>totalChildSupportDeductions</b>	Compulsory	Total child support deductions
<b>totalStudentLoanDeductions</b>	Compulsory	Total student loan deductions
<b>totalKiwisaverEmployerContributions</b>	Compulsory	Total net KiwiSaver employer contributions
<b>totalKiwisaverDeductions</b>	Compulsory	Total KiwiSaver deductions
<b>totalTaxCreditPayrollDonations</b>	Compulsory	Tax credit payroll donations total
<b>totalESCTDeductions</b>	Compulsory	Total ESCT deducted
<b>totalFamilyTaxCredits</b>	Compulsory	Total Family Tax Credits
<b>totalAmountPayable</b>	Optional	Total amount payable

Tax codes		
<b>CAE</b>	<b>EDW</b>	<b>ESS</b>
<b>MESL</b>	<b>MSL</b>	<b>ND</b>
<b>SB</b>	<b>SBSL</b>	<b>SH</b>
<b>SLCIR</b>	<b>SSL</b>	<b>ST</b>
<b>WT</b>	<b>M</b>	<b>ME</b>
<b>NSW</b>	<b>S</b>	<b>SHSL</b>
<b>SLBOR</b>	<b>STC</b>	<b>STSL</b>

Child support code	Description
<b>C</b>	Ceased Employment
<b>A</b>	Advanced Payment
<b>P</b>	Protected Earnings
<b>S</b>	Short Term Absence
<b>D</b>	Deducted Previously
<b>O</b>	Other

Employee pay frequency	Description
<b>WK</b>	Weekly
<b>4W</b>	Four-weekly
<b>FT</b>	Fortnightly
<b>MT</b>	Monthly
<b>DA</b>	Daily
<b>AH</b>	Ad hoc/Irregular
<b>HM</b>	Half-monthly (twice a month)

A submissionKey will be provided on file operations of EI returns. This submissionKey will be used to identify the specific EI return on a given filing period for amendment, status and retrieve return requests.





### 3.1.3.1 Amendment methods

There are three ways to amend an EI return. All three necessitate populating submissionKey, setting isAmended to true, and filling out amendReason/amendDetails.

1. **lineNumber method:** lineNumbers must be provided for amended lines, which are obtained by the retrieveReturn operation. Only lines that require amendments should be provided. New line items should not include line numbers.
2. **referenceId method:** referenceId must be provided for amended lines, referenceId field are submitted with the initial return. referenceId is then used to uniquely identify individual line items. Only lines that require amendments should be provided. New line items can be submitted using a new referenceId. There is no way to amend the referenceId itself with this method. If a new referenceId is submitted in an attempt to amend a previously submitted referenceId, that line will be treated as new. If both lineNumber and referenceId are submitted for the same line, referenceId will take priority.
3. **Reverse/Replace method:** isReverseReplace must be set to true. The previous return on file for the specified submissionKey will be replaced with this return. Rules work exactly as if it were a new submission. All line items, not just lines that require amendments, must be provided. lineNumbers should not be provided and referenceId is optional.

Sample response on successful EI file operations:

```
<fileResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <StatusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage></errorMessage>
  </StatusMessage>
  <responseBody>
    <gatewayId>0000 002J ZJ5N 6</gatewayId>
    <submissionKey>1829404672</submissionKey>
  </responseBody>
</fileResponse>
```

## 3.2 Prepop

The Prepop operation will be used to acquire a specific subset of fields for a given return. This operation uses the <retrieveFormInfoRequest> structure for the request which will have a unique response across tax types.

<retrieveFormInfoRequest> structure:

```
<rc:formInfoRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="NZBN">9412345678900</cmn:identifier>
```



```

    <cmn:accountType>INC</cmn:accountType>
    <rc:periodEndDate>2018-01-31</rc:periodEndDate>
    <rc:majorFormType>SOA</rc:majorFormType>
  </rc:formInfoRequest>

```

### 3.2.1 GST usage

If the requested customer qualifies for provisional tax, then the XML response will include provisional data—otherwise it will only include standard GST fields.

**<prepopResponse>** structure:

```

<prepopResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnGST.v1"
    xsi:type="r:PrepopResponseBodyType">
    <r:accountId>123456798GST001</r:accountId>
    <r:periodEndDate>2018-01-31</r:periodEndDate>
    <r:filingFrequency>Two monthly – periods ending odd months</r:filingFrequency>
    <r:dueDate>2018-02-28</r:dueDate>
    <r:multiBranch>>false</r:multiBranch>
    <r:expectedMinorFormType>101A</r:expectedMinorFormType>
    <r:provFiler>>true</r:provFiler>
    <r:provOption>ratio</r:provOption>
    <r:compulsory>>true</r:compulsory>
    <r:provTaxInstalmentAmount>123</r:provTaxInstalmentAmount>
    <r:ratioTaxPercent>40.1</r:ratioTaxPercent>
    <r:hospiceFiler>>true</r:hospiceFiler>
    <r:hospiceType>HOSPTEL</r:hospiceType>
  </responseBody>
</prepopResponse>

```

Field	Requirement	Description
<b>accountId</b>	Required	The account ID for the account
<b>periodEndDate</b>	Required	End date for the filing period
<b>filingFrequency</b>	Required	The filing frequency for this account
<b>dueDate</b>	Required	The due date for the return
<b>multiBranch</b>	Required	If the customer is a multi-branch filer
<b>expectedMinorFormType</b>	Required	The minor form type the customer is expected to file
<b>provFiler</b>	Required	If the customer is a provisional filer
<b>provOption</b>	Optional	The provisional type of the customer
<b>compulsory</b>	Optional	If the customer is a compulsory filer
<b>provTaxInstalmentAmount</b>	Optional	The instalment amount for provisional filers
<b>ratioTaxPercent</b>	Optional	The tax percentage if the customer is a ratio provisional filer



Field	Requirement	Description
<b>hospiceFiler</b>	Optional	If the customer is a hospice filer
<b>hospiceType</b>	Optional	The hospice type of the customer

The Prepop operation will be used to acquire a specific subset of GST fields for a return. If the requested customer qualifies for provisional tax, then the XML response will include provisional data—otherwise it will only include standard GST fields. If there is no data for a specific field, that field will not be returned in the prepop response (MinOccurs = 0).

### 3.2.2 AIM usage

When using the pre-population service for AIM, the tax type will be INC and the majorFormType will be SOA (for Statement of Account). The response body will only be populated if the customer is eligible for AIM.

**<prepopResponse>** structure:

```
<prepopResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnAIM.v1"
    xsi:type="r:PrepopResponseBodyType">
    <r:irdNumber>123456789</r:irdNumber>
    <r:filingFrequency>Two Monthly Odd</r:filingFrequency>
    <r:returnPeriodDate>2018-04-30</r:returnPeriodDate>
    <r:returnType>IR4</r:returnType>
    <r:balanceDate>2018-03-31</r:balanceDate>
    <r:periodBalance>1000.54</r:periodBalance>
    <r:residualIncomeTax>222</r:residualIncomeTax>
    <r:totalLossCarriedForward>555</r:totalLossCarriedForward>
  </responseBody>
</prepopResponse>
```

Field	Requirement	Description
<b>irdNumber</b>	Required	The IRD number for the customer
<b>filingFrequency</b>	Required	The filing frequency of the statement of activity
<b>returnPeriodDate</b>	Required	The period of the statement
<b>returnType</b>	Required	The income tax return type
<b>balanceDate</b>	Required	The income tax balance date
<b>periodBalance</b>	Required	The income tax period balance
<b>residualIncomeTax</b>	Required	The income tax residual income tax
<b>totalLossCarriedForward</b>	Required	The income tax total losses carried forward

### 3.2.3 EI usage

All retrieve operations for EI use `<retrieveEIRequest>` instead of the standard `<retrieveFormInfoRequest>`. `retrieveEIRequest` contains the `payDayDate` and `submissionKey` fields that are used to identify a return.

**`<retrieveEIRequest>` structure:**

```
<r:retrieveEIRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="ACCIRD">123456789</cmn:identifier>
  <cmn:accountType>EMP</cmn:accountType>
  <rc:periodEndDate>2018-01-31</rc:periodEndDate>
  <rc:majorFormType>EI</rc:majorFormType>
  <r:payDayDate>2018-01-01</r:payDayDate>
</r:retrieveEIRequest>
```

Field	Requirement	Description
<b>payDayDate</b>	Required	The pay day period of the return
<b>submissionKey</b>	Not used	submissionKey is not used for the prepop operation, and should not be submitted

**`<prepopResponse>` structure:**

```
<prepopResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
    xsi:type="r:PrepopResponseBodyType">
    <r:accountId>123456798EMP001</r:accountId>
    <r:employee>
      <r:irdNumber>123456789</r:irdNumber>
      <r:employeeName>MarkTwain</r:name>
      <r:taxCode>M</r:taxCode>
      <r:employmentStartDate></r:employmentStartDate>
      <r:employmentFinishDate></r:employmentEndDate>
    </r:employee>
    <r:employee>
      <r:irdNumber>123456789</r:irdNumber>
      <r:employeeName>SamualClemens</r:name>
      <r:taxCode>M</r:taxCode>
    </r:employee>
  </r:responseBody>
</prepopResponse>
```



Field	Description
<b>irdNumber</b>	The IRD number of the employee—if no IRD number is available, 000000000 will be returned
<b>employeeName</b>	The name of the employee is known as on the EI (20 characters )
<b>taxCode</b>	The tax code under which the employee falls
<b>employmentStartDate</b>	The start date of the employment (if date is not known, nothing will be returned)
<b>employmentFinishDate</b>	The cease date of the employment (if employment is still on-going, nothing will be returned)

### 3.3 RetrieveStatus

The RetrieveStatus operation will allow the status of a given return to be queried. The request and response structures are the same for all tax types.

**<retrieveFormInfoRequest>** structure:

```
<rc:formInfoRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnGST.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="NZBN">9412345678900</cmn:identifier>
  <cmn:accountType>GST</cmn:accountType>
  <rc:periodEndDate>2018-01-31</rc:periodEndDate>
  <rc:majorFormType>GST</rc:majorFormType>
</rc:formInfoRequest>
```

**<retrieveStatusResponse>** structure:

```
<retrieveStatusResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody>
    <status>Processed</status>
  </responseBody>
</retrieveStatusResponse>
```

Status	Description
<b>Amended</b>	This status is displayed when the return is amended
<b>Under review</b>	This status is displayed when the return is included in audit
<b>Default assessment</b>	This status is displayed when the return is a default assessment



Status	Description
<b>Converted-penalty</b>	This status is displayed when the return was not filed but created in the conversion process to house a late file penalty
<b>Expected</b>	This status is displayed when the return has generated return expectation
<b>Processing</b>	This status is displayed when the return is processing
<b>Late-processing</b>	This status is displayed when the return is received late and processing
<b>Late-processed</b>	This status is displayed when the return is processed late
<b>Late-received</b>	This status is displayed when the return is received late
<b>New</b>	This status is displayed when the return is not processed
<b>Optional</b>	This status is displayed when the return is not required to be filed, but the customer may choose to file anyway
<b>Ontime-processing</b>	This status is displayed when the return is received on time and processing
<b>Ontime-processed</b>	This status is displayed when the return is processed on time
<b>Ontime-received</b>	This status is displayed when the return is received on time
<b>Overdue</b>	This status is displayed when the return is overdue
<b>Submission received</b>	This status is displayed when the EI return has been received and initial processing has completed. During co-existence, the EI return will be held and forwarded for further processing at the end of the period.
<b>Submitted</b>	This status is displayed when the return is submitted by the customer
<b>Posted</b>	This status is displayed when the return is posted
<b>Processed</b>	This status is displayed when the return is processed

NOTE: Once a return has been filed it can take up to 24 hours for the status to change from 'submitted'.

### 3.3.1 AIM usage

Although submitted via the Return service, an AIM Statement is not a return and therefore only a subset of the available statuses apply for an AIM Statement.

The following three statuses apply for checking RetrieveStatus for AIM:

Status	Description
<b>Expected</b>	This status is displayed when the filing period has a generated return expectation
<b>Overdue</b>	This status is displayed when the Statement of Activity is overdue
<b>Submitted</b>	This status is displayed when the Statement of Activity is submitted by the customer.





### 3.3.2 EI usage

All retrieve operations for EI use `<retrieveEIRequest>` instead of the standard `<retrieveFormInfoRequest>`. `retrieveEIRequest` contains the `payDayDate` and `submissionKey` fields that are used to identify a return.

**<retrieveEIRequest>** structure:

```
<r:retrieveEIRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="ACCIRD">123456789</cmn:identifier>
  <cmn:accountType>EMP</cmn:accountType>
  <rc:periodEndDate>2018-01-31</rc:periodEndDate>
  <rc:majorFormType>EI</rc:majorFormType>
  <r:payDayDate>2018-01-01</r:payDayDate>
  <r:submissionKey>34534523</submissionKey>
</r:retrieveEIRequest>
```

Field	Requirement	Description
<b>payDayDate</b>	Required	The pay day period of the return
<b>submissionKey</b>	Required	The submissionKey is required for the retrieveStatus operation. Only the status of the return with the corresponding submissionKey will displayed.

### 3.4 RetrieveReturn

The `retrieveReturn` operation allows for any previously-submitted return to be viewed.

**<retrieveFormInfoRequest>** structure:

```
<rc:formInfoRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnGST.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="NZBN">9412345678900</cmn:identifier>
  <cmn:accountType>GST</cmn:accountType>
  <rc:periodEndDate>2018-01-31</rc:periodEndDate>
  <rc:majorFormType>GST</rc:majorFormType>
</rc:formInfoRequest>
```



### 3.4.1 GST usage

The RetrieveReturn operation is used to acquire a full GST return. The RetrieveReturn response is delivered in the same format as the File request. For details on the fields returned here, see [Section 3.1.1](#).

**<retrieveReturnResponse>** structure:

```
<retrieveReturnResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnGST.v1"
    xsi:type="r:RetrieveReturnResponseBodyType">
    <r:standardFields>
      <isNilReturn xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"/>
    </r:standardFields>
    <r:formFields>
      <r:gstSpecificFields>
        <r:totalSales></r:totalSales>
        <r:zeroRatedSupplies></r:zeroRatedSupplies>
        <r:debitAdjustments>
          <r:privateUsePeriodAdjustment></r:privateUsePeriodAdjustment>
          <r:privateUseOneOff></r:privateUseOneOff>
          <r:assetsAfterCease></r:assetsAfterCease>
          <r:entertainment></r:entertainment>
          <r:changeAccountingBasis></r:changeAccountingBasis>
          <r:exemptSupplies></r:exemptSupplies>
          <r:currentRateGSTAdjustments></r:currentRateGSTAdjustments>
          <r:other></r:other>
        </r:debitAdjustments>
        <r:totalExpenses></r:totalExpenses>
        <r:creditAdjustments>
          <r:useOfPrivateGoods></r:useOfPrivateGoods>
          <r:privateAssetsForBusiness></r:privateAssetsForBusiness>
          <r:changeAccountingBasis></r:changeAccountingBasis>
          <r:currentRateGSTCredits></r:currentRateGSTCredits>
          <r:other></r:other>
        </r:creditAdjustments>
        <r:totalGST></r:totalGST>
      </r:gstSpecificFields>
      <r:provSpecificFields>
        <r:ratioTaxPercent></r:ratioTaxPercent>
        <r:ratioLastMonthTotalSales></r:ratioLastMonthTotalSales>
        <r:ratioMultiBranchTotalSales></r:ratioMultiBranchTotalSales>
        <r:ratioAssetAdjustment></r:ratioAssetAdjustment>
        <r:voluntaryPayment></r:voluntaryPayment>
        <r:provTaxInstalmentAmount>123.45</r:provTaxInstalmentAmount>
        <r:refundTransferAmountToProv></r:refundTransferAmountToProv>
        <r:totalGSTandProvToPay>12345.56</r:totalGSTandProvToPay>
      </r:provSpecificFields>
    </r:formFields>
  </r:responseBody>
</retrieveReturnResponse>
```





### 3.4.2 AIM usage

For details on the fields returned here, see [Section 3.1.2](#) of this document.

**<retrieveReturnResponse>** structure:

```
<retrieveReturnResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnAIM.v1"
    xsi:type="r:RetrieveReturnResponseBodyType">
    <r:standardFields>
      <isNilReturn xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"/>
    </r:standardFields>
    <r:formFields>
      <r:aimInstalmentDate></r:aimInstalmentDate>
      <r:grossSalesAndServiceIncome></r:grossSalesAndServiceIncome>
      <r:openingStock></r:openingStock>
      <r:purchases></r:purchases>
      <r:closingStock systemAdjustedValue="" userAdjustedValue=""></r:closingStock>
      <r:grossProfit></r:grossProfit>
      <r:interestReceived></r:interestReceived>
      <r:dividendsReceived></r:dividendsReceived>
      <r:rentLeaseLicenceIncome></r:rentLeaseLicenceIncome>
      <r:otherIncome></r:otherIncome>
      <r:badDebts></r:badDebts>
      <r:depreciationAndAmortisation></r:depreciationAndAmortisation>
      <r:insurance></r:insurance>
      <r:interestExpense></r:interestExpense>
      <r:fees></r:fees>
      <r:rates></r:rates>
      <r:rentsLeasesLicences></r:rentsLeasesLicences>
      <r:repairsAndMaintenance></r:repairsAndMaintenance>
      <r:researchAndDevelopment></r:researchAndDevelopment>
      <r:relatedPartyRemuneration></r:relatedPartyRemuneration>
      <r:salariesAndWages></r:salariesAndWages>
      <r:contractorPayments></r:contractorPayments>
      <r:otherExpenses></r:otherExpenses>
      <r:exceptionalItems></r:exceptionalItems>
      <r:netProfitLossBeforeTax></r:netProfitLossBeforeTax>
      <r:taxAdjustments></r:taxAdjustments>
      <r:currentYearTaxableProfitLoss></r:currentYearTaxableProfitLoss>
      <r:accountsReceivable systemAdjustedValue="" userAdjustedValue=""></r:accountsReceivable>
      <r:cashAndDeposits></r:cashAndDeposits>
      <r:otherCurrentAssets></r:otherCurrentAssets>
      <r:vehicles></r:vehicles>
      <r:plantAndMachinery></r:plantAndMachinery>
      <r:furnitureAndFittings></r:furnitureAndFittings>
      <r:land></r:land>
      <r:buildings></r:buildings>
      <r:otherFixedAssets></r:otherFixedAssets>
      <r:intangibles></r:intangibles>
      <r:sharesAndOwnershipInterests></r:sharesAndOwnershipInterests>
      <r:termDeposits></r:termDeposits>
      <r:otherNonCurrent></r:otherNonCurrent>
      <r:provisions systemAdjustedValue="" userAdjustedValue=""></r:provisions>
      <r:provisionsForShareholderSalaries adjustedBy=" unadjustedValue=""></r:provisionsForShareholderSalaries>
      <r:accountsPayable systemAdjustedValue="" userAdjustedValue=""></r:accountsPayable>
      <r:currentLoans></r:currentLoans>
    </r:formFields>
  </responseBody>
</retrieveReturnResponse>
```



```

    <r:otherCurrentLiabilities></r:otherCurrentLiabilities>
    <r:nonCurrentLiabilities></r:nonCurrentLiabilities>
    <r:ownersEquity></r:ownersEquity>
    <r:taxDepreciation systemAdjustedValue="" userAdjustedValue=""/>
    <r:unTaxedRealisedGainsAndReceipts/>
    <r:additionsToFixedAssets></r:additionsToFixedAssets>
    <r:disposalOfFixedAssets></r:disposalOfFixedAssets>
    <r:depreciationRecovered systemAdjustedValue="" userAdjustedValue=""/>
    <r:losses></r:losses>
    <r:privateUse systemAdjustedValue="" userAdjustedValue=""></r:privateUse>
    <r:dividendsPaid></r:dividendsPaid>
    <r:drawings></r:drawings>
    <r:currentAccountYearEndBalances/>
    <r:taxDeductibleLossOnDisposalOfFixedAssets/>
    <r:otherAdjustments>
      <r:adjustments>
        <r:amount/>
        <r:description/>
      <r:adjustments/>
    <r:otherAdjustments/>
    <r:yearToDateProvTaxLiability></r:yearToDateProvTaxLiability>
    <r:thisInstalment></r:thisInstalment>
    <r:shareholderProvTax></r:shareholderProvTax>
    <r:refundAmount></r:refundAmount>
    <r:refundIndicator></r:refundIndicator>
  </r:formFields>
</r:responseBody>
</r:retrieveReturnResponse>

```

### 3.4.3 EI usage

For details on the fields returned here, see [section 3.2.3](#) of this document.

All retrieve operations for EI use <retrieveEIRequest> instead of the standard <retrieveFormInfoRequest>. retrieveEIRequest contains the payDayDate and submissionKey fields that are used to identify a return.

**<retrieveEIRequest>** structure:

```

<r:retrieveEIRequest xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareCompany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="ACCIRD">123456789</cmn:identifier>
  <cmn:accountType>EMP</cmn:accountType>
  <rc:periodEndDate>2018-01-31</rc:periodEndDate>
  <rc:majorFormType>EI</rc:majorFormType>
  <r:payDayDate>2018-01-01</r:payDayDate>
  <r:submissionKey>34534523</r:submissionKey>
</r:retrieveEIRequest>

```



Field	Requirement	Description
<b>payDayDate</b>	Required	The pay day period of the return
<b>submissionKey</b>	Optional	If submissionKey is provided, only the return with that submission key will be displayed. If only a payDayDate is provided, all returns with the corresponding payDayDate will be provided.

**<retrieveReturnResponse>** structure:

```

<retrieveReturnResponse xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1">
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody xmlns:r="urn:www.ird.govt.nz/GWS:types/ReturnEI.v1"
    xsi:type="r:RetrieveReturnResponseBodyType">
    <r:standardFields>
      <isNilReturn xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"/>
    </r:standardFields>
    <r:formFields>
      <r:employeeFields>
        <r:employee>
          <r:irdNumber></r:irdNumber>
          <r:employeeName></r:employeeName>
          <r:taxCode></r:taxCode>
          <r:payPeriodStartDate></r:payPeriodStartDate>
          <r:payPeriodEndDate></r:payPeriodEndDate>
        </r:employee>
        <r:employee>
          <r:irdNumber></r:irdNumber>
          <r:employeeName></r:employeeName>
          <r:taxCode></r:taxCode>
          <r:payPeriodStartDate></r:payPeriodStartDate>
          <r:payPeriodEndDate></r:payPeriodEndDate>
        </r:employee>
      </r:employeeFields>
    </r:formFields>
  </r:responseBody>
</r:retrieveReturnResponse>
  
```

### 3.5 RetrieveFilingObligation

The retrieveFilingObligation operation is used to retrieve the date on which the next return is due, as well as any overdue returns for a specified account. This operation has the same request and response structure for all tax types.

Please note that for EI the RetrieveFilingObligations will not act the same way that it does for other tax types. For those who have already submitted a payroll for a given filing period, the current period will not be returned by this operation. Even if other payrolls with more employees are required for this account, RetrieveFilingObligations will only look to see if a payroll already exists on the period.



**<retrieveFilingObligationsRequest>** structure:

```
<rc:retrieveFilingObligationsRequest
  xmlns:cmn="urn:www.ird.govt.nz/GWS:types/Common.v1"
  xmlns:rc="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:www.ird.govt.nz/GWS:types/ReturnGST.v1">
  <cmn:softwareProviderData>
    <cmn:softwareProvider>SoftwareComany</cmn:softwareProvider>
    <cmn:softwarePlatform>SoftwarePlatform</cmn:softwarePlatform>
    <cmn:softwareRelease>V1.1</cmn:softwareRelease>
  </cmn:softwareProviderData>
  <cmn:identifier IdentifierValueType="ACCIIRD">123456789</cmn:identifier>
  <cmn:accountType>GST</cmn:accountType>
  <rc:majorFormType>GST</rc:majorFormType>
</rc:retrieveFilingObligationsRequest>
```

**<retrieveFilingObligationsResponse>** structure:

```
<retrieveFilingObligationsResponse
xmlns="urn:www.ird.govt.nz/GWS:types/ReturnCommon.v1">
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v1" >
    <statusCode>0</statusCode>
    <errorMessage>Success</errorMessage>
  </statusMessage>
  <responseBody>
    <filingObligation>
      <periodEndDate>2017-01-31</periodEndDate>
      <status>Overdue</status>
      <dueDate>2017-02-15</dueDate>
    </filingObligation>
    <filingObligation>
      <periodEndDate>2018-06-30</periodEndDate>
      <status>Expected</status>
      <dueDate>2018-07-15</dueDate>
    </filingObligation>
  </responseBody>
</retrieveFilingObligationsResponse>
```

### 3.5.1 EI usage

The retrieveFilingObligations operation is not available for the EI minor form type.

## 4 End points, schemas and WSDLs

**IMPORTANT:** The end points, schemas and WSDLs listed here are subject to change. For the authoritative definitions, please refer to the information provided on the Inland Revenue Gateway Services GitHub site: <https://github.com/InlandRevenue/Gateway-Services>

### 4.1 End points

The end points for the Digital Test Environment XZT:

Service	Environment	URL
<b>Authentication</b>	Cloud*	<a href="https://q.services.ird.govt.nz">https://q.services.ird.govt.nz</a>
	Desktop/native app	<a href="https://q.services.ird.govt.nz">https://q.services.ird.govt.nz</a>
<b>Gateway Services</b>	Cloud*	<a href="https://xzt.services.ird.govt.nz:4046/gateway/gws/returns/">https://xzt.services.ird.govt.nz:4046/gateway/gws/returns/</a>
	Desktop/native app	<a href="https://xzt.services.ird.govt.nz/gateway2/gws/returns/">https://xzt.services.ird.govt.nz/gateway2/gws/returns/</a>

The end points for the Digital Test Environment XZS:

Service	Environment	URL
<b>Authentication</b>	Cloud/desktop/native apps	<a href="https://q.services.ird.govt.nz">https://q.services.ird.govt.nz</a>
<b>Gateway Services</b>	Cloud*	<a href="https://xzs.services.ird.govt.nz:4046/gateway/gws/returns/">https://xzs.services.ird.govt.nz:4046/gateway/gws/returns/</a>
	Desktop/native app	<a href="https://xzs.services.ird.govt.nz/gateway2/gws/returns/">https://xzs.services.ird.govt.nz/gateway2/gws/returns/</a>

The end points for Production are as follows:

Service	Environment	URL
<b>Authentication</b>	Cloud/desktop/native apps	<a href="https://services.ird.govt.nz:443">https://services.ird.govt.nz:443</a>
<b>Gateway Services</b>	Cloud*	<a href="https://services.ird.govt.nz:4046/gateway/gws/returns/">https://services.ird.govt.nz:4046/gateway/gws/returns/</a>
	Desktop/native app	<a href="https://services.ird.govt.nz/gateway2/gws/returns/">https://services.ird.govt.nz/gateway2/gws/returns/</a>

\*Please note that only the end points for cloud-based connections are currently available.



## 4.2 Schemas

All schemas for the Return service import a common.xsd which has some data types specific to Inland Revenue. This common.xsd will be used in other gateway services outside of the /Returns/ namespace so it must be kept up-to-date, without numerous redundant versions remaining.

The ReturnCommon.xsd imports the Common.xsd and creates data types to be used across all tax types and return types. ReturnCommon.xsd also includes two request elements and two response elements. These requests are retrieveFormInfoRequest and retrieveFilingObligationsRequest, while the responses are retrieveFilingObligationsResponse and retrieveStatusResponse.

The reason for adding root-level elements in the ReturnCommon.xsd is due to the fact that these request and response structures will never change, regardless of the tax type. This allows Inland Revenue to keep a uniform request and response structure across all current and future tax types.

Importing from ReturnCommon.xsd will be schemas that require more fine grained detail. These will primarily define the request for the File operation, the response for RetrieveReturn and the response for Prepop.

## 4.3 WSDLs

The Returns Gateway Service has one WSDL, which has a target namespace of <https://services.ird.govt.nz/GWS/Returns> and can be found at

<https://services.ird.govt.nz/GWS/Returns?singleWsdl>.

All WSDL messages follow this naming convention:

Return\_<operation>\_InputMessage or Return\_<operation>\_OutputMessage.

```
<wsdl:portType name="Return">
  <wsdl:operation name="File">
  <wsdl:operation name="Prepop">
  <wsdl:operation name="RetrieveStatus">
  <wsdl:operation name="RetrieveFilingObligations">
  <wsdl:operation name="RetrieveReturn">
</wsdl:portType>
<wsdl:service name="Return">
```

A development version of the WSDL is provided with this build pack. For easier WSDL consumption, the <xs:any> structure has been replaced with a reference to the corresponding element in the Employment.xsd. This will allow any tools that consume the WSDL to automatically pull in the data structures from the XSD. To use this, ensure the WSDL provided by Inland Revenue is in the same directory as Common.xsd and Employment.xsd.

Note: The WSDL hosted at the end point above will not contain these XSD references, only the static WSDL provided on our GitHub page.



## 5 Responses

The response message from the Gateway Services will always include a status code and status message. These values will describe the successes or failures of your web service call. Following the status message will be the responseBody, which will return the data for the given operation.

### 5.1 Generic gateway response codes

The following response codes are common to all gateway service calls. The operations on the Return Service all have framework security validation applied at Account level and that is reflected in the descriptions of the codes below:

Standard codes	Standard message	Description
<b>-1</b>	An unknown error has occurred	This error will be logged by the Gateway Services and evaluated the next business day
<b>0</b>		0 indicates a successful web service call. Note: 0 does not display a standard message.
<b>1</b>	Authentication failure	Authentication failure means the token provided is not a valid token
<b>2</b>	Missing authentication token(s)	No OAuth token in HTTP header
<b>3</b>	Unauthorised access	The logon making the call does not have access to make the request on behalf of the client or agency
<b>4</b>	Unauthorised delegation	Access is not permitted for the requester to perform this operation for the submitted identifier. This code will be returned in any of these situations: <ul style="list-style-type: none"> <li>The submitted cmn:identifier has an invalid value.</li> <li>The identifier type (IdentifierValueType attribute on cmn:identifier) supplied is invalid.</li> <li>The AccountType supplied does not exist for that identifier.</li> <li>All the values above are valid but the provided OAuth token does not have delegated access to that Customer or Account.</li> </ul>
<b>5</b>	Unauthorised vendor	The vendor provided is not authorised to use these suite of services
<b>6</b>	Authentication expired	Token authentication has expired and needs to be refreshed, this will only occur if a token has already been used and expires on the same business day as it is used.





Standard codes	Standard message	Description
<b>7</b>	Account type not supported	This code will be returned for queries on account types not supported in any gateway services web services. For April 2018 this will be any account type other than AIL, AIP, BPA, MPO, CRS, DWT, FAT, FBT, GMD, GSD, GST, INC, IPS, NRT, PIE, PRS, PSO, EMP, RLT, RWT.  For specific services some of the account types above may not be supported—please see the related documentation and the service-specific response codes below.
<b>20</b>	Unrecognised XML request	The XML submitted is not recognisable and no schema can be determined
<b>21</b>	XML request failed validation	The XML structure did not meet the definition laid out by the schemas published by Inland Revenue
<b>(none)</b>	(non xml)	In some scenarios where the request message does not have a well formed XML structure or is not valid or does not adhere to the SOAP protocol formats, the framework generates a parsing exception that is not wrapped in XML nor has a response status code.
<b>(none)</b>	(SOAP fault) UnAuthorised	When maximum concurrency has been exceeded by Service Provider this SOAP Fault will be returned

## 5.2 Generic returns response codes

The following response codes are specific to returns gateway service calls:

Standard codes	Standard message	Description
<b>100</b>	Invalid request data	Could not extract data from xml payload
<b>101</b>	Unable to file return	An error has occurred while filing return. This may be due to invalid information in the specific return form fields.
<b>102</b>	ID/Account type not valid	The account type/ ID submitted does not exist
<b>103</b>	No return found	No return exists on the selected filing period
<b>104</b>	Invalid filing period	The periodEndDate did not match a valid filing period for the account
<b>105</b>	No filing obligations found	No valid filing obligations were found. This could be completely acceptable if they were not expecting to have any filing obligations.
<b>106</b>	Operation not available for major form type	The operation performed does not exist for the major form type submitted.
<b>107</b>	Duplicate return	There is already a return for this period/paydate (for EI). An amendment to a return that has





Standard codes	Standard message	Description
		already been submitted must be submitted with isAmended as true.

### 5.3 AIM-specific response codes

The following response codes are specific to AIM gateway service calls:

Standard codes	Standard message	Description
<b>110</b>	Customer not identified	The ID submitted does not exist
<b>111</b>	Customer is ineligible for AIM Statement of Activity	Inland Revenue has indicated this Customer is ineligible for AIM
<b>112</b>	Invalid entity type	Valid Customer Subtypes are: "COMPNY", "INDVDL", "SOCITY", "UNTTST" and Customer must not be part of a Consolidated Group
<b>113</b>	Period not provided	Filing Period does not exist or was not provided
<b>114</b>	Invalid period	Period occurs before Gateway Services go-live
<b>115</b>	Instalment date not provided	Instalment date does not exist or was not provided
<b>116</b>	Invalid instalment date	Invalid Instalment date based on provided Filing Period
<b>117</b>	Missing previous statement	Previous Statement must be provided before subsequent Statement (example: March must be filed before April)
<b>118</b>	Duplicate statement of activity	Statement of Activity already exists for provided Customer and Period
<b>119</b>	Customer not enrolled in AIM	Customer tried to retrieve a return when they are not enrolled in AIM
<b>120</b>	Ratio return has been filed for this tax year	Customer has filed a GST Ratio Return this tax year
<b>122</b>	Transitional year processing error	Customer is in an income tax transitional year
<b>123</b>	Income tax account inactive	Customer currently has an inactive income tax account

### 5.4 EI-specific response codes

The following response codes are specific to EI gateway service calls:



Standard codes	Standard message	Description
<b>131</b>	Duplicate line items	There were two line items with the same number in the same submission
<b>132</b>	Reverse/replace can only be used for an amendment	Customer tried to reverse/replace a return without amending the return



## 6 Processing flows

### 6.1 Generic use cases

This section will convey how Inland Revenue intends the Gateway Services to be used. These are base cases and Inland Revenue recognises that these services can be used in many different ways to satisfy business needs.

Additional information on use cases is available in the associated on-boarding pack.

#### 6.1.1 Preparing a return

Scenario 1:

- 1) The user prepares to generate a return for the next filing obligation.
- 2) The user runs Returns/RetrieveFilingObligations to see the next obligation and the due date.
- 3) Taking the next filing period due, the software calls Returns/Prepop on that account.
- 4) The user now has a new return for the next filing period with prepop fields populated.

Scenario 2:

- 1) The user prepares to generate return for the next filing obligation.
- 2) The user runs Returns/RetrieveFilingObligations to see the next obligation and the due date.
- 3) The software prepopulates the return with locally-stored data.
- 4) Once the return is ready to be filed, Returns/Prepop will be run to ensure local data was up-to-date.

#### 6.1.2 Filing a return

Scenario 1:

- 1) The user has generated a return, pre-populated data, and filled out the remaining form fields.
- 2) Once the return is ready to submit, the user attempts to send the request. The software will call Returns/RetrieveStatus.
  - a. If the RetrieveStatus response says that there is no return due for the period (or paydate) in question, the software should then prompt the user to see if the return is an amendment.
  - b. If the return is not an amendment, the software should not allow the submission of a duplicate return.
- 3) Once the return is deemed acceptable by the software, Returns/File should be executed.
- 4) Returns/RetrieveStatus can be called, which will respond with "Submitted", and it will not be processed until the nightly batch runs.
- 5) Returns/RetrieveFilingObligations can be called to show the recently-submitted filing period no longer is due.



## Scenario 2:

- 1) A tax agent has generated multiple returns, pre-populated all data, and filled out forms for many clients.
- 2) Once the tax agent is ready to submit the group of returns, the software will run the same checks from Scenario 1 for all returns the agent is attempting to file.
- 3) When deemed ready, the software will make one call to Returns/File for each return being submitted.
- 4) Returns/RetrieveStatus can be called, which will respond with "Submitted", and it will not be processed until the nightly batch runs.
- 5) Returns/RetrieveFilingObligations can be called to show the recently-submitted filing period no longer is due.

### 6.1.3 Retrieving standard user data

## Scenario 1:

- 1) Once the user is logged in, their account will be shown to them.
- 2) The software will make a call to Returns/RetrieveStatus for the most recent filing obligation and to Returns/RetrieveFilingObligations.
- 3) The response from retrieve status will be displayed as the status of the most recent return.
- 4) The response from retrieving the filing obligations will show any overdue filing obligations, as well as the next filing period due date.

### 6.1.4 Filing an amended return

## Scenario 1:

- 1) A return was filed and there was a mistake on the return.
- 2) The user can retrieve the previously-submitted return, calling Returns/RetrieveReturn.
- 3) Then a new return would be generated either as an amended return or a standard return.
- 4) The recently-retrieved return would be used to fill out the new form with the necessary changes made.
- 5) If the return is filled out as an amendment the return can be submitted using Returns/File with an amended reason and amended description.
- 6) If a standard return submission is submitted then the steps in Scenario 1 of [section 6.1.2](#) will apply.



## 6.2 GST-specific use cases

### 6.2.1 Preparing to off-board client (for tax agents)

Scenario 1:

- 1) The tax agent will select to reconcile a client's account.
- 2) The software will call Returns/RetrieveFilingObligations.
  - a. If there are no overdue returns and the agent is not responsible for the next filing obligation, then the software can show the account is reconciled.
  - b. If there are any overdue returns or the tax agent is obligated to file the next due return, then the software should show actions required.
- 3) For agency records, the tax agent may want to call Returns/RetrieveReturn for the most recently submitted return, in case of any complications with Inland Revenue and the return contents.
- 4) The tax agent will then be safe to delink the client from their agency via myIR.

## 6.3 AIM-specific use cases

### 6.3.1 Retrieve income tax details for AIM customers

Scenario 1:

- 1) The software will call Returns/Prepop.
  - a. If the customer is eligible for AIM, a status code of 0 and a response will be returned with the income tax details.
  - b. If the customer is ineligible for AIM, a status code and error message will be returned.
- 2) After successfully receiving a response from Returns/Prepop, Returns/File can be safely called for the customer and the SOA major form type.

## 6.4 EI-specific use cases

### 6.4.1 Amending an EI return

Scenario 1:

- 1) One or more of the following apply for a previously submitted EI return:
  - Information included was incorrect (amounts, tax codes for example);
  - Employees were missed off the EI return;
  - Employees were incorrectly included on the EI return.
- 2) The user either:
  - Retrieves the previously submitted EI return, calling Returns/RetrieveReturn, and amends that, or;
  - Generates a new EI return form with the correct information.
- 3) The user sets the isReverseReplace and isAmended fields to True.
- 4) The user submits using the submissionKey that was allocated to the EI return when it was originally submitted.



#### 6.4.2 Reversing an EI return

Scenario 1:

- 1) One of more apply for a previously submitted EI return:
  - The EI return was submitted with an incorrect payDayDate;
  - The EI return was a duplicate return submitted in error.
- 2) The user generates a new EI return form without any employeeFields.
- 3) The user sets the isReverseReplace and isAmended fields to True.
- 4) The user submits using the submissionKey that was allocated to the EI return when it was originally submitted.

#### 6.4.3 Amend employee information using lineNumber

Scenario 1:

- 1) A previously submitted EI return had incorrect information for an employee.
- 2) The user retrieves the previously submitted EI return, calling Returns/RetrieveReturn, and gets the lineNumber for that employee.
- 3) The user generates employeeFields data for that employee.
- 4) The user submits the new data with the lineNumber for that employee and the submissionKey that was allocated to the EI return when it was originally submitted.

#### 6.4.4 Amend employee information using referenceID

Scenario 1:

- 1) A previously submitted EI return had incorrect information for an employee.
- 2) The user generates employeeFields data for that employee.
- 3) The user submits the new data with the referenceID for that employee and the submissionKey that was allocated to the EI return when it was originally submitted.

#### 6.4.5 Filing a Nil EI

Scenario 1:

- 1) A Nil EI is required to be filed if either of the following apply:
  - A customer is registered with IRD as an employer, but has no employees;
  - An employer has employees, but has not paid salary or wages to any of the employees for a paydate.
- 2) To file a Nil EI, the user sets the isNilreturn field to True and zeros are put in all the compulsory formFields to make the schema valid.
- 3) Once the return is deemed acceptable by the software, Returns/File should be executed.



## 7 Appendix A—Example scenarios

### 7.1 Managing overpayments

Scenario	Example		Statement of Activity
Customer wants the overpaid provisional tax <i>refunded</i> in full.	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = true</li> <li>refundAmount = 0 or 2000 (if refundIndicator is true, and refundAmount is 0, the entire amount will be refunded)</li> <li>No transfer instructions</li> </ul>
	Refund	\$2,000	
Customer wants a portion of the overpaid provisional tax <i>refunded</i> and the balance <i>held</i> in their income tax account.	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = true</li> <li>refundAmount = 1500</li> <li>No transfer instructions</li> </ul>
	Refund	\$1,500	
	Hold in income tax account	\$ 500	
Customer wants a portion of the overpaid provisional tax <i>refunded</i> and the balance <i>transferred</i> to another account(s).	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = true</li> <li>refundAmount = 1200</li> <li>Transfer instructions completed (eg instructions to transfer \$800)</li> </ul>
	Refund	\$1,200	
	Transfer to another account	\$ 800	
Customer wants a portion of the overpaid provisional tax <i>refunded</i> , a portion <i>transferred</i> to another account(s) and the balance <i>held</i> in their income tax account.	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = true</li> <li>refundAmount = 1000</li> <li>Transfer instructions completed (eg instructions to transfer \$200)</li> </ul>
	Refund	\$1,000	
	Transfer to another account	\$ 200	
	Hold in income tax account	\$ 800	
Customer wants all of the overpaid provisional tax <i>held</i> in their income tax account.	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = false</li> <li>refundAmount = 0</li> <li>No transfer instructions</li> </ul>
	Hold in income tax account	\$2,000	
Customer wants a portion of the overpaid provisional tax <i>held</i> in their income tax account and a portion <i>transferred</i> to another account(s).	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = false</li> <li>refundAmount = 0</li> <li>Transfer instructions completed (eg instructions to transfer \$500)</li> </ul>
	Transfer to another account	\$ 500	
	Hold in income tax account	\$1,500	



Scenario	Example		Statement of Activity
Customer wants all of the overpaid provisional tax <i>transferred</i> to another account(s).	Overpaid provisional tax	\$2,000	<ul style="list-style-type: none"> <li>refundIndicator = false</li> <li>refundAmount = 0</li> <li>Transfer instructions completed (eg instructions to transfer \$2,000)</li> </ul>
	Transfer to another account	\$2,000	





## 7.2 'Year to date' provisional liability and 'This instalment'

### Example 1:

Customer's accounting income (and therefore their provisional tax liability) is increasing during the year.

The AIM-capable software calculates the year to date provisional tax liability and the amount due (if any) at each instalment date.

Statement of Activity	Instalment 1	Instalment 2	Instalment 3	Instalment 4	Instalment 5	Instalment 6
Year to date provisional tax liability	\$1,000	\$1,700	\$3,000	\$10,000	\$16,000	\$23,000
This instalment	\$1,000	\$700	\$1,300	\$7,000	\$6,000	\$7,000

The year to date provisional tax liability from the Statement of Activity will be recorded in the customer's income tax account along with payments made.

Customer income tax account	Instalment 1	Instalment 2	Instalment 3	Instalment 4	Instalment 5	Instalment 6
Provisional tax liability	\$1,000	\$1,700	\$3,000	\$10,000	\$16,000	\$23,000
Reversal		\$1,000-	\$1,700-	\$3,000-	\$10,000-	\$16,000-
Payments	\$1,000-	\$1,000- \$700-	\$1,000- \$700- \$1,300-	\$1,000- \$700- \$1,300- \$7,000-	\$1,000- \$700- \$1,300- \$7,000- \$6,000-	\$1,000- \$700- \$1,300- \$7,000- \$6,000- \$7,000-
Refunds						
Balance	\$0	\$0	\$0	\$0	\$0	\$0



The instalment amount from the Statement of Activity will be recorded as the amount due (if any) to build up a record of all of the instalments for the year.

Customer income tax due dates						
<b>Instalment 1</b>	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
<b>Instalment 2</b>		\$700	\$700	\$700	\$700	\$700
<b>Instalment 3</b>			\$1,300	\$1,300	\$1,300	\$1,300
<b>Instalment 4</b>				\$7,000	\$7,000	\$7,000
<b>Instalment 5</b>					\$6,000	\$6,000
<b>Instalment 6</b>						\$7,000

### Example 2:

Customer's accounting income (and therefore their provisional tax liability) fluctuates during the year.

Statement of Activity	Instalment 1	Instalment 2	Instalment 3	Instalment 4	Instalment 5	Instalment 6
Year to date provisional tax liability	\$1,000	\$1,700	\$3,000	\$1,100	\$800	\$1,500
This instalment	\$1,000	\$700	\$1,300	\$0	\$0	\$700

The year to date provisional tax liability from the Statement of Activity will be recorded in the customer's income tax account along with payments made. Where the payments made up to an instalment date exceed the year to date provisional tax liability, the overpayment will be refunded unless directions have been provided on the Statement of Activity to hold or transfer the overpayment.



Customer income tax account	Instalment 1	Instalment 2	Instalment 3	Instalment 4	Instalment 5	Instalment 6
Provisional tax liability	\$1,000	\$1,700	\$3,000	\$1,100	\$800	\$1,500
Reversal		\$1,000-	\$1,700-	\$3,000-	\$1,100-	\$800-
Payments	\$1,000-	\$1,000- \$700-	\$1,000- \$700- \$1,300-	\$1,000- \$700- \$1,300-	\$1,000- \$700- \$1,300-	\$1,000- \$700- \$1,300- \$700-
Refunds				\$1,900	\$1,900 \$300	\$1,900 \$300
Balance	\$0	\$0	\$0	\$0	\$0	\$0

The instalment amount from the Statement of Activity will be recorded as the amount due (if any) to build up a record of all of the instalments for the year. Previous due dates may be adjusted to ensure the total of all due dates match the year to date provisional tax liability.

Customer income tax due dates						
<b>Instalment 1</b>	\$1,000	\$1,000	\$1,000	\$1,000	\$800	\$800
<b>Instalment 2</b>		\$700	\$700	\$100	\$0	\$0
<b>Instalment 3</b>			\$1,300	\$0	\$0	\$0
<b>Instalment 4</b>				\$0	\$0	\$0
<b>Instalment 5</b>					\$0	\$0
<b>Instalment 6</b>						\$700



### 7.3 Ledger, software generated and user entered values

#### Example 1:

Ledger entry	Software generated adjustment	User entered adjustment
<b>Balance (if any) in the ledger for an item.</b>	Adjustment that needs to be made to a ledger amount, calculated by AIM-capable software based on the relevant Determination.	Amount (if any) entered by the customer as a more appropriate adjustment based on individual circumstances.
<b>Example:</b> <b>Provisions balance in the ledger is \$2,000.</b>  <b>Provisions = 2000</b>	<i>Software calculated adjustment for provisions is \$500 to take it to a AIM suitable amount of \$2,500.</i>  systemAdjustedValue = 500	<i>Customer enters adjustment of \$450 as they consider the amount should be \$2,450</i>  userAdjustedValue = 450
<b>Example:</b> <b>Provisions balance in the ledger is \$2,000.</b>  <b>Provisions = 2000</b>	<i>Software calculated adjustment for provisions is nil.</i>  systemAdjustedValue = 0	<i>Customer enters adjustment of \$450.</i>  userAdjustedValue = 450
<b>Example:</b> <b>Provisions balance in the ledger is \$2,000.</b>  <b>Provisions = 2000</b>	<i>Software has insufficient information to calculate an adjustment for provisions.</i>  systemAdjustedValue = blank	<i>Customer enters adjustment of \$450.</i>  userAdjustedValue = 450
<b>Example:</b> <b>There is no balance for provisions in the ledger.</b>  <b>Provisions = 0</b>	<i>No adjustment for provisions is calculated.</i>  systemAdjustedValue = blank	N/A  userAdjustedValue = blank

## 8 Appendix B—Glossary

Acronym/term	Definition
<b>ACC, ACCID</b>	Accident Compensation Corporation (and ID number)
<b>Activity statement</b>	Statement of Activity—the name for the data that is filed for AIM
<b>AIM</b>	Accounting Income Method—a method that businesses can use for calculating and paying provisional income tax. Participating businesses are required to file a Statement Of Activity.
<b>Authentication</b>	The process that verifies the identity of the party attempting to access Inland Revenue
<b>Authorisation</b>	The process of determining whether a party is entitled to perform the function or access a resource
<b>EI</b>	Employment Information
<b>End points</b>	A term used to describe a web service that has been implemented
<b>ESCT</b>	Employer Superannuation Contribution Tax—one of the many deductions that come from payroll
<b>FIPS</b>	Federal Information Processing Standard—a suite of IT standards from the US Federal Government
<b>FIRST</b>	Inland Revenue’s core mainframe system
<b>Gateway</b>	Inland Revenue’s web services gateway
<b>GST</b>	Goods and Services Tax
<b>GWS</b>	Gateway Services—the brand name for the suite of web services that Inland Revenue is providing. The Return Service is a Gateway Service.
<b>HTTP, HTTPS</b>	Hyper Text Transmission Protocol (Secure)—the protocol by which web browsers and servers interact with each other. When implemented over TLS1.2 HTTP becomes HTTPS.
<b>IAMS</b>	Identity and Access Management—a logical component that performs authentication and authorisation. Physically it is a set of discrete hardware and software products, plug-ins and protocols. Usually implemented as separate External IAMS (XIAMS) and Internal IAMS.
<b>IAS</b>	Identity and Access
<b>INC</b>	Inland Revenue’s abbreviation for Income Tax
<b>IP</b>	Internet Protocol—the principal communication protocol in the Internet protocol suite for relaying datagrams across networks
<b>MSD</b>	NZ Ministry of Social Development
<b>NZBN</b>	New Zealand Business Number
<b>NZISM</b>	NZ Information Security Manual—the security standards and best practices for Government agencies. Maintained by the NZ Government Communications Security Bureau (GCSB).
<b>OAuth</b>	An HTTPS based protocol for authorising access to a resource,



Acronym/term	Definition
	currently at version 2
<b>PAYE</b>	Pay As You Earn
<b>Payloads</b>	This refers to the data contained within the messages that are exchanged when a web service is invoked. Messages consist of a header and a payload.
<b>Schemas</b>	An XML schema defines the syntax of an XML document, in particular of a payload. The schema specifies what a valid payload (such as a GST return) must/can contain, as well as validating the payload.
<b>SHA</b>	Secure Hashing Algorithm. There is a family of them that provide different strengths. SHA-2 is currently favoured over SHA-1, which has been compromised.
<b>SOAP</b>	Simple Object Access Protocol—a set of standards for specifying web services. GWS uses SOAP version 1.2
<b>SSL</b>	Secure Sockets Layer certificates—used to establish an encrypted connection between a browser or user’s computer and a service or website
<b>START</b>	Simplified Taxation and Revenue Technology—IR’s new core tax processing application. It is an implementation of the GenTax product from FAST Enterprises.
<b>Statement of Activity</b>	See Activity Statement
<b>TLS1.2</b>	Transport Layer Security version 1.2—the protocol that is observed between adjacent servers for encrypting the data that they exchange. Prior versions of TLS and all versions of SSL have been compromised and are superseded by TLS1.2.
<b>URL</b>	Universal Resource Locator—also known as a web address
<b>WSDL</b>	Web Service Definition Language—an XML definition of a web service interface
<b>X.509 certificate</b>	An international standard for encoding and describing a digital certificate. In isolation a public key is just a very large number, the X.509 certificate to which it is bound identifies whose key it is, who issued it, when it expires etc. When a counterparty’s X.509 digital certificate is received, the recipient takes their public key out of it and store the key in their own keystore. The recipient can then use this key to encrypt and sign the messages that they exchange with this counterparty.
<b>XIAMS</b>	External IAMS—an instance of IAMS that authenticates and authorises access by external parties, for example customers, trading partners etc, as opposed to internal parties such as staff
<b>XML</b>	Extensible Mark-up Language—a language used to define a set of rules used for encoding documents in a format that can be read by humans and machines
<b>XSD</b>	XML Schema Definition—the current standard schema language for all XML data and documents



## 9 Appendix C—Change log

This table lists all changes that have been made to this build pack document since 06/10/2017 (most recent changes listed first).

Version	Return type	Date of change	Document section	Description
<b>1.06</b>	EI	26/02/18	<a href="#">6.4.5 Filing a Nil EI</a>	Added use case for filing a Nil EI
	EI	26/02/18	<a href="#">3.1.3 EI usage</a>	Added note to section re employer cannot commence payday filing part way through a month.
	EI	26/02/18	<a href="#">6.4 EI-specific use cases</a>	Added new section 6.4 EI-specific use cases
	All	22/02/18	<a href="#">5.1 Generic gateway response codes</a>	<ul style="list-style-type: none"> <li>Updated the row for Standard Code 0 to reflect that a standard message does not display</li> <li>Updated descriptions for codes 4 and 6 to be more descriptive</li> <li>Added rows at end for SOAP faults and maximum concurrency exceeded</li> </ul>
	All EI	22/02/2018	<a href="#">3.2 Prepop</a> <a href="#">3.2.3 EI usage</a> <a href="#">3.3 RetrieveStatus</a> <a href="#">3.3.2 EI usage</a> <a href="#">3.4 RetrieveReturn</a> <a href="#">3.4.3 EI usage</a>	All instances of <formInfoRequest> changed to <retrieveFormInfoRequest>
	EI	16/02/18	<a href="#">EI usage</a>	<ul style="list-style-type: none"> <li>Corrected Description for field totalFamilyTaxCredits as it was referring to payroll donation credits</li> <li>Updated the row for employmentFinishDate to reflect field not required if no end date</li> </ul>
<b>1.05</b>	AIM and EI	15/02/2018	<a href="#">5.1 Generic gateway response codes</a> <a href="#">5.3 AIM-specific response codes</a> and <a href="#">5.4 EI-specific response codes</a>	<b>Added:</b> <ul style="list-style-type: none"> <li>Standard response code 6—‘Authentication expired’—added to table of generic gateway response codes</li> <li>Standard response code 7—‘Account type not supported’—added to table of generic gateway response codes</li> <li>New section (5.4) added with EI-specific response codes</li> </ul>



Version	Return type	Date of change	Document section	Description
				<ul style="list-style-type: none"> <li>Standard response code 131—'Duplicate line items'—added to table of EI-specific response codes</li> <li>Standard response code 132—'Reverse/replace can only be used for an amendment'—added to table of EI-specific response codes</li> </ul> <p><b>Removed:</b></p> <ul style="list-style-type: none"> <li>Standard response code 131—'Duplicate line items'—removed from table of AIM-specific response codes (and added to table of EI-specific response codes)</li> <li>Standard response code 121—'No active income year returns'—removed from table of AIM-specific response codes</li> </ul>
<b>1.04</b>		12/02/2018	Entire document	Cosmetic/formatting changes
<b>1.04</b>	All	02/02/2018	<a href="#">3 Operations</a>	<p>Paragraph replaced:</p> <p><b>OLD:</b> All return service file request responses will also include a <b>gatewayId</b>. The gatewayId is a unique identifier passed back in the responseBody when a request has been accepted through the gateway. The gatewayId can be provided to customers as a receipt that they have submitted a return and can be used in communications with IR to track the processing of a return.</p> <p><b>NEW:</b> The response structure for all File requests will have the <b>gatewayId</b> field populated. The gatewayId is a unique identifier passed back in the responseBody, assuming the response code for the request is zero (refer to <a href="#">Chapter 5 Responses</a>). The gatewayId should be recorded and can be used by technical teams for troubleshooting. The gatewayId will not appear in search results when searching myIR. The gatewayId is also not available to IR</p>





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				front line staff (such as in the telephone contact centre) to search on.
<b>1.03</b>	EI	31/01/2018	<a href="#">3.1.3 EI usage</a> <a href="#">5 Responses</a>	Amendment information added Response wording changed and Error codes revised (added 4,6,131)
	EI	25/01/2018	<a href="#">3.1.3 EI usage</a>	Added isReverseReplace to table of fields. Renamed 'employeeReferenceId' to 'referenceId'.
		13/12/2017	<a href="#">4.1 End points</a>	Disclaimer added: <i>*Please note that only the end points for cloud-based connections are currently available.</i> ALSO, removed reference to sliced and unsliced data.
		13/12/2017	<a href="#">2.4 Security</a>	Minimum TLS version for desktop connection end points updated: OLD: 1.0(+) NEW: 1.2 ALSO, disclaimer added: <i>IMPORTANT: Please note that only the end points for cloud-based connections are currently available.</i>
	EI	08/12/2017	<a href="#">3.1.3 EI usage</a>	Added employeeReferenceId to table of fields.
				Added HM (half-monthly) code to Employee pay frequency table
				Sample response on successful EI file operations
	All	07/12/2017	<a href="#">3 Operations</a>	Noted that eight digit IRD Numbers need to be padded with a leading zero.
	AIM	30/11/2017	<a href="#">3.3.1 AIM usage</a>	Added the following text: Although submitted via the Return service, an AIM Statement is not a return and therefore only a subset of the available statuses apply for an AIM Statement. The following three statuses apply for checking RetrieveStatus for AIM:  Removed the following text: NOTE: The 'submitted' status indicates that the Statement of Activity has been received by Inland Revenue for processing within START. It does not indicate the status of the processing of the customer's financial records within



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				FIRST which will subsequently occur during the initial period of co-existence.  Also note that these statuses may change for future rollouts.
	AIM	30/11/2017		AIM error codes 121, 122 and 123 added.
	AIM	27/11/2017	<a href="#">1.3 Supported onboarding packs</a>	'Appendix—Policy and supporting legislation' was removed—text pasted into 1.3 instead
		27/11/2017		'Appendix—Sample payloads' moved from this document and into <a href="#">GitHub</a> as a standalone file.
		27/11/2017	<a href="#">3 Operations;</a> <a href="#">4 End points,</a> <a href="#">schemas and</a> <a href="#">WSDLs</a>	Disclaimer text and hyperlinks changed at start of each section:  <b>IMPORTANT:</b> <i>The end points, schemas and WSDLs listed here are subject to change. For the authoritative definitions, please refer to the information provided on the Inland Revenue Gateway Services GitHub site:</i> <a href="https://github.com/InlandRevenue/Gateway-Services">https://github.com/InlandRevenue/Gateway-Services</a>
		27/11/2017		End point URLs updated
		27/11/2017		Security section updated
		22/11/2017	Glossary	FIRST added to glossary
	AIM	22/11/2017	AIM (retrieveStatus)	Section added to cover responses
<b>1.0</b>	EI	07/11/2017	<a href="#">3.1.3 EI usage</a>	payDayDate information (sentence) modified.
			<a href="#">3.2.3,</a> <a href="#">3.3.1</a> and <a href="#">3.4.3</a> (all EI usage)	<retrieveEIRequest> details added, structure added, table containing payDayDate and submissionKey details added.
			<a href="#">3.5.1 EI usage</a>	Sentence added.
<b>1.0</b>	AIM	26/10/2017	<a href="#">3.1 File</a>	Text added to periodEndDate line of Field/Requirement/Description table:  <b>NEW:</b> An AIM Statement of Activity will cover a one or two month period. The period end date for the Statement of Activity refers to the last day of the period covered by that statement. For example, for a Statement of Activity covering the two month period of April



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				and May 2019, the period end date is 31/05/19.
			<a href="#">3.1.2 AIM usage</a>	<b>Multiple changes to text</b> in Attribute/Description table in systemAdjustedValue line and userAdjustedValue line.  Also, <b>new row added</b> for shareholderProvTax.
			<a href="#">3.2.2 AIM usage</a>	First paragraph of section changed: <b>NEW:</b> When using the pre-population service for AIM, the tax type will be INC and the majorFormType will be SOA (for Statement of Account). The response body will only be populated if the customer is eligible for AIM.
			<a href="#">5.3 AIM-specific response codes</a>	'Fiscal year' <b>changed</b> to 'tax year' in standard code line 120.
<b>1.0</b>	AIM	26/10/2017	<a href="#">Appendix C—Glossary</a>	Minor modifications to text in glossary entries for 'Activity Statement' and 'AIM'.
	EI	19/10/2017	<a href="#">3.1.3 EI Usage</a>	Ensured section in EI didn't have reference to Total Number of Employee Lines
		19/10/2017	<a href="#">Appendix B—Example scenarios</a>	Appendix created and populated with example scenarios.
	AIM	18/10/2017	<a href="#">3.1.2 AIM usage</a>	Updated AIM schemas
	AIM	18/10/2017	<a href="#">7.1.2 AIM payloads</a>	Updated AIM sample payloads
	GST	13/10/2017	<a href="#">Appendix A—Sample payloads</a>	Changes made to sample payloads in Appendix A to reflect all changes below.
	GST	13/10/2017	<a href="#">3.4.1 GST usage</a>	Changes made to <b>&lt;retrieveReturnResponse&gt;</b> structure.
	EI	13/10/2017	<a href="#">3.1.3 EI usage</a>	Text added at end of section to explain changes in above row:  <b>NEW:</b> A submissionKey will be provided on file operations of EI returns. This submissionKey will be used to identify the specific EI return on a given filing period for amendment, status and retrieve return requests.  On amendment requests, submissionKey



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				and lineNumber must be provided. lineNumber are obtained by the retrieveReturn operation, and only lines that require amendments should be provided.
	EI	13/10/2017	<a href="#">3.1.3 EI usage</a>	<p>Changes to Attribute/Description table:</p> <p><b>NEW:</b>  <b>submissionKey</b> and <b>lineNumber</b> fields added</p> <p>Attribute/Description table has also changed to reflect this.</p>
	AIM	13/10/2017	<a href="#">3.1.2 AIM usage</a>	<p><b>NEW:</b>            Table added with Statement of Activity example scenarios</p>
	AIM	13/10/2017	<a href="#">3.1.2 AIM usage</a>	<p>Changes to <b>&lt;FormFields&gt;</b> structure (for AIM):</p> <p><b>OLD:</b>  <b>adjustedBy</b> and <b>unadjustedValue</b></p> <p><b>NEW:</b>  <b>systemAdjustedValue</b> and <b>userAdjustedValue</b></p> <p>Attribute/Description table has also changed to reflect this.</p>
	GST	13/10/2017	<a href="#">3.1 File</a>	<p>Change to first line for example scenario:</p> <p><b>OLD:</b>            Attempting to submit a GST103H for the 2018-January period.</p> <pre>           &lt;cmn:accountType&gt;GST&lt;/rc:accountType&gt;           &lt;rc:periodEndDate&gt;2018-01-31&lt;/rc:periodEndDate&gt;           &lt;rc:majorFormType&gt;GST&lt;/rc:majorFormType&gt;           &gt;           &lt;rc:minorFormType&gt;103H&lt;/rc:minorFormType&gt;           e&gt;           </pre> <p><b>NEW:</b>            Attempting to submit a GST103H for the 2018-January period.</p> <pre>           &lt;cmn:accountType&gt;GST&lt;/cmn:accountType&gt;           &lt;rc:periodEndDate&gt;2018-01-           </pre>



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				<pre> 31&lt;/rc:periodEndDate&gt; &lt;rc:majorFormType&gt;GST&lt;/rc:majorFormType&gt; &gt; &lt;rc:minorFormType&gt;103H&lt;/rc:minorFormType&gt; e&gt; </pre>
	All	13/10/2017	<a href="#">3 Operations</a>	<p>Line added to standard header fields example:</p> <pre> &lt;cmn:accountType&gt;GST&lt;/cmn:accountType&gt; &gt; </pre> <p><b>accountType</b> Also added to Attribute/Description table</p>
	All	13/10/2017	<a href="#">3 Operations</a>	<p>Lines added to default service response fields example:</p> <pre> &lt;responseBody&gt;         &lt;gatewayId&gt;0000 002J ZJ5N 6&lt;/gatewayId&gt; &lt;/responseBody&gt; </pre>
<b>0.8</b>		06/10/2017	<a href="#">3.5 RetrieveFilingObligation</a>	<p><b>OLD:</b> Please note that this operation does not apply to Employment Information.</p> <p><b>NEW:</b> Please note that for EI the RetrieveFilingObligations will not act the same way that it does for other tax types. For those who have already submitted a payroll for a given filing period, the current period will not be returned by this operation. Even if other payrolls with more employees are required for this account, RetrieveFilingObligations will only look to see if a payroll already exists on the period.</p>