

# MediCare Connect Phase 7 – Integration & External Access

## 1.Connected App / External Client App (OAuth)

I created a Connected App “**MediCare External Client App**” inside Salesforce to supply the OAuth Client ID & Secret and receive callback URLs. This allows Salesforce to securely obtain and refresh access tokens for external APIs.

The screenshot shows the 'Manage External Client Apps' interface for the 'MediCare External Client App'. At the top, there's a header with a gear icon, the title 'Manage External Client Apps', and a sub-header 'MediCare External Client App'. To the right are links for 'Help for this Page' and a 'Disable' button. Below the header, there's a summary section with 'Contact Email' (swaroopmanchala323@gmail.com), 'App Authorization' (All users can self-authorize), 'Type' (Local), and 'App Status' (Enabled). The main section is titled 'Settings' and contains a 'Basic Information' tab. This tab has two columns of fields: 'External Client App Name' (MediCare External Client App), 'Contact Email' (swaroopmanchala323@gmail.com), 'Contact Phone' (placeholder), 'Icon URL' (placeholder), 'API Name' (MediCare\_External\_Client\_App), 'Distribution State' (Local), 'Info URL' (placeholder), 'Logo Image URL' (placeholder), and another 'Info URL' (placeholder). An 'Edit' button is located on the right side of the settings section.

Fig-1 ConnectedApp

## 2.External Auth Identity Provider

An **External Auth Identity Provider** “MediCare\_Salesforce\_IdP” was added so Salesforce can run an OAuth 2.0 Browser Flow against our Connected App. The provider generated a Callback URL, which i pasted back into the Connected App to resolve redirect URI mismatches.

The screenshot shows the 'Named Credentials' page in Salesforce. The page has a header with a shield icon and the title 'Named Credentials'. Below the header, there's a navigation bar with 'Named Credentials', 'External Credentials', and 'External Auth Identity Providers'. The 'External Auth Identity Providers' tab is selected. Below the navigation bar, there's a table with 1 item. The table has columns: 'Label', 'Description', 'Client ID', 'Callback URL', and 'Actions'. The row contains the following data: 'MediCare\_Salesforce\_IdP', '3MVG9rzjd7MXFdLhQpnE2sglOdpCK1HPC9FHf2jX5...', and 'https://login.salesforce.com/services/xtidp/callback'. There is a 'New' button in the top right corner of the table.

Label	Description	Client ID	Callback URL	Actions
MediCare_Salesforce_IdP		3MVG9rzjd7MXFdLhQpnE2sglOdpCK1HPC9FHf2jX5...	https://login.salesforce.com/services/xtidp/callback	

Fig-2 OAuth\_Config

### 3.External Credential + Named Credential

An **External Credential** “MediCare\_EC” was created and linked to the Identity Provider. A **Named Credential** “EHR\_Service\_NC” was then created pointing to https://httpbin.org (test endpoint). OAuth authentication was performed via the “Authenticate” button and tokens were stored securely. This allows Apex and Flows to call external APIs without hard-coding credentials.

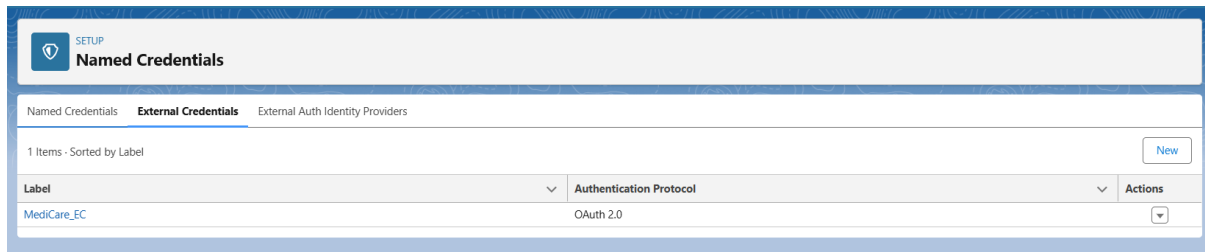


Fig-3 ExternalCredential

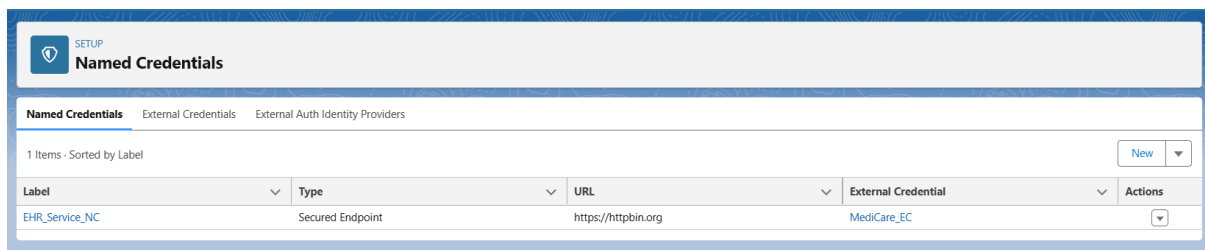


Fig-4 Named Credential

### 4.Apex REST Callout (Reminder Service)

An Apex class ReminderService was written to call the external endpoint via the Named Credential. We tested it with httpbin.org to confirm connectivity.

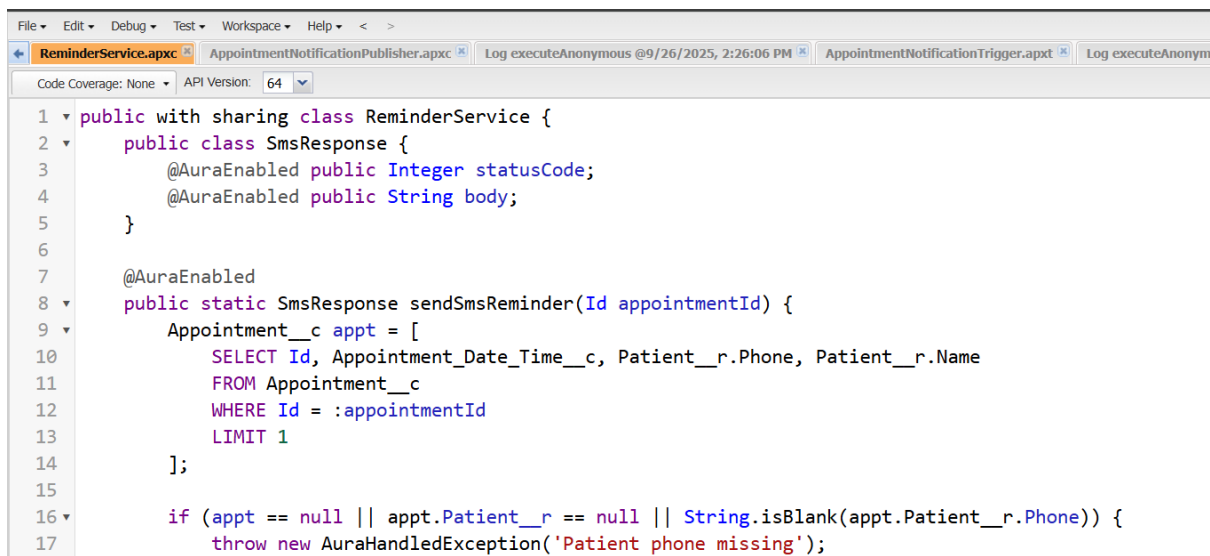


Fig-5 ApexCallout

File Edit Debug Test Workspace Help < >		
reAnonymous @9/26/2025, 12:25:03 AM Log executeAnonymous @9/26/2025, 12:32:38 AM Log executeAnonymous @9/26/2025, 12:32:38 AM		
Execution Log		
Timestamp	Event	Details
00:53:53:515	USER_DEBUG	[6][DEBUG]HTTP status=200
00:53:53:515	USER_DEBUG	[7][DEBUG]Response body={
00:53:45:000	USER_DEBUG	"args": {},
00:53:45:000	USER_DEBUG	"headers": {
00:53:45:000	USER_DEBUG	"Accept": "text/html, image/gif, image/jpeg, */*; q=0.2",
00:53:45:000	USER_DEBUG	"Accept-Encoding": "gzip,deflate",
00:53:45:000	USER_DEBUG	"Authorization": "Bearer SESSION_ID_REMOVED",
00:53:45:000	USER_DEBUG	"Host": "httpbin.org",
00:53:45:000	USER_DEBUG	"Sfdc-Stack-Depth": "1",
00:53:45:000	USER_DEBUG	"User-Agent": "SFDC-Callout/64.0",
00:53:45:000	USER_DEBUG	"X-Amzn-Trace-Id": "Root=1-68d596c1-391f6e285dbc8905278af56a"
00:53:45:000	USER_DEBUG	},
00:53:45:000	USER_DEBUG	"origin": "155.226.153.253",
00:53:45:000	USER_DEBUG	"url": "https://httpbin.org/get"
00:53:45:000	USER_DEBUG	}
00:53:45:000	USER_DEBUG	

Fig-6 CalloutLog

## 5.Platform Events – Publish & Subscribe

A Platform Event Appointment\_Notification\_\_e was created with fields AppointmentId\_\_c (Text), Type\_\_c (Picklist), and Message\_\_c (Text Area).

Apex class AppointmentNotificationPublisher publishes events when needed.

A trigger on the Platform Event inserts a Task for each event received.

**Platform Events**

Platform Event

Appointment\_Notification

Standard Fields (11) | Custom Fields & Relationships (3)

Platform Event Definition Detail

Singular Label

Appointment\_Notification

Plural Label

Appointment\_Notifications

Object Name

Appointment\_Notification

API Name

Appointment\_Notification\_\_e

Event Type

High Volume

Publish Behavior

Publish Immediately

Created By

Swaroop Admin, 25/09/2025, 11:07 pm

Modified By

Swaroop Admin, 26/09/2025, 1:04 am

Standard Fields

Action	Field Label	Field Name	Data Type	Controlling Field	Indexed
	Created By	CreatedBy	Lookup(User)		
	Created Date	CreatedDate	Date/Time		
	Event UUID	EventUuid	Text(36)		
	Replay ID	ReplayId	External Lookup		

Custom Fields & Relationships

Action	Field Label	API Name	Data Type	Indexed	Controlling Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	AppointmentId	AppointmentId__c	Text(18)			Swaroop Admin, 26/09/2025, 1:05 am
<a href="#">Edit</a>   <a href="#">Del</a>	Message	Message__c	Long Text Area(256)			Swaroop Admin, 26/09/2025, 2:19 pm
<a href="#">Edit</a>   <a href="#">Del</a>	Type	Type__c	Text(50)			Swaroop Admin, 26/09/2025, 2:17 pm

Fig-7 PlatformEvent

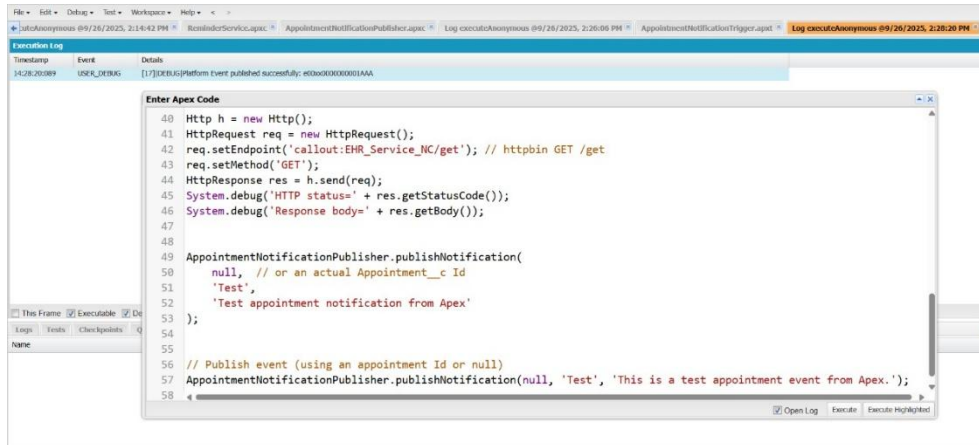


Fig-8 Published Successfully

## 6.Change Data Capture (CDC)

CDC was enabled for Appointment\_\_c and Contact.

A custom object Integration\_Log\_\_c with field Message\_\_c was created.

An Apex trigger AppointmentChangeLogger on Appointment\_\_ChangeEvent writes log entries whenever an Appointment record changes.

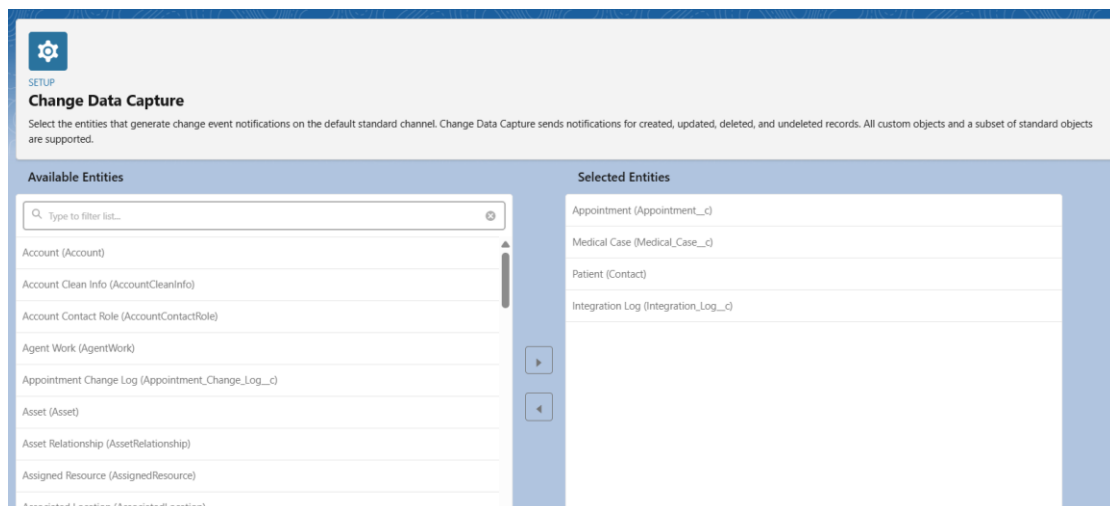


Fig-9 CDC\_Config

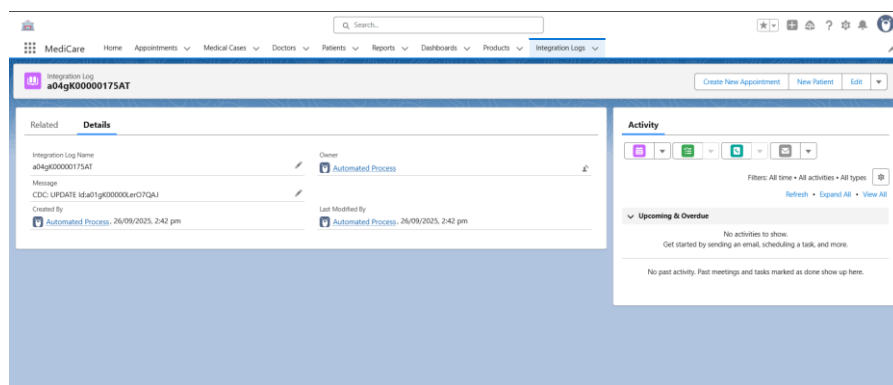


Fig-10 log entries after an Appointment update

## 7.Salesforce Connect (optional demo)

An External Data Source EHR\_OData\_DS was configured against a public OData endpoint (<https://services.odata.org/V4/OData/OData.svc/>) and synced to create External Objects inside Salesforce, demonstrating real-time access without copying data.

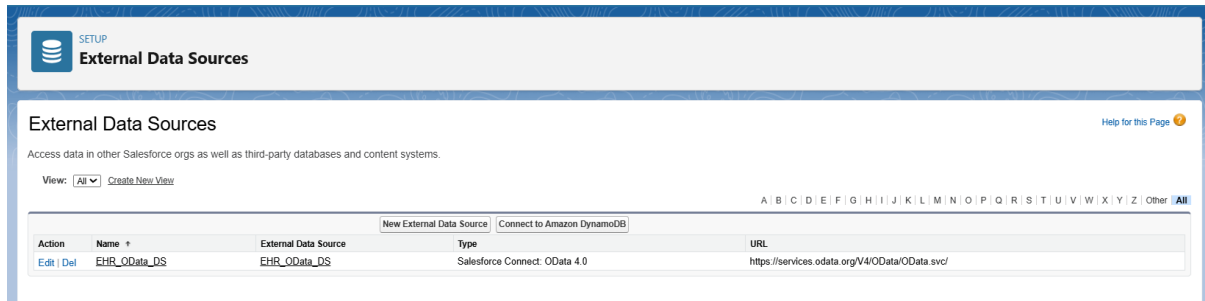


Fig-11 ExternalDataSource

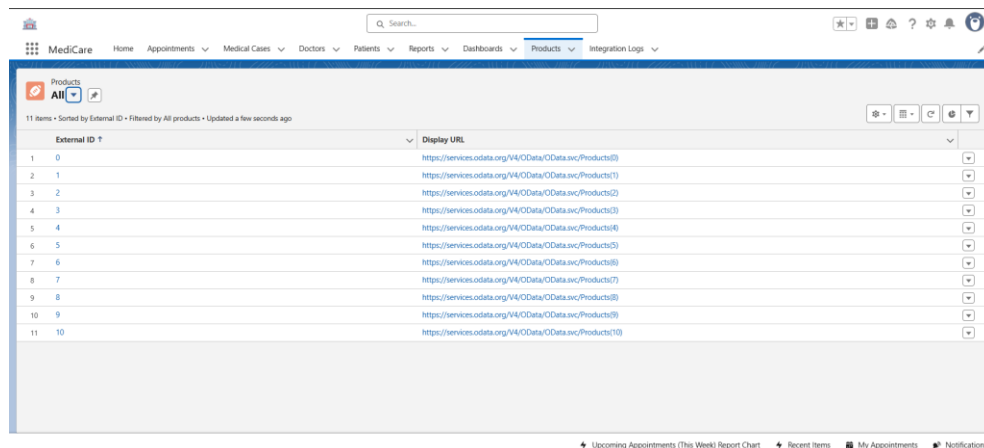


Fig-12 ExternalObject

## 8.API Limits & Monitoring

System Overview and the REST /limits endpoint in Workbench were used to view current API consumption and configure alerts.

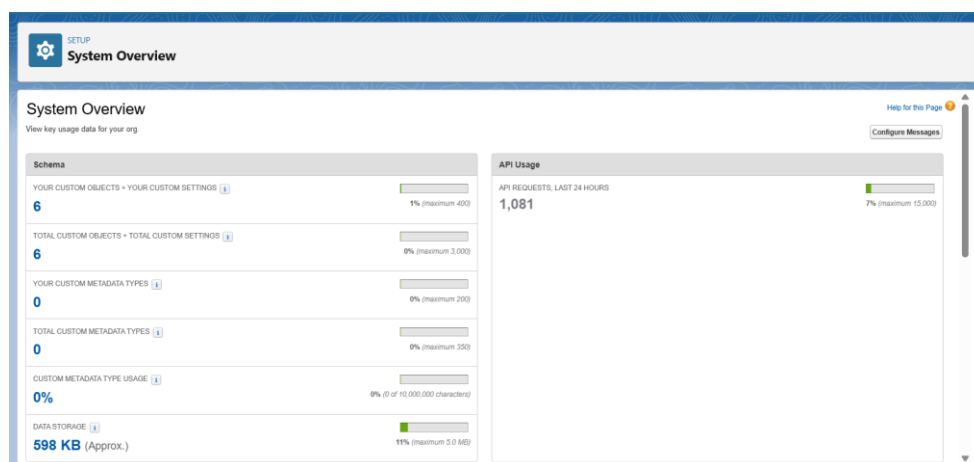


Fig-13 API\_Limits

9.Acceptance Tests

SETUP

Apex Test Execution

Apex Test Execution

Help for this Page

Click Select Tests to choose one or more Apex unit tests and run them. To see the current code coverage for an individual class or your organization, go to the [Apex Classes](#) page.

Select Tests...

Developer Console

Options...

View Test History

Abort

Status	Class	Result
Test Run: 2025-09-26 15:24:24, admin-swaroop@medicare.com, (1 test class run)		
✓	<a href="#">AppointmentNotificationPublisherTest</a>	(1/1) Test Methods Passed
Test Run: 2025-09-26 15:19:43, admin-swaroop@medicare.com, (1 test class run)		
✓	<a href="#">ReminderServiceTest</a>	(1/1) Test Methods Passed

Detail	Duration	Class	Method	Pass/Fail	Error Message	Stack Trace
--------	----------	-------	--------	-----------	---------------	-------------

Fig-14 Apex Test Execution Successfull