

# Instant Cash Reporting Self-onboarding Guide for Consumers (over MV-SIPN)



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April 2023  
Instant Cash  
Reporting  
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Guide

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## Introduction

This document describes the steps to follow if your institution decides to go through its Instant Cash Reporting onboarding in a self-service manner.

This document is targeted to the following audiences:

- **Project manager:** You ensure your teams complete all projects
- **Business analyst:** You define your business analysis requirements and perform its quality assurance
- **Developers:** You test and deploy the programs and systems
- **SWIFT and network engineer:** You establish and maintain your bank's network performance

We assume that prior starting with your self-onboarding, the below steps have been done:

- ✓ You understand how your institution and your customers can benefit from using Instant Cash Reporting service.
- ✓ You filled-in the registration form on SWIFT.com page and you read the Instant Cash Reporting Service Description and Terms & Conditions.
- ✓ Your SWIFT contact evaluated your institution as capable of going through a self-onboarding process.

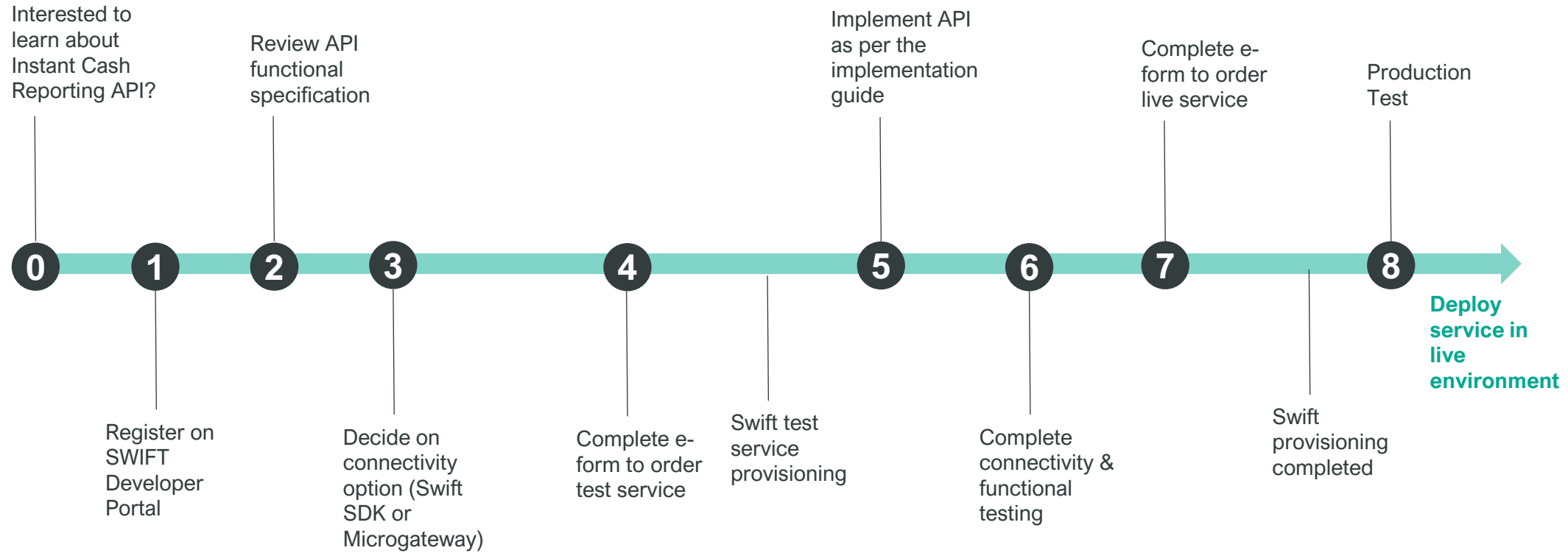
# Onboarding Journey Overview

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# Instant Cash Reporting Onboarding Journey Overview for Consumer

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# Self-onboarding process

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# Step 1 – Register on SWIFT Developer Portal

Please use your swift.com account to sign up on [SWIFT Developer Portal | APIs](#). The developer portal will provide the necessary consumer key and secret to access the sandbox environment with your application. Swift account is required to download the specification.

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The screenshot shows the SWIFT developers portal interface. At the top, there is a navigation bar with the 'Swift developers' logo on the left and menu items 'APIs', 'Reference', 'Partners', 'Support', and 'About' on the right. A search icon is also present. Below the navigation bar, there is a search bar with the placeholder text 'Search for API, Service or Features'. The main content area is divided into a left sidebar and a main content area. The sidebar has two sections: 'Consumer' with links for 'Financial Institution' and 'Corporate', and 'Category' with links for 'Connectivity', 'Instant Treasury', 'Payments', 'RTGS', 'GPI', 'Pre-validation', 'Securities', 'Trade Finance', 'Ref Data', 'Compliance', and 'Business Intelligence'. The main content area has a 'Search' section with the text 'Displaying 1 - 29 of 29'. Below this is a section titled 'Instant Treasury' which contains two API cards. The first card is 'Payment Initiation API' for 'Financial Institution, Corporate' with a 'Direct Debit' tag and a description: 'The Payment Initiation API is used by a debtor to instruct their bank (or other payment service provider) to move funds from their account to a beneficiary account.' The second card is 'Instant Cash Reporting API' for 'Corporate' with a description: 'The solution for seamless, secure and reliable account data delivery.' This second card is highlighted with a red border. Both cards show 'Financial Ins...' and 'V 1.0' at the bottom.

## Step 2 – Review API functional specification

**1** Click 'View reference'

### Instant Cash Reporting API

Version 1.0 Pilot

#### Context

In an increasingly data-driven world, the efficiency of financial reporting has never been more important. In order to manage the cash flow effectively, businesses need to be able to track and report on transactions and account balances in real time. Unfortunately, traditional reporting methods are often inefficient and slow. Furthermore, different countries and servicing institutions often have different reporting standards, which can make it difficult to see the full picture.

#### Introducing Instant Cash Reporting

The Instant Cash Reporting (ICR) API is on the promise to revolutionize how banks share information. It is a global, standardized way of sharing account balances and statements in real-time. In addition, the Instant Cash Reporting API is secured by Swift network and compliant with all major regulations thanks to ISO20022 by design approach. Banks and multi-national Corporates can be confident that their data is safe when using this API.

#### Developer Reference

Ready to take the API for a spin?

Use the developer references such as the **OpenAPI specification**, **SDK** and **postman collection** to get you started!

[View Reference](#)

**2** Click 'View OpenAPI specification'

### Instant Cash Reporting API

[View OpenAPI specification >](#)

The solution for seamless, secure and reliable account data delivery.

[▶ Run in Postman](#)

**3** Download API specification

### Instant Cash Reporting API (1.0.9)

Download OpenAPI specification: [Download](#)

Standards & Developer Hub: [developer-ppport@swift.com](mailto:developer-ppport@swift.com)

URL: <https://developer.swift.com>

License: **Community API Redistribution License**

The API is used by the consumer of the API to get account information and reporting of global, multi-country Account statement and Debit/Credit entries. At any time during the operating hours of the system, the account owner can request to get information about



## Step 3 – Select your connectivity option (Swift SDK/Microgateway\*)



**Swift SDK**

Swift SDK takes care of the lower-level plumbing including authentication, authorization, signing and error handling.

- Ready to use API Client supporting ISO 20022.
- No Need to install Swift Proprietary Software results in faster time to start development
- Can be embedded in consumers' Java applications – adds complexity of MV-SIPN's APIs security model handling
- More information: [SWIFT Developer Portal | Swift SDK](#)



**Microgateway**

Swift Microgateway is a software product that allows firms to configure, manage, and monitor all API calls they make on the platform.

- Ready to use API Proxy supporting ISO 20022
- Must be installed on premise to enable API consumption that in some cases adds up resulting in longer time to start development
- Saves development time with handling the complexity of MV-SIPN's APIs security model implementation
- More information: [SWIFT Developer Portal | Swift Microgateway](#)

\* Full list of Consumer connectivity options: Swift SDK, Swift Microgateway, Swift SDK on top of Swift Microgateway, Swift Security SDK, Swift zero-footprint.

## Step 3.5 – Discuss the service with you Bank(s)

Before placing an order with Swift, we encourage companies to reach out to the servicing Bank(s) to discuss:

- Availability of the ICR API service via Swift;
- Additional procedures and document to be signed with Bank(s)
- Other Bank <> Client specific

*(Note: As of now we don't have Banks that provide the service, but in the future we can list Banks on nthis slide/somewhere else on dev.portal maybe)*

## Step 4 – Complete e-form and order test service

Follow the standard Swift ordering process to order test service for the development purposes:

- Order the test service by completing the e-form available via [this link](#)
- Complete the order details by providing your BIC and implementation date from dropdowns.
- Verify details and confirm the information provided in Step 1.
- We will confirm receipt of the order. The person who placed the order will receive automated providing status updates.
- No order is binding until Swift has notified the customer that Swift has accepted the order

## Step 5 – API Consumption

- Consumer companies are expected to develop API request components for initiating calls and handling authentication and authorization with Swift using selected connectivity option.
- Implement error handling and retry mechanisms to ensure robust API consumption, to support for potential failures and rate limits.
- Develop data processing capabilities, such as parsing, filtering, and transforming the API response to align with the companies' expected data structures.
- Optional: for companies using software vendors the API consumption and processing may already be implemented or require additional support from the vendors.
- Pro Tip: to fully benefit from API integration, ensure your team or vendor has the expertise to handle data management and processing.

## PKI Profile Overview

An authorised security officer of the customer must request the registration of an entity and request the issuance of certificate in respect of specific BIC8. The SWIFTNet Certification Authority stores the certificates in the SWIFTNet Directory with the Distinguished Names (DNs) that were requested during registration.

Instant Cash Reporting service supports two types of certificates:

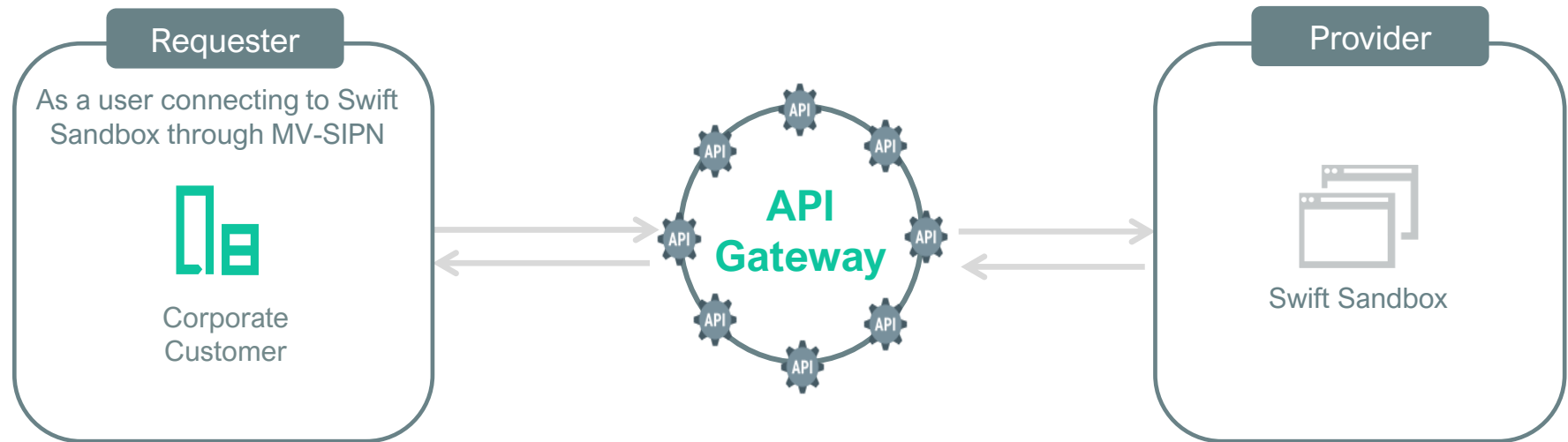
- **Business Certificates** - Business certificates provide SWIFTNet customers with a strong level of authentication and non-repudiation. These certificates are stored on Hardware Security Modules (HSMs)
- **Channel Certificates** - A channel certificate is an encrypted, disk-based profile file that provides a means for SWIFT to authenticate the identity of an application, or to secure the connection between a client application and the SWIFT servers.

Once the certificate is created, the security officer must assign RBAC roles on *swift.cash.management!p* API service.

For more information about SWIFTNet PKI, see the [SWIFTNet PKI Service Description](#) and the [SWIFTNet PKI Certificate Administration Guide](#).

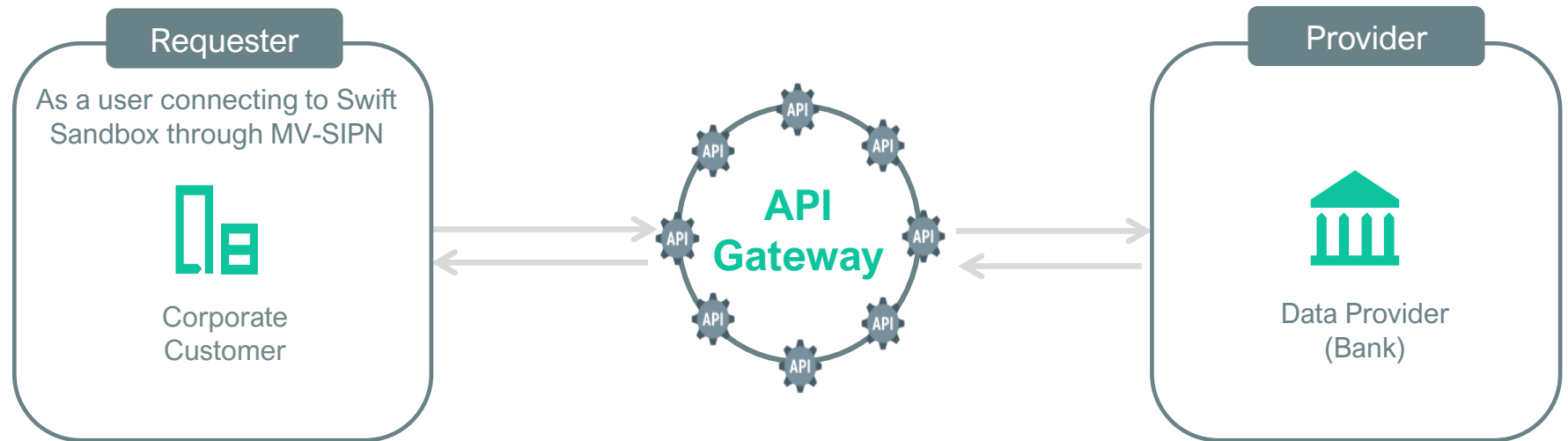
## Step 6 – Connectivity Testing

Pre-condition	Test Description	Exit Criteria
<ul style="list-style-type: none"> <li>• Corporates to sign up on the developer portal to get the application keys</li> <li>• API specification implemented</li> <li>• E-forms completed (test service)</li> <li>• Service provisioned (by SWIFT)</li> </ul>	<ul style="list-style-type: none"> <li>• Corporates/Vendors to test against the SWIFT sandbox environment to demonstrate ability to generate API requests and consume the results according to the specification.</li> </ul>	<ul style="list-style-type: none"> <li>• Service consumers and providers should certify themselves as having the capability to generate API requests and responses in conformance with the API specification</li> </ul>



## Step 6 – Functional Testing

Pre-condition	Test Description	Exit Criteria
<ul style="list-style-type: none"> <li>• Testing completed in accordance with the API specification</li> <li>• SWIFT Provisioning complete</li> <li>• Test data sets ready</li> <li>• Test scenarios ready</li> </ul>	<ul style="list-style-type: none"> <li>• Corporates to invoke the APIs and execute the test scenarios to ensure                             <ul style="list-style-type: none"> <li>• They can connect to the bank</li> <li>• The expected results are received from the bank</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Criteria to be agreed between the consumer and their bank to confirm test completion.</li> </ul>



## Step 7 – Complete e-form and order live service

Follow the standard Swift ordering process to order live service for production environment:

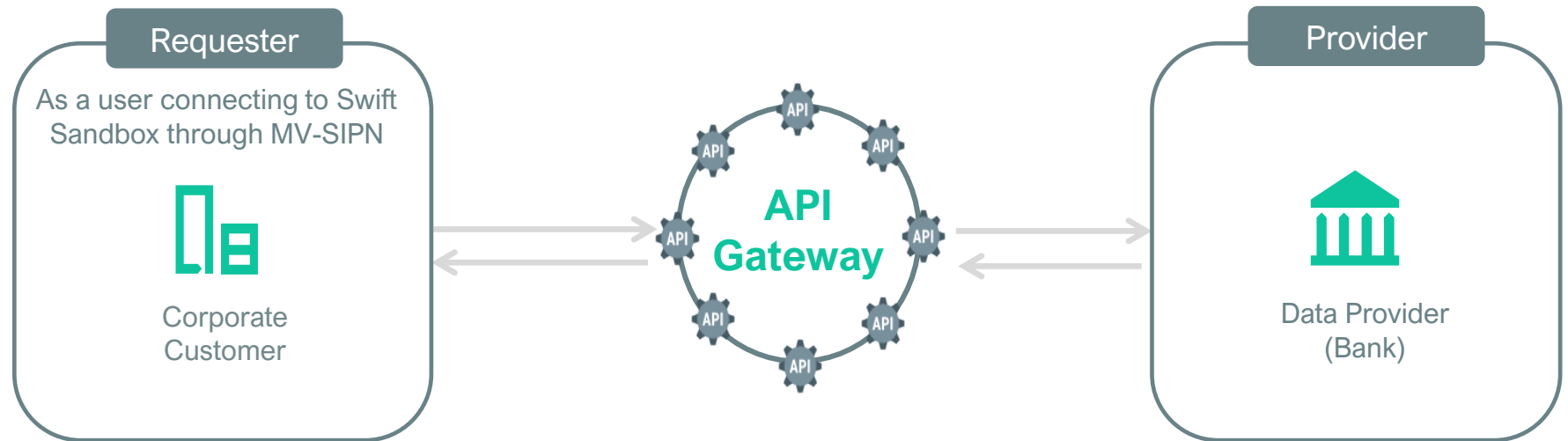
- Order the test service by completing the e-form available via this link (no link yet)
- The rest of the process is identical to Step 4 of this guide



## Step 8 – Production Test

Once the live service is provisioned, you can complete additional testing with your bank to ensure you get the expected results in the production environment

Pre-condition	Test Description	Exit Criteria
<ul style="list-style-type: none"> <li>Functional testing completed in the test environment</li> <li>SWIFT Provisioning complete (live environment)</li> <li>Data sets ready</li> </ul>	<ul style="list-style-type: none"> <li>Corporates to invoke the APIs and execute the test scenarios to ensure                             <ul style="list-style-type: none"> <li>They can connect to their bank</li> <li>The expected results are received from the bank</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Criteria to be agreed between the consumer and their bank to confirm test completion.</li> </ul>





**Swift**