Project: RenewSure – Smart Contract Expiry & Renewal Tracker

Phase 7: Integration & External Access

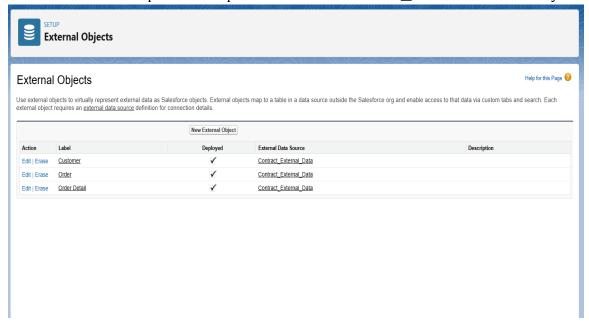
In this phase, we enabled integration and external access capabilities for the Contract Renewal Management System. This allows the system to communicate internally and externally in real-time, providing scalability and extending functionality.

1. External Objects

We configured External Objects in Salesforce to access external customer and order data in real-time. This allows Contracts to reference external orders and customers without importing the data into Salesforce.

✓ Steps Followed:

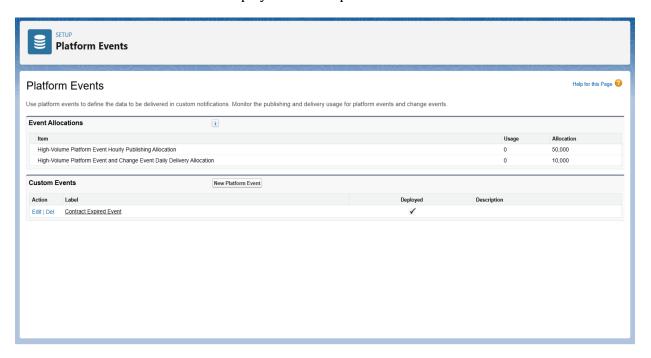
- Setup → External Data Sources → New External Data Source
- Configured Type: Salesforce Connect: Custom
- Provided placeholder URL for internal API access (demo purposes)
- Validated & Synced External Objects: Customers_x, Orders_x, Order_Details_x
- Created Lookup relationships from Contracts to Orders_x for real-time visibility



2. Platform Events

Platform Events were used to publish and subscribe to custom events when a contract status changes. This ensures real-time notifications and decoupled communication.

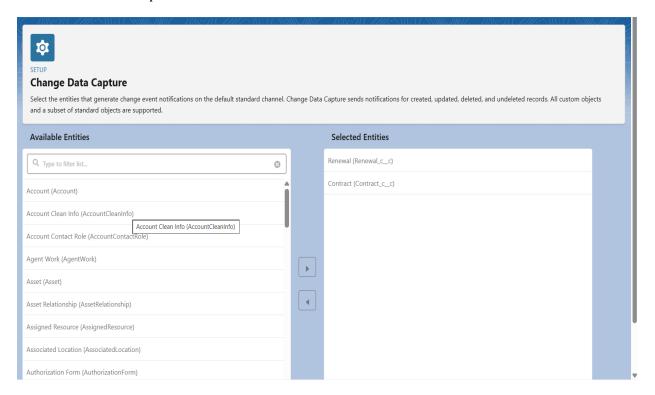
- ✓ Steps Followed:
- Created Platform Event: Contract_Event_e with fields ContractId, Status, EventDate
- Published event from Apex Trigger on Contract_c status change
- Subscribed to events in LWC to display real-time updates to users



3. Change Data Capture (CDC)

Change Data Capture was enabled for the Contract_c object to track real-time changes. This allows external and internal systems to subscribe to contract updates.

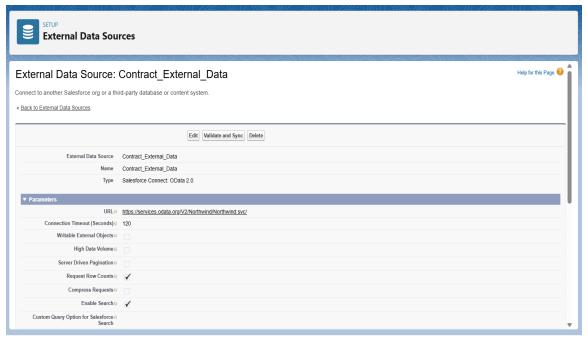
- ✓ Steps Followed:
- ullet Setup o Change Data Capture o Enabled for Contract_c and Renewal_c objects
- Subscribed to CDC channel using empApi in LWC to listen for record changes
- Verified real-time updates when contract status and renewal details were modified



4. Salesforce Connect

Salesforce Connect was considered for connecting external objects. While not mandatory for our implementation, it provides a way to view external system data in real-time without storing it in Salesforce.

- ✓ Steps Followed (Documentation Only for Future Scope):
- Setup → Salesforce Connect → Configure External Data Source
- Chose OData 2.0/4.0 protocol for connectivity
- Validated connection to pull sample external data into Salesforce as External Objects



Conclusion

With Phase 7 completed, the system is now equipped with real-time integration capabilities using External Services, Platform Events, and Change Data Capture. Salesforce Connect was also documented as a future integration option. These configurations enable high scalability and prepare the solution for enterprise-grade adoption.