

Instant Cash Reporting Self-onboarding Guide for API Data Providers (over MV-SIPN)



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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, Architect, Security & Identity Experts :** You define your business analysis requirements, architecture and perform its quality assurance
- **Back-end & API 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 (please see step 4).
- ✓ Your SWIFT contact evaluated your institution as capable of going through a self-onboarding process.

Typical ICR Implementation Project Resources Required

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Business Sponsor / Product Manager

- Provide the budget
- Provide the business priority of the ICR API within your institution

Project Manager & Test Manager

- Project phases management, coordination and alignment

Business Operations/Business Architecture

- Ensure review of and implementation of specification and apply to business model

Infrastructure

- Web Server setup and configuration

Swift operations

- Certificate setup for Provider

Legal

- Privacy Policy
- Customer Contracts

Network Architecture

- Web Server/Web Service setup within own network
- Firewall(s) configuration(s)
- (Reverse) Proxy configuration(s)
- Harmonization with existing Swift APIs

Compliance

- Decision if certain accounts / account types should be excluded from API
- Check general compliance of API model within organization

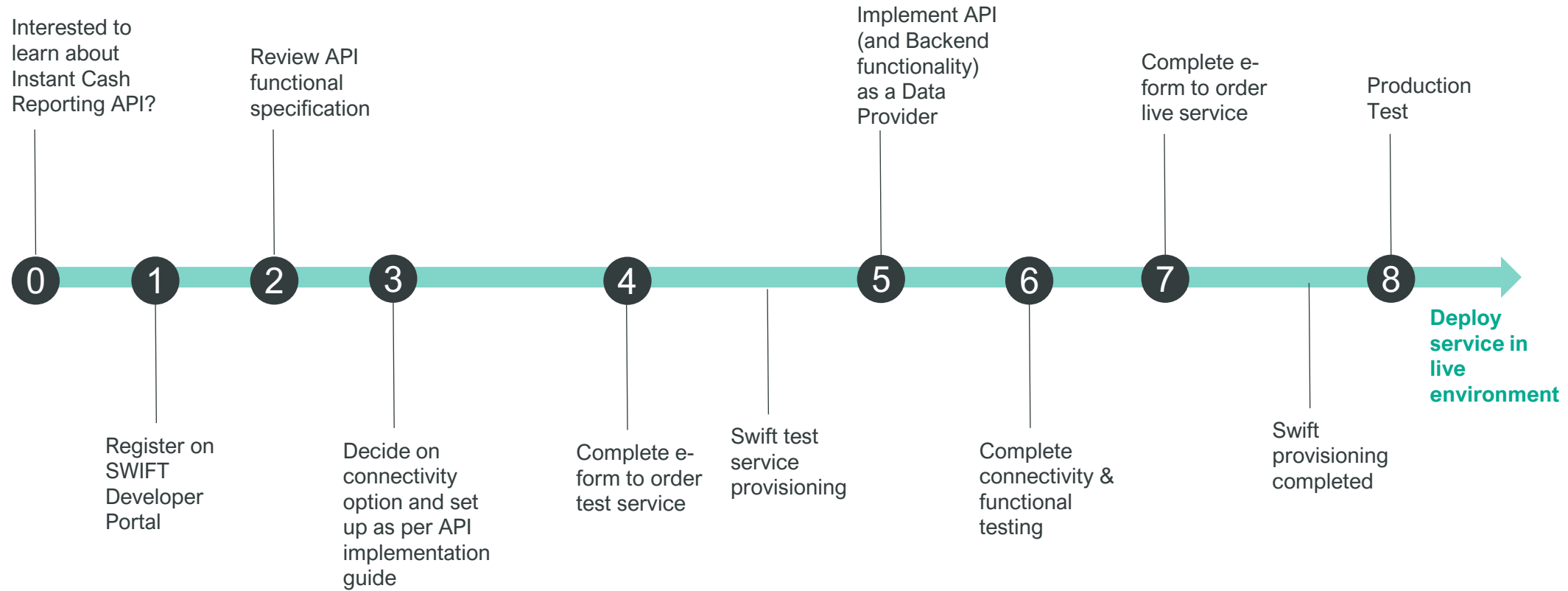
IT Development Team

- Consumer API development and connection with Back-Office
- Back-office implementation/enhancements
- Golden data source exposure
- Provider API web service development and connection with Back-Office (e.g. Account Ledger)

Onboarding Journey Overview

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Instant Cash Reporting Onboarding Journey Overview for Data Providers



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 and menu items for 'APIs', 'Reference', 'Partners', 'Support', and 'About'. A search icon is also present. On the left side, there is a sidebar with a 'Consumer' section containing 'Financial Institution' and 'Corporate', and a 'Category' section with various options like 'Connectivity', 'Instant Treasury', 'Payments', 'RTGS', 'GPI', 'Pre-validation', 'Securities', 'Trade Finance', 'Ref Data', 'Compliance', and 'Business Intelligence'. The main content area features a 'Search' box with the placeholder text 'Search for API, Service or Features'. Below the search box, it indicates 'Displaying 1 - 29 of 29' results. The first result is titled 'Instant Treasury' and contains two API cards: 'Payment Initiation API' and 'Instant Cash Reporting API'. The 'Payment Initiation API' card includes a 'Direct Debit' button 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 'Instant Cash Reporting API' card has a description: 'The solution for seamless, secure and reliable account data delivery.' Both cards show 'Financial Ins...' and 'V 1.0'.

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

Documentation

- Authentication
- Account Information >
- Reporting >

Documentation Powered by ReDoc

Instant Cash Reporting API (1.0.9)

Download OpenAPI specification: [Download](#)

Standards & Developer Hub: 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 Data Provider connectivity options: Swift SDK, Swift Microgateway, Swift SDK on top of Swift Microgateway, Swift Security SDK, Swift zero-footprint.

Step 3 – Select and configure your SwiftNet connectivity

The following steps must be performed in order to set up the required configuration:

- Set Up Web Server for Certification
- Install the SWIFT CA Certificate in the Web Server
- Obtain a Web Server Certificate
- Sign Web Server Certificate by SWIFT CA
- Set Up a 2-Way TLS Connectivity
- Configure the Web Server
- Set Up Network/Firewall Configuration Towards your Web Server

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 [Instant Cash Reporting | Swift form](#)
- 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

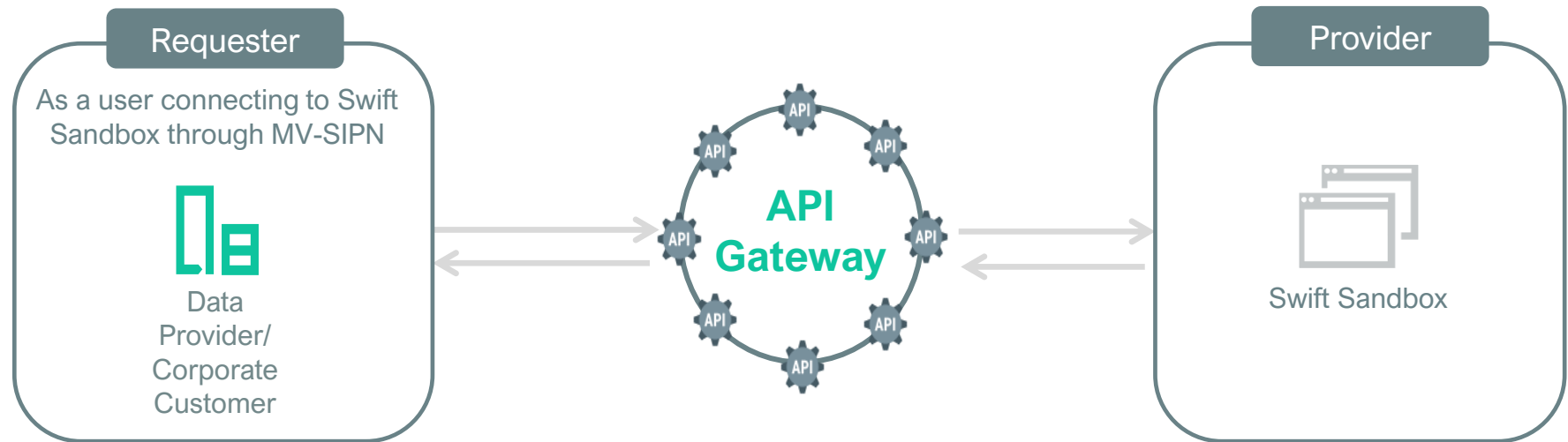
Step 5 – API Development

Usually it is expected that the IT Development team performs the following steps:

- Set-up development and UAT environments;
- Define endpoints and implement request handling;
- Implement business logic (customer accounts identification, data acquiring and processing etc);
- Implement response and error handling;
- Implement integrations with involved systems;
- Perform testing and deployment of the API

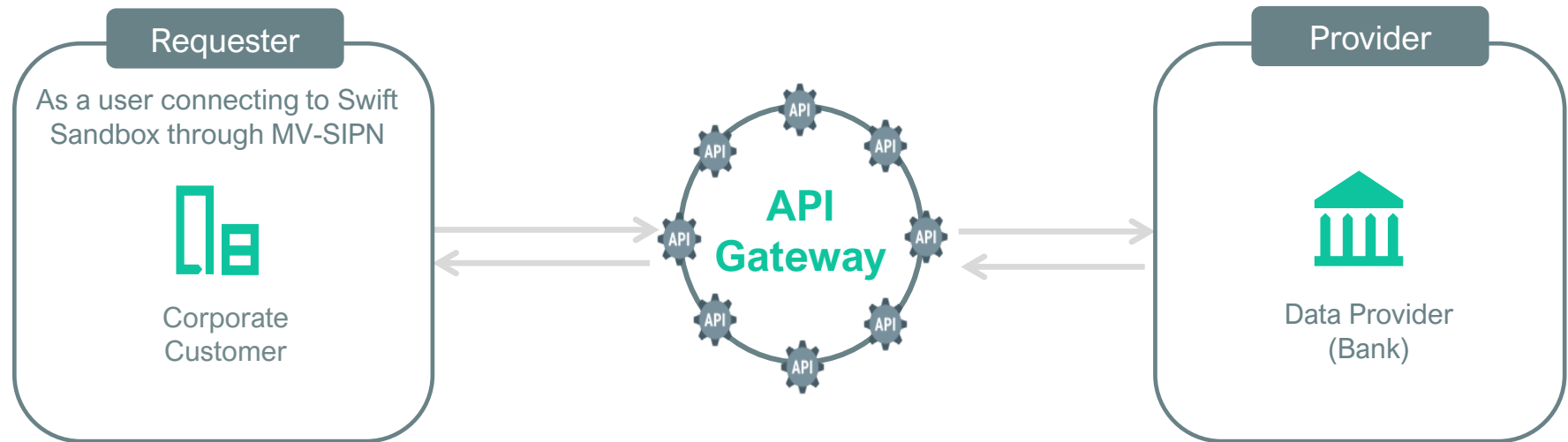
Step 6 – Connectivity Testing – Loop test

Pre-condition	Test Description	Exit Criteria
<ul style="list-style-type: none"> Order through Consumer e-form to enable acting like a consumer API specification implemented (v1.0.9) E-forms completed Services (Consumer & Provider) provisioned (by SWIFT) 	<ul style="list-style-type: none"> Data Providers implement and test the API specification in accordance with the SWIFT API certification framework while acting as a Provider and consumer at the same time This allows for faster pre-testing and removes necessity to involve testing partner on early stages of API development lifecycle 	<ul style="list-style-type: none"> Service consumers and providers should certify themselves as having the capability to generate API requests and responses in conformance with the API specification. Test results to be shared with SWIFT as evidence of completion.



Step 6 – Functional Testing

Pre-condition	Test Description	Exit Criteria
<ul style="list-style-type: none"> • Testing completed in accordance with the API certification • Partner readiness milestone completed • Certification complete • SWIFT Provisioning complete • Test data sets ready • Test scenarios ready 	<ul style="list-style-type: none"> • In this stage of testing, each corporate will be paired with a bank. Each pair of corporates and banks will test the API. • Corporates to invoke the APIs and execute the test scenarios to ensure <ul style="list-style-type: none"> • They can connect to the bank • The expected results are received from the bank. 	<ul style="list-style-type: none"> • Specific exit criteria to be confirmed by customers and banks upon test completion • Test confirmation shared with SWIFT



Step 7 – Complete e-form and order live service

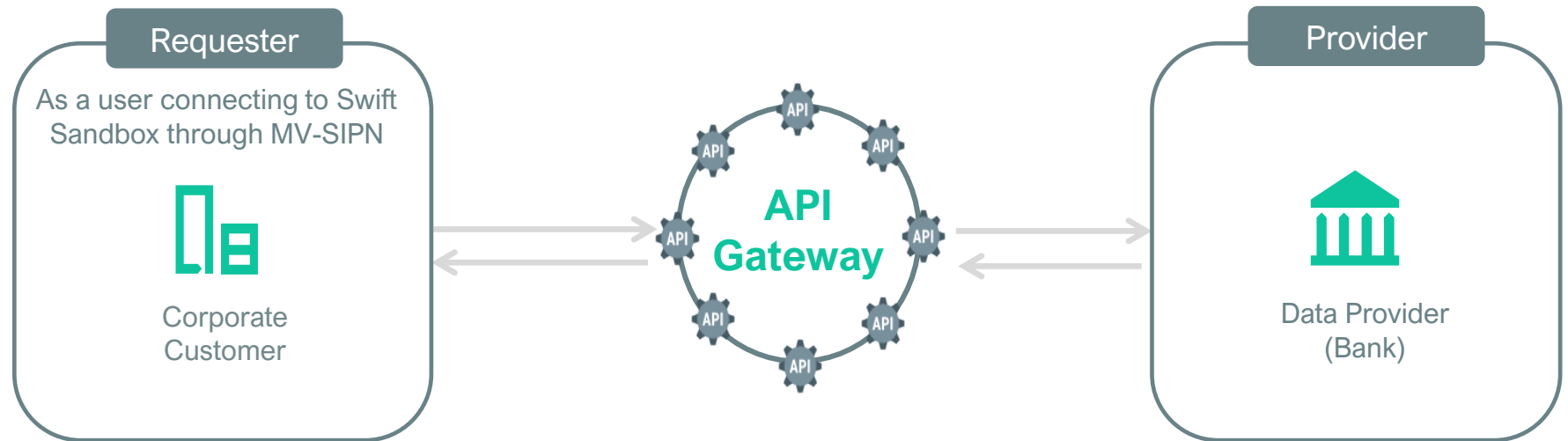
Follow the standard Swift ordering process to order live service for production environment:

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





Swift