Gateway Notifications

Business use cases

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Gateway Notifications Business Use Cases

This document provides a selection of notification use cases to clarify how the Notification Service can be used.

Notifications have enough data for the external software to prioritise, filter and decide on the response to each notification, but it may not contain all data required for action. For this reason, use of other 'downstream' services in conjunction with the Notification service may be required to retrieve all data necessary.

How to use this document

These use cases show sequences of IR's Gateway Notification Service operations that can be used to achieve a specific business outcome.

They do not comprise a comprehensive list of all required business outcomes, nor are they prescriptive or intended to inhibit software innovation.

Additionally the processes described to invoke these operations should not inhibit innovation to combine calls across the Gateway Service to achieve the same outcome or solve business needs not described here.

Summary of notification use cases

		Notification Service operation	Downstream Service operation
#	Business use case	Notifications	Downstream Service retrieve operation
1	Receive notifications for one person	1	
2	Receive notifications for more than one person	1	
3	Retrieve additional data from downstream service		2

Notes

1 A pre-condition of these use cases is that the actor is authenticated and authorised. See the Identity and Access Management details here Managing myIR logons for gateway services (ird.govt.nz).

2 After an external third party has received a notification via the Notification service, the term 'downstream' service is used here to represent another Gateway service that is subsequently called to retrieve further relevant data.

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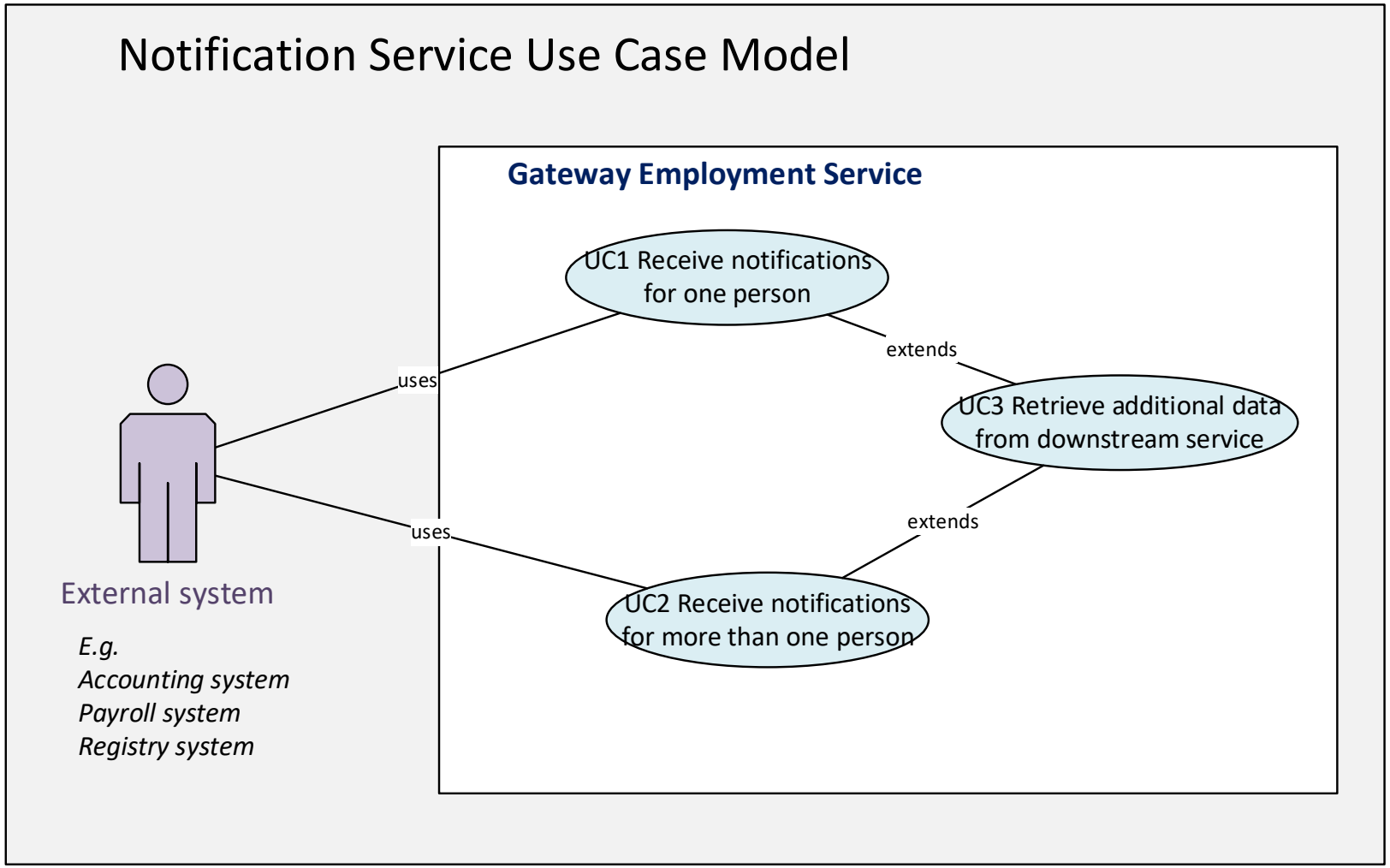
Use Case Model



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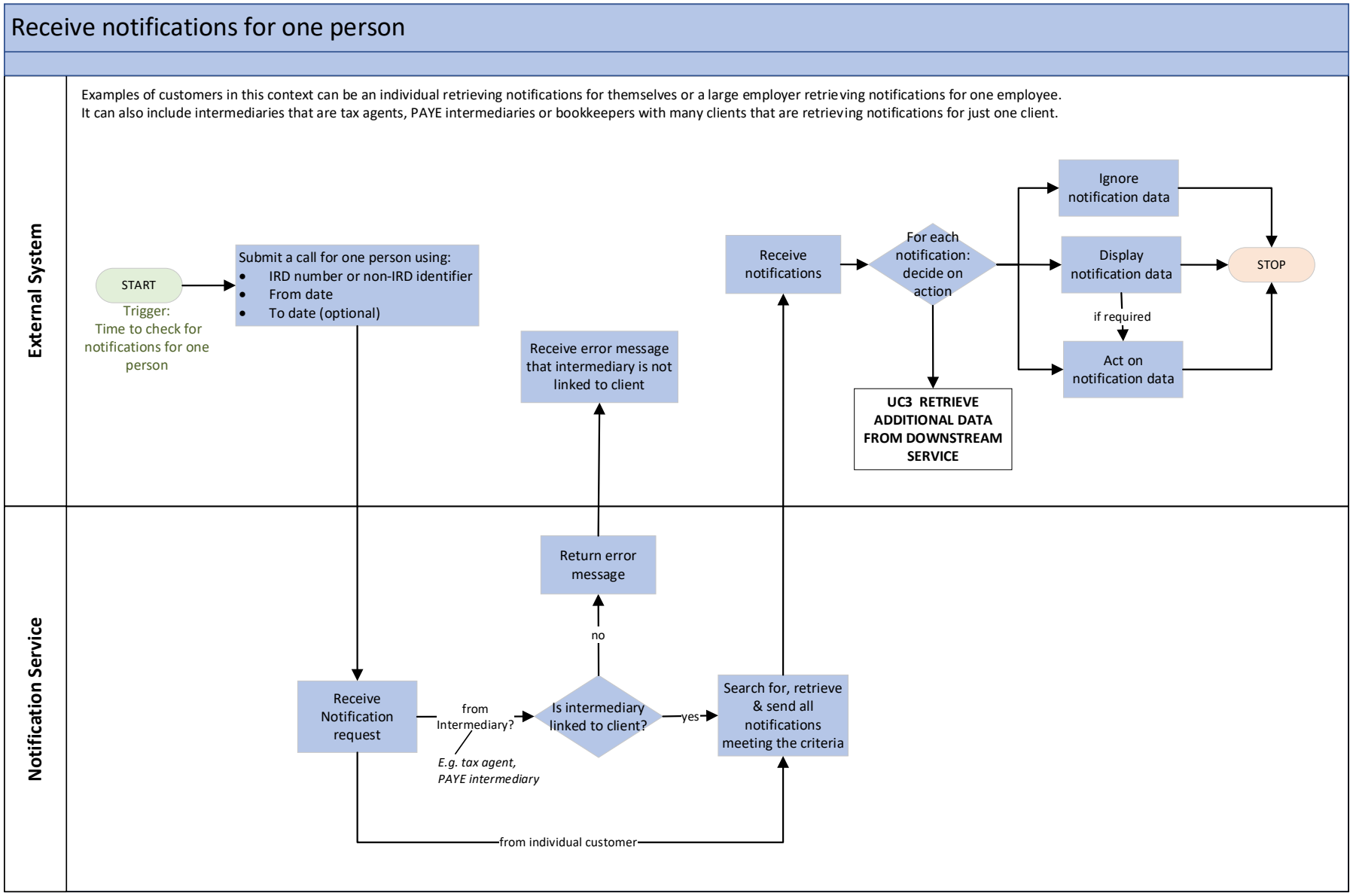
Use Case 1: Receive notifications for one person



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Use Case 1: Receive Notifications for One Person

Trigger: Time to check notifications for one person.

Actor	• External system
Secondary Actor	• User of external system • Notification service • Downstream service e.g. Customer API, Account API, Period API, Document service
Description	• Actor requests and receives notifications from the Notification service for themselves/one client • Actor decides and initiates the next action for each notification
Pre-Conditions	• Employer is enrolled for Notification service and downstream service/s required • A user of the external system is authenticated, authorised with required level of access and logged in to the external system.
Post-Conditions	• Actor receives notifications and all related information as required via downstream services
Use Case Scenarios	
1. Normal Flow	1.1 Actor submits a call to the Notification service for a single person with a request including: • the person's IRD number **or** non-IRD identifier • **and** a 'from date' • **and** optionally a 'to date' 1.2 Notification service receives the request and if the request is from an intermediary e.g. tax agent, checks that the intermediary is linked to that client **5. Exception Flow: Intermediary not linked to the client** 1.3 Notification service searches for and retrieves all notifications for: • The requested person • where the notification was created on or after the 'from date' • **and** (if supplied) where the notification was created on or before the 'to date' 1.4 Notification service returns each notification with any of this data as applicable: Event date, category, sub-category, type, description, ID type, ID, subject ID type, subject ID, external ID type, external ID, document ID, document location ID, filing period and due date 1.5 Actor receives the notification data sent and decides on the action for each notification **For each notification:**

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	1.6 Actor decides to retrieve additional data about notification from another downstream service **2. Alternate Flow: Display notification data** **3. Alternate Flow: Act on notification data** **4. Alternate Flow: Ignore notification** **1.7** Extend to **Use Case 3: Retrieve additional data from downstream service** 1.8 Use case ends
2. Alternate Flow: **Display notification data**	2.1 Actor displays notification data for the person 2.2 Actor executes action if required 2.3 Use case ends
3. Alternate Flow: **Act on notification data**	3.1 Actor performs action on notification data for the person 3.2 Use Case ends
4. Alternate Flow: **Ignore notification**	4.1 Actor has no further action on notification 4.2 Use Case ends
5. Exception Flow: **Intermediary not linked to client**	5.1 Notification Service returns a response code with error message. 5.2 Use Case ends

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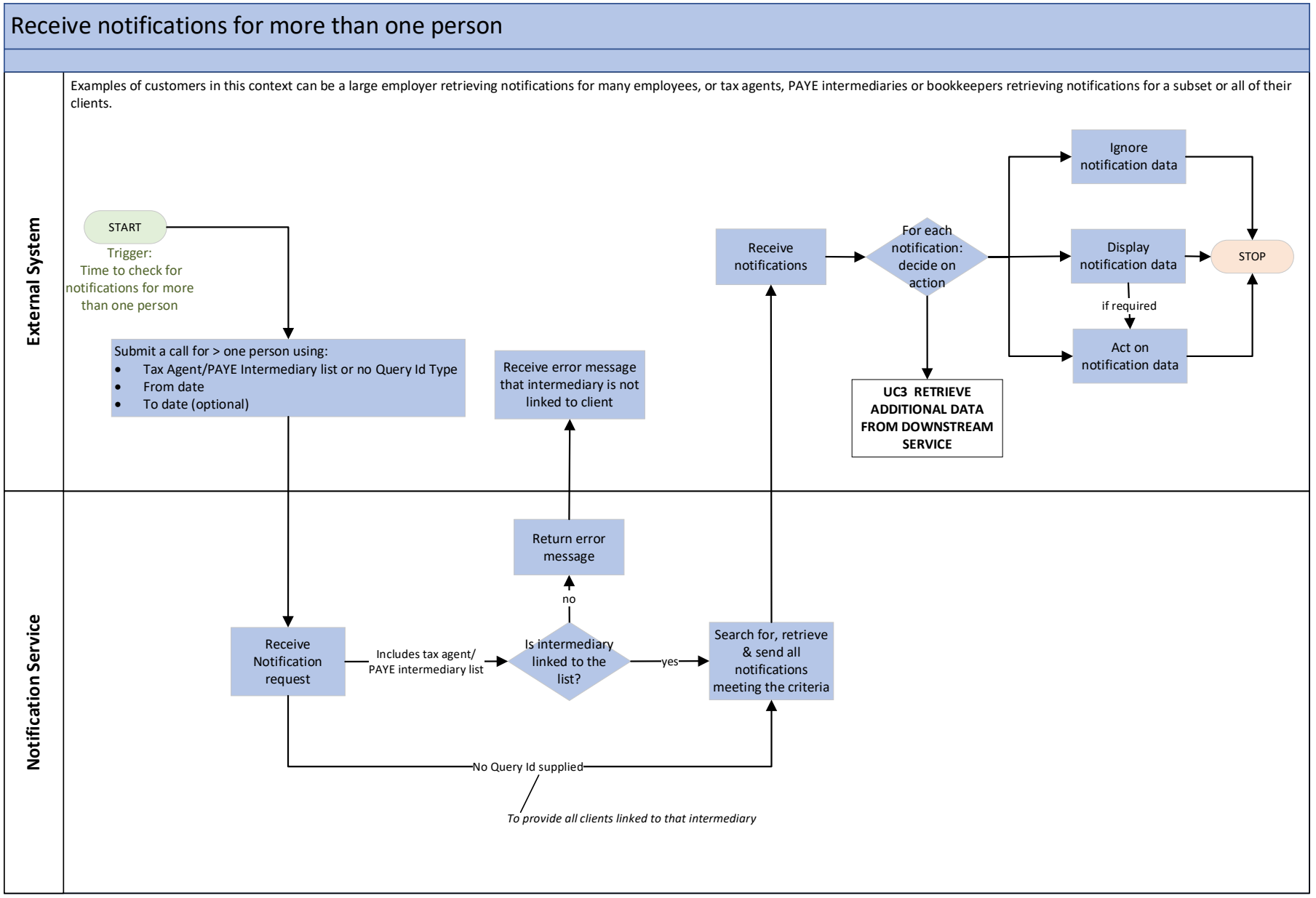
Use Case 2: Receive notifications for more than one person



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Use Case 2: Receive Notifications for More than One Person

Trigger: Time to check notifications for more than one person.

Actor	• External system
Secondary Actor	• User of external system • Notification service • Downstream service e.g. Customer API, Account API, Period API, Document service
Description	• Actor requests and receives notifications from the Notification service for more than one client • Actor decides and initiates the next action for each notification
Pre-Conditions	• A user of the external system is authenticated and authorised with required level of access. • Actor is enrolled for Notification service and downstream service/s required
Post-Conditions	• Actor receives notifications and all related information as required via downstream services
Use Case Scenarios	
1. Normal Flow	1.1 Actor submits a call to the Notification service for more than one person with a request including: • a tax agent/PAYE intermediary client list id **or** a non-tax agent client list id **or** no Query Id types • **and** a 'from date' • **and** optionally a 'to date' 1.2 Notification service receives the request and if a Tax Agent/PAYE Intermediary list id is included, it checks that the intermediary is linked to that list **5. Exception Flow: Intermediary not linked to the Tax Agent/PAYE Intermediary list** 1.3 Notification service searches for and retrieves all notifications for • People on the tax agent/PAYE intermediary list or non tax-agent list queried or the existing list that contains linked clients • **and** where the notification was created on or after the 'from date' • **and** (if supplied) where the notification was created on or before the 'to date' 1.4 Notification service returns each notification with any of this data as applicable: Event date, category, sub-category, type, description, ID type, ID, subject ID type, subject ID, external ID type, external ID, document ID, document location ID, filing period and due date

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	1.5 Actor receives the notification data sent and decides on the action for each notification For each notification: 1.6 Actor decides to retrieve additional data about notification from another downstream service **2. Alternate Flow: Display notification data** **3. Alternate Flow: Ignore notification** **1.7 Extend to Use Case 3: Retrieve additional data from downstream service** 1.8 Use case ends
2. Alternate Flow: **Display notification data**	2.1 Actor displays notification data for the person 2.2 Actor executes action if required 2.3 Use case ends
3. Alternate Flow: **Act on notification data**	3.1 Actor performs action on notification data for the person 3.2 Use Case ends
4. Alternate Flow: **Ignore notification**	4.1 Actor has no further action on notification 4.2 Use Case ends
5. Exception Flow: Intermediary not linked to Tax Agent/PAYE Intermediary list	5.1 Notification Service returns a response code with error message. 5.2 Use case ends.

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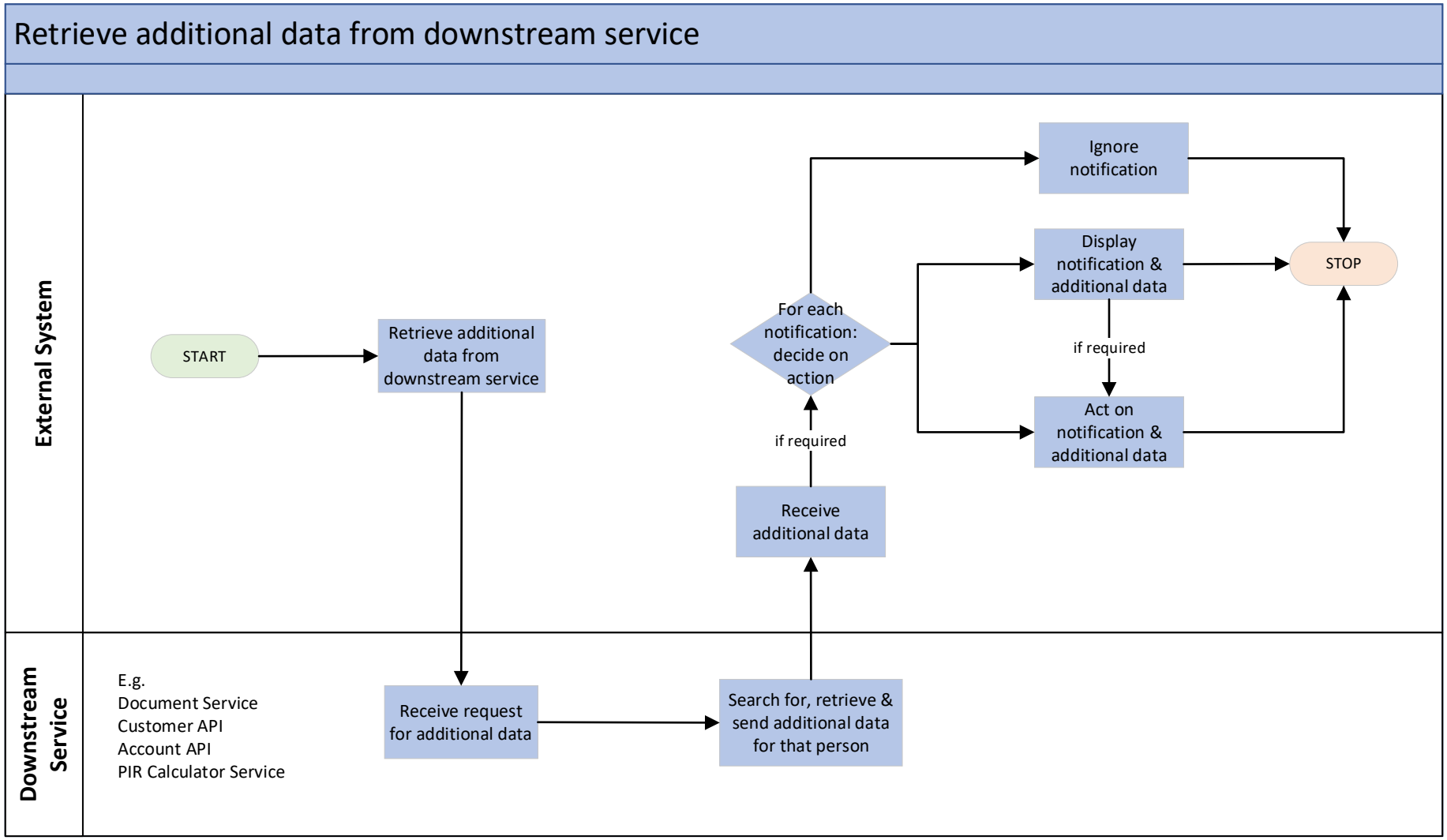
Use Case 3: Retrieve additional data from downstream service



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Use Case 3: Retrieve Additional Data from Downstream Service

Actor	• External system
Secondary Actor	• Downstream service e.g. Customer API, Account API, Period API, Document service
Description	• Actor requests and receives data about one or more clients from a downstream service • Actor decides and initiates the next action
Pre-Conditions	• Actor is enrolled for downstream service/s
Post-Conditions	• Actor receives required data for downstream services, which may determine the next action
Use Case Scenarios	
1. Normal Flow	1.1 Actor submits a call to the downstream service 1.2 Downstream service searches for, retrieves and returns data relating to one or more people, to the actor 1.3 Actor receives data, decides on and executes action required 1.4 Use case ends

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Notification User Type	Expected Third Party System	Main Query Id Types Used (this is optional so can also be null for all cases)	Suggested Downstream Services	Downstream Examples
Tax Agent	Accounting system	IRD number(IRD), non-IRD identifier (CST), Tax Agent/PAYE Intermediary list (LSTID)	Document service, Return service, Customer API, Account API, Period API, Bank API	**Notification Type:** *RTNCMP – Assessment created* After notification received, then accounting system can retrieve additional data via the *Return service* or the *Document service* **Notification Type:** *ACCREG – Account Registered* After notification received, then accounting system can retrieve additional data such as account type, filing frequency, start and end dates via the *Account API*
Non-Tax Agents e.g. Bookkeepers	Accounting system	IRD number(IRD), non-IRD identifier (CST), Non-Tax Agent client list (CLTLID)	Document service, Customer API, Account API, Period API, Bank API	
KiwiSaver scheme provider	Registry system	IRD number(IRD), non-IRD identifier(CST), KiwiSaver scheme Id (KSF)	PIR Calculator service	**Notification Type:** *PIR – Prescribed Investor Rate* After notification received to inform that the PIR rate may be incorrect, then accounting system can call the *Prescribed Investor Rate service* to find the suggested PIR rate for the person
Non-KiwiSaver scheme provider	Registry system	IRD number(IRD), non-IRD identifier (CST)	PIR Calculator service	
Employer	Payroll system	IRD number (IRD)	Document service	**Notification Type:** *KSSS1 – KiwiSaver First Request* After notification received to inform that KiwiSaver deductions have not been made for an employee with KiwiSaver, then payroll system can call the *Document service* to find the details of the change reason, start date and employee deduction rate.
Payroll Intermediary	Payroll system	IRD number(IRD), Tax Agent/PAYE Intermediary list (LSTID)	Document service	

Refer to the 'Notification Table' on the IR website for a complete list of all notifications, expected notification data and suggested downstream services to use in order to retrieve all required data.