

# **Study Definition Repository (SDR) Reference Implementation**

## **API Key Generation**

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## 1. Introduction

This document details the steps to be performed by users/vendors of the SDR Reference Implementation (RI) <sup>1</sup>to login into Azure APIM Developer portal and generate API-key, which can be used for authorization of SDR APIs. The alternate authorization method to access SDR APIs is through user-based access token. Please refer section 2.2 of [API User Guide](#) for more information.

### 1.1. Target Audience

This guide targets users who need to establish system to system integration with SDR RI APIs using an API-Key.

### 1.2. Definitions and Acronyms

Term / Abbreviation	Definition
SDR	Study Definitions Repository
API	Application Programming Interface
APIM	API Management
USDM	Unified Study Definition Model
REST	Representational State Transfer
JSON	JavaScript Object Notation

## 2. Developer Portal

The SDR RI API is configured to support bearer token authorization and API-Key based authorization. Hence, users can now use either bearer token from SDR UI or API-Key created through the developer portal to invoke SDR API endpoints. Below are the steps to be followed to generate an API-Key.

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<sup>1</sup> The SDR Reference Implementation is an attempt to demonstrate the vision of the DDF initiative, not a commercial product.

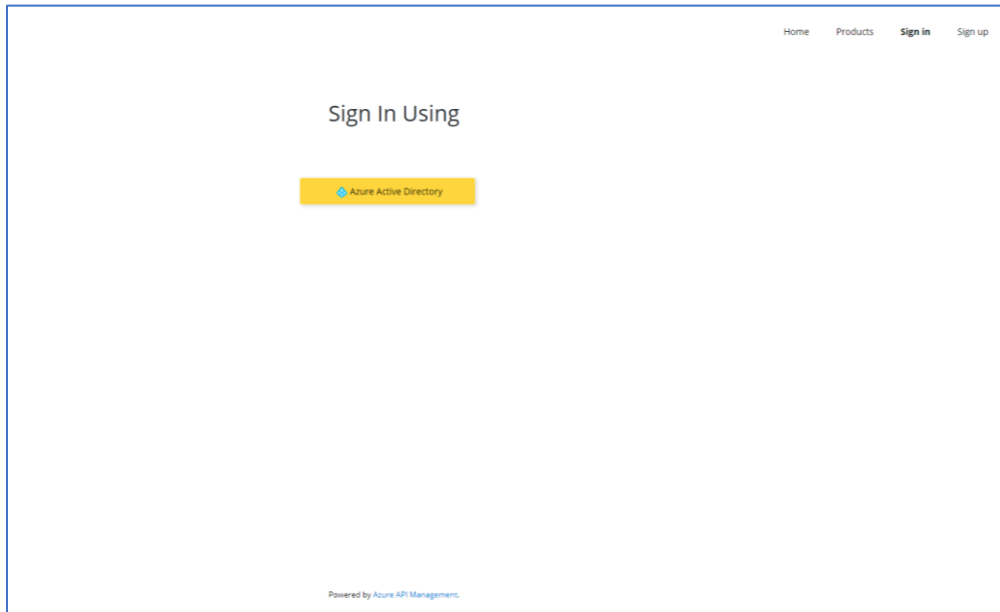
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### **2.1. Pre-requisite**

- User must be registered and completed the access set-up for SDR RI environment. Also, user must have access to APIM developer portal.

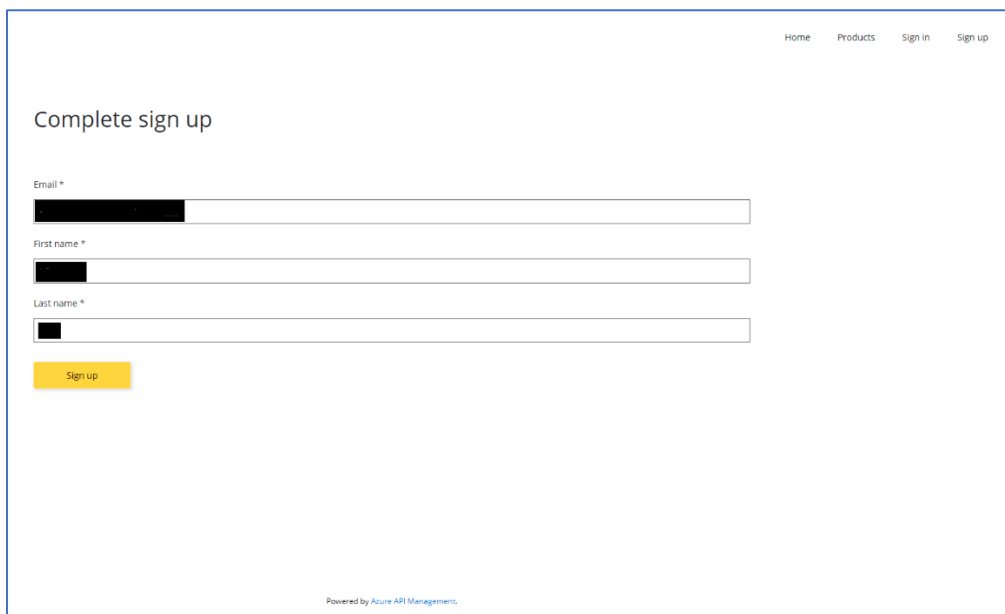
### **2.2. Sign Up to Developer Portal**

- Launch developer portal. User will be redirected to the Sign-In Page.

*Figure 1: Sign-In Page*

The screenshot shows the Sign-In page of the developer portal. At the top right, there are navigation links: Home, Products, Sign in, and Sign up. The main heading is "Sign In Using". Below it is a yellow button with the Azure Active Directory logo and the text "Azure Active Directory". At the bottom, it says "Powered by Azure API Management."

- Click Azure Active Directory button to Sign-In into developer portal. On click, the portal will navigate to Microsoft Login page and user should login with same credentials as of SDR UI App.
- After successful authentication, if the user is accessing the developer portal for the first time, then the user will be prompted to add first name and last name. A confirmation mail will be sent to the user after successful Sign-Up.

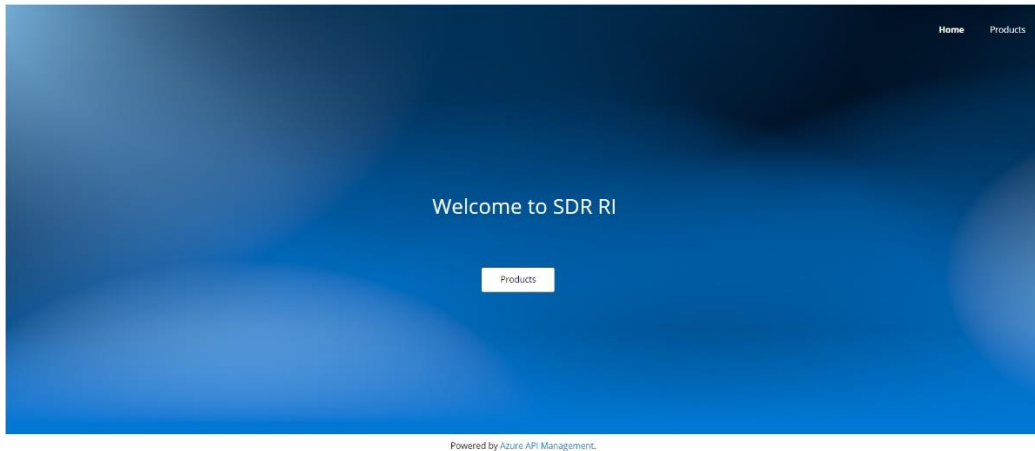
*Figure 2: Sign-Up Page*

The screenshot shows the Sign-Up page of the developer portal. At the top right, there are navigation links: Home, Products, Sign in, and Sign up. The main heading is "Complete sign up". Below it are three input fields: "Email \*", "First name \*", and "Last name \*". Each field has a small black square icon on the left. Below the input fields is a yellow button with the text "Sign up". At the bottom, it says "Powered by Azure API Management."

- After Sign-Up, the user will be redirected to the home page.

- The Sign-Up step will be skipped for successive logins. Users will be navigated directly to the home page after successful authentication.

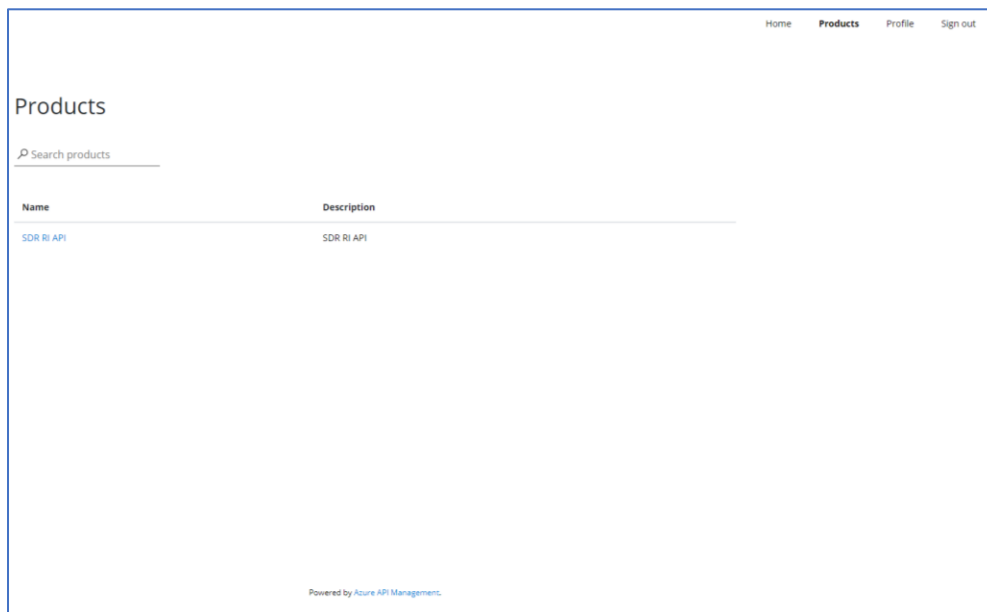
Figure 3: Home Page - Developer Portal



### 2.3. Generate API-Key

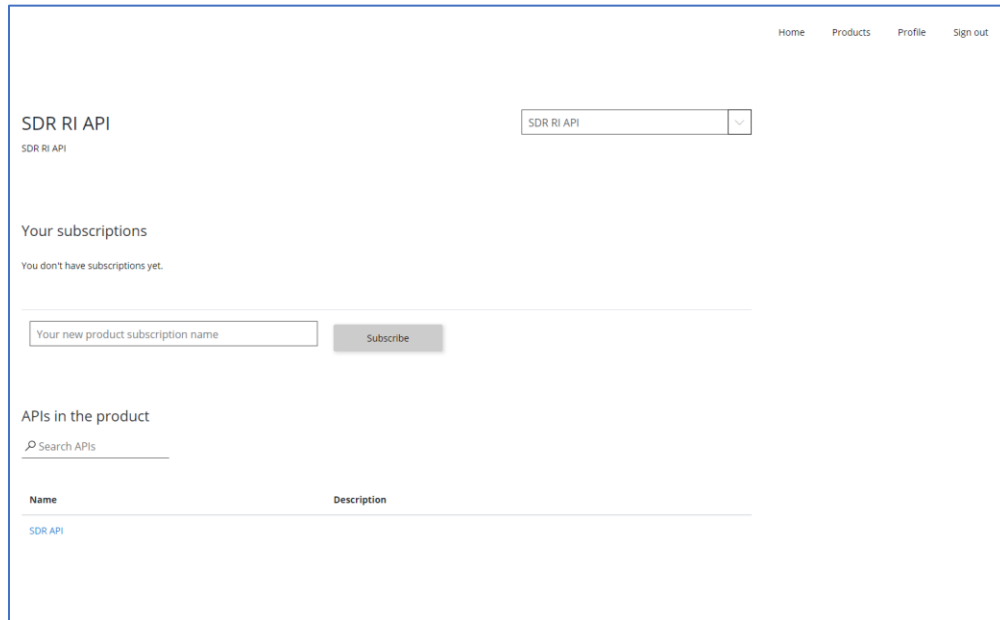
- After logging into the developer portal, click the Products button.
- The products screen will be displayed.

Figure 4: Products Page



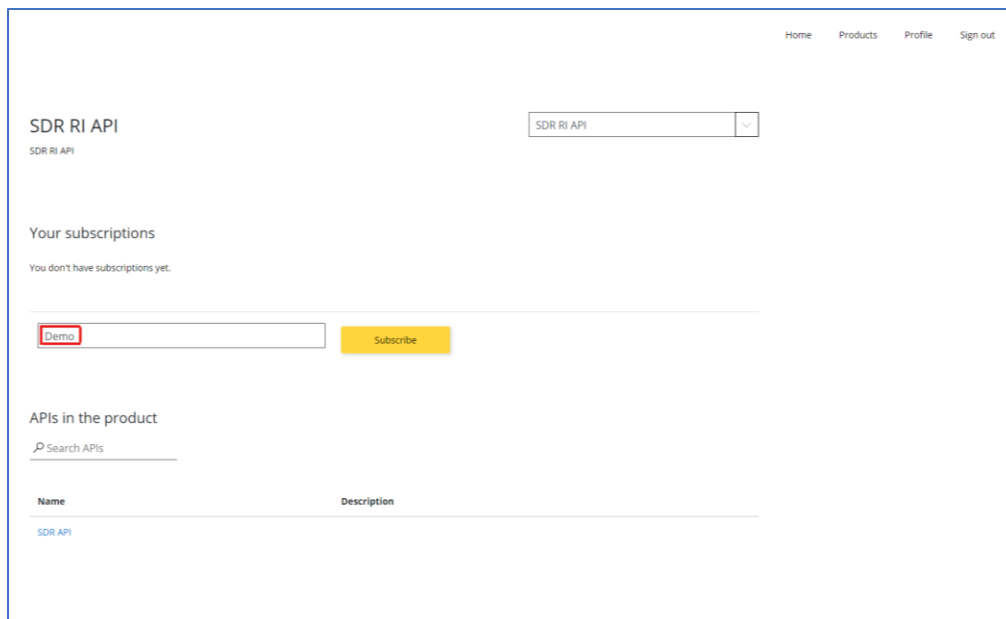
- Click SDR RI API product to show the list of APIs and subscriptions created by the logged-in user.

Figure 5:Product - SDR RI API



- For generating an API-Key, user need to choose a name for the subscription and click on Subscribe button.

Figure 6:Create Subscription



- After clicking the subscribe button, a new subscription will be created, and the user will be navigated to the profile page.
- A confirmation mail will be sent to the user.

Figure 7:Profile Page

Home

Products

Profile

Sign out

User profile

Account details

Email

First name

Last name

Registration date

10/16/2023

Close account

Subscriptions

Subscription details	Product	State	Action
Name	Demo		<a href="#">Rename</a>
Started on	10/16/2023	SDR RI API	Active
Primary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		<a href="#">Show</a>   <a href="#">Regenerate</a>
Secondary key	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		<a href="#">Show</a>   <a href="#">Regenerate</a>

Powered by Azure API Management.

- Subscription Key/API key (Primary and Secondary) details will be displayed in the profile page. Any of the two keys can be used as API-Key for authorization to invoke SDR APIs.
- The generated API keys are non-expiring, and it is the responsibility of user/organization to make sure API keys are re-generated at regular intervals in alignment with security best practices. User can click on Regenerate link available in Profile page to generate new keys.
- If a user requests for SDR access revocation, access will be revoked for both SDR application and APIM developer portal. This will permanently disable/delete all the API keys associated with the respective user account.