Maegham Dev Kit

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1. Introduction

Maegham Dev Kit is an integrated desktop application designed to simplify and accelerate IBM Sterling OMS development and local environment management. It serves as a unified workspace where developers can create, configure, build, and manage Sterling OMS components without switching between multiple tools.

The application provides session-based development, allowing users to create and manage multiple working sessions. Developers can easily configure Sterling environments, manage database connections (Oracle, PostgreSQL, and DB2), and access essential documentation such as Java Docs and XAPI Docs directly from the application. A page editor workspace where users can open and edit configuration files, scripts, and other text-based resources. User can build WAR/ EAR / JAR, Start or stop the server, Install / Uninstall Third party jars and Launch Local Application manger. By centralize this feature developer can integrate all the functionality, handle errors and improve productivity.

This application is intended for Sterling OMS developers and support teams who require a consistent, efficient, and easy-to-use platform for local development, testing, and environment management.

2. Purpose

Maegham Dev Kit provides a unified, efficient, and user-friendly platform for local IBM Sterling OMS development and environment management. The tool is designed to eliminate the complexity of manual setup, custom scripting, and fragmented tooling commonly encountered during Sterling OMS development. By consolidating environment configuration, database setup, build management, server control, and documentation access into a single application, Maegham Dev Kit enables developers to focus on development and testing rather than infrastructure and configuration tasks.

3. Session

Session tab is used to create and manage development sessions within the Maegham Dev Kit. Each session represents an independent working context that holds Query client workspace, saved API’s and saved pages. This allows users to work on multiple Sterling OMS Tasks on different environments without configuration conflicts. Sessions can be created, opened, switched, or closed easily

for developer. The Session tab helps maintain isolation, consistency, and better control over development activities.

3.1 New session

New Session allows users to define and initialize a new development session within the Maegham Dev Kit. Each new session operates as an isolated working context, ensuring that saved APIs, pages, and workspace settings do not conflict with other sessions. This feature enables developers to seamlessly start work on new Sterling OMS Tasks on different environment while maintaining consistency, separation, and efficient session management.

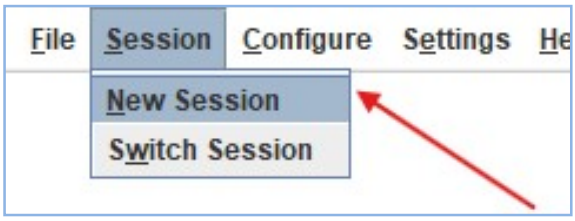

Figure 3.1.1: Click Session-> New session

Pop up will show to create a session.

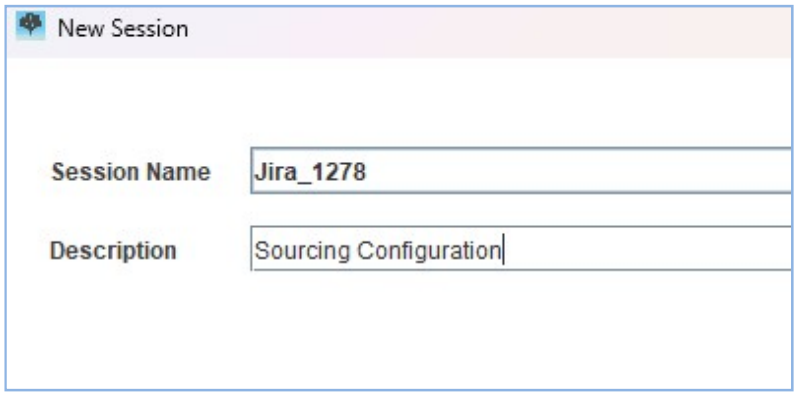

Figure 3.1.2: save new session with session name and description.

Figure 3.1.3: Maegham Dev Kit opens a session Jira_1278

3.2 Switch Session

Switch Session allows users to seamlessly navigation between existing development sessions within the Maegham Dev Kit. By switching sessions, the application loads the selected session's Query client workspace, saved APIs and saved pages. This enables developers to work on multiple Sterling OMS Tasks on multiple environments.

Figure 3.2.1: Click Session->Switch Session

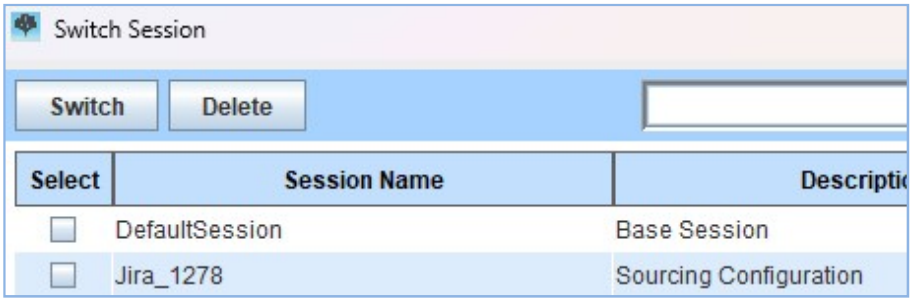

Figure 3.2.2: Select a session, click switch button

Figure 3.2.3: Application loads the selected session.

4. OMS Environment Configuration

OMS Environment Configuration screen allows users to create and manage Sterling OMS environment connections. It supports configuring environment details such as URL, credentials, version, and API type (Servlet or REST). Multiple SSL modes and certificate options are available for secure communication. Users can configure local, Docker, or traditional deployments with required paths and server details. Saved environments can be tested, edited, and reused from the configurations list.

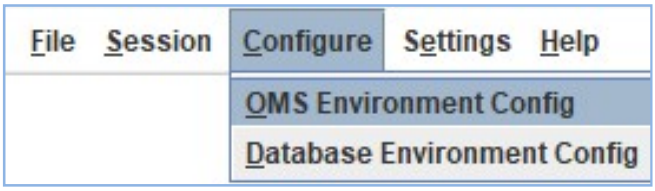

Figure 4.1: click configure-> OMS Environment Config

(Or)

Figure 4.2: click right slider, then OMS Environment Config.

OMS Environment Configuration tab opened.

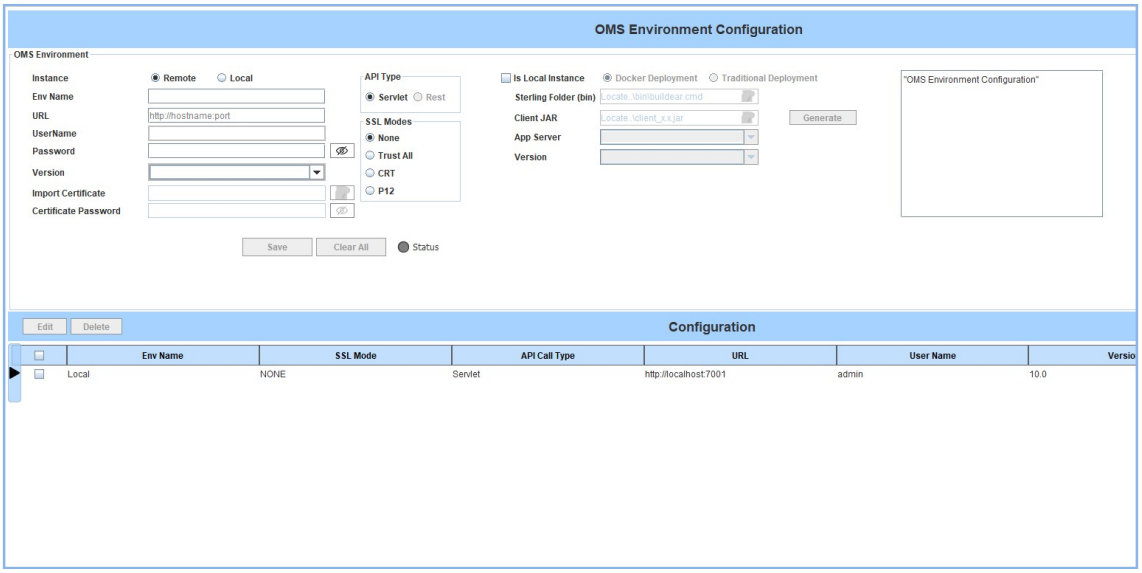

Figure 4.3: OMS Environment configurations

Env Name: Logical name to identify the OMS environment (e.g., Dev, QA, Docker Local).

URL: Base URL of the Sterling OMS instance including hostname and port.

User Name / Password: Credentials used to authenticate API calls to the OMS environment.

Version: Sterling OMS application version for the configured environment.

Import Certificate: Path to the SSL certificate file (required for **CRT** or P12 modes).

Certificate Password: Password for the imported certificate (if applicable)

API Type

- **Servlet** – Uses traditional servlet-based APIs.
- **REST** – Uses REST-based APIs.

SSL Modes

- **None** – No SSL configuration.
- **Trust All** – Trusts all SSL certificates (recommended only for local/dev).
- **CRT** – Uses a certificate file for SSL communication.
- **P12** – Uses a PKCS12 (.p12) certificate file.

Deployment Type

- **Is Local Instance** – Local Sterling installation.

- **Docker Deployment** – Sterling running inside Docker.
- **Traditional Deployment** – Installed on an external application server.

Sterling Home: Path to the Sterling OMS installation or build command location.

Client JAR: Path to the Sterling client JAR used for API execution.

App Server: Application server type (e.g., WebSphere, Weblogic, JBoss).

App Server Version: Version of the selected application server.

Save / Clear All: Save the configuration or reset all input fields.

Configurations Table: Displays all saved OMS environments with options to Edit or Delete.

5. Database Environment configuration

Database Configuration screen is used to define, test, and manage database connections required for Sterling OMS. It supports multiple database types and allows users to reuse configurations across sessions and environments.

Database Tabs

- **Oracle** – Configure Oracle database connections.
- **DB2** – Configure IBM DB2 database connections.
- **PostgreSQL** – Configure PostgreSQL database connections.
- **IBM DB Query** – Execute and manage IBM DB–specific queries.

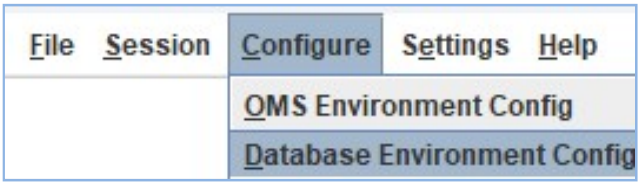

Figure 5.1: Click Configure-> Database Environment Config

(Or)

Figure 5.2: Click Right slider, then Database Environment Configuration

Database Configuration tab opened

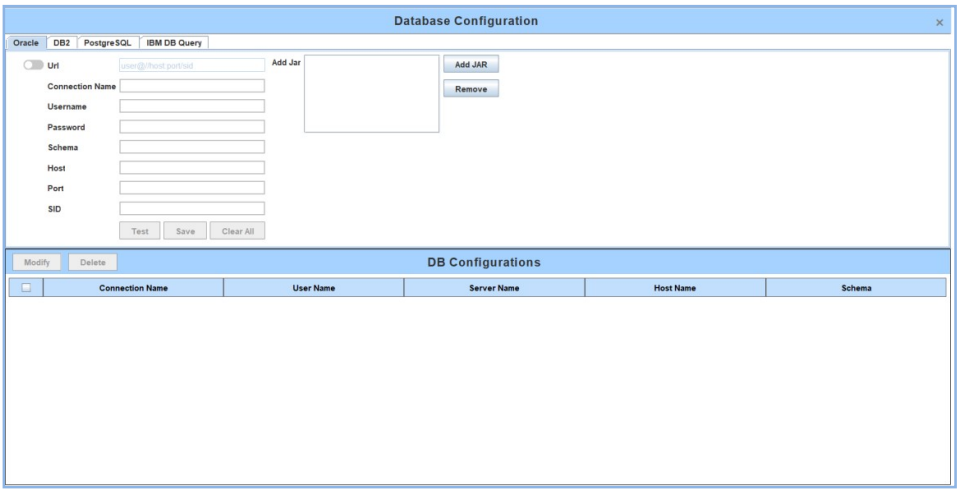

Figure 5.3: Database Configuration for Oracle

URL: Complete database connection URL (auto-generated or manual).

Connection Name: Logical name to identify the database connection (e.g., Dev_Oracle, QA_Postgres).

Username / Password: Credentials used to connect to the database.

Schema: Database schema used by Sterling OMS.

Host: Database server hostname or IP address.

Port: port number on which the database service is running.

SID: Oracle System Identifier (applicable only for Oracle databases).

Add JAR: Add JDBC driver JAR files required for the selected database type.

Remove: Remove selected JDBC driver JAR from the configuration.

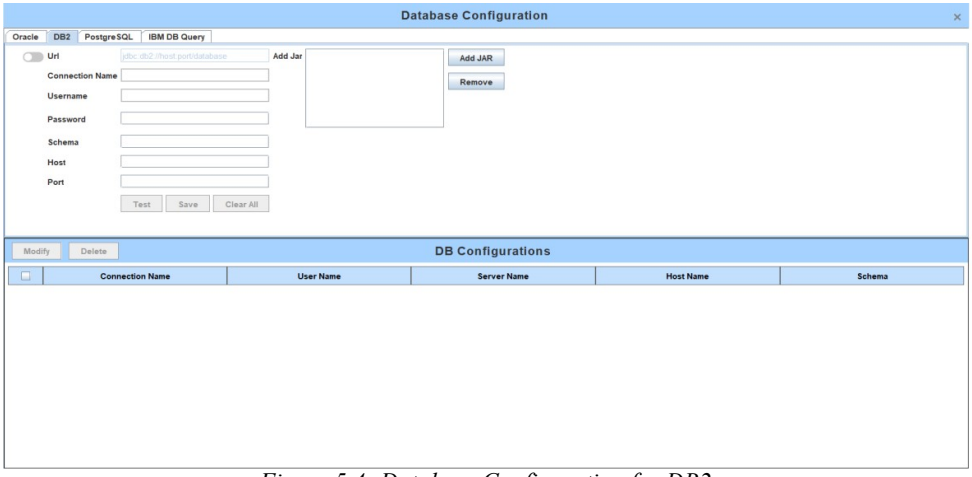

Figure 5.4: Database Configuration for DB2

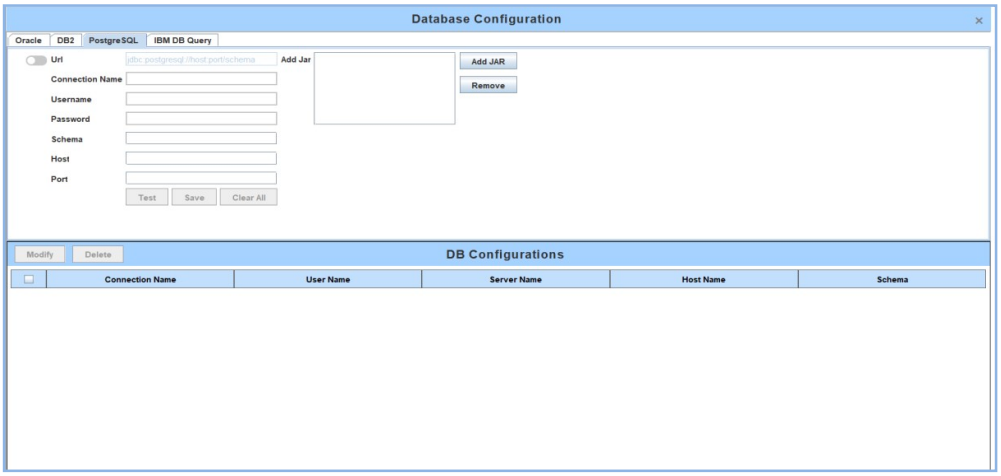

Figure 5.5: Database Configuration for PostgreSQL

IBM DB Query

Configure the subscriber database connection for the Docker environment.

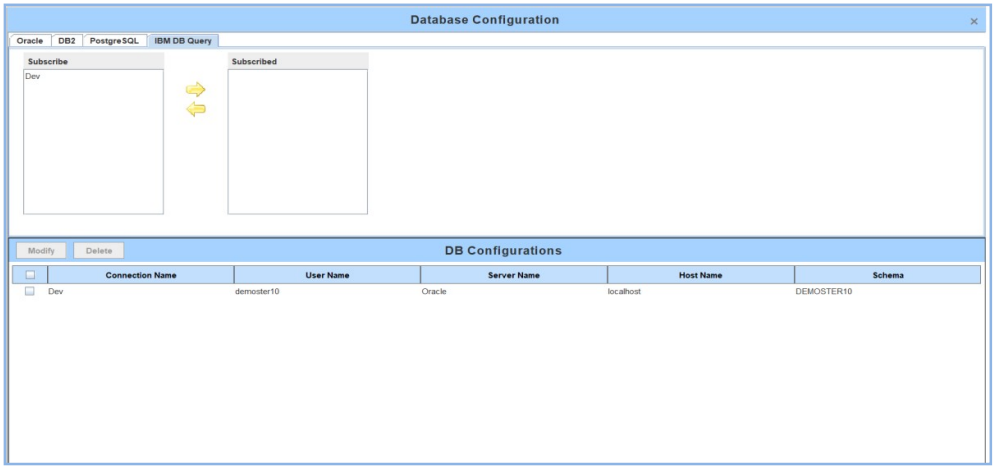

Figure 5.6: Subscribe connection for DB Query

6. Pages

Pages tab provides a workspace for opening and working on multiple files within a session, similar to Notepad++. It allows users to create, open, edit, and switch between different pages such as configuration files, scripts, and text resources. Each page is associated with the active session; ensuring changes remain session-specific.

Figure 6.1: Click Left slider-> Pages.

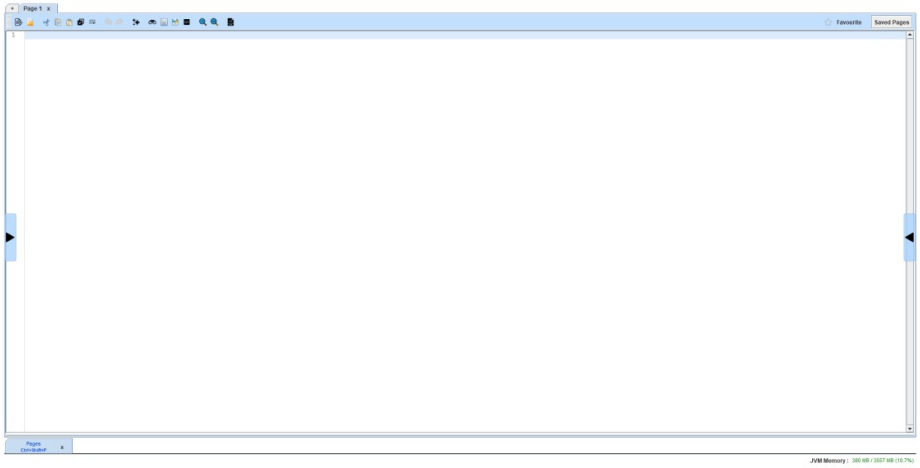

Figure 6.2: Pages Workspace.

6.1 Saved Pages

Saved Pages store pages that can be used across multiple sessions. They help users reopen and edit pages easily.

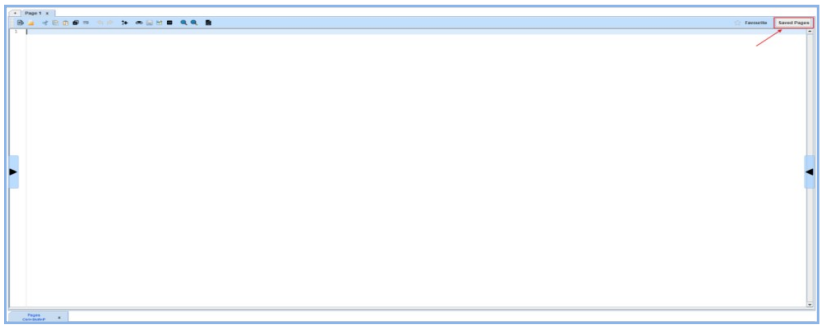

Figure 6.1.1: In the Pages workspace, click the Saved Pages button located in the top-right corner.

(Or)

Figure 6.1.2: In the left sidebar, click the three-dot in Pages, then select Saved Pages.

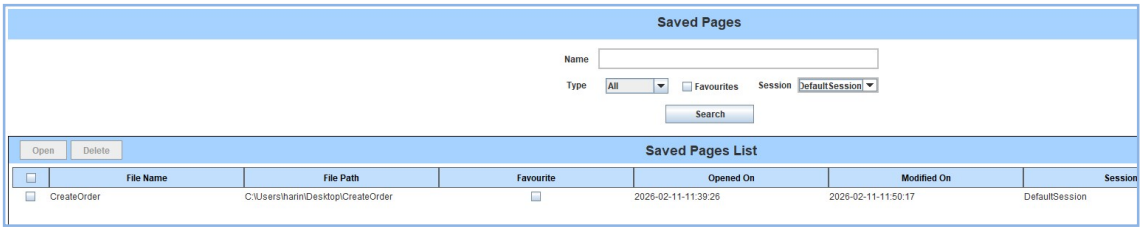

Figure 6.1.3: Saved Pages

Name / Type / Session / Favorites – Filters to search saved Pages.

Search – Executes the search based on selected filters.

Saved Pages List – Displays saved Pages.

File Name, File Path, Type, Favorite, Opened on, Modified on, Session – Details of each saved entry.

Open / Delete – Opens or deletes the selected saved Pages.

7. API Tester

API Tester is used to invoke and validate IBM Sterling OMS APIs directly from the Maegham Dev Kit**.** It allows users to select a configured OMS environment

and execute APIs without requiring external tools. Users can construct request inputs, trigger API calls, and view responses for functional validation and troubleshooting. The tester supports both **Servlet** and **REST** based API executions. This feature helps developers quickly test integrations, debug issues, and verify OMS behavior during development.

Figure 7.1: Left slider, then open API Tester

API Tester tab will open

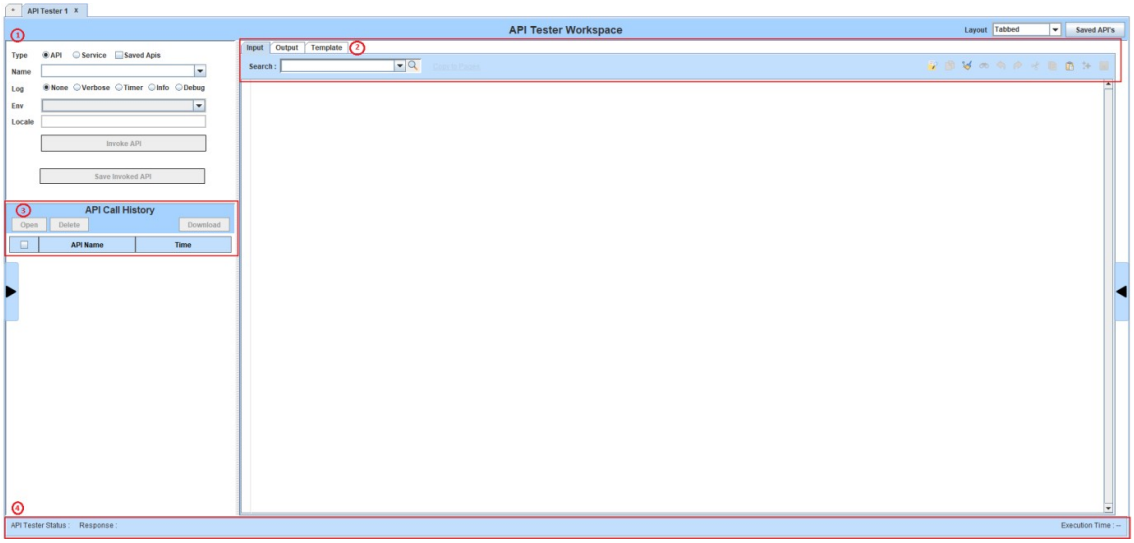

Figure 7.2: API Tester workspace

1. API Selection & Execution Panel (Left – Top)

This section is used to **select and configure the API execution**.

- **Name** – API or Service name selection
- **Type** – API / Service / Saved APIs
- **Log** – Logging level selection
- **Env** – OMS Environment selection
- **Locale** – Locale value

- **Invoke API** – Executes the API
- **Save** – Saves the API request

2. API Workspace Area (Right – Top)

This section is the **API working editor**.

- **Input** – Request XML editor
- **Output** – API response viewer
- **Template** – Default request templates
- **Search** – Search within editor content
- **Toolbar icons** – Editor Actions (copy, paste, undo/redo, copy to pages, etc.)

3. API Call History Panel (Left – Middle)

This section displays **previously executed API calls**.

- **Open** – Opens a selected API execution
- **Delete** – Deletes API history
- **Download** – Downloads request/response
- **API Name** – Executed API name
- **Time** – Execution time

4. Status Bar (Bottom)

This section shows **execution status information**.

- **API Tester Status** – API selection status
- **Response** – Response availability
- **Execution Time** – Time taken for API execution

7.1 Saved API's

A Saved API is an OMS API request that has been stored for reuse in the API Tester. It contains the API name, input XML/JSON, environment, and execution settings. Saved APIs allow users to quickly re-execute frequently used API calls without rebuilding the request. They help maintain consistency during testing and debugging. Saved APIs can be searched, opened, edited, marked as favorite, or deleted.

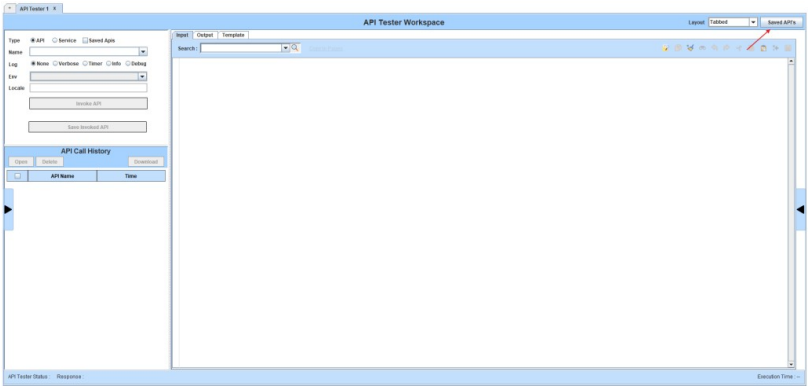

Figure 7.1.1: In the API Tester workspace, click the Saved API's button located in the top-right corner.

(Or)

Figure 7.1.2: In the left sidebar, click the three-dot in API Tester, then select Saved API's.

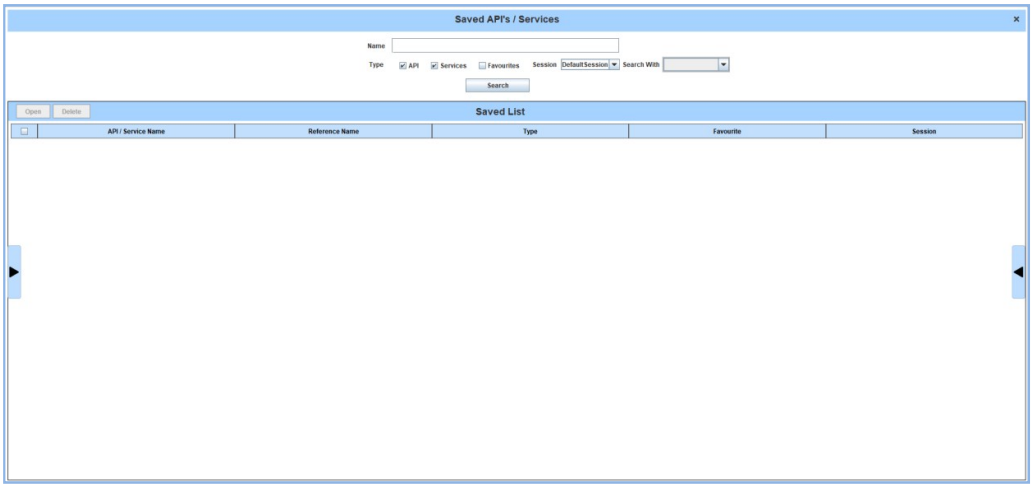

Figure 7.1.3: Saved API's / Services

Name / Type / Session / Search With – Filters to search saved APIs or services.

Search – Executes the search based on selected filters.

Saved List – Displays saved APIs and services.

API / Service Name, Reference Name, Type, Favorite, Session – Details of each saved entry.

Open / Delete – Opens or deletes the selected saved API/service.

8. Qry Client

Qry Client is a utility used to execute direct database queries against the Sterling OMS database. It allows users to run SQL queries to fetch, verify, or analyze OMS data. The tool is mainly used for troubleshooting, validation, and data inspection. Results are displayed in a tabular format for easy review. It helps developers and support teams quickly understand backend data state.

Figure 8.1: Qry Client, then new Query Client

Qry client tab opened

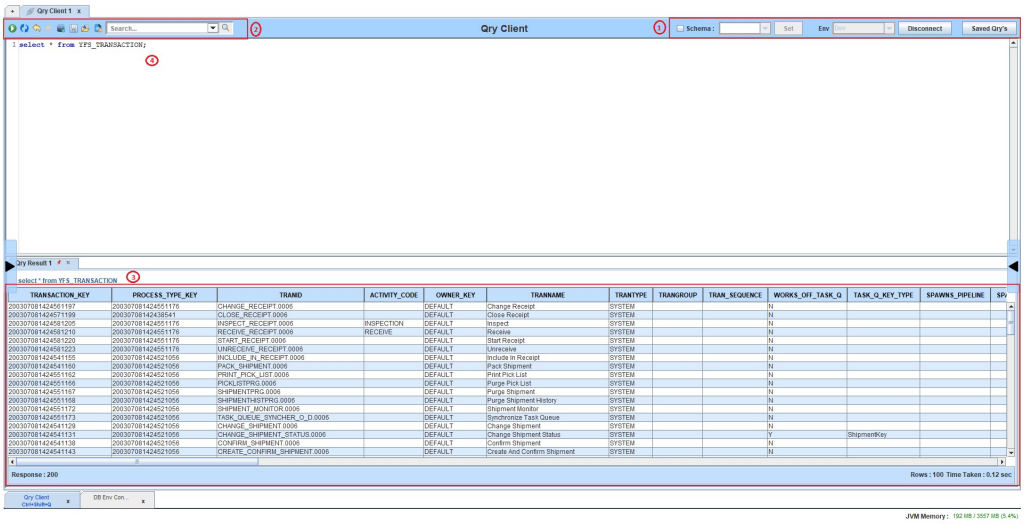

Figure 8.2: Qry Client workspace

1. Qry Client Connect and schema (Right – Top)

- **Qry Client**: SQL editor used to run database queries directly on the OMS database.
- **Schema**: Selects the database schema to execute the query against.
- **Conn (Dev)**: Shows the active database connection/environment.

2. **Qry Client Execution**

- **Run:** Used to execute the SQL query written in the editor.
- **Editor Action:** Undo, Redo and Refresh button.
- **Save:** save the current changes made to SQL scripts, queries.
- **Open folder:** open SQL file to run queries.

3. **Qry Result**

- **Qry Result tab**: Display the executed query output.
- **Response / Time Taken / Rows**: Execution status, query time, and number of records returned.
- **Result Grid**: Tabular data returned from the database

4. **Editor Area** Where SQL statements are written (e.g., SELECT * FROM YFS_TRANSACTION;).

8.1 Saved Qry Client

Saved Qry Client stores frequently used SQL queries from the OMS Qry Client. It allows users to reopen and reuse queries without rewriting them. Click save button in current Query Client workspace. Pop up will show to save Query.

Figure 8.1.1: save query with name and description

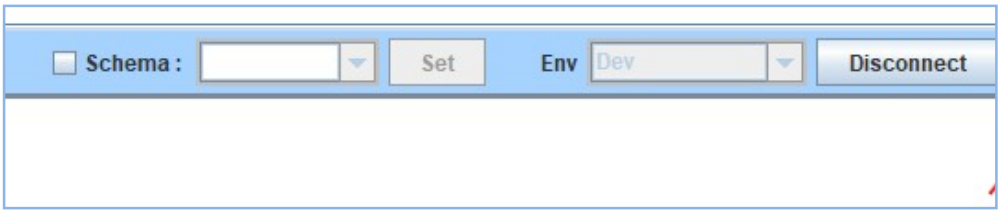

Figure 8.1.2: In the Qry Client workspace, click the Saved Qry's button located in the top-right corner.

(Or)

Figure 8.1.3: In the left sidebar, click the three-dot in Qry Client, then select Saved Query's.

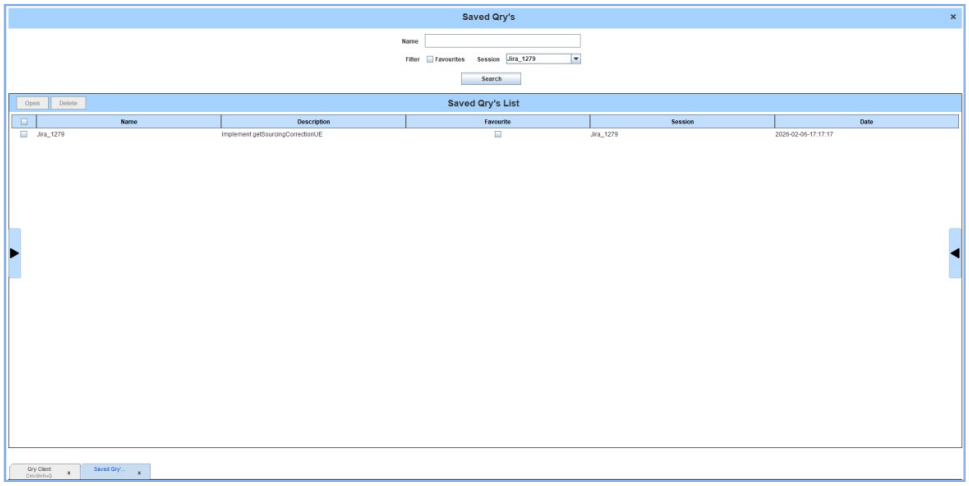

Figure 8.1.4 Saved Qry's

Filter Section

- **Name**: Search saved queries by query name.
- **Filter – Favorites**: Shows only queries marked as favorite.
- **Session**: Filters queries saved under a specific session.
- **Search**: Retrieves saved queries based on the selected filters.
- **Open**: Opens the selected saved query in the Query Client.
- **Delete**: Deletes the selected saved query.

Saved Query's List

- **Checkbox**: Selects a saved query for open or delete actions.
- **Name**: Name of the saved SQL query.
- **Description**: Purpose or details of the saved query.
- **Favorite**: Indicates whether the query is marked as a favorite.
- **Session**: Session under which the query was saved.

- **Date**: Date and time when the query was saved.

9. Sterling Docs

9.1 Java Docs

Sterling Java Docs is a reference view used to browse IBM Sterling OMS Java documentation within the tool.

Figure 9.1.1: Click Left slider, then Java Docs

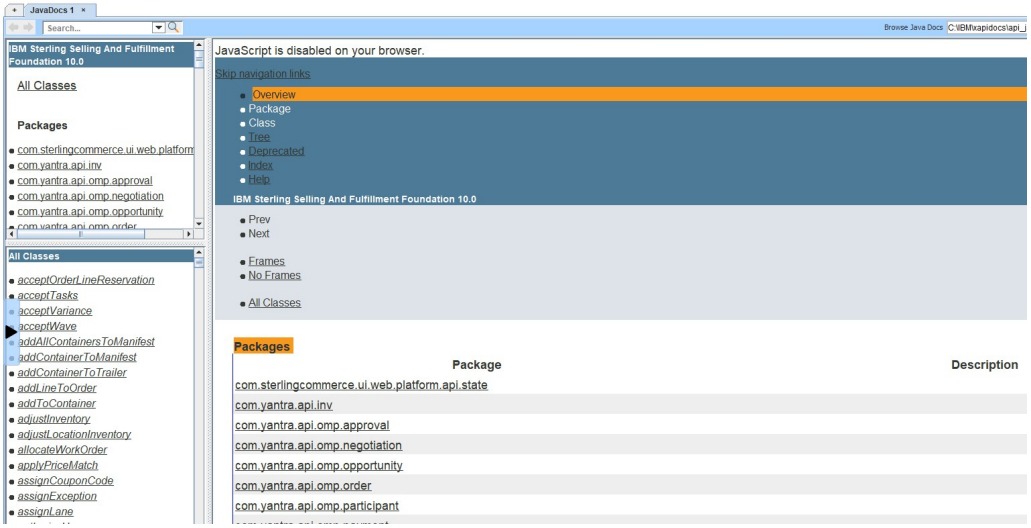

Figure 9.1.2: Sterling Java Docs

Search bar (top) – Used to quickly search for API's, attribute, UE, Event.

Brows java docs – Brows java docs file path.

9.2 XAPI Docs

XAPI Docs provides documentation for Sterling OMS XML APIs (XAPIs)**.** It lists all available OMS APIs with their request and response XML structures. Users can browse APIs by name and view input/output element definitions.

Figure 9.2.1: Click Left slider, then XAPI Docs

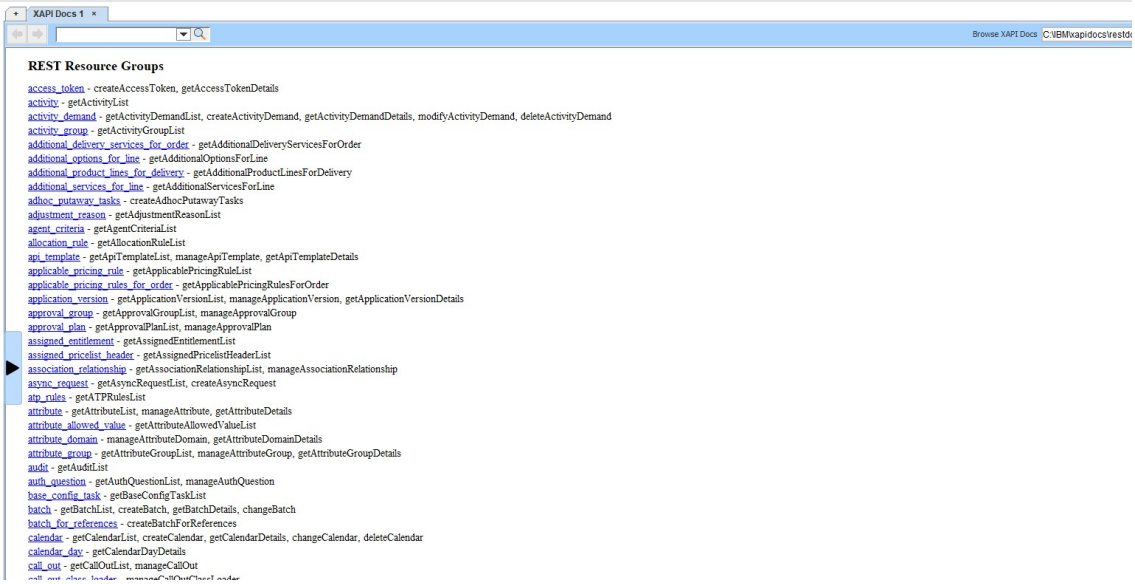

Figure 9.2.2: Sterling XAPI Docs

10. App Launcher

App Launcher is used to start and manage Sterling OMS applications from a single interface. It allows users to launch Application Manager, Sterling Management Console (SMC). It simplifies access without manually running scripts or URLs.

Figure 10.1: Left Slider, then App Launcher

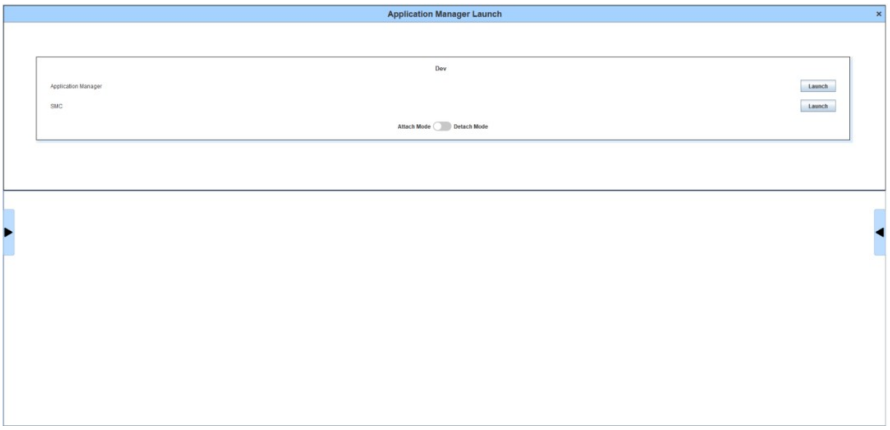

Figure 10.2: Application Manager Launcher

- **Environment section (Dev)** – Shows the selected OMS environment.
- **Application Manager** – Launches the Sterling OMS Application Manager console.
- **SMC** – Launches the Sterling Management Console.
- **Launch buttons** – Starts the selected application in a browser or client.
- **Log panel** – Displays launch status, logs, and execution messages
- **Attach Mode** – Runs the application with logs streamed live in the log panel.
- **Detach Mode** – Runs the application in the background without streaming logs on screen.
- **Open Log Folder** – Opens the local directory where application logs are stored.
- **Copy Log** – Copies the displayed log content to Pages for reference.

11. Local Build

Local Build **–** Used to manage OMS locally, allowing users to do the below tasks

- Start/stop servers in attach or detach mode
- Install or uninstall third-party JARs, build EAR/WAR files
- Execute custom commands, and launch applications directly from the tool.

Figure 11.1: Left slider, then Local build

Local build tab is opened

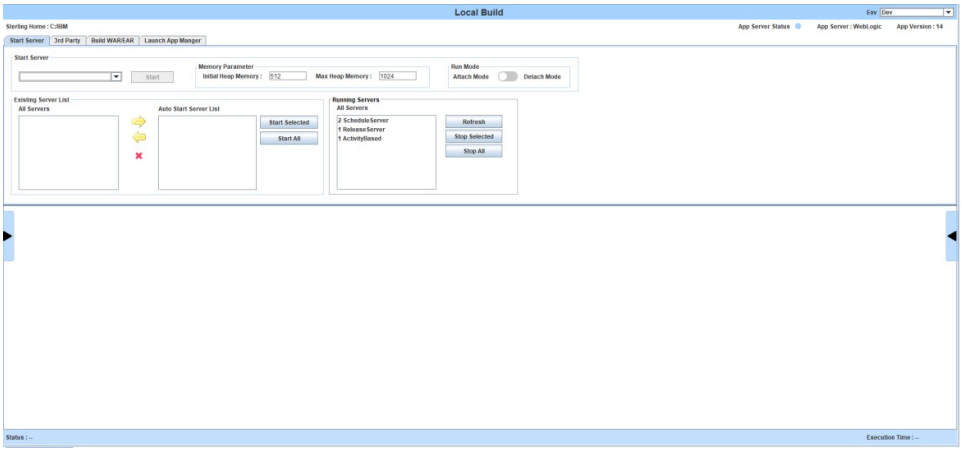

Figure 11.2: Local build

Top Section

- **Sterling Home:** The installation path for Sterling OMS.
- **Env (Dropdown):** Allows selection of the environment (e.g., Dev, Local).
- **App Server Status:** Shows the current status of the selected application server.
- **App Server:** Displays the type of server (here, WebLogic).
- **App Version:** The version of the application (here, 14).

11.1 Start Server

User can start, stop, and monitor servers, configure memory, and manage auto-start settings. It also shows server status and logs.

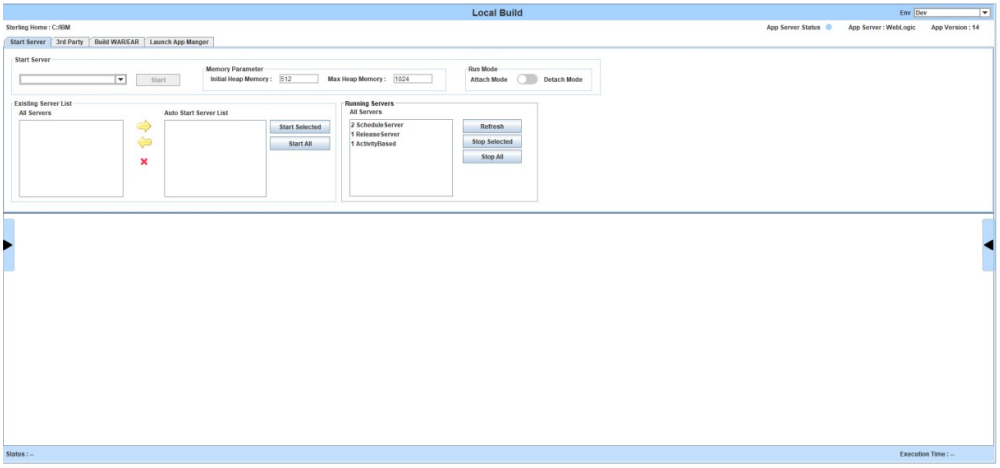

Figure 11.1.1: start server

1. Start Server

- Enter server name / use dropdown to select which server you want to start.
- **Start Button:** Launches the selected server.

Memory Parameter

- **Initial Heap Memory:** Minimum memory allocated to JVM (default 512 MB).
- **Max Heap Memory:** Maximum memory JVM can use (default 1024 MB).

  Run Command Mode - Attach Mode / Detach Mode Determines how the server process runs relative to the console.
- **Attach Mode:** Runs in the current console.
- **Detach Mode:** Runs in the background

2. Existing Server List

- Shows list of server started to this application.
- **Arrow Buttons:** Move servers between the existing list and the auto-start list.
- **Red Cross:** Remove server from auto-start or existing list.

3. Auto Start Server List

- Servers added here will be started automatically.
- **Start Selected:** Starts only the selected servers from this list.
- **Start All:** Starts all servers listed here.

4. Running Servers

- Displays currently running servers.

- **Refresh:** Updates the running server list.
- **Stop Selected:** Stops selected servers from the running list.
- **Stop All:** Stops all running servers.

Log Section

- Displays real-time log of server start/stop actions.
- **Copy to Pages:** Copies log output to other tabs/pages.
- **Open Log Folder:** Opens folder containing server logs.
- **Clear Log:** Clears the displayed log.

11.2 3rd Party JAR

User can install/ uninstall jar, open dynamic file in local. It also shows status and logs.

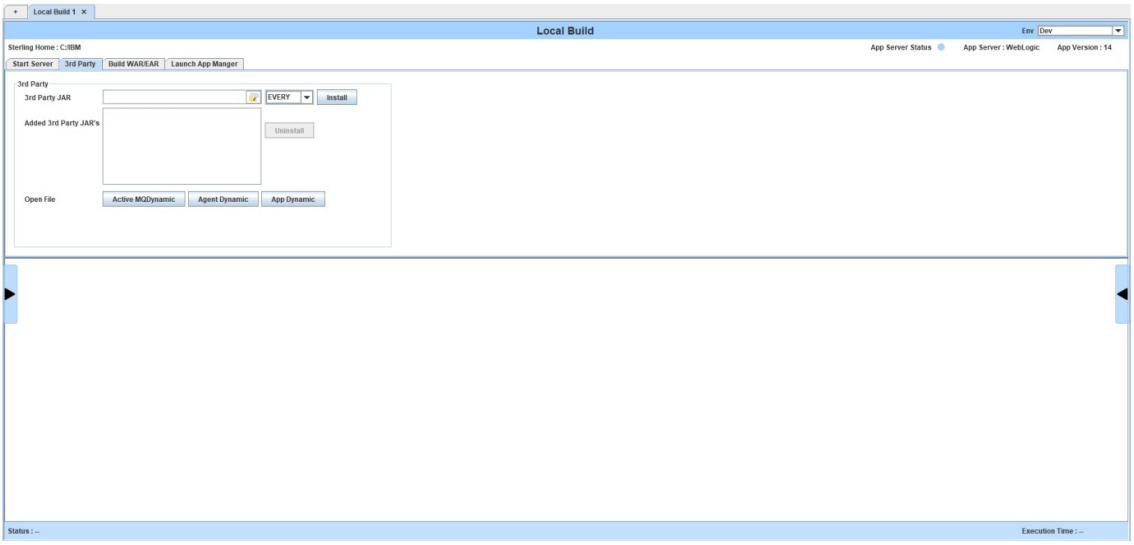

Figure 11.2.1: Third Party Jar

3rd Party JAR

Text box - User can specify the path to a third-party JAR file to be installed within the Sterling Environment

Added 3rd Party JAR's

- List box showing all 3rd party JARs that have been install through application.
- You can select a JAR here to uninstall it (though the Uninstall button is currently disabled in the screenshot).

Open File Section (Active MQDynamic / Agent Dynamic / App Dynamic)

- Buttons to open configuration files related to ActiveMQ, Agent, or App Dynamic class paths for further modifications.

Log Panel (bottom)

- Displays the execution status of actions such as installing JARs.
- Buttons for copying log, opening log folder, and clearing log are present.

11.3 Build WAR/ EAR

User can select a required file and build a new EAR or WAR. They can also include entity or resource JARs in the build. Additionally, a backup of the original file is taken in the local directory.

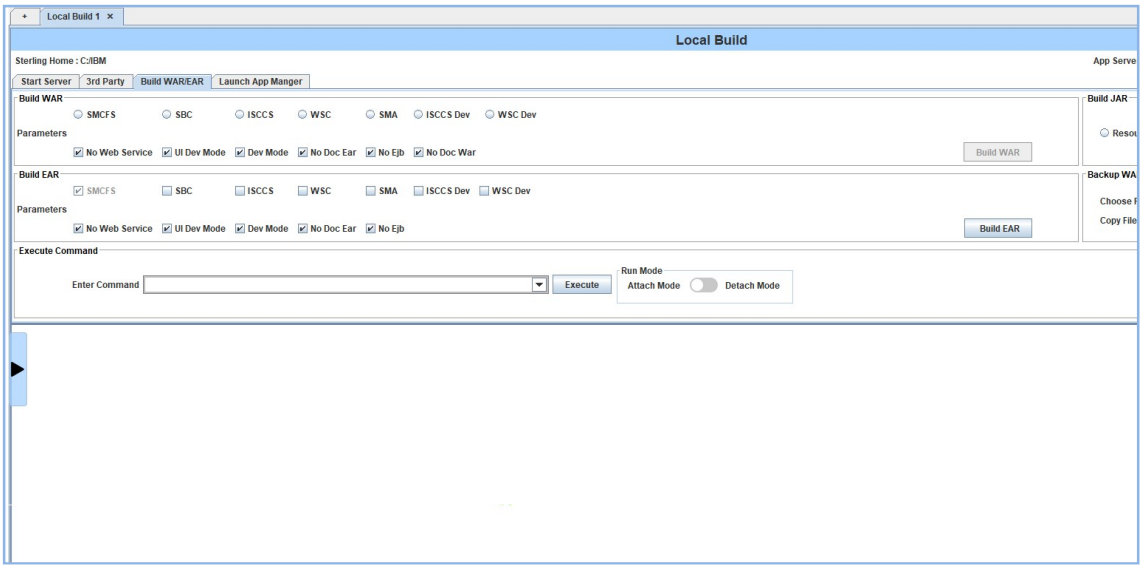

Figure 11.3.1: Build WAR/EAR

Log Panel

- Displays the execution status of actions such as Build command.
- Buttons for copying log, opening log folder, and clearing log are present.

11.4 Launch App Manager

App Launcher is used to start and manage Sterling OMS applications from a single interface. It allows users to launch Application Manager, Sterling Management Console (SMC).

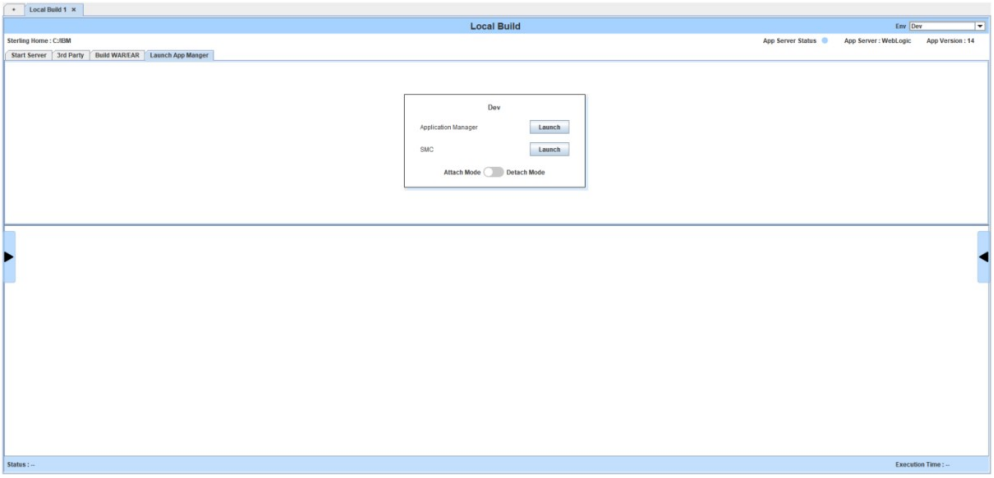

Figure11.4.1: Launch App manager

- **Environment section (Dev)** – Shows the selected OMS environment.
- **Application Manager** – Launches the Sterling OMS Application Manager console.
- **SMC** – Launches the Sterling Management Console.
- **Launch buttons** – Starts the selected application.
- **Log panel** – Displays launch status, logs, and execution messages
- **Attach Mode** – Runs the application with logs streamed live in the log panel.
- **Detach Mode** – Runs the application in the background without streaming logs on screen.
- **Open Log Folder** – Opens the local directory where application logs are stored.
- **Copy Log** – Copies the displayed log content to Pages for reference.

12. Sticky Notes

Sticky Note feature is designed to help users quickly record and manage important information directly within the tool during an active session.

Figure12.1: Right slider, then Sticky Notes

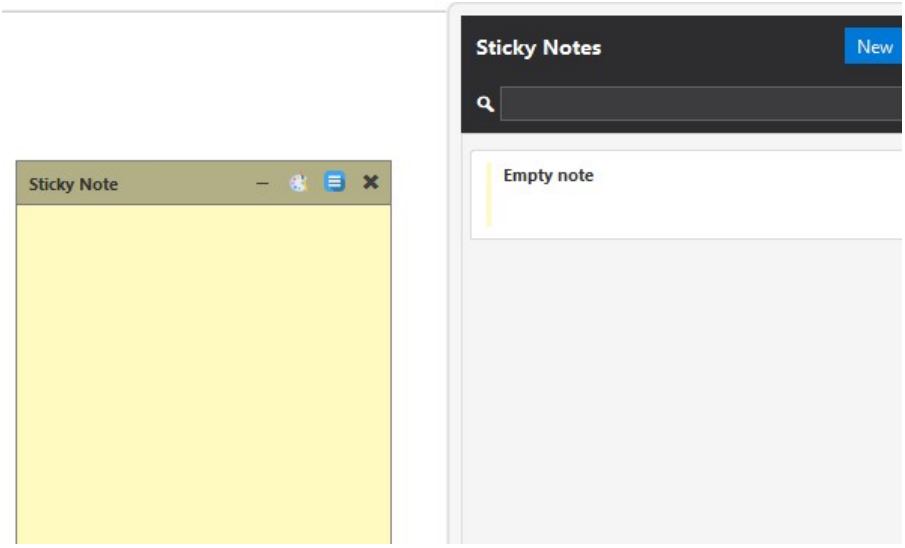

Figure 12.2: Sticky Note Workspace

Create Sticky Note: Users can create a new sticky note using the New option in the Sticky Notes panel.

Editable Note Content: Each sticky note provides a free-text area where users can type and update information.

Floating & Movable Window: Sticky notes appear as floating windows on the workspace.

Minimize Note: Notes can be minimized to reduce screen usage while keeping them available in the session.

Close / Hide Note: A note can be hidden from the workspace without deleting it.

Sticky Notes Panel: Displays a list of all sticky notes created in the session.

Search Notes: Users can search within the Sticky Notes panel to quickly locate specific notes.

Delete Note: Notes can be permanently deleted when they are no longer required.

13. Screen Capture

Screen Capture allows users to configure how a screenshot is captured before taking it.

Figure 13.1: Right slider, then Screen Capture

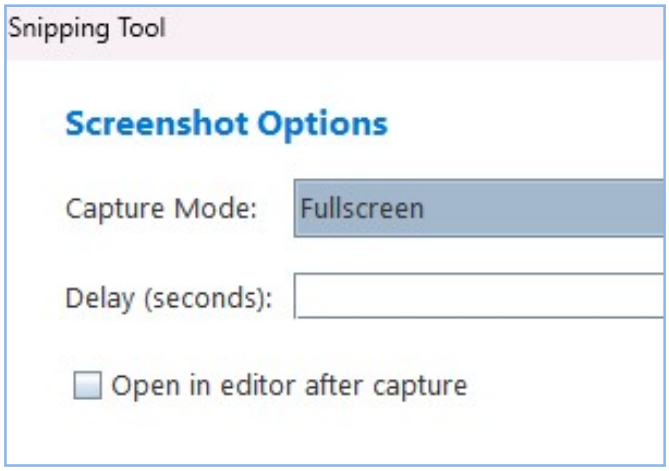

Figure 13.2: screen capture configuration

Capture Mode: type of screenshot to be taken.

Full Screen: Captures the entire screen.

Delay (seconds): Specifies a time delay (in seconds) before the screenshot is captured.

Open in Editor after Capture: When selected, the captured screenshot automatically opens in the image editor. Allows users to annotate, crop, or save the image immediately.