

Inland Revenue

Build Pack: Notification 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 supports efficient, electronic business interactions with Inland Revenue. The Notification Service described in this build pack document enables actionable event notifications to be retrieved by external software platforms.

Notifications are very lean. They are delivered to software rather than people. It is the responsibility of the software to prioritise, filter and decide when and how to respond to each notification using the data within it. The data in the notification is sufficient for this purpose and nothing more—for example, it may identify that an address or a filing frequency has changed, but it does not contain the newly-changed address or the new filing frequency.

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 payroll providers, tax practitioners, Kiwi Saver providers, banks and other financial institutions (referred to throughout the remainder of this document as 'Digital Service Providers').

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 Prerequisites

Party	Requirement	Description
Digital Service Provider	Acquire a X.509 certificate from a competent authority for the Test and Production environments	<p>This is required when using mutual TLS with cloud-based service providers or financial institutions.</p> <p>NOTE: The same certificate cannot be used for the Test and Production environments.</p>

1.3.1 Mutual Transport Layer Security and certificates

Mutual Transport Layer Security (TLS) is implemented for this API. This requires the use of a publicly-issued X509 certificate from one of the trusted certificate authorities. Inland Revenue does not issue certificates to external vendors for web service security implementations.

Inland Revenue has the following minimum requirements for accepting public X509 keys:

- Minimum Key Length: 2048
- Signature Algorithm: SHA256[RSA]
- Self-signed certificates are not accepted
- Certificates issued by a private/internal certificate authority are not accepted.

In general, shorter-lived certificates offer a better security posture since the impact of key compromise is less severe but there is no minimum requirement for certificate expiry periods.

Below is a list for examples of certificate authority providers with no recommendations or rankings incorporated. It is recommended that a business researches which certificate authority meets their requirements:

- [Comodo](#)
- [GeoTrust](#)
- [DigiCert](#)
- [GlobalSign](#)
- [Symantec](#)
- [Thawte](#)
- [IdenTrust](#)
- [Entrust](#)
- [Network Solutions](#)
- [RapidSSL](#)
- [Entrust Datacard](#)
- [GoDaddy](#).

1.3.2 Authentication options

1.3.2.1 OAuth

When using OAuth the interaction with IR is transacted under the identity of a myIR user. OAuth requires the presence of a myIR user, as this person must be available to supply their user ID, password and consent at run-time in order to be authenticated. OAuth is especially suited to cloud-based applications where the transacting parties are application users rather than providers.

1.3.2.2 JWT

The alternative to OAuth is JWT, which does not require the presence of a myIR user. Authentication is based on the verification of a digital signature that (provably) belongs to a customer. In order to digitally sign their messages, the customer must acquire a digital certificate from a trusted certificate authority, or generate a self-signed certificate, and supply it to Inland Revenue during the on-boarding process. JWT is therefore appropriate when the following conditions apply:

- The interaction with Inland Revenue is conducted under the identity of an organisation, as opposed to a person AND
- The organisation has the technical and operational capability to securely obtain and manage digital certificates AND
- The organisation's interactions with Inland Revenue can occur in the absence of specific people due to staffing issues such as out-of-hours non-availability, staff turnover and absence from work.

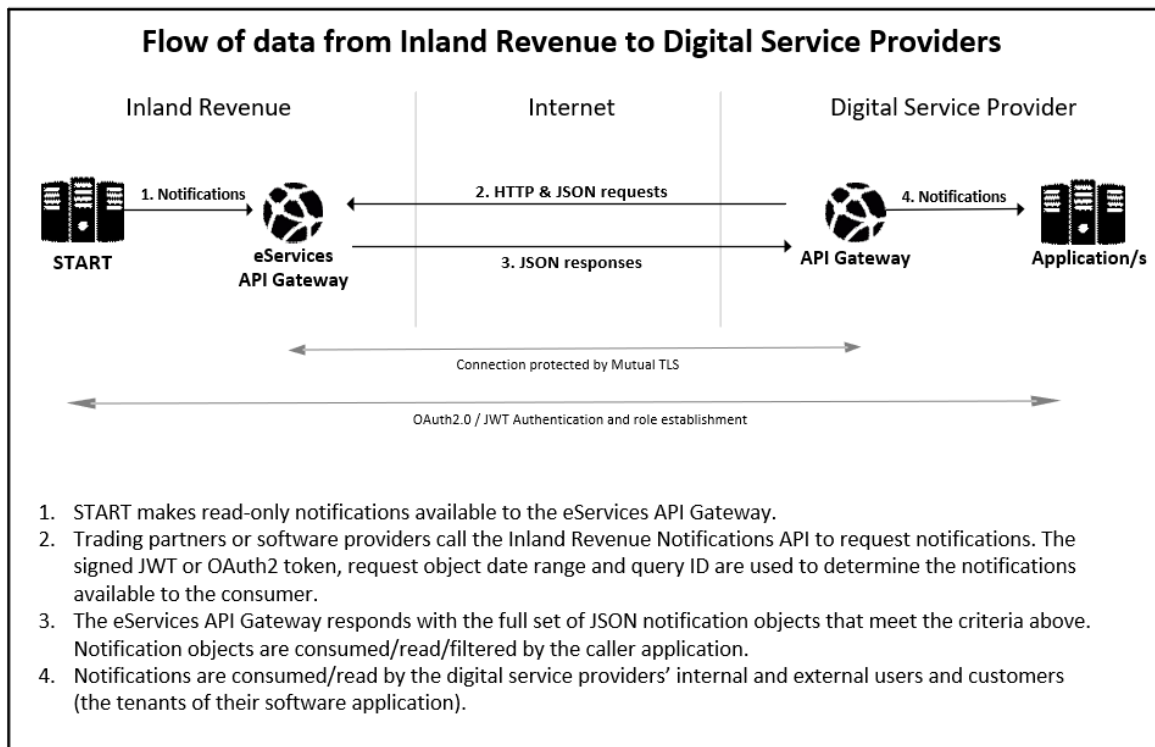
These factors tend to limit the use JWT to larger corporations and public sector organisations. It is not suitable for cloud-based applications as it requires all application users to have their own digital certificates—this is administratively burdensome and requires these users to lodge their private keys with their application provider, which is insecure.

2 Solution design

2.1 Architecture

Inland Revenue is offering a suite of web applications in order to facilitate interactions via software packages. This API will be used by approved organisations to retrieve notifications from Inland Revenue.

The diagram below illustrates the flow of data from Inland Revenue to the Digital Service Providers.



2.2 Supported message type

This service supports the following message type:

- **READ:** Retrieve notifications from Inland Revenue. Requires a 'from' date (with optional query ID), query ID type and a 'to' date.

2.3 Notifications

2.3.1 Request payload

Field	Description
QueryIDType	A set of ID types used to filter notifications
QueryID	The value of the above type
FromDateTime	The earliest point in time from which notifications can be selected based on their date-time stamp
ToDateTime	The latest point in time up to which notifications can be selected based on their date-time stamp. May be useful as a form of pagination.

A list of the valid values for **QueryIDType** is as follows:

Type	Description	Recipients
CLTLID	Non tax agent client list identifier	Multiple recipients
CST	A non-IRD Number type identifier	Single recipient
IRD	Inland Revenue Department ID	Single recipient
KSF	KiwiSaver Scheme ID	Single recipient
LSTID	Tax agent client list identifier	Multiple recipients

Note: **QueryID** and **QueryIDType** are to be used for filtering notifications, either down to a specific recipient or a set of recipients, depending on the **QueryIDType**. For both **CLTLID** and **LSTID**, notifications are returned for linked clients on the given client list. To return notifications for other combinations of multiple recipients, **QueryID** and **QueryIDType** should be omitted and **FromDateTime** should be used to limit the notifications returned.

2.3.2 Record ID

Field	Description
NotificationKey	Unique notification identifier
RecordCreated	Point in time the notification object was created
EventDate	Date time corresponding to event that created this notification
Category	Notification category
SubCategory	Notification sub-category
Type	Notification type
Description	A description of the notification
DocumentID	An identifier of a document that can be retrieved through the document service

Field	Description
DocumentLocationID	An identifier that is used to properly route a document submitted through the document service
ExtID	An external ID for providing more information with a notification
ExtIDType	The type of ExtID, if one is provided
IDType	An ID type for the customer to whom the notification corresponds
ID	The ID for the customer to whom the notification corresponds
SubjectIDType	The ID type of the subject of the notification, if applicable.
SubjectID	The ID of the subject of the notification, if applicable. If the notification pertains to a second customer, such as an employee of an employer or a member of a KiwiSaver scheme.
FilingPeriod	The end of the filing period to which the notification corresponds, if applicable
DueDate	A due date corresponding to the notification, if applicable

2.3.3 Notification limit

A limit is imposed on the number of notifications that are returned per call. This limit is currently 16,000 (sixteen thousand) notifications, as this value aligns to the maximum message size imposed by commonly used firewall devices. If this limit is exceeded, an error (NOT001) is returned, in which case the API caller is advised to reduce the size of the query using the FromDateTime and QueryID/QueryIDType parameters.

2.4 Security

The API will use and require a unique identifier to be provided to establish the calling party identity and authentication required by the access model. This design will use JSON Web Tokens (JWT) and OAuth2.0 tokens and protocol to establish the calling party's identity. The OAuth2.0 method requires a user to logon, while the other is a machine-to-machine credential.

Each HTTPS header contains the authorisation attribute JWT/OAuth:

1. A signed JSON Web Token (JWT) token. This will establish a registered digital services provider identity via the asymmetric public key held in the key store established during onboarding.
2. An OAuth2.0 token that is a customer- or intermediary-level XIAMS user account recognised by START.

The Notification Service uses an HTTPS transport layer, with HTTP1.1 transport protocol supported.

Regarding transport layer security (TLS), note that while TLS1.3 is now an industry standard, it is not yet widely adopted, as doing so requires upgrades to perimeter security devices and software. Inland Revenue will upgrade to TLS1.3 once it is

adopted widely enough, and where practical, external software partners should also anticipate upgrading to this version. TLS1.0 and TLS1.1 are not supported by myIR or Gateway Services.

Asymmetric keys of approved strength must be used. Inland Revenue requires the following ciphers and key strengths to be used:

Encryption:	Advanced Encryption Standard (AES)	FIPS 197	256-bit key
Hashing:	Elliptic Curve Digital Signature Algorithm (ECDSA) using P-256 or Secure Hash Algorithm (SHA-2) NOTE: ECDSA is preferred but RSA will be supported.	FIPS 180-3	SHA-256 (or greater)

Gateway Services will use this token in the HTTP header of a message in the same manner that an OAuth token has been used, namely:

`"Authorization: {JWTAccessToken}"`

Refer to the Identity and Access Services build pack for more information.

	End point for machine-to-machine connections
Purpose	<ul style="list-style-type: none"> End point for digital service providers to connect to.
Client application type	<ul style="list-style-type: none"> Cloud applications or in-house servers
Constraints	<ul style="list-style-type: none"> 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
Mutual TLS	<ul style="list-style-type: none"> 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 web service's sending party
Minimum TLS version	<ul style="list-style-type: none"> 1.2
URL	<ul style="list-style-type: none"> Contains .../gateway/..
Port	<ul style="list-style-type: none"> 4046
Web service consumer identification	<ul style="list-style-type: none"> Machine-to-machine authentication using client-signed JSON web tokens (JWT) OAuth2 authorisation using tokens generated by XIAMS
Firewalling in production	<ul style="list-style-type: none"> No IP address restrictions Access limited by certificate enrolment
Firewalling in non-production environments	<ul style="list-style-type: none"> No IP address restrictions Access limited by certificate enrolment

Delegated permissions: The services will allow one to retrieve all of the notification data for a customer or group of customers to which the calling user (as represented by the JWT or OAuth2 token) has access. There may be additional accounts this identity does not have access to, but those will not be mentioned. If an account or data within it is targeted by the request parameters but the user does not have permission, an error will be returned.

2.4.1 OAuth

HTTP headers intended for OAuth access services will have the JWT prefixed with "Bearer ".

HTTP header	Example value
Authorization	Bearer {JWTAccessToken}

Refer to the Identity and Access Services build pack for more information on authorisation flows.

2.4.2 M2M JWT

Authorisation intended for M2M (machine-to-machine) communication will not use "Bearer " flag on the HTTP header and only contain the JWT. The JWT will contain a field "startLogon" which can resolve to a myIR logon. The M2M JWT will be identified by a value of "M2M" in the Key ID ("kid"). The M2M JWT will be signed with a self-signed certificate, for which the public key was provided during onboarding.

HTTP header	Example value
Authorization	{JWTAccessToken}

Example data structure used for M2M authorisation:

```

Base64Url encoded {
  "alg": <algorithm value>,
  "typ": "JWT",
  "kid": "M2M"
}
.
Base64Url encoded {
  "sub": <token subject>,
  "iss": <issuer value>,
  "startLogon": <myIR_user>,
  "iat": <epoch issued value>,
  "exp": <epoch expired value>
}
.
JWS Signature (
  base64UrlEncode(header) + "." + base64UrlEncode(payload)
)
  
```

2.4.2.1 Header

Field	Requirement	Description	Valid values
alg	Required	Signature or encryption algorithm	RS256, RS384, RS512 ES256, ES384, ES512
typ	Required	Type of token	JWT
kid	Required	Key ID	M2M

2.4.2.2 Payload

Field	Requirement	Description	Valid values
sub	Required	Subject (to whom the token refers)	SHA-1 Thumbprint/fingerprint of signing certificate
iss	Required	Issuer who created this token	eg CompanyNameA
startLogon	Required	The myIR logon of a representative of the token subject. The subject must be the data owner.	Valid myIR logon, or null
iat	Required	Issued at. The number of seconds since Unix epoch 1 Jan 1970, UTC.	Must not precede the signing certificate issue date. Example: 1560144847
exp	Required	Expiration time. The number of seconds since Unix epoch 1 Jan 1970, UTC.	Must not exceed 8 hours from the iat (issued at) time value Example: 1574323940

2.4.2.3 startLogon

A myIR logon can be provided in order to use the myIR delegation model for identifying customers for whom notifications should be retrieved. If the myIR logon is provided, then notifications will only be shown for customers the logon can access. If a myIR logon is not used, the field should be included with a value of null, and the subject will determine the notifications shown.

2.4.2.4 sub

A subject must be provided, which is the thumbprint of the signing certificate, and can be used to determine which notifications should be retrieved. The subject will always be used to validate the signature of the JWT but will only be used for determining which notifications to retrieve when value for **startLogon** is not provided. The subject can be used for access in two distinct situations, when the subject is a KiwiSaver scheme provider, or when the subject is a tax preparer. If the subject is a KiwiSaver scheme provider, notifications will be returned for the current members of the scheme. If the subject is a tax preparer, notifications will be returned for customers currently linked to the tax preparer.

3 End points and OpenAPI specifications

3.1 End points

Current environment information for this service—including the end points for each environment—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).

3.2 OpenAPI specifications

An OpenAPI file allows you to describe your entire API, endpoints, operations on each endpoint, and operation parameters. The included .yaml file can be used along with an OpenAPI editor such as editor.swagger.io to view technical specifications for this operation and generate example client code.

To access the latest OpenAPI definition for this service, please do the following:

- Login to the developer portal at <https://developerportal.ird.govt.nz> (register first)
- Download and view the OpenAPI definition within the Gateway Service documentation.

4 Appendix

4.1 Available notifications

Type	Category	Sub-category	Description
KSSS1	Action Required	Employer	Employee has started KiwiSaver
KSSS2	Action Required	Employer	Employer has not started the employee on KiwiSaver since receiving the first request
TAXCDE	Errors requiring resolution	Employer	Incorrect tax code on Employment Service
RTNCMP	Event notification	Return	Assessment created
NEWMAL	Event notification	Customer	You have new mail
COLCAS	Request for information	Compliance	Collections case—Request for information
RTNPRC	Request for information	Compliance	Returns processing—Request for information
PIR	Action Required	PIE	Prescribed Investor Rate
ACCLNK	Event notification	Customer	An account has been linked to a business intermediary
ACCDLK	Event notification	Customer	An account has had a link removed or ceased for a business intermediary
ACCREG	Event notification	Customer	A new account has been registered
ACCCLS	Event notification	Customer	Account cease date has changed
COMSTS	Event notification	Customer	There has been a change to a company's active/non-active status
EOTCHG	Event notification	Return	Extension of time has changed
BALDAT	Event notification	Return	Balance date has changed
ACTBAS	Event notification	Return	Accounting basis has changed
PRVMTD	Event notification	Return	Provisional tax method has changed

Type	Category	Sub-category	Description
PRVASM	Event notification	Return	A provisional tax assessment has changed
INCGRP	Event notification	Return	Individual group indicator has changed
FILFRQ	Event notification	Return	Filing frequency has changed
TXPADD	Event notification	Return	A tax pooling indicator has been added
TXPRMV	Event notification	Return	A tax pooling indicator has been removed
RTNDUE	Event notification	Return	A return is now overdue
RTNDAS	Event notification	Return	A new default assessment has been added
RTNAVL	Event notification	Return	A return is now available to be filed
CSTSUB	Event notification	Customer	Customer sub-type has changed
DISPEN	Action required	Refund	A refund is pending and requires an updated bank account
INCWFT	Action required	Income Tax	WfFTC is waiting for an Income tax assessment
DTCINF	Action required	Income Tax	A donation tax credit application requires more information
QCIRMV	Event notification	Income Tax	A qualifying company indicator has been removed
LTCADD	Event notification	Income Tax	A look through company indicator has been added
LTCRMV	Event notification	Income Tax	A look through company indicator has been removed
CNGADD	Event notification	Income Tax	A consolidated group indicator has been added
CNGRMV	Event notification	Income Tax	A consolidated group indicator has been removed
CNMADD	Event notification	Income Tax	A consolidated group member indicator has been added

Type	Category	Sub-category	Description
CNMRMV	Event notification	Income Tax	A consolidated group member indicator has been removed
MAOADD	Event notification	Income Tax	A Māori authority indicator has been added
MAORMV	Event notification	Income Tax	A Māori authority indicator has been removed
ANRCHG	Event notification	Income Tax	Agent non-resident insurer has changed
ICAADD	Event notification	Income Tax	An imputation group (ICA) indicator has been added
ICARMV	Event notification	Income Tax	An imputation group (ICA) indicator has been removed
IMGADD	Event notification	Income Tax	An imputation group member indicator has been added
IMGRMV	Event notification	Income Tax	An imputation group member indicator has been removed
TRNTAS	Event notification	Income Tax	Trans-Tasman has changed
INCFNR	Action required	Income Tax	An IR4J/8J has not been received

4.1.1 KSSS1—KiwiSaver first request

Field	Example	Description
ID Type	IRD	Employer ID type
ID	132439958	Employer ID
Subject ID Type	IRD	Employee ID type
Subject ID	123346645	Employee ID
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.2 KSSS2—KiwiSaver second request

Field	Example	Description
ID Type	IRD	Employer ID type
ID	132439958	Employer ID
Subject ID Type	IRD	Employee ID type
Subject ID	132439966	Employee ID
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.3 TAXCDE—Incorrect tax code on Employment Service

Field	Example	Description
ID Type	IRD	Employer ID type
ID	132439958	Employer ID
Subject ID Type	IRD	Employee ID type
Subject ID	132439966	Employee ID
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.4 RTNCMP—Assessment created

Field	Example	Description
ID Type	ACC	Customer account ID type
ID	132439958INC003	Customer account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2019-03-31	Filing period of the return
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.5 NEWMAL—You have new mail

Field	Example	Description
ID Type	IRD	Customer ID type
ID	139149750	Customer ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.6 COLCAS—Collections case: Request for information

Field	Example	Description
ID Type	IRD	Customer ID type
ID	139149750	Customer ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	3518325791	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	3518325776	Location ID of where documents are organized. NOTE: Document LocationID can be used in the "Document service" to upload a requested document.
Due Date	N/A	Unused

4.1.7 RTNPRC—Return processing: Request for information

Field	Example	Description
ID Type	ACC	Account ID type
ID	139159608GST003	Account ID
Subject ID Type	IRD	Customer ID type
Subject ID	139159608	Customer ID
Ext ID	1770753664	Return submission key (if exists)
Ext ID Type	RTNSUB	Submission key associated to the return
Filing Period	2019-03-31	Filing period of the return
Document ID	3518538779	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	3518899223	Location ID of where documents are organised. NOTE: Document LocationID can be used in the "Document service" to upload a requested document.
Due Date	N/A	Unused

4.1.8 PIR—Prescribed Investor Rate

Field	Example	Description
ID Type	IRD	Investor ID type
ID	139149750	Investor ID
Subject ID Type	IRD	Payee ID type
Subject ID	139026020	Payee ID
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2019-03-31	Filing period of the PIE certificates
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.9 ACCLNK — Account linked

4.1.9.1 Link types supported

Link type	ID Type	ID Example
Tax agent	ACC	049051905INC001
Bookkeeper	ACC	059717502GST002
Other representative	ACC	017115111DWT004
Payroll bureau	ACC	017115111EMP005
PAYE Intermediary	ACC	014954495EMP002
Customer master	IRD	049051905

4.1.9.2 Field examples

Field	Example	Description
ID Type	ACC or IRD	Client ID type
ID	IRD: 049051905	Client IRD number
	ACC: 049051905INC001	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.10 ACCDLK — Account delinked

4.1.10.1 Link types supported

Link type	ID Type	ID Example
Tax agent	ACC	049051905INC001
Bookkeeper	ACC	059717502GST002
Other representative	ACC	017115111DWT004
Payroll bureau	ACC	017115111EMP005
PAYE Intermediary	ACC	014954495EMP002
Customer master	IRD	049051905

4.1.10.2 Field examples

Field	Example	Description
ID Type	ACC or IRD	Client ID type
ID	IRD: 139149750	Client customer ID
	ACC: 028807570INC002	Client account ID

Field	Example	Description
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.11 ACCREG — Account registered

4.1.11.1 Account types supported

Type	Account description	Type	Account description
AIL	Approved Issuer Levy	IPS	RWT on Interest
AIP	Account Information Provider	NRT	Non-Resident Withholding Tax
CRS	Common Reporting Standard	PIE	Portfolio Investment Entity
DWT	Dividend Withholding Tax	PRS	Payroll Subsidy
EQU	Income Equalisation	RDI	R&D Tax Incentive
ERA	Environmental Restoration	REB	Donation Tax Credit
FAM	Working for Families	RLT	Residential Land Withholding Tax
FAT	FATCA	RUL	Rulings and Determinations
FBT	Fringe Benefit Tax	RWT	Resident Withholding Tax
GMD	Gaming Machine Duty	SBC	Small Business Cashflow Scheme
GSD	Goods Sold in Sat. of Debt	SLS	Student Loans
GST	Goods and Services Tax		

4.1.11.2 Field examples

Field	Example	Description
ID Type	IRD or CST	Client ID Type
ID	IRD: 139375076	Client IRD number
	CST: 1512110304	Client customer number
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.12 ACCCLS — Account ceased

4.1.12.1 Account types supported

Type	Account description	Type	Account description
AIL	Approved Issuer Levy	IPS	RWT on Interest
AIP	Account Information Provider	NRT	Non-Resident Withholding Tax
CRS	Common Reporting Standard	PIE	Portfolio Investment Entity
DWT	Dividend Withholding Tax	PRS	Payroll Subsidy
EQU	Income Equalisation	RDI	R&D Tax Incentive
ERA	Environmental Restoration	REB	Donation Tax Credit
FAM	Working for Families	RLT	Residential Land Withholding Tax
FAT	FATCA	RUL	Rulings and Determinations
FBT	Fringe Benefit Tax	RWT	Resident Withholding Tax
GMD	Gaming Machine Duty	SBC	Small Business Cashflow Scheme
GSD	Goods Sold in Sat. of Debt	SLS	Student Loans
GST	Goods and Services Tax		

4.1.12.2 Field examples

Field	Example	Description
ID Type	ACC	Client account type
ID	031340268INC004	Client account
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.13 COMSTS — Company status change

Field	Example	Description
ID Type	IRD or CST	Client ID type
ID	IRD: 139375076	Client IRD number
	CST: 1512110304	Client customer number
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	23004725658671	Document ID of the company status change letter: <ul style="list-style-type: none"> Non-active company reactivation Confirmation Non-active company/trust application NOTE: Document ID can be used in the "Document service" to upload a requested document
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.14 EOTCHG — Extension of time changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	101182387INC003	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2021-03-31	Client filing period
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.15 BALDAT — Balance date changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	010248353INC002	Client account ID (INC only)
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	23004726788151	Optional Document ID of the INC change: <ul style="list-style-type: none"> Change of balance date NOTE: Document ID can be used in the "Document service" to upload a requested document
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.16 ACTBAS — Accounting basis changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	011268579GST002	Client account ID (GST only)
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	23004727554059	Optional Document ID of the GST registration change: <ul style="list-style-type: none"> GST Registration Confirmation Change to GST taxable periods/accounting basis NOTE: Document ID can be used in the "Document service" to upload a requested document
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.17 PRVMTD — Provisional tax method changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139377907INC003	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.18 PRVASM — Provisional tax assessment changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139377907INC003	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2018-03-31	Client filing period
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.19 INCGRP — Individual group indicator changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139377907INC003	Client account ID (INC only)
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2019-03-31	Client filling period
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.20 FILFRQ — Filing frequency changes

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139377907GST002 139377907FBT001	Client account ID (GST or FBT only)
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	23004727685133	Optional for GST Document ID of the GST registration change: <ul style="list-style-type: none"> • GST Registration Confirmation • Change to GST taxable periods/accounting basis NOTE: Document ID can be used in the "Document service" to upload a requested document. ** There is no document ID for FBT
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.21 TXPADD — Tax pooling indicator added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139340043INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.22 TXPRMV — Tax pooling indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139340043INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.23 RTNDUE — Return overdue

NOTE: This notification type is created for all account types where the filing period is greater than two years.

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139331729GST002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-05-31	Return filing period
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	2020-06-29	Return due date

4.1.24 RTNDAS — New default assessment

NOTE: This notification type is created for all account types

Field	Example	Description
ID Type	ACC	Client account ID type
ID	085697037INC002	Client account ID
Subject ID Type	N/A	Unused

Field	Example	Description
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	2021-03-31	Return due date

4.1.25 RTNAVL — Return available to be filed

NOTE: This notification type is created for all account types

Field	Example	Description
ID Type	ACC	Client account ID type
ID	085697037INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	2021-03-31	Return due date

4.1.26 CSTSUB — Customer sub-type has changed

Field	Example	Description
ID Type	IRD or CST	Client ID Type
ID	IRD: 132255091	Client IRD number
	CST: 1512110304	Client customer number
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.27 DISPEN — Refund pending (Bank account required)

Field	Example	Description
ID Type	ACC	Client account ID type
ID	085697037INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Filing period
Document ID	23004733733921	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.28 INCWFT — INC details required to finalize WfFTC

Field	Example	Description
ID Type	ACC	Client account ID type
ID	085697037INC002 132291926FAM003	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	23004734822417	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.29 DTCINF — DTC - More information required

Field	Example	Description
ID Type	ACC	Client account ID type
ID	044434792REB006	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	23004734024728	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.30 QCIRMV — Qualifying company indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	086584565INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	23004734024728	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.31 QCIRMV — Qualifying company indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	123051362INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.32 LTCADD — A qualifying company indicator has been added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	095234232INC005	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.33 LTCRMV — Look Through company indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	132348154INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.34 CNGADD — Consolidated group indicator added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	123347129INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.35 CNGRMV — Consolidated group indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	123330471INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.36 CNGRMV — Consolidated group indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	031374138INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused

Field	Example	Description
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.37 CNMADD — Consolidated group member added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	010289548INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.38 CNMRMV — Consolidated group member removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139376331INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.39 MAOADD — Maori authority indicator added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	078583061INC005	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.40 MAORMV — Maori authority indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	132245738INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.41 ANRCHG — Agent Non-Resident insurer changed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139206398INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused

Field	Example	Description
Due Date	N/A	Unused

4.1.42 ICAADD — Imputation group (ICA) indicator added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139374959INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.43 ICARMV — Imputation group (ICA) indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	066456927INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.44 IMGADD — Imputation group member indicator added

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139117468INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused

Field	Example	Description
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.45 IMGRMV — Imputation group member indicator removed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	139376382INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.46 TRNTAS — Trans Tasman changed

Field	Example	Description
ID Type	ACC	Client account ID type
ID	031374138INC002	Client account ID
Subject ID Type	N/A	Unused
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	N/A	Unused
Document ID	N/A	Unused
Document Location ID	N/A	Unused
Due Date	N/A	Unused

4.1.47 INCFNR — An IR4J/8J has not been received

Field	Example	Description
ID Type	ACC	Client account ID type
ID	085697037INC002	Client account ID
Subject ID Type	N/A	Unused

Field	Example	Description
Subject ID	N/A	Unused
Ext ID	N/A	Unused
Ext ID Type	N/A	Unused
Filing Period	2020-03-31	Return filing period
Document ID	23004734822417	Document ID of the letter requesting information. NOTE: Document ID can be used in the "Document service" to upload a requested document.
Document Location ID	N/A	Unused
Due Date	N/A	Unused

5 Glossary

Acronym/term	Definition
API	Application Programming Interface—set of functions and procedures that allow applications to access the data or features of another application, operating system or other service.
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
End points	A term used to describe a web service that has been implemented
FIPS	Federal Information Processing Standard—a suite of IT standards from the US Federal Government
Gateway	Inland Revenue’s web services gateway
HTTP, HTTPS	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.
IAS	Identity and Access Service
IP	Internet Protocol—the principal communication protocol in the Internet protocol suite for relaying datagrams across networks
IRD	Inland Revenue Department (ie IRD Numbers)
JWT	JSON Web Token—a compact, URL-safe means of representing claims to be transferred between two parties
M2M	Machine-to-machine communication
OAuth	An HTTPS based protocol for authorising access to a resource, currently at version 2
OpenAPI specifications	Formerly known as Swagger specifications—a specification for machine-readable interface files for describing, producing, consuming and visualising RESTful web services.
Payloads	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.
Schemas	An XML schema defines the syntax of an XML document, in particular of a payload. The schema specifies what a valid payload must or can contain, as well as validating the payload.
SHA	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.

Acronym/term	Definition
SOAP	Simple Object Access Protocol—a set of standards for specifying web services. GWS uses SOAP version 1.2
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—IR’s new core tax processing application. It is an implementation of the GenTax product from FAST Enterprises.
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
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 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.
XIAMS	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
YAML	"YAML Ain't Markup Language"—a human-readable data-serialisation language commonly used for configuration files and in applications where data is stored or transmitted.

6 Change log

This table lists all material changes that have been made to this build pack document since its release (most recent changes listed first). It does not encompass non-material changes, such as to formatting etc.

Version	Date of change	Document section	Description
V1	27/10/20	4.1 4.1.47	Removed notification type <ul style="list-style-type: none"> • RTNINN
		1.3.2	New section added – 'Authentication options'
	01/10/20	4.1*	Issued updated YAML Removed notification type <ul style="list-style-type: none"> • AUDCAS Added notification types <ul style="list-style-type: none"> • INCFNR • RTNINN
	31/08/20	4.1.*	Added sub-category "Refund" Added notification types <ul style="list-style-type: none"> • TXPADD • TXPRMV • RTNDUE • RTNDAS • RTNAVL • CSTSUB • DISPEN • INCWFT • DTCINF • QCIRMV • LTCADD • LTCRMV • CNGADD • CNGRMV • CNMADD • CNMRMV • MAOADD • MAORMV • ANRCHG • ICAADD • ICARMV • IMGADD • IMGRMV

Version	Date of change	Document section	Description
			<ul style="list-style-type: none"> TRNTAS
	17/08/20	2.3.3	Notification limits section updated to specify 16,000 limit
	06/08/20	2.4.2.1	Typo corrected in value values field for 'alg'
		3	Entire section updated
		1.1	Added boxed text at end of section
	26/06/20	4.1 4.1.14 to 4.1.20	Added notification types <ul style="list-style-type: none"> EOTCHG - Extension of time changes BALDAT - Balance date changes ACTBAS - Accounting basis changes PRVMTD - Provisional tax method changes PRVASM - Provisional tax assessment changes INCGRP - Individual group indicator changes FILFRQ - Filling frequency changes
	17/06/20	4.1 4.1.9 to 4.1.13	Added notification types <ul style="list-style-type: none"> ACCLNK - Account linked ACCDLK - Account delinked ACCREG - Account registered ACCCLS - Account ceased COMSTS - Company status change
	03/04/20		<ul style="list-style-type: none"> V1 released