

Inland Revenue

Build Pack: Employment Service

Date: 10/06/2021

Version: 2.0



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V2 SERVICE UPDATES

The following key changes have been made to the Employment Service between V1 and V2.

Document section	Description
3 Operations	 Updated schema references from 'Employment.xsd' to 'Employment.v2.xsd'
3.1 Create	 Updated 'KiwiSaverStatus', changed valid options to: AK, OK, NK, CT, AE (Removed: OT, NM, CH) Added new field EmployeeExemptIncome Updated employeeNameOnEILine to allow 255 characters, previously this was 20 Added tax codes table to show valid tax codes. ESS, SLCIR, and SLBOR are no longer valid tax codes Updated employeeKiwiSaverEligibility to use codes NE, EE, and EA. Add table of codes below fields
3.2 Update	 Removed 'KiwiSaverStatus' field as it is no longer used for the Update operation Added new optional field 'lateOptOutReason' Added new optional field 'otherLateOptOutReason' field Updated employeeNameOnEILine in updateBody and in employeeIdentifier to allow 255 characters, previously this was 20 Updated employeeKiwiSaverEligibility to use codes NE, EE, and EA. Add table of codes below fields
3.4 RetrieveList	Updated employeeNameOnEILine to allow 255 characters, previously this was 20



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 Employment 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 of 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.

Before continuing, please consult www.ird.govt.nz/digital-service-providers/services-catalogue for business-level context, use cases and links to relevant policy. The information available here explains how to integrate with Inland Revenue's services.

1.2 Intended audience

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

The reader is assumed to have a suitable level of technical knowledge in order to understand 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 Related services

The following application programming interfaces (APIs) complement this Gateway Service. Instructions on where to find the build packs for these services can be found in <u>section 4</u> of this document.

1.3.1 Identity and Access Services

The Identity and Access Services (IAS) are used to authenticate access. Authentication tokens will need to be retrieved via IAS prior to making calls to the Employment Service.

This build pack was written using information from version 1.5 of the IAS build pack.



1.3.2 Employment Information Service

The Employment Information Service build pack v2 describes the operations provided under the Employment Information web service (v2), which forms part of the Gateway Services suite. The operations offered by this Service include the ability to submit a return to Inland Revenue for a customer, provide figures to assist in the calculation and display of return information prior to submission, return a status for a particular return and retrieve a previously-submitted return and the values associated to it.

This build pack was written using information from the Employment Information Service build pack v2.

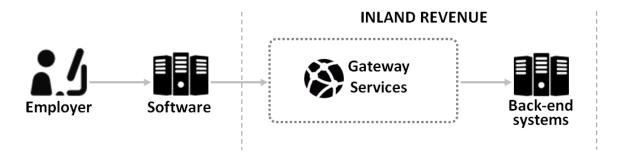


2 Solution design

2.1 Architecture

Inland Revenue's Gateway Services suite is used by approved service providers to facilitate everything from registration activities, filing returns, making payments and other service offerings to allow customers to interact with Inland Revenue.

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



The WSDLs for the Return Service 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 following operations are provided for this service:

- **Create:** This operation will allow for the creation of an employer/employee relationship, as well as the submission of KS1/KS10 information.
- **Update:** This operation will allow for the updating of an active (unceased) employee/employer relationship, as well as for opting out of KiwiSaver.
- **Terminate:** This operation will be used for the termination (end dating) of an active (unceased) employee/employer relationship.
- **RetrieveList:** This operation can be used to retrieve a list of current and ceased employees linked to the requesting employer (Note: This operation is not available to payroll bureaus).



2.3 Messaging

The Return Service is a SOAP-based web service. All SOAP messages require a SOAP header and a SOAP body containing a structured XML payload. Correct values can be found in the relevant WSDL, the link to which is provided in <u>section 4</u> of this document.

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 schema that define the requests.

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

Note that the Gateway Services use the SOAP version 1.2 protocol, and the SOAP service contract is published using WSDL version 1.1.

Example SOAP request structure

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
      xmlns:ret="https://services.ird.govt.nz/GWS/Employment/v2/"
      xmlns:emp="https://services.ird.govt.nz/GWS/Employment/v2/:types/Create
      Request"
      xmlns:a="http://www.w3.org/2005/08/addressing">
  <soap:Header>
       <a:Action>https://services.ird.govt.nz/GWS/Employment/v2/Employment/some
      Operation < /a: Action >
  </soap:Header>
  <soap:Body>
     <emp:Create>
         <emp:CreateRequestMsg>
            <cre:CreateRequestWrapper>
              <emp1:createRequest>
                  <...reauest fields...>
              </emp1:createRequest>
           </cre:CreateRequestWrapper>
        </emp:CreateRequestMsq>
     </emp:Create>
  </soap:Body>
</soap:Envelope>
```



Example SOAP response structure

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"</pre>
xmlns:a="http://www.w3.org/2005/08/addressing">
    <s:Header>
       <a:Action s:mustUnderstand="1">
       https://services.ird.govt.nz/GWS/Employment/v2/Employment/CreateRespon
       </a:Action>
   </s:Header>
   <s:Body>
       <CreateResponse
xmlns="https://services.ird.govt.nz/GWS/Employment/v2/">
       xmlns:b=https://services.ird.govt.nz/GWS/Employment/v2/:types/CreateRes
       ponse xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <br/>b:CreateResponseWrapper>
               <employmentResponse
      xmlns="urn:www.ird.govt.nz/GWS:types/Common.v2">
                 <statusMessage>
                    <statusCode>0</statusCode>
                    <errorMessage/>
                 </statusMessage>
               </employmentResponse >
             </b:CreateResponseWrapper>
         </CreateResult>
      </CreateResponse>
    </s:Body>
</s:Envelope>
```

2.4 Security

2.4.1 Information classification

The information exchanged via the Return Service has an information classification of "IN CONFIDENCE". The following security standards therefore apply.

2.4.2 Transport layer security and certificates

Mutual Transport Layer Security (TLS) is implemented for this service. This requires the use of a publicly-issued X.509 certificate from one of the trusted certificate authorities listed further below in this section. (Note that Inland Revenue does not issue certificates to external vendors for web service security implementations.)

Inland Revenue has the following requirements for accepting public X.509 keys:

- ECDSA (preferred) key length: 384 bits (or RSA key length: 2048 bits)
- Self-signed certificates are not accepted
- Certificates issued by private/internal certificate authorities are not accepted
- The same certificate cannot be used for the Test and Production environments.



Inland Revenue has adopted a trust-based authentication model and will only accept certificates that contain a pre-approved subject common name and have been issued by one of the following root certificate authorities, trusted and approved by Inland Revenue:

- Amazon
- <u>Comodo</u>
- DigiCert
- Entrust
- GeoTrust
- Let's Encrypt
- <u>Section</u>
- Thawte.

Inland Revenue expects Digital Service Providers to use their Inland Revenue Developer Portal account to create their common name for both Test and Production certificates.

Please refer to the <u>Digital Service Providers</u> pages on the Inland Revenue website or contact your Inland Revenue onboarding representative at <u>GatewayServices@ird.govt.nz</u> for further details.

2.4.3 Ciphers

While Inland Revenue currently supports TSL1.2, it is migrating to TLS1.3 which specifies a much smaller and more prescriptive suite of ciphers. As Inland Revenue's security gateways do not currently support the CCM mode (*counter with cipher block chaining message authentication code*) of operation, only the following ciphers will be supported over TLS1.3:

Status	TLS1.3 ciphers
Supported now and in the future	TLS_AES_128_GCM_SHA256TLS_AES_256_GCM_SHA384
	 TLS_ALS_250_GCM_SHA504 TLS_CHACHA20_POLY1305_SHA256

The following TLS1.2 ciphers are currently supported but some will be deprecated as below:

Status	TLS1.2 ciphers	
Supported now and in future	TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	
Supported now but will be deprecated on 31 March 2022	 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_RSA_WITH_AES_128_CBC_SHA TLS_RSA_WITH_AES_256_CBC_SHA TLS_DHE_RSA_WITH_AES_128_CBC_SHA TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 TLS_DHE_RSA_WITH_AES_256_CBC_SHA TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 	



Status	TLS1.2 ciphers
Supported now but will be deprecated on 31 December 2022	 TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 TLS_RSA_WITH_AES_128_CBC_SHA256 TLS_RSA_WITH_AES_256_CBC_SHA256 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

2.4.4 End points

There are 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 require X.509 certificates for mutual TLS with an agreed common name, however certificates no longer need to be exchanged with Inland Revenue. 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/native apps** that are unable to securely store certificates and access tokens. There is a separate end point that does not use mutual TLS and therefore does not require certificates. On the desktop end point, Inland Revenue has less ability to shield consumers of the service from heavy usage by others.

	End point for cloud-based connections	End point for desktop connections
Purpose	Primary preferred end point to connect to from service providers for Gateway Services	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 set up certificate trust
Client application type	Cloud applications	Desktop/native applicationsFor connecting from multiple decentralised clients
Constraints	 Only for source locations with client-side TLS certificates On the cloud end point Inland Revenue has controls to shield service providers from issues caused by heavy usage from other providers 	 Less scalable Subject to tighter security controls On the desktop end point Inland Revenue has less ability to shield consumers of the service from heavy usage by others



	End point for cloud-based connections	End point for desktop connections
		OAuth2 refresh tokens will not be offered to desktop clients
Mutual TLS	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	Server-side certificates only
Minimum TLS version	• 1.2	• 1.2
URL	• Contains/gateway/	• Contains/gateway2/
Port	• 4046	• 443 (Default https port)
Web service consumer identification	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	 Desktop clients will be given client_id/client_secret credentials in the same manner as cloud application clients. However, desktop clients will not be able to redeem refresh tokens to obtain a new OAuth token when it expires.
Firewalling in production	No IP address restrictionsAccess limited by certificate enrolment	No IP address restrictions
Firewalling in non-production environments	No IP address restrictionsAccess limited by certificate enrolment	Firewalled—IP whitelisting needed



2.4.5 Authentication and authorisation

Authentication and authorisation are the mechanisms by which the consumer of the service is identified, and their access rights enforced. The Return Service uses the standard OAuth2 authorisation code flow. For instructions on how to acquire an OAuth access token, and the properties of this token (eg its expiry and refresh parameters) please refer to the Identity and Access build pack.

Authentication and authorisation are described in terms of two parties:

- **Consumer**—this is the party under whose identity the interaction is being transacted (the party who has been authenticated)
- **Resource**—this is the data entity/object being accessed (eg created, read, updated or deleted) via the service.

When using OAuth, the consumer is authenticated using their Inland Revenue myIR credentials and their access is authorised using the same access rights as myIR. For example, if a myIR 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 following steps are applied by the Gateway Services when authorising access by the consumer to a resource:

- 1. If the consumer is the resource owner then access to the resource is authorised (ie the consumer is authorised to manage their own affairs).
- 2. Otherwise, if the consumer's myIR credential has been granted access to the resource, with the appropriate level of access, then access is authorised.
- 3. Otherwise, if the consumer is an intermediary of an appropriate type who has been delegated access by being linked to the resource, with the appropriate level of access, then access is authorised.
- 4. Otherwise access is denied.



3 Operations

IMPORTANT

The schemas and WSDLs listed here are subject to change.
For the authoritative definitions, please visit
www.ird.govt.nz/digital-service-providers/services-catalogue

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.v2.xsdemp: Employment.v2.xsd

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

For example:

All operations for the Employment Service will contain three standard header fields:

- softwareProviderData
- identifier
- accountType.

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. For this Employment Service this will always be the account IRD number of the employer's EMP account.



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>PSO</cmn:accountType>

Field	Description
softwareProvider	The company that developed the software
softwarePlatform	The field value will be provided by Inland Revenue during the onboarding process
softwareRelease	The version of the software package
IdentifierValueType	The ID type being submitted. For the Employment Service this value will be ACCIRD.
Identifier	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.
AccountType	The account type being submitted can only be 'PSO' or 'EMP'.

Proper use:

- All softwareProviderData fields will need to be the same as that which is provided to Inland Revenue at the time of onboarding
- The identifier is that of the taxpayer on whose behalf the operations are being performed.

Example scenario:

- Employer with IRD 898989898 submits for employee IRD 121212121
 - o Third party calls /Employment/Create/ with

<cmn:identifier IdentifierValueType="ACCIRD">898989898

</cmn:identifier>

<cmn:accountType>PSO</cmn:accountType>



3.1 Create

Create enables an employer to submit information to Inland Revenue in regard to a new employee—employee IRD number, employee name, EMS name, tax code, employment start date, employment finish date, employee date of birth, employee contact details, KS1 KiwiSaver enrolment information.

NOTE: If an employee meets the legislative requirements to opt out of KiwiSaver and wishes to do so and the employer has not yet notified Inland Revenue of this new employee, then the following must be done:

- A Create request must be submitted AND
- An *Update* request must also be submitted, including the following fields:
 - o optedOut
 - employeeBankAccountNumber
 - accountHolderName
 - OptedOutSignatureDate

In this scenario, it is possible that the *Create* request would not have had time to process and become effective before the *Update* request is sent. In this case, the *Update* request would receive an error response code indicating the *Create* request has not yet processed.

```
<emp1:createRequest>
 <emp1:header>
   <com:softwareProviderData>
        <com:softwareProvider></com:softwareProvider>
        <com:softwarePlatform></com:softwarePlatform>
        <com:softwareRelease></com:softwareRelease>
   </com:softwareProviderData>
   <com:identifier IdentifierValueType=""></com:identifier>
   <com:accountType></com:accountType>
 </emp1:header>
<emp1:createBody>
      <emp1:employeeIRD></emp1:employeeIRD>
      <emp1:employeeName>
        <com:nameTitle></com:nameTitle>
        <com:nameFirst></com:nameFirst>
        <com:nameSurname></com:nameSurname>
        <com:nameMiddle></com:nameMiddle>
      </emp1:employeeName>
      <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
      <!--1 to 4 repetitions:-->
      <emp1:taxCode></emp1:taxCode>
      <emp1:employmentStartDate></emp1:employmentStartDate>
      <emp1:employmentFinishDate></emp1:employmentFinishDate>
      <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
      <emp1:employeeAddress>
        <com:streetAddress>
          <com:streetNumber></com:streetNumber>
          <com:streetName></com:streetName>
        </com:streetAddress>
        <!--Optional:-->
        <com:unit>
          <com:type></com:type>
          <com:number></com:number>
        </com:unit>
        <com:townCity></com:townCity>
        <com:postCode></com:postCode>
```



```
<com:country>NZ</com:country>
</emp1:employeeAddress>
<emp1:employeeEmailAddress></emp1:employeeEmailAddress>
<emp1:employeeMobilePhoneNumber>
 <com:phoneType></com:phoneType>
 <com:country></com:country>
 <com:areaCode></com:areaCode>
 <com:number></com:number>
 <!--Optional:-->
 <com:extension></com:extension>
</emp1:employeeMobilePhoneNumber>
<!--Optional:-->
<emp1:employeeDayPhoneNumber>
 <com:phoneType></com:phoneType>
 <com:country></com:country>
 <com:areaCode></com:areaCode>
 <com:number></com:number>
 <!--Optional:-->
 <com:extension>?</com:extension>
</emp1:employeeDayPhoneNumber>
<emp1:kiwiSaverStatus></emp1:kiwiSaverStatus>
```

Field	Required	Description
identifier	Required	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.
accountType	Required	This value will need to be 'PSO' or 'EMP' to represent the Employment account
employeeIRD	Required	If the employee doesn't have an IRD number, enter all zeros
employeeName	Required	Full employee name Title (optional), First Name (mandatory), Middle Name (optional), Surname (mandatory for individuals).
employeeNameOnEILine	Required	This is the name (up to 255 characters) provided on the EI return
taxCode	Required	Multiple tax codes can be added in one submission (see table below for list of acceptable values)
employmentStartDate	Required	Format: YYYY-MM-DD
employmentFinishDate	Optional	If future Finish Date is known, place here and future termination will not be needed



Field	Required	Description
employeeDateOfBirth	Optional	Format: YYYY-MM-DD
employeeAddress	Optional	Open address to allow for foreign addresses. The FreeFormAddress choice in the OpenAddressType is now supported for a limited time. This should only be used as a temporary solution for single field address data. Required when opting into KiwiSaver (as for a KS1 form).
employeeEmailAddress	Optional	Employee email address
employeeMobilePhoneNumber	Optional	Standard mobile field
employeeDayPhoneNumber	Optional	Standard phone field
kiwiSaverStatus	Required	Employee KiwiSaver status (see table below for list of acceptable values)
employeeKiwiSaverEligibility	Optional	Employee KiwiSaver Eligibility The combination of this field and the kiwiSaverStatus field determines when an employee is opting in (the equivalent of a KS1 form). See table below for list of acceptable values.
employeeExemptIncome	Optional	Employee exempt income reason for KiwiSaver—see table below for list of acceptable values.

KiwiSaver status code	Description
AK	Active KiwiSaver member
ОК	Opting into KiwiSaver
NK	Not eligible for KiwiSaver
СТ	Casual/temporary employee
AE	Auto-enrol

KiwiSaver eligibility code	Description
NE	New employee
EE	Existing employee
EA	Existing employee auto-enrolled into KiwiSaver



Employee exempt income options	Description
BLH	Provide board-lodging-use of a house or part house or equivalent allowance
НРТ	Honoraria payments
OES	Overpayment of an amount of an employer's superannuation cash contribution
RTA	Retiring allowance
TAO	Taxable allowances for accommodation and living costs overseas
VBS	Some payments under a voluntary bonding scheme and living costs overseas

Accepted tax codes:

•	CAE	•	SSL
•	EDW	•	ME
•	ND	•	NSW
•	MESL	•	M
•	MSL	•	SHSL
•	SH	•	STC
•	SB	•	S
•	SBSL	•	STSL
•	ST	•	SA
•	WT	•	SASL



3.2 Update

IMPORTANT NOTE

When the Update operation is carried out, it completely replaces ALL the existing information on the employment relationship. This means that where data has previously been supplied for a field, a subsequent Update with no data for that same field will result in the data being overwritten (removed).

For example, employee address information previously supplied would be overwritten if a subsequent Update operation updating that employee's tax code did not include address information.

Therefore, any data previously provided to Inland Revenue for a field will need to be included in all subsequent Update operations for it to be retained.

For example:

If employee IRD 123-456-789 already has tax code M SL and tax code STC needs to be added. An update will need to include both M SL and STC.

```
<emp1:updateRequest>
    <emp1:header>
      <com:softwareProviderData>
        <com:softwareProvider></com:softwareProvider>
        <com:softwarePlatform></com:softwarePlatform>
        <com:softwareRelease></com:softwareRelease>
      </com:softwareProviderData>
      <com:identifier IdentifierValueType=""></com:identifier>
      <com:accountType></com:accountType>
    </emp1:header>
    <emp1:employeeIdentifier>
       <emp1:employeeIRD></emp1:employeeIRD>
       <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
       <!--Optional:-->
       <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
       <!--Optional:-->
     <emp1:employmentStartDate></emp1:employmentStartDate>
     </emp1:employeeIdentifier>
     <emp1:updateBody>
       <emp1:employeeIRD></emp1:employeeIRD>
       <emp1:employeeName>
        <com:nameTitle></com:nameTitle>
        <com:nameFirst></com:nameFirst>
        <com:nameSurname></com:nameSurname>
        <com:nameMiddle></com:nameMiddle>
      </emp1:employeeName>
      <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
      <emp1:employmentStartDate></emp1:employmentStartDate>
      <!--Optional:-->
      <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
      <!--1 to 4 repetitions:-->
       <emp1:taxCode></emp1:taxCode>
       <!--Optional:-->
```



```
<emp1:employeeAddress>
              <com:streetAddress>
                <com:streetNumber></com:streetNumber>
                <com:streetName></com:streetName>
              </com:streetAddress>
              <!--Optional:-->
              <com:unit>
                <com:type></com:type>
                <com:number></com:number>
              </com:unit>
              <com:townCity></com:townCity>
              <com:postCode></com:postCode>
              <com:country>NZL</com:country>
            </emp1:employeeAddress>
            <!--Optional:-->
            <emp1:employeeEmailAddress>?</emp1:employeeEmailAddress>
            <!--Optional:-->
            <emp1:employeeMobilePhoneNumber>
              <com:phoneType></com:phoneType>
              <com:country></com:country>
              <com:areaCode></com:areaCode>
              <com:number></com:number>
              <!--Optional:-->
              <com:extension></com:extension>
            </emp1:employeeMobilePhoneNumber>
            <!--Optional:-->
            <emp1:employeeDayPhoneNumber>
              <com:phoneType></com:phoneType>
              <com:country></com:country>
              <com:areaCode></com:areaCode>
              <com:number></com:number>
              <!--Optional:-->
              <com:extension></com:extension>
            </emp1:employeeDayPhoneNumber>
            <!--Optional:-->
<emp1:employeeKiwiSaverEligibility></emp1:employeeKiwiSaverEligibility>
            <!--Optional:-->
            <emp1:optedOut></emp1:optedOut>
            <!--Optional:-->
            <emp1:employeeBankAccountNumber>
              <!--You have a CHOICE of the next 2 items at this level-->
              <com:nzBankStandard>
                <com:bank></com:bank>
                <com:branch></com:branch>
               <com:account></com:account>
                <com:suffix></com:suffix>
              </com:nzBankStandard>
              <com:nzBankCreditUnion>
                <com:bank></com:bank>
               <com:branch></com:branch>
               <com:account></com:account>
               <com:suffix></com:suffix>
               <!--Optional:-->
                <com:referenceNumber></com:referenceNumber>
              </com:nzBankCreditUnion>
            </emp1:employeeBankAccountNumber>
            <!--Optional:-->
            <emp1:accountHolderName>
              <com:nameTitle></com:nameTitle>
              <com:nameFirst></com:nameFirst>
              <com:nameSurname></com:nameSurname>
            </emp1:accountHolderName>
```



<!--Optional:-->

<emp1:optedOutSignatureDate></emp1:optedOutSignatureDate>
<emp1:validRelationship></emp1:validRelationship>

</emp1:lateOptOutReason>

<!--Optional:-->

</emp1:otherLateOptOutReason>

<!--Optional:--> </emp1:updateBody>

</emp1:updateRequest>

Field	Requirement	Description
identifier	Required	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.
accountType	Required	This value will need to be 'PSO' or 'EMP' to represent the Employment account
employeeIdentifier	Required	Four fields (employeeIRD, employeeNameOnEILine, employeeDateOfBirth, employmentStartDate) used to identify the record which is to be updated. employeeIRD and employeeNameOnEILine are required fields that must match Inland Revenue's records in order to identify the appropriate employee. employeeDateOfBirth and employmentStartDate are optional and will only be used if they are submitted in the payload.
employeeIRD	Required	If the employee does not have an IRD number, enter all zeros
employeeName	Required	Full employee name Title (optional), First Name (mandatory), Middle Name (optional), Surname (mandatory for individuals).
employeeNameOnEILine	Required	This is the name (up to 255 characters) provided on the EI return



Field	Requirement	Description
employmentStartDate	See note on right	Format: YYYY-MM-DD NOTE: Required for updateBody, Optional for EmployeeIdentifierType
employeeDateOfBirth	Optional	Format: YYYY-MM-DD
taxCode	Optional	Multiple tax codes can be added in one submission (see table below for list of acceptable values)
employeeAddress	Optional	Open address to allow for foreign addresses. The FreeFormAddress choice in the OpenAddressType is now supported for a limited time. This should only be used as a temporary solution for single field address data. Required when opting into or out of KiwiSaver (as for a KS1 or KS10 form).
employeeEmailAddress	Optional	Employee email address for KS form
employeeMobilePhoneNumber	Optional	Standard mobile field for KS form. Contains phone type, country code (numeric), area code (three-digit numeric, beginning with 0), phone number (numeric) and extension (numeric). Note that if the person is opting out of KiwiSaver, the phone number provided must be a valid NZ number, including area code and phone number.
employeeDayPhoneNumber	Optional	Standard phone field for KS form. Contains phone type, country code (numeric), area code (three-digit numeric, beginning with 0), phone number (numeric) and extension (numeric). Note that if the person is opting out of KiwiSaver, the phone number provided must be a valid NZ number, including area code and phone number.



Field	Requirement	Description
employeeKiwiSaverEligibility	Optional	 Note that including this field will trigger the submission of a KS1 form unless the optedOut field (below) is set to true which will trigger the submission of a KS10. See table below for list of acceptable values
optedOut	Optional	Setting this to 'true' is the equivalent of submitting a KS10 form
employeeBankAccountNumber	Optional	Only used for KiwiSaver optout but not required
accountHolderName	Optional	Standard name field for KS form
optedOutSignatureDate	Optional	Standard date field for KS form
validRelationship	Required	Indicates the validity of this employment relationship. If the record was created on accident, it must be invalidated
lateOptOutReason	Optional	Late opt-out reason for KiwiSaver NOTE: See table below for accepted values
otherLateOptOutReason	Optional	Free text field for other late opt-out reason for KiwiSaver

KiwiSaver eligibility code	Description
NE	New employee
EE	Existing employee
EA	Existing employee auto-enrolled into KiwiSaver



Late opt-out reasons	Description
INFO	Employer did not provide a KiwiSaver information pack within seven days of starting employment
IRIS	Inland Revenue did not send an investment statement upon allocation to a default scheme
ERIS	Employer did not provide an investment statement (for the employer-chosen KiwiSaver scheme)
EVNT	Events outside of control meant the opt-out application was unable to be submitted within the eight-week time limit
CRIT	Did not meet the criteria to join KiwiSaver (see Employee information pack [KS3] for criteria)
INER	Incorrectly enrolled under the age of 18
OTHR	Other reason (please explain)

Accepted tax codes:

•	CAE	•	SSL
•	EDW	•	ME
•	ND	•	NSW
•	MESL	•	М
•	MSL	•	SHSL
•	SH	•	STC
•	SB	•	S
•	SBSL	•	STSL
•	ST	•	SA
•	WT	•	SASL



3.3 Terminate

Terminate enables an employer to submit information to Inland Revenue in regard to a departing employee—employee IRD number, employee name, employee date of birth, employee end date.

Once a termination date is known:

```
<emp1:terminateRequest>
   <emp1:header>
       <com:softwareProviderData>
         <com:softwareProvider></com:softwareProvider>
         <com:softwarePlatform></com:softwarePlatform>
         <com:softwareRelease></com:softwareRelease>
       </com:softwareProviderData>
       <com:identifier IdentifierValueType=""></com:identifier>
       <com:accountType></com:accountType>
    </emp1:header>
    <emp1:employeeIdentifier>
         <emp1:employeeIRD></emp1:employeeIRD>
         <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
         <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
         <emp1:employmentStartDate></emp1:employmentStartDate>
    </emp1:employeeIdentifier>
    <emp1:terminateBody>
         <emp1:employmentFinishDate></emp1:employmentFinishDate>
    </emp1:terminateBody>
</emp1:terminateRequest>
```

Field	Required	Description
identifier	Required	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.
accountType	Required	This value will need to be 'PSO' or 'EMP' to represent the Employment account
employeeIdentifier	Required	Four fields (employeeIRD, employeeNameOnEILine, employeeDateOfBirth, employmentStartDate) used to identify the record which is to be updated. employeeIRD and employeeNameOnEILine are required fields that must match Inland Revenue's records in order to identify the appropriate employee. employeeDateOfBirth and employmentStartDate are optional and will only be used if they are submitted in the payload.
employmentFinishDate	Required	Format: YYYY-MM-DD



3.4 RetrieveList

This can be used to retrieve a full list of current and ceased employees (by not including an employee IRD number in the request) or retrieve one individual employee.

Note: This operation is not available to payroll bureaus.

3.4.1 Request

Field	Required	Description
identifier	Required	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.
accountType	Required	This value will need to be 'PSO' or 'EMP' to represent the Employment account.
employeeIRD	Optional	Enter an employee's IRD number to retrieve only records for that employee. Omitting this field will request every employee linked to the employer identified in the header.



3.4.2 Response

```
<emp1:retrieveListResponse>
  <statusMessage xmlns="urn:www.ird.govt.nz/GWS:types/Common.v2">
     <statusCode></statusCode>
     <errorMessage></errorMessage>
  </statusMessage>
  <responseBody>
     <emp1:listReponse>
       <emp1:employee>
          <emp1:employeeIRD></emp1:employeeIRD>
          <emp1:employeeName></emp1:employeeName>
          <emp1:employeeNameOnEILine> </emp1:employeeNameOnEILine>
          <emp1:taxCode></emp1:taxCode>
          <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
          <emp1:employmentStartDate></emp1:employmentStartDate>
          <emp1:employmentFinishDate></emp1:employmentFinishDate>
       </emp1:employee>
       <emp1:employee>
          <emp1:employeeIRD></emp1:employeeIRD>
          <emp1:employeeName></emp1:employeeName>
          <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
          <emp1:taxCode></emp1:taxCode>
          <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
          <emp1:employmentStartDate></emp1:employmentStartDate>
          <emp1:employmentFinishDate></emp1:employmentFinishDate>
       </emp1:employee>
       <emp1:employee>
          <emp1:employeeIRD></emp1:employeeIRD>
          <emp1:employeeName></emp1:employeeName>
          <emp1:employeeNameOnEILine></emp1:employeeNameOnEILine>
          <emp1:taxCode></emp1:taxCode>
          <emp1:employeeDateOfBirth></emp1:employeeDateOfBirth>
          <emp1:employmentStartDate></emp1:employmentStartDate>
          <emp1:employmentFinishDate></emp1:employmentFinishDate>
       </emp1:employee>
     </emp1:listResponse>
  </emp1:responseBody>
</emp1:retrieveListResponse>
```

Field	Required	Description
employeeIRD	Required	If the employee doesn't have an IRD number, enter all zeros
employeeName	Required	Full employee name title (optional), first name (optional), middle name (optional), surname (optional)
employeeNameOnEILine	Required	This is the name (up to 255 characters) provided on the EI return
taxCode	Optional	Multiple tax codes can be added in one response
employeeDateOfBirth	Optional	Format: YYYY-MM-DD
employmentStartDate	Optional	Format: YYYY-MM-DD
employmentFinishDate	Optional	Format: YYYY-MM-DD



4 Additional development resources

Current environment information for this service—including the end points for each environment, schemas and WSDLs—is available within the relevant Software Development Kit (SDK). To access the SDK, do one of the following:

- Go to https://github.com/InlandRevenue and select this service
- Go to https://developerportal.ird.govt.nz and click the link to the SDK within the Gateway Service documentation (please register first).

4.1 Schemas

The Employment Service imports the Common.v2.xsd which has some data types specific to Inland Revenue. This Common.v2.xsd will be used in other Gateway Services outside of the /Employment/ namespace so it must be kept up-to-date, without numerous redundant versions remaining.

See instructions at beginning of section 4 for where to find schemas for this service.

4.2 WSDLs

The Employment Gateway Service has one WSDL, which has a target namespace of https://services.ird.govt.nz/GWS/Employment and can be found at https://services.ird.govt.nz:4046/gateway/gws/Employment/v2/?singleWsdl

NOTE: The production URL above will not work until you have onboarded with Inland Revenue.

All WSDL messages follow this naming convention:

```
Employment_<operation>_InputMessage or
Employment_<operation>_OutputMessage.

<wsdl:portType name="Employment">

<wsdl:operation name="Create">

<wsdl:operation name="Update">

<wsdl:operation name="Terminate">

<wsdl:operation name="RetrieveList">

<wsdl:operation name="RetrieveList">

<wsdl:service name="Employment">
```

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.v2.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 the Common.v2.xsd and Employment.v2.xsd. See beginning of section 4 for instructions on where to find WSDLs for this service.



5 Response codes

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

NOTE: These response codes are subject to change and additional codes may be added from time to time. Software consuming this service **must** be able to account for additional responses that may not have been specifically coded.

5.1 Generic Gateway response status codes

This service applies account-level validation and some of the codes below reflect this.

Standard codes	Standard message	Description
-1	An unknown error has occurred	This error will be logged by the Gateway Services and evaluated the next business day.
0	(Success)	This resembles a successful web service call.
1	Authentication failure	Authentication failure means the token provided is not a valid token.
2	Missing authentication token(s)	No oAuth token in HTTP header.
3	Unauthorised access	The logon making the call does not have access to make the request on behalf of the client or agency. Access could not be confirmed due to OAuth token validation failing.
4	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: The submitted cmn:identifier has an invalid value The identifier type (IdentifierValueType attribute on cmn:identifier) supplied is invalid The AccountType supplied does not exist for that identifier All the values above are valid but the provided OAuth token does not have delegated access to that customer or account



Standard codes	Standard message	Description
5	Unauthorised vendor	The vendor provided is not authorised to use these suite of services.
7	Account type not supported	Queries on account types not supported in any Gateway Services web services will return this code. This will be any account type other than AIL, AIP, BPA, MPO, CRS, DWT, FAT, FBT, GMD, GSD, GST, IPS, NRT, PIE, PRS, PSO, EMP, RLT and RWT.
20	Unrecognised XML request	The XML submitted is not recognisable and no schema can be determined.
21	XML request failed validation	The XML structure did not meet the definition laid out by the schemas published by Inland Revenue.
(none)	(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.
(none)	(SOAP fault) UnAuthorised	An unexpected technical fault has been detected. Depending on the context (eg if an online user is waiting), try the request again after at least five seconds. If the fault recurs then please contact GatewayServices@ird.govt.nz .



5.2 Response codes specific to Employment Service

Standard codes	Standard message	Description
100	Could not extract data from XML payload	The XML structure passes schema validation, but the data is not valid.
101	The provided information did not match with any employment relationship	The employment relationship that is attempting to be changed does not exist.
103	The provided IRD number was invalid	The provided IRD number was invalid.
104	The specified account has no employees	The specified account has no employees.
105	The specified employer IRD could not be linked to an EMP account could not be linked account.	
106	A relationship between this account and employee IRD already exists	A relationship between this account and employee IRD already exists.
107	The cease date cannot be before the commence date The cease date cannot be before the commence date	
108	A provided tax code was invalid	A provided tax code was invalid.
109	109 Two primary tax codes submitted for one person Two primary to submitted for	
		KiwiSaver eligibility should be omitted when opting out.
111	A Bank Account is required when a Bank Account Holder Name is provided A bank account holder submitted without a bar account.	
112	A Bank Account Holder Name is required when a Bank Account is provided	A bank account was submitted without a bank account holder name.
113	Opting out for KiwiSaver requires an opted out signature date out signature date. Opting out for KiwiSaver requires requires an opted out signature date.	
114	Opting out for a KiwiSaver requires employee address information Street address, city and post code are all required when opting out.	
115	Opting in for KiwiSaver expects bank account to be omitted	Opting in for KiwiSaver expects bank account to be omitted.
116	Opting in for KiwiSaver expects bank account holder to be omitted bank account holder to be omitted. Opting in for KiwiSaver expects bank account holder to be omitted.	



Standard codes	Standard message	Description	
117	Opting in for KiwiSaver expects the opted out signature date to be omitted	Opting in for KiwiSaver expects the opted out signature date to be omitted.	
118	Employee cannot opt out of KiwiSaver during their first 14 days of employment	Employee cannot opt out of KiwiSaver during their first 14 days of employment.	
121	The provided employee IRD number is not valid	The provided employee IRD number is not valid.	
122	The provided submission created a request in error, please review payload	The provided submission created a request in error, please review payload.	
124	The StartDate and/or FinishDate overlaps with multiple other records	The start date and/or finish date overlap with multiple other records	
130	The provided KiwiSaver Status is not valid	The provided KiwiSaver status is not valid.	
131	The provided Employee Exempt Income type is not valid	The provided employee exempt income type is not valid.	
132	The provided KiwiSaver Late Opt-Out Reason is invalid The provided KiwiSaver Late Opt-Out reason is invalid		
133	Other Late Opt-Out Reason must be provided	Other late opt-out reason must be provided when 'other-explanation' is selected for 'lateOptOutReason'.	
134	Opt-Out is late, so other reason must be provided	If opt-out is submitted 56 days or more from the employmentStartDate then there must be a 'lateOptOutReason' selected.	
135	Opt-Out must be set to true as lateOptOutReason has been provided	Opt-out must be set to true as lateOptOutReason has been provided.	
136	The provided employee KiwiSaver Eligibility status was invalid KiwiSaver eligibility status was invalid.		
137	Tax code is unsupported for ES version 2	The provided tax code is not supported in version 2 of ES. Unsupported tax code values include ESS, SLCIR and SLBOR.	



Standard codes	Standard message	Description
138	Employee must not have an 'SL' type tax code, as they have no student loan or they have a student loan repayment exemption	Employee must not have an 'SL' type tax code, as they have no student loan or they have a student loan repayment exemption
139	Employee must have an 'SL' type tax code, as they have a student loan and do not have student loan repayment exemption	Employee must have an 'SL' type tax code, as they have a student loan and do not have student loan repayment exemption
140	employeeDateOfBirth cannot be in the future	When specified, the value of employeeDateOfBirth cannot be in the future
141	Employee must have an 'ND' type tax code when using a zero IRD number	Employees must use a 'ND' type tax code if they are using a zero IRD number. NOTE: A zero IRD number without an ND tax code <i>can</i> be valid for a non-resident entertainer or a non-resident contractor company. An employee details submission is not required in this case.



6 Glossary

Acronym/term	Definition
Activity statement	Formally known as the Statement of Activity—the name for the data that is filed for AIM
AIM	Accounting Income Method—a method that businesses can use for reporting and paying provisional income tax. Participating businesses are required to file a Statement of Activity.
Authentication	The process that verifies the identity of the party attempting to access Inland Revenue
Authorisation	The process of determining whether a party is entitled to perform the function or access a resource
EA	Employment Activities—umbrella term for employment activities performed using the Return Service (submission of Employment Information) and/or Employment Service (submission of Employee Details) operations
ED	Employee Details—data submitted by an employer to Inland Revenue relating to new, existing, or departing employees that is submitted via the Employment Service
EI	Employment Information—data submitted by an employer relating to deductions made for their employees for a paydate
eServices	START's authenticated customer-facing portal
Gateway	START's web services gateway
GST	Goods and Services Tax
GWS	GateWay Services—the brand name for the suite of web services that Inland Revenue is providing. The Employment Service is a Gateway Service.
HTTP(S)	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.
IAMS	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.
IP	Internet Protocol—the principal communication protocol in the Internet protocol suite for relaying datagrams across networks
IRD	Inland Revenue Department (ie IRD number)
NZISM	NZ Information Security Manual—the security standards and best practices for Government agencies. Maintained by the NZ Government Communications Security Bureau (GCSB).
OAuth2	An HTTPS based protocol for authorising access to a resource, currently at version 2
SOAP	Simple Object Access Protocol—a set of standards for specifying web services. Gateway Services uses SOAP version 1.2



Acronym/term	Definition
SSL	Secure Sockets Layer certificates—used to establish an encrypted connection between a browser or user's computer and a service or website
START	Simplified Taxation and Revenue Technology—Inland Revenue's new core tax processing application. It is an implementation of the GenTax product from FAST Enterprises.
Statement of Activity	See Activity Statement
TLS1.2	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.
URL	Universal Resource Locator—also known as a web address
WSDL	Web Service Definition Language—an XML definition of a web service interface
X.509 certificate	An international standard for encoding and describing a digital certificate. In isolation a public key is just a very large number, the X509 certificate to which it is bound identifies whose key it is, who issued it, when it expires etc. When a counterparty's X509 digital certificate is received, the recipient takes their public key out of it and store the key in their own key store. The recipient can then use this key to encrypt and sign the messages that they exchange with this counterparty.
XIAMS	External IAMS—an instance of IAMS that authenticates and authorises access by external parties (such as customers, trading partners etc), as opposed to internal parties (such as staff)
XML	Extensible Markup 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
XSD	XML Schema Definition—the current standard schema language for all XML data and documents



7 Change log

This table lists all changes that have been made to this build pack document since V2 was created.

Date of change	Document section	Description
10/06/21	2.2	 Description of 'Update' and 'Terminate' operations updated
	5.2	 Error code 102 removed (The provided information was not specific enough to match with a single employment relationship)
	2.4	 Security section restructured – now contains sub- sections on information classification, transport layer security and certificates, ciphers, end points, and authentication and authorisation
	2.4.2	 New information added to provide for Inland Revenue's support for TLS1.3, and deprecation of certain TLS1.2 ciphers
		 Updated end point information on web service consumer identification for desktop connections (in table)
		Updated list of recommended certificate authorities
		 Updated list of requirements for accepting public X.509 keys – now includes ECDSA
	1	 Moved 'Mutual Transport Layer Security and certificates' section into section 2.4
		'Prerequisites' table removed and absorbed into section 2.4.2
	4	 Renamed 'End points, schema and WSDLs' section to 'Additional development resources'
		Removed section with redundant reference to end points
	5.1	 Updated description of following response code: (none) (soap fault) UnAuthorised
03/02/21	3.1, 3.2	 New codes added to list of approved tax codes as part of 2021 annual changes: SA and SASL
25/11/20	5.2	Error code 141 description note updated: Employees must use a 'ND' type tax code if they are using a zero IRD number. NOTE: A zero IRD number without an ND tax code can be valid for a non-resident entertainer or a non-resident contractor company. An employee details submission is not required in this case.
	3.1	Sample XML fragment reformatted to include start of element block: <emp1:employeeexemptincome></emp1:employeeexemptincome>



Date of change	Document section	Description
21/09/20	2.3	Resolved namespaces to v2
	4.2, 4.3	Corrected schema versions to v2
15/09/20	1.1	Updates made to boxed instructions for where to find additional information such as business-level context, use cases and links to relevant policy.
	1.3	Updated instructions on where to find related build packs.
	2.4	 Paragraph added at end of section with information on where to find updates to SOAP architecture
	3	Boxed text at start of section updated with new URL
	4	Entire section updated to reflect new URL for where to find end points, schema and WSDLs
07/09/20	5.2	Added error code 141
26/08/20	5.2	Added error code 140
16/04/20	2.3	 Removed "To:" from the first sentence on SOAP headers: All SOAP messages require a SOAP header containing To: and Action: parameters, as well as a SOAP body containing a structured XML payload.
03/04/20		V2 released