mRounds Integration Guide

Connected Worker Solutions

Title and Copyright

Copyright and **Terms of Use** page for **Connected Back Office**.

Integration Guide for mRounds, a *Connected Office Worker Solution*.

Release Version: *2503*

Release Date: *17 April 2025*

Published Date: *17 April 2025*

Document Version: *1.0*

Primary Author: Innovapptive Inc.

Preface

Understand audience, know related documents and products and conventions followed in this document.

Intended Audience

This user guide is for plant maintenance field service technicians in your organization. The user guide familiarizes technicians with features and functionality of the Connected Back Office solution.

Document Conventions

Table 0-1 Conventions followed in the document

Convention	Meaning
boldface	Indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Indicates book titles, emphasis, or place-holder variables for which you supply values.
`monospace`	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

Related Products & Solutions

- Work Order Management
- Inventory and Warehouse Management
- Analytics and Dashboards

Contact Innovapptive

For information on Innovapptive products, visit the Innovapptive's Support Portal at http://helpdesk.innovapptive.com. The updates to this document are published on this support portal. Check this website periodically for updated documentation.

For additional information about this document, send an email to documentation@innovapptive.com.

Contents

1. Manage Integrations in mRounds

Integrating mRounds with external systems is essential for seamless maintenance operations and data flow across an organization. This chapter provides a comprehensive guide to establishing and configuring connections between mRounds and various external systems, such as FTP servers, ODBC databases, SMTP email servers, and SAP ERP systems.

These integrations enable mRounds to export critical maintenance data, automate notifications, and synchronize real-time information with other platforms. Whether it's transferring rounds results to an FTP server for centralized storage, exporting data to a database for advanced analytics, or integrating with SAP to automate work order creation, these configurations ensure that mRounds fits smoothly into your organization's broader IT landscape.

This chapter has the following topics:

1.1. Establish a Connection with FTP Server for Data Export

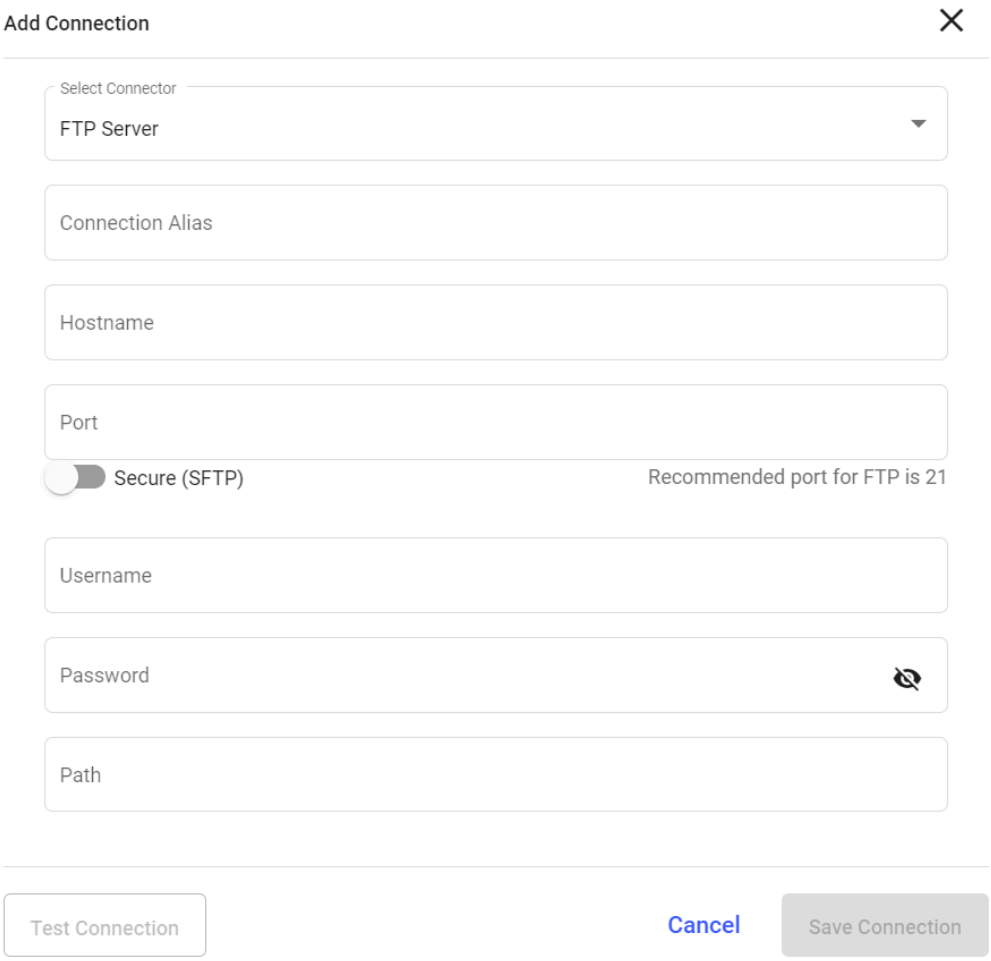
An FTP (File Transfer Protocol) server connection allows mRounds to securely transfer large volumes of data to external systems for reporting, backup, or further processing. Establishing this connection enables the export of rounds data and reports to FTP servers without manual intervention, ensuring a smooth and automated process for data storage and sharing.

- **Automate Data Exports**: Reduces the need for manual transfers by automating the process of exporting rounds data to an external FTP server.
- **Centralized Data Storage**: Ensures that all exported rounds data is available in a secure, centralized location for backup, audits, or further analysis.

To create a connection for FTP server:

1. Click the **Integrations Manager** module on the left side pane.
2. Click the Add button in the **Connections** section on the left side.

Figure 1-1 Create FTP Connection



3. In the **Add Connection** window, do the following:
    a. Select **FTP Server** from the **Select Connector** drop-down.
    b. Enter the connection alias name in the **Connection Alias** field.
    c. Enter the host address in the **Hostname** field.
    d. Enter the port number in the **Port** field.
    e. Enter the username in the **Username** field.
    f. Enter the password in the **Password** field.
    g. Enter the path or location of FTP in the **Path** field.
    h. Click **Test Connection** to test the connection.
    i. Click **Save Connection** if the connection is successful.

The Connection is created successfully and you can see it in the Connections section.

In this section, you can,

- Click the More icon next to the connection and select **View Details** to see the connection details.
- Click the More icon next to the connection and select **Edit Connection** to edit the connection details.
- Click the More icon next to the connection and select **Delete Connection** to delete the connection.

Configure Data Export to FTP for Automated Transfer

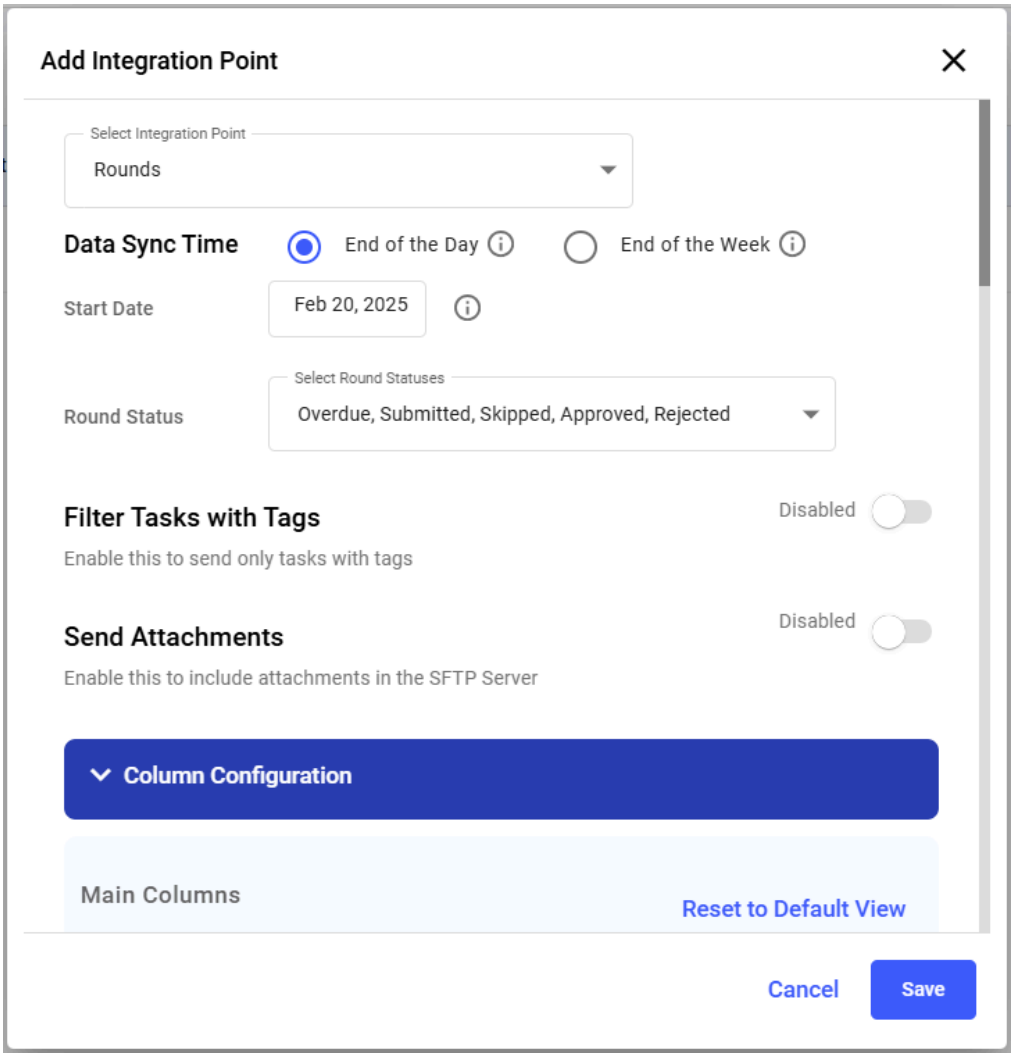
Once a secure connection is established, the next step is to configure mRounds to export data to the FTP server. This setup allows specific types of data such as rounds results, reports, and issues to be automatically exported to the FTP server.

- **Automate Reporting**: Automatically transfer critical data, such as maintenance results and issue logs, to the FTP server for long-term storage.
- **Facilitate Data Sharing**: Enable seamless data sharing between mRounds and other systems that may pull data from the FTP server.

To add an integration to FTP server

1. Click the **Integrations Manager** module on the left side pane.
2. Select the **FTP Server** in the **Connections** section.
3. Click **Add Integration** on the right side.

Figure 1-2 Add Integration Point



4. In the **Add Integration Point** window, do the following:

a. Select the integration point (Rounds) from the **Select Integration Point** drop-down.
b. Choose **End of the Day** or **End of the Week** in the **Data Sync Time** field to create a new .CSV file for each day or week.
c. Select date from the **Start Date**.
d. Enter the number of hours in the **Modify Every <> Hour** field to modify the .CSV file at the end of every day/week based on the selected hours.
e. Enable/Disable the **Filter Tasks with Tags** to send only tasks with/specific tags or with not tags.
f. Expand **Column Configuration** and configure or select the columns such as, Round Plan ID, Round Plan Name, Plant ID, Plant Name, Location ID, Asset ID, Unit, Position, and so on that should be displayed in .CSV file.
g. Click **Save**.

The Integration Point is created and you can view it in the **Integrations** section.

The .CSV file is generated based on data synchronization schedule and stored in the configured FTP location.

1.2. Establish a Connection with ODBC for Database Integration

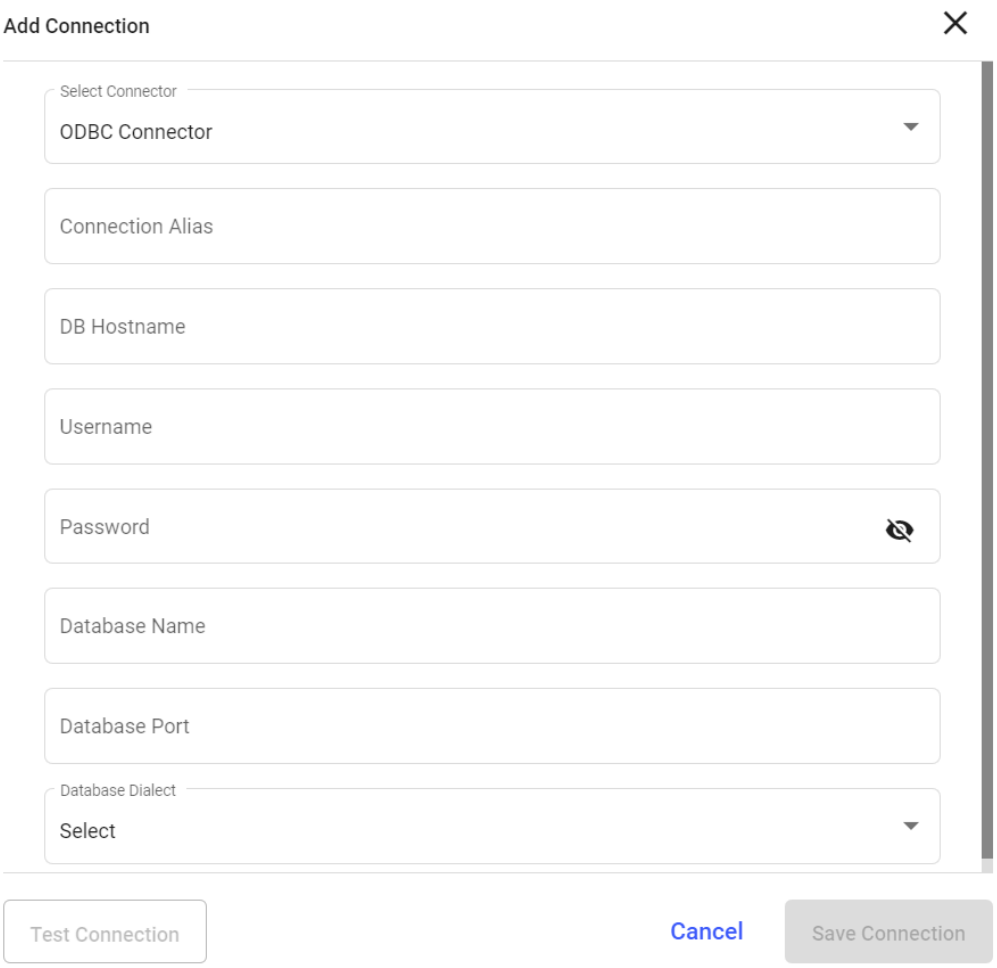
The ODBC (Open Database Connectivity) connector allows mRounds to directly interface with external databases. This connection is crucial for exporting rounds data to an organization's internal databases, enabling further analysis and integration with other systems like reporting tools or custom dashboards.

- **Direct Database Integration**: Streamlines the process of transferring rounds data from mRounds to external databases.
- **Support for Custom Analytics**: Facilitates integration with custom reporting tools and dashboards by allowing direct access to mRounds data.

To create a connection for ODBC connector:

1. Click the **Integrations Manager** module on the left side pane.
2. Click the Add button in the **Connections** section on the left side.

Figure 1-3 Add ODBC Connection



3. In the **Add Connection** window, do the following:
    a. Select **ODBC Connector** from the **Select Connector** drop-down.
    b. Enter the connection alias name in the **Connection Alias** field.
    c. Enter the host address in the **DB Hostname** field.
    d. Enter the username in the **Username** field.
    e. Enter the password in the **Password** field.
    f. Enter the database name in the **Database Name** field.
    g. Enter the port number in the **Database Port** field.
    h. Select the database type from the **Database Dialect** drop-down.
    i. Click **Test Connection** to test the connection.
    j. Click **Save Connection** if the connection is successful.

The Connection is created successfully and you can see it in the Connections section.

In this section, you can,

- Click the More icon next to the connection and select **View Details** to see the connection details.
- Click the More icon next to the connection and select **Edit Connection** to edit the connection details.
- Click the More icon next to the connection and select **Delete Connection** to delete the connection.

Configure Data Export to ODBC for Database Storage

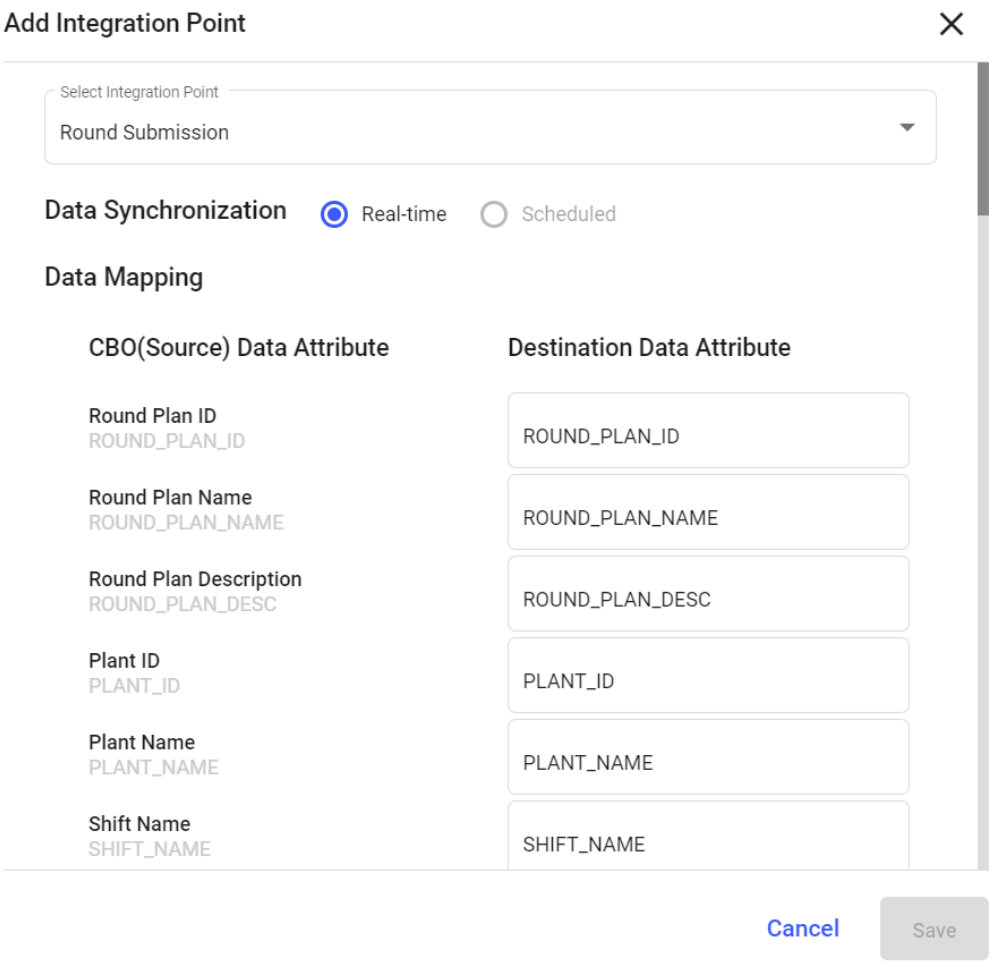
Once the ODBC connection is established, you can configure mRounds to export data directly into your organization's external database. This allows for real-time synchronization between mRounds and your database for further analysis or reporting.

- **Automated Data Synchronization**: Keep your internal database up to date with real-time rounds data from mRounds.
- **Enable Advanced Analytics**: Export data to external databases where advanced analytics can be performed.

To add an integration to ODBC connection:

1. Click the **Integrations Manager** module on the left side pane.
2. Select the **ODBC Connector** in the **Connections** section.
3. Click **Add Integration** on the right side.

Figure 1-4 Add Integration Point



4. In the **Add Integration Point** window, do the following:

a. Select the integration point (Round Submission) from the **Select Integration Point** drop-down.
b. Select **Data Synchronization** as **Real-time** or **Scheduled**.
c. In the **Data Mapping** section, map the CBO (Source) Attributes to Destination Data Attributes.
d. Click **Save**.

The Integration Point is created and you can view it in the **Integrations** section.

The .CSV file is generated based on data synchronization schedule and stored in the configured ODBC location.

1.3. Configure an SMTP Server for Automated Email Notifications

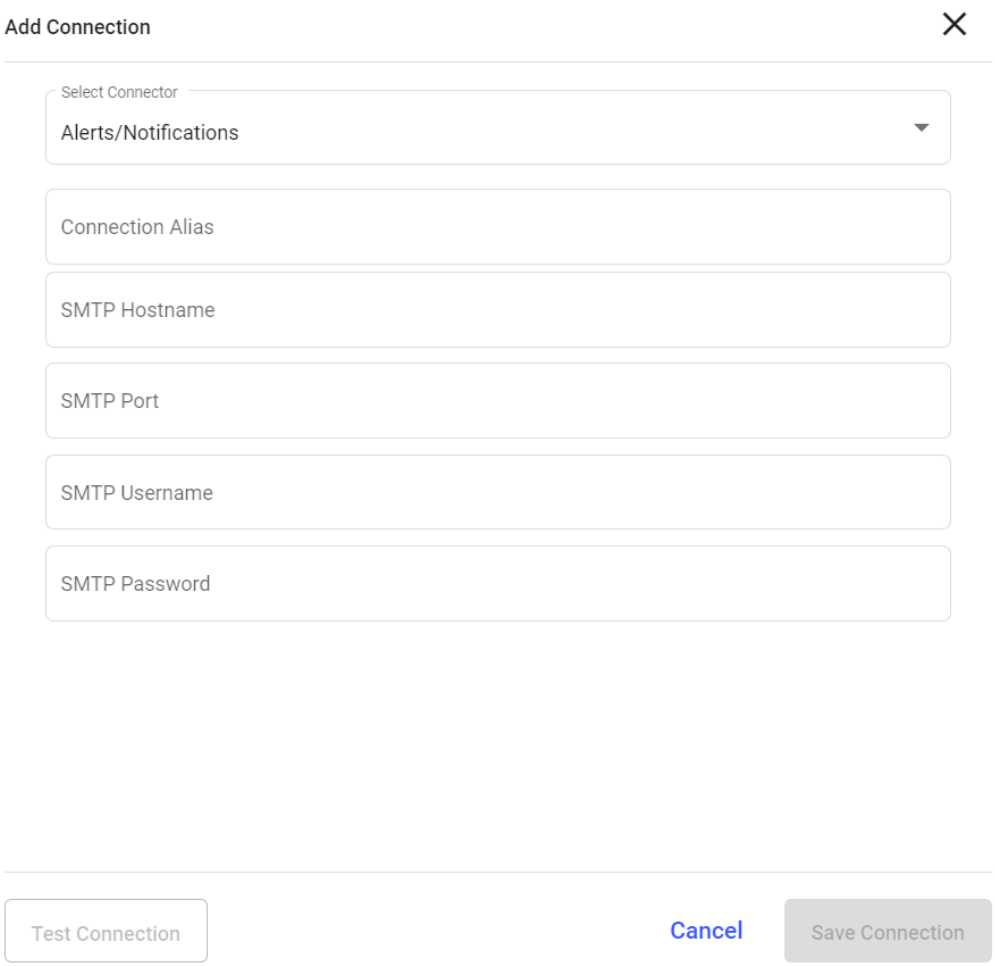
Configuring an SMTP (Simple Mail Transfer Protocol) server allows mRounds to send automated email notifications to stakeholders about task completions, issues, and important updates. This connection ensures timely communication about maintenance operations.

- **Automated Alerts**: Ensure that stakeholders receive real-time notifications regarding critical issues or task completions.
- **Enhance Communication**: Automate the process of sending alerts and updates, reducing manual follow-up.

To create a connection for SMTP server:

1. Click the **Integrations Manager** module on the left side pane.
2. Click the Add button in the **Connections** section on the left side.

Figure 1-5 Add SMTP Connection



3. In the **Add Connection** window, do the following:
   a. Select **Alerts/Notifications** from the **Select Connector** drop-down.
   b. Enter the connection alias name in the **Connection Alias** field.
   c. Enter the host address in the **SMTP Hostname** field.
   d. Enter the port number in the **SMTP Port** field.
   e. Enter the username in the **Username** field.
   f. Enter the password in the **Password** field.
   g. Click **Test Connection** to test the connection.
   h. Click **Save Connection** if the connection is successful.

The Connection is created successfully and you can see it in the Connections section.

In this section, you can,

- Click the More icon next to the connection and select **View Details** to see the connection details.
- Click the More icon next to the connection and select **Edit Connection** to edit the connection details.
- Click the More icon next to the connection and select **Delete Connection** to delete the connection.

Configure Email Notifications with SMTP

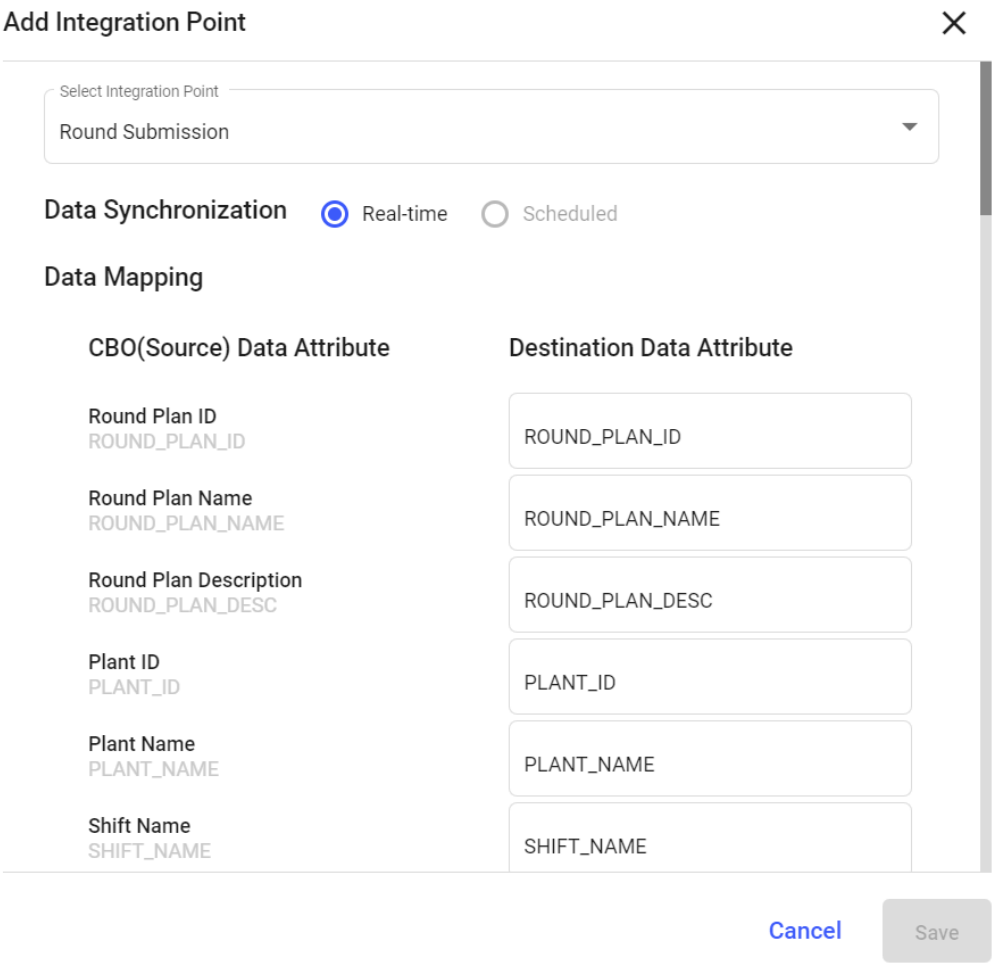
Once the SMTP connection is configured, you can set up automated email notifications to be triggered based on specific events in mRounds, such as issue creation, task completion, or round updates. This ensures timely communication with stakeholders.

1. **Real-Time Notifications**: Automatically notify supervisors, operators, or managers about important updates or issues.
2. **Event-Driven Alerts**: Configure email alerts to trigger when specific events occur, such as task completion or new issues.

To add an integration to SMTP server:

1. Click the **Integrations Manager** module on the left side pane.
2. Select the **SMTP Server** in the **Connections** section.
3. Click **Add Integration** on the right side.

Figure 1-6 Add Integration Point



4. In the **Add Integration Point** window, do the following:

a. Select the integration point (Round Submission) from the **Select Integration Point** drop-down.
b. Select **Data Synchronization** as **Real-time** or **Scheduled**.
c. In the **Data Mapping** section, map the CBO (Source) Attributes to Destination Data Attributes.
d. Click **Save**.

The Integration Point is created and you can view it in the **Integrations** section.

The .CSV file is generated based on data synchronization schedule and stored in the configured SMTP location.

1.4. Establish a Connection with SAP for Data Integration and Rounds Maintenance

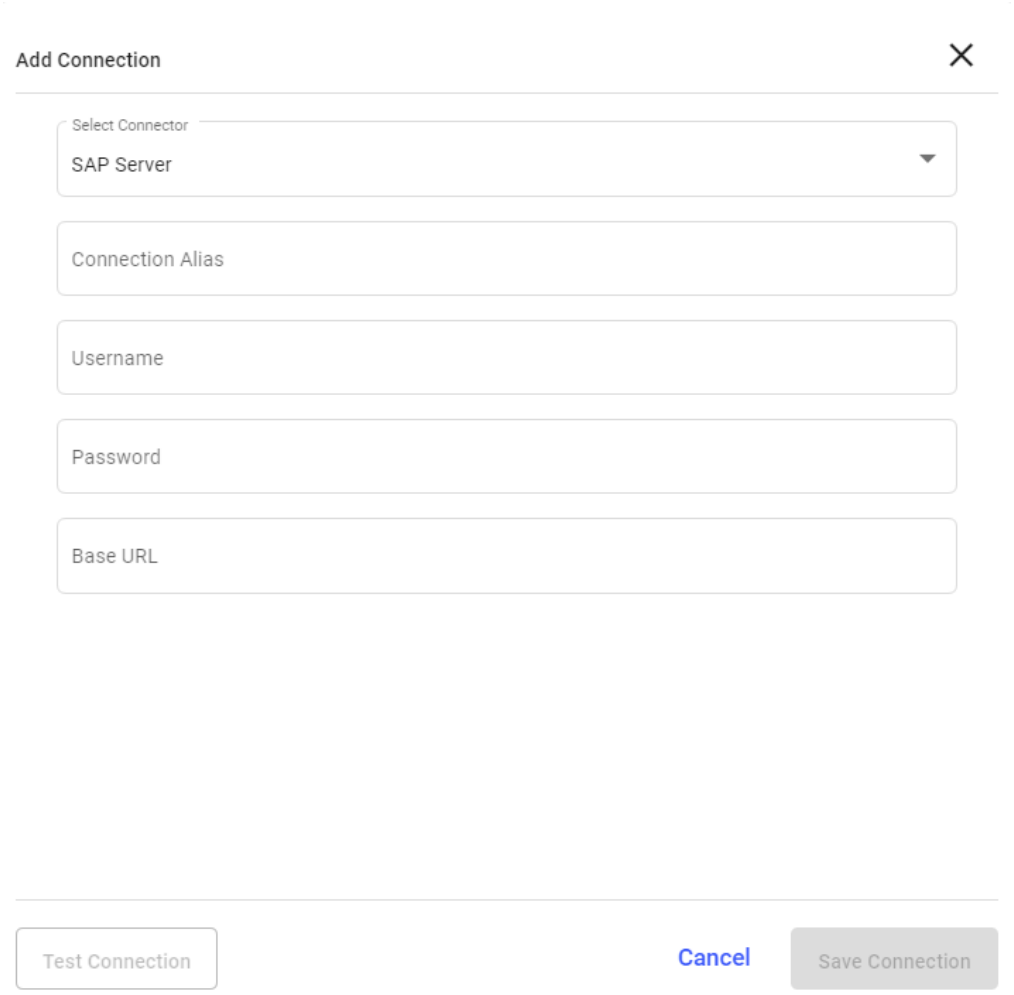
The SAP integration allows mRounds to send critical rounds data directly into an SAP system. This connection is essential for synchronizing maintenance data with the organization's SAP ERP system, enabling automated work order creation and maintenance tracking.

- **Automate Work Orders**: Send rounds results directly to SAP to automatically generate work orders for equipment that needs servicing.
- **Ensure Data Synchronization**: Keep SAP up to date with real-time maintenance data from mRounds, ensuring comprehensive asset tracking and reporting.

To create a connection for SAP server:

1. Click the **Integrations Manager** module on the left side pane.
2. Click the Add button in the **Connections** section on the left side.

Figure 1-7 Add SAP Connection



3. In the **Add Connection** window, do the following:

a. Select **SAP Sever** from the **Select Connector** drop-down.
b. Enter the connection alias name in the **Connection Alias** field.
c. Select the value from the **Authorization** drop-down such as, Basic, Certificate, and API Key.

> **Note:**
> Fill the remaining fields that are displayed based on the selected value in the Authorization drop-down.

d. Click **Test Connection** to test the connection.
e. Click **Save Connection** if the connection is successful.

> **Note:**
> The connection will be successful only if there is no existing master data in the application.

The Connection is created successfully and you can see it in the Connections section.

In this section, you can,

- Click the More icon next to the connection and select **View Details** to see the connection details.
- Click the More icon next to the connection and select **Edit Connection** to edit the connection details.
- Click the More icon next to the connection and select **Delete Connection** to delete the connection.

Configure Data Synchronization with SAP for Automated Maintenance

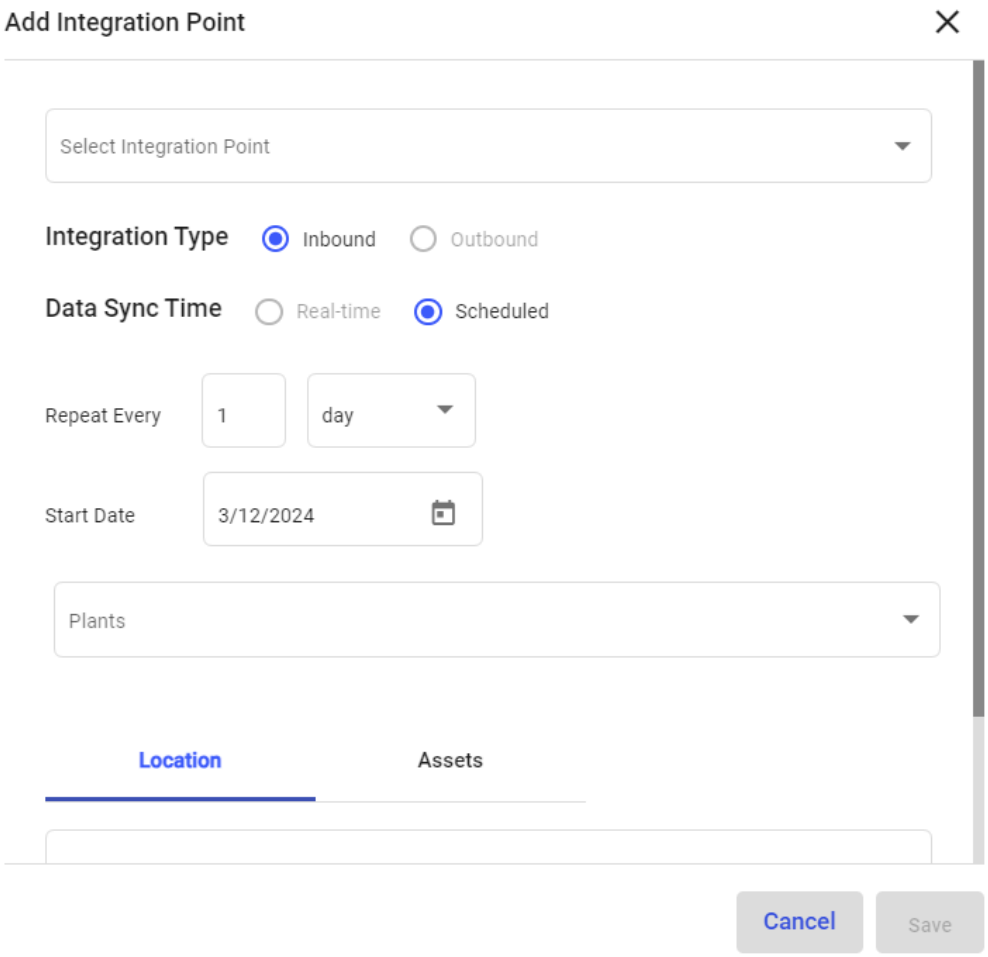
Once connected to SAP, you can configure mRounds to automatically send rounds data, asset status, and issue logs to the SAP system. This integration helps generate work orders, track asset health, and streamline the entire maintenance process.

- **Seamless Work Order Generation**: Automatically create work orders in SAP based on the results of completed rounds.
- **Improved Maintenance Tracking**: Keep SAP updated with real-time asset data, allowing for better monitoring and decision-making.

To add an integration to SAP:

1. Click the **Integrations Manager** module on the left side pane.
2. Select the **SAP Server** in the **Connections** section.
3. Click **Add Integration** on the right side.

Figure 1-8 Add Integration Point



4. In the **Add Integration Point** window, do the following:
   a. Select the integration point (Master Data) from the **Select Integration Point** drop-down.
   b. Select **Integration Type** as **Inbound**.
   c. Select **Data Synchronization** as **Scheduled**.
   d. Select **Repeat Every <number> <day, week, month or year>**.
   e. Select **Start Date**.

f. Select plant from the **Plants** drop-down where the location or asset residing.
g. In the **Location or Assets** tab, enter the collection in the **URL** field.
h. In the **Column Configuration** section, map the CBO data columns to SAP data columns.
i. Click **Save**.

The Integration Point is created and you can view it in the **Integrations** section.

The master data synchronization in the application occurs based on the configured schedule. You can also sync the data manually.

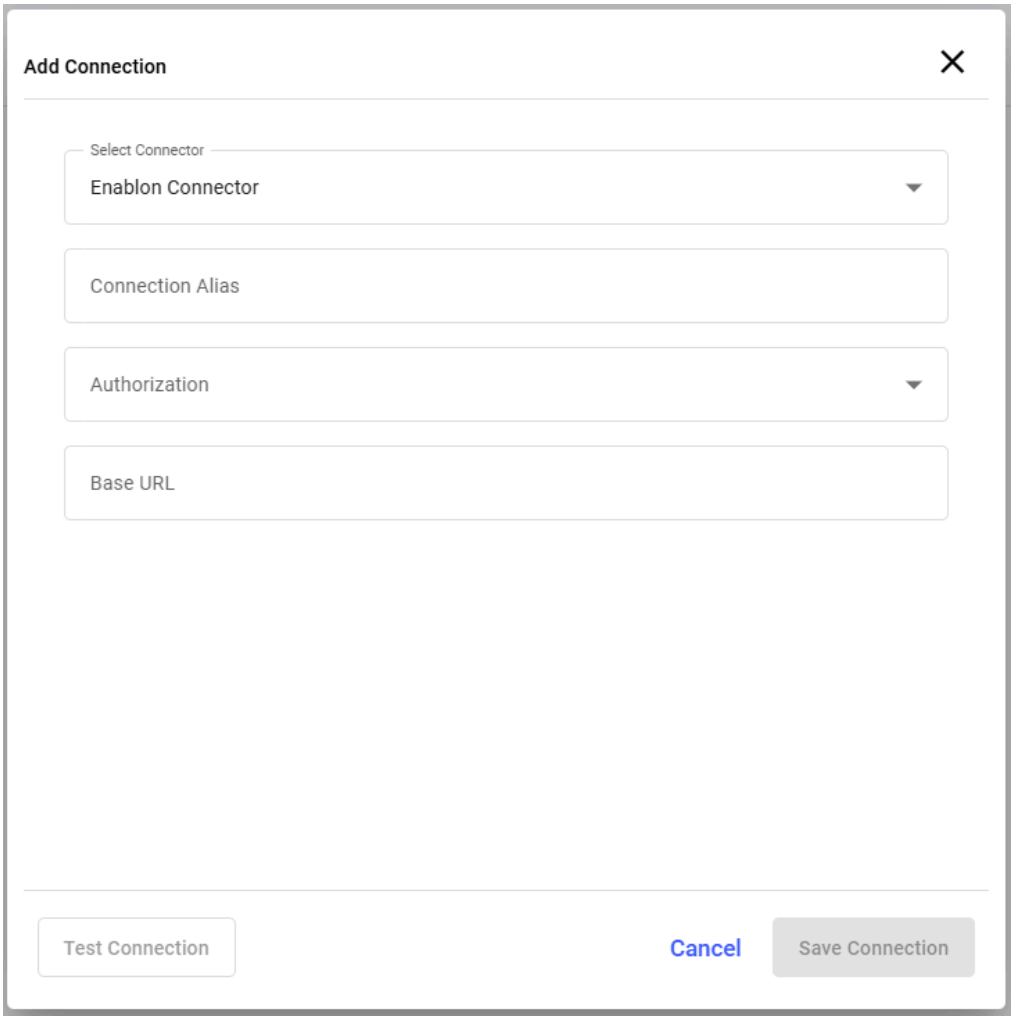
1.5. Establish a Connection with Enablon for EHS Incident Management

If an Environment, Health, and Safety (EHS) issue is raised in the mRounds application, the details are automatically transferred to the Enablon incident management tool, creating a corresponding event. Additionally, if an SAP notification is generated for the same issue, mRounds sends the notification number along with the issue details to Enablon.

To create a connection for Enablon connector:

1. Click the **Integrations Manager** module on the left side pane.
2. Click the Add button in the **Connections** section on the left side.

Figure 1-9 Add Enablon Connection



3. In the **Add Connection** window, do the following:

a. Select **Enablon Connector** from the **Select Connector** drop-down.
b. Enter the connection alias name in the **Connection Alias** field.
c. Select the value from the **Authorization** drop-down such as, Basic, Certificate, and API Key.

> **Note:**
> Fill the remaining fields that are displayed based on the selected value in the Authorization drop-down.

d. Click **Test Connection** to test the connection.
e. Click **Save Connection** if the connection is successful.

> **Note:**
> The connection will be successful only if there is no existing master data in the application.

The Connection is created successfully and you can see it in the Connections section.

In this section, you can,

- Click the More icon next to the connection and select **View Details** to see the connection details.
- Click the More icon next to the connection and select **Edit Connection** to edit the connection details.
- Click the More icon next to the connection and select **Delete Connection** to delete the connection.

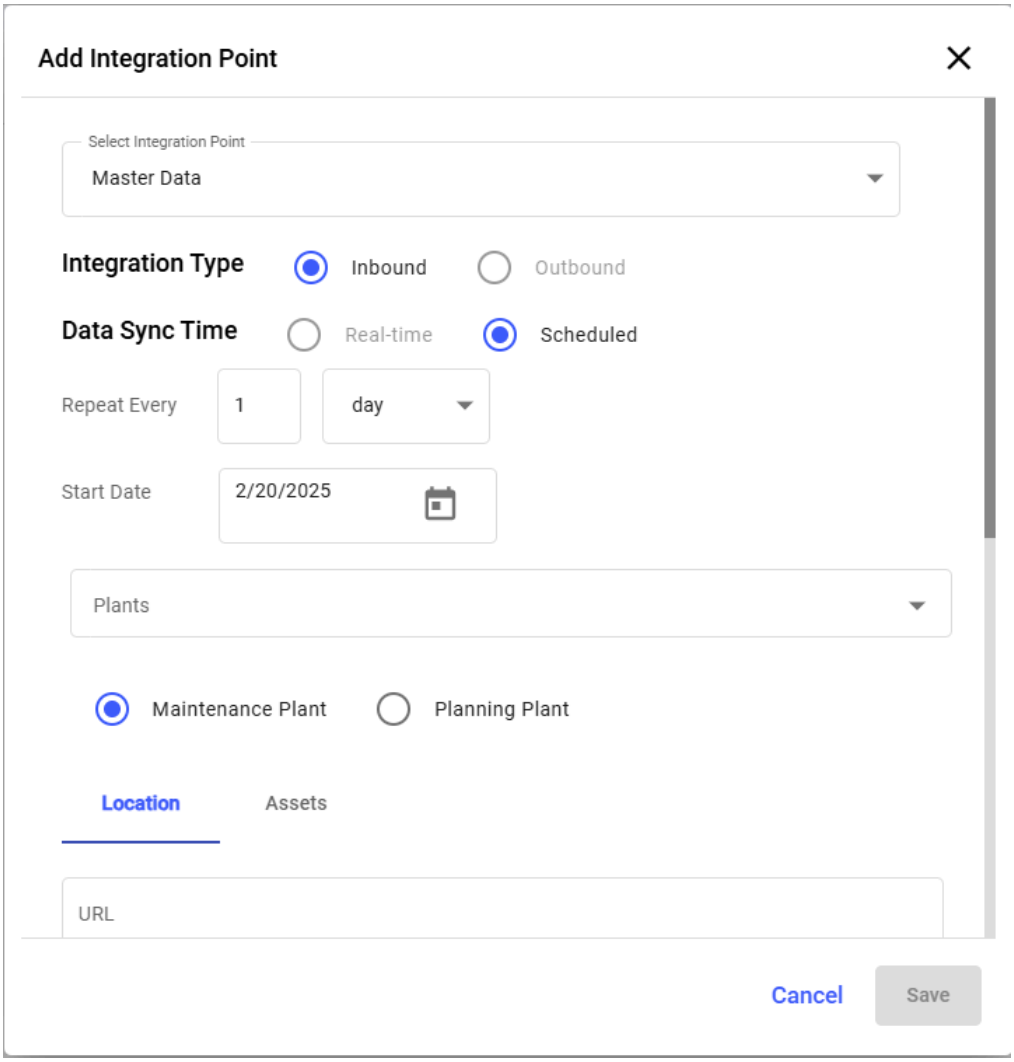
Configure EHS Notifications with Enablon

Once connected to Enablon, you can configure mRounds to automatically send EHS incident notifications to Enablon incident management tool. This streamlines data transfer, improves accuracy, and enhances real-time tracking and compliance.

To add an integration to Enablon:

1. Click the **Integrations Manager** module on the left side pane.
2. Select the **EHS Connection** in the **Connections** section.
3. Click **Add Integration** on the right side.

Figure 1-10 Add Integration Point



4. In the **Add Integration Point** window, do the following:
   a. Select the integration point (Master Data) from the **Select Integration Point** drop-down. and tap **Done**.
   b. Select **Integration Type** as **Inbound**.
   c. Select **Data Synchronization** as **Scheduled**.
   d. Select **Repeat Every <number> <day, week, month or year>**.
   e. Select **Start Date**.
   f. Select plant from the **Plants** drop-down where the location or asset residing.

g. In the **Location** tab, enter the collection in the **URL** field.
h. In the **Column Configuration** section, map the CBO data columns to SAP data columns.
i. In the **Assets** tab, enter the collection in the **URL** field.
j. In the **Column Configuration** section, map the CBO data columns to SAP data columns.
k. Click **Save**.

The Integration Point is created and you can view it in the **Integrations** section.

The master data synchronization in the application occurs based on the configured schedule. You can also sync the data manually.

2. Invoking mRounds Tasks using APIs

Innovapptive exposes certain APIs that can be consued by applications and create tasks like creating operator rounds, dynamically generate round plans, and so on.

To ensure security and control over API usage, API Key authentication is enforced. To access mRounds APIs, include a valid API key in requests. These keys ensure trusted connections are established with authorized users. This helps protect sensitive data and resources while promoting secure and controlled interactions between external applications and Innovapptive's services.

2.1. Generating API Keys

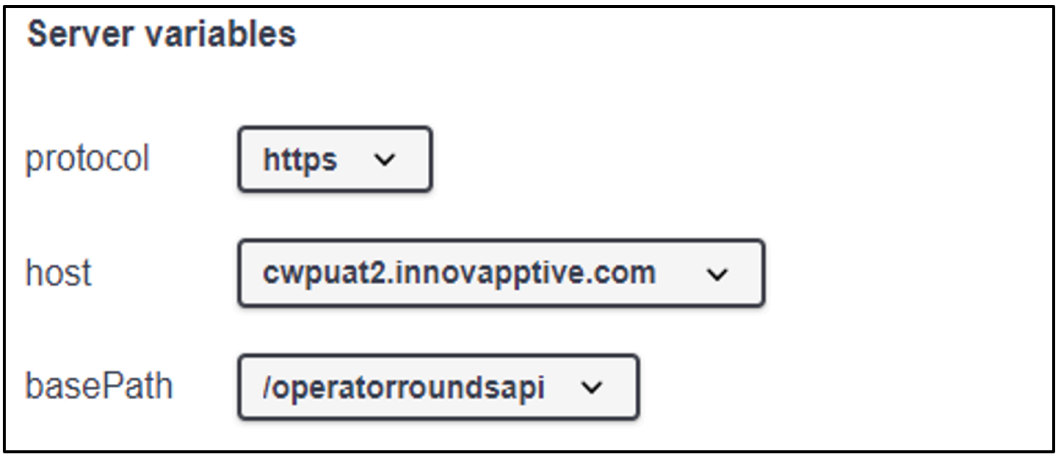
This section describes the process for generating API keys

The API Key is generated during the tenant onboarding process or whenever a customer requests access to the API programmatically. The CBO admin generates the key for the specific tenant or customer upon receiving a request.

Note:
API Key access is restricted to the set of API's identified as being programmatically accessed by a tenant. It cannot be used by any Innovapptive client application (web or mobile). If any application consumes the same API, they should follow the traditional token-based authentication mechanism.

2.1.1. Pre-requisites

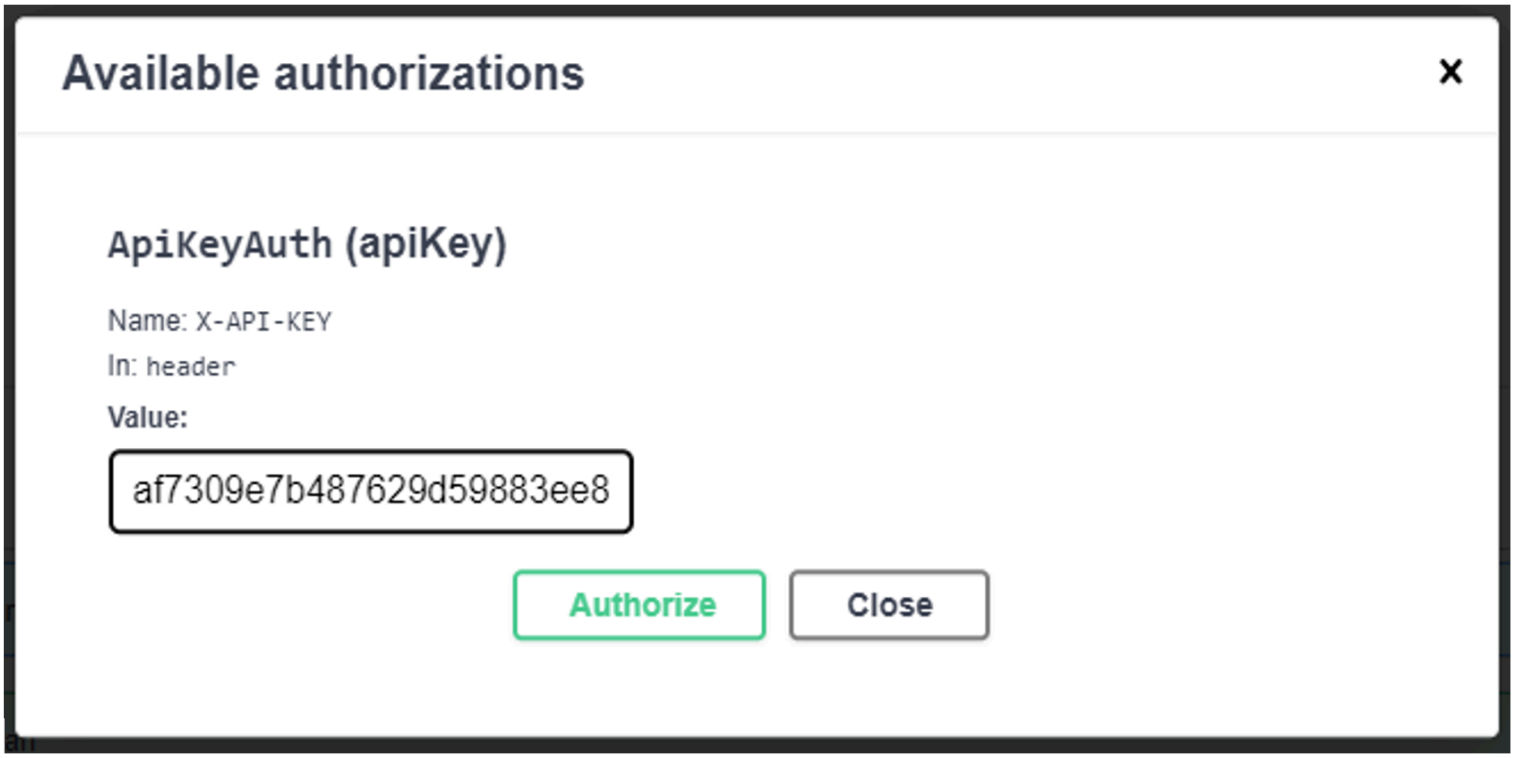
Use the following Request URL:https://cwpuat2.innovapptive.com/operatorroundsapi/external/api-docs/.



Host: Select the host based on the environment:

- **DEV** - cbodev.innovapptive.com
- **QA** - cboqa.innovapptive.com
- **PRD** - cbo.innovapptive.com

Authorize through API Key



2.1.2. Generate API Keys

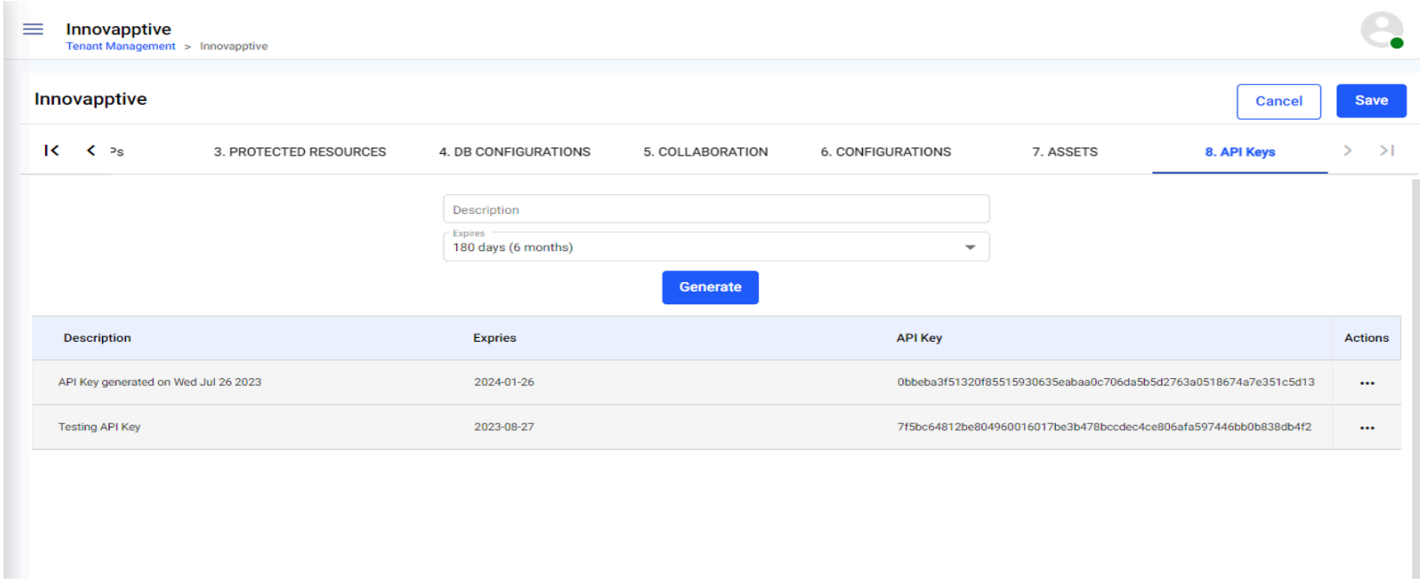
Learn how to generate API keys

To generate the API key:

1. Open the CBO application.
2. Click the **Tenant Management** module.
3. Click the More icon > **Edit** button for the selected tenant.
4. Click the **API Keys** tab.
5. Enter the following details:
    a. **Description**: Enter the relevant description.
    b. **Expires**: Select the API Key expiration duration, such as 30 days, 90 days, 180 days, or 365 days, from the drop-down.

6. Click **Generate**.

   The API Key is generated and ready to be shared with the customer.



> **Note:**
> To delete the API Key, click the More icon > **Delete** for the selected key.

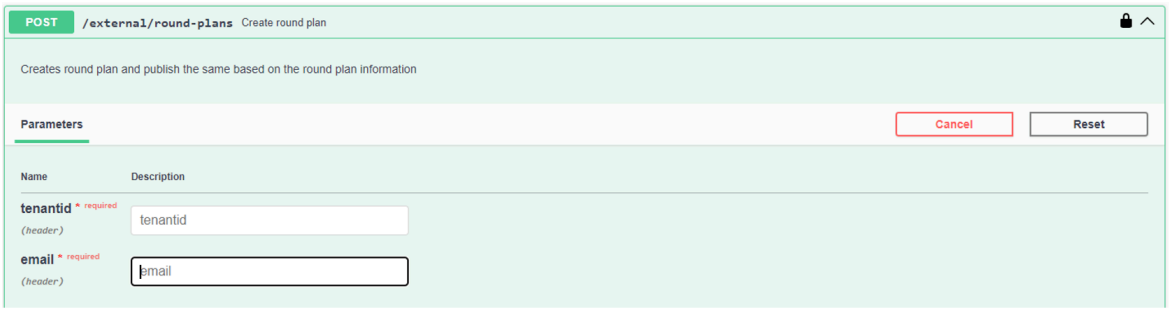
2.2. Creating Rounds using APIs

Learn how to create rounds using APIs

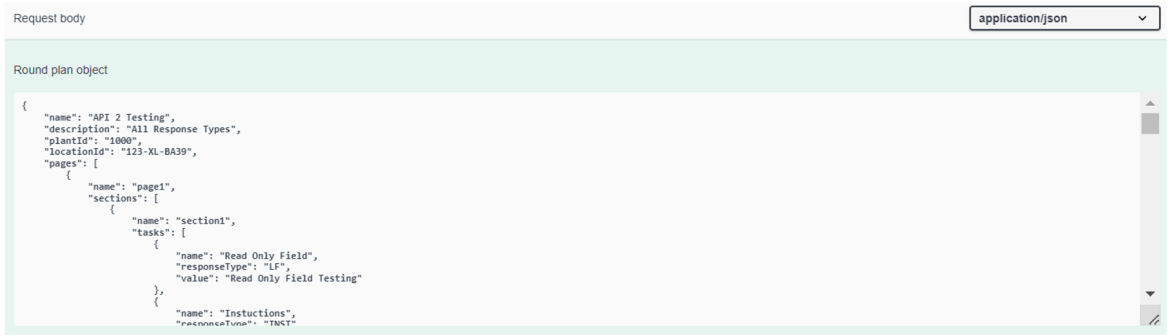
To create round through an API:

1. Expand the Post method with `round-plans`.
2. Click **Try it out**.
3. Provide the following request parameters:

Field Name	Description
tenantid*	Enter the Tenant ID created by Tenant Management.
email*	Enter any email address that is already onboarded in the tenant.



4. In the **Request Body** section, enter the request parameter values (JSON).



> **Note:**
> Please refer to the Request body JSON for Round Plan Creation Payload Formation *(on page 30)* section for more information.

2.2.1. Request body JSON for Round Plan Creation Payload Formation

Header Information Payload

- The Header Details contain the name of the Round Plan, and the Plant ID.
- Enter the LocationID & AssetID for respective locations and assets.
- Provide the name of the Page & Sections inside the page and create tasks.

```
{
 "name": "Daily Round Plan",
 "plantId": "1000",
 "locationId": "123-XL-BA39",
 "pages": [
     {
```

```
          "name": "page1",
          "sections": [
              {
                  "name": "section1",
                  "tasks ": [
               }
       }
 }
```

Response Type Configuration Payload

Read Only

- The "name" field must contain the name of the task.
- The response type must be given as “LF”.
- The “value” field must contain the default value the user wants to see in the application.

```
    {
         "name": "Read Only Field",
         "responseType": "LF",
         "value": "Default Value"
     }
```

Instruction Response Type

- The "name" field must contain the name of the task.
- The response type must be given as “INST”.
- The “value” field must contain the default value of the instructions the user wants to see in the application.

```
   {
     "name": "Instructions",
     "responseType": "INST",
     "value": {}}
    }
```

Short Text Answer

- The "name" field must contain the name of the task.
- The response type must be given as “TF”.
- If a Short Text Answer is required, then the “required” field should be either True or False.
- For True the name should be “Short Text Answer Required”.

```
{
                    "name": "Short Text Answer",
                    "responseType": "TF",
                    "value": "",
                    "required": false
                },
                {
                    "name": "Short Text Answer Required",
                    "responseType": "TF",
                    "value": "",
                    "required": true
                },

 }
```

Long Text Answer

- The "name" field must contain the name of the task.
- The response type must be given as “LTV”.
- If a Long Text Answer is required, then the “required” field should be either True or False.
- For True the name should be “Long Text Answer Required”.

```
    {
            "name": "Long Text Answer",
            "responseType": "LTV",
            "value": "",
            "required": false
            },
            {
            "name": "Long Text Answer Required",
```

```
                "responseType": "LTV",
                "value": "",
                "required": true
        },
```

Number Response Type

- The "name" field must contain the name of the task.
- The Number Response Type has the following Configuration Options:
    1. Number without UOM & range
    2. Number without range
    3. Number Testing with None
- The response type field for all the configurations is the same and must be "NF".
- To enable tracking of History, the enableHistory field inside value must be true.
- To add Unit Of Measurement, the UnitOfMeasurement field must be followed by the UOM ID inside the value.
- To set up range, define the min and max values along with messages that must be displayed for values that are beyond the range. These Messages are categorized as Warning, Alert, Note & None.
    - You can enter the respective value inside the value field, for example `"rangeMetadata": {"min": 0, "max": 10, "minMsg": "Test message", "maxMsg": "", "minAction": "Warning", "maxAction": "None"`

```
    "name": "Number without UOM & range",
                    "responseType": "NF",
                    "required": true,
                    "value": { "enableHistory": false}
                },
                {
                    "name": "Number without range",
                    "responseType": "NF",
                    "required": true,
    "value": { "enableHistory": false, "unitOfMeasurementId": "f0deec55-2401-41ab-b88d-37f8ced36e09"}
                },
                {
                    "name": "Number Testing with None",
                    "responseType": "NF",
                    "required": true,
```

```
          "value": { "enableHistory": false, "unitOfMeasurementId": "f0deec55-2401-41ab-b88d-37f8ced36e09",
"rangeMetadata": {"min": 0, "max": 10, "minMsg": "", "maxMsg": "", "minAction": "None", "maxAction": "None"}}
                        },
                        {
                            "name": "Number Testing with None",
                            "responseType": "NF",
                            "required": true,
          "value": { "enableHistory": false, "unitOfMeasurementId": "f0deec55-2401-41ab-b88d-37f8ced36e09",
"rangeMetadata": {"min": 0, "max": 10, "minMsg": "Test message", "maxMsg": "", "minAction": "Warning", "maxAction":
"None"}}
                        },
```

Global Picklist Single Selection

- The "name" field must contain the name of the task.
- The Response type must be given as DD.
- The "value" must contain Response Set ID.
    - This fetches the necessary Picklist from the master data.

```
       {
               "name": "Picklist Testing",
               "responseType": "DD",
               "required": true,
               "value": {"responseSetId" : "31c52245-c756-4bc8-ad02-0ee3c952fecc" }
        },
```

Global Picklist Multiple Selection

- The "name" field must contain the name of the task.
- The Response type must be given as DDM.
- The "value" must contain Response Set ID.
    - This will fetch the necessary Multiple Select Choice from the master data.

```
      {
                        "name": "Multiple Select Choice answers Testing",
                        "responseType": "DDM",
                        "required": true,
                        "value": {"responseSetId" : "31c52245-c756-4bc8-ad02-0ee3c952fecc" }
       },
```

Scanner

- The "name" field must contain the name of the task.
- The Response type must be given as SF.

```
{
                    "name": "Scan Testing",
                    "responseType": "SF",
                    "required": true,
                    "value": ""
 },
```

Date & Time

- The "name" field must contain the name of the task.
- The Response type must be given as DT.
- The user can choose the combination of True and False in "value" to show either date or time or both.

```
{
                    "name": "Date & Time Testing",
                    "responseType": "DT",
                    "required": true,
                    "value": {"date": false, "time": true}
}
```

Hyperlink

- The "name" field must contain the name of the task.
- The Response type must be given as HL.
- Enter the link under the "value" field.

```
{
                    "name": "Hyperlink Testing",
                    "responseType": "HL",
                    "value": {"link": "https://google.com"}
},
```

Check box

- The "name" field must contain the name of the task.
- The Response type must be given as CB.

```
{
                    "name": "Checkbox Testing",
                    "responseType": "CB",
                    "required": false,
                    "value": ""
},
```

Signature

- The "name" field must contain the name of the task.
- The Response type must be given as SGF.

```
{
                    "name": "Signature Testing",
                    "responseType": "SGF",
                    "required": false,
                    "value": ""
}
```

Photo Response

- The "name" field must contain the name of the task.
- The Response type must be given as ATT.

```
{
                    "name": "Photo Testing",
                    "responseType": "ATT",
                    "required": false,
                    "value": ""
},
```

Geo Location Response

- The "name" field must contain the name of the task.
- The Response type must be given as GAL.

```
{
                    "name": "Geo Location Testing",
                    "responseType": "GAL",
                    "required": false,
                    "value": ""
 },
```

Date Range

- The "name" field must contain the name of the task.
- The Response type must be given as DRF.

```
 {
                    "name": "Date range Testing",
                    "responseType": "DFR",
                    "required": false,
                    "value": ""
 }
```

Multiple Choice

- The "name" field must contain the name of the task.
- The Response type must be given as VI.

```
{
                    "name": "Multiple Choice Answers Testing",
                    "responseType": "VI",
                    "required": false,
                    "value": "yes,no"
},
```

Slider

- The "name" field must contain the name of the task.
- The Response type must be given as RT.
- The value field must contain the Minimum & the Maximum Value along with the Increment.

```
      {
                    "name": "Slider Testing",
                    "responseType": "RT",
                    "required": false,
                    "value": {"min": 10, "max": 100, "enableHistory": true, "value": 20, "increment":
      }
```

Below is an example of a complete round plan with Round Name, Plant, Location, Pages Sections & Tasks.

```
{
  "name": "Daily Round Plan",
  "description": "All Response Types",
  "plantId": "1000",
  "locationId": "123-XL-BA39",
  "pages": [
      {
          "name": "page1",
          "sections": [
              {
                  "name": "section1",
                  "tasks": [
                      {
                          "name": "Read Only Field",
                          "responseType": "LF",
                          "value": "Read Only Field Testing"
                      },
                      {
                          "name": "Instructions",
                          "responseType": "INST",
                          "value": {}
                      },
                      {
                          "name": "Instructions with tag",
                          "responseType": "INST",
                          "value": { "tag": "Caution"}
                      },
                      {
```

```
                            "name": "Short Text Answer",
                            "responseType": "TF",
                            "value": "",
                            "required": false
                        },
                        {
                            "name": "Short Text Answer Required",
                            "responseType": "TF",
                            "value": "",
                            "required": true
                        },
                        {
                            "name": "Long Text Answer",
                            "responseType": "LTV",
                            "value": "",
                            "required": false
                        },
                        {
                            "name": "Long Text Answer Required",
                            "responseType": "LTV",
                            "value": "",
                            "required": true
                        },
                        {
                            "name": "Number without UOM & range",
                            "responseType": "NF",
                            "required": true,
                            "value": { "enableHistory": false}
                        },
                        {
                            "name": "Number without range",
                            "responseType": "NF",
                            "required": true,
                            "value": { "enableHistory": false, "unitOfMeasurementId":
"db5aaa7d-d13f-4e83-a3f1-e108c3f16e3f"}
                        },
                        {
```

```
                            "name": "Number Testing with None",
                            "responseType": "NF",
                            "required": true,
                            "value": { "enableHistory": false, "unitOfMeasurementId":
"db5aaa7d-d13f-4e83-a3f1-e108c3f16e3f", "rangeMetadata": {"min": 0, "max": 10, "minMsg": "", "maxMsg": "",
"minAction": "None", "maxAction": "None"}}
                        },
                        {
                            "name": "Number Testing with None",
                            "responseType": "NF",
                            "required": true,
                            "value": { "enableHistory": false, "unitOfMeasurementId":
"db5aaa7d-d13f-4e83-a3f1-e108c3f16e3f", "rangeMetadata": {"min": 0, "max": 10, "minMsg": "Test message", "maxMsg": "",
"minAction": "Warning", "maxAction": "None"}}
                        },
                        {
                            "name": "Picklist Testing",
                            "responseType": "DD",
                            "required": true,
                            "value": {"responseSetId" : "f87a12bc-aab2-4199-9bc4-4c09cec549e9" }
                        },
                        {
                            "name": "Multiple Select Choice answers Testing",
                            "responseType": "DDM",
                            "required": true,
                            "value": {"responseSetId" : "f87a12bc-aab2-4199-9bc4-4c09cec549e9" }
                        },
                        {
                            "name": "Scan Testing",
                            "responseType": "SF",
                            "required": true,
                            "value": ""
                        },
                        {
                            "name": "Date & Time Testing",
                            "responseType": "DT",
                            "required": true,
```

```
                        "value": {"date": false, "time": true}
                    }
                ]
            },
            {
                "name": "section2",
                "tasks": [
                    {
                        "name": "Date & Time Testing",
                        "responseType": "DT",
                        "required": true,
                        "value": {"date": false, "time": false}
                    },
                    {
                        "name": "Hyperlink Testing",
                        "responseType": "HL",
                        "value": {"link": "https://google.com"}
                    },
                    {
                        "name": "Checkbox Testing",
                        "responseType": "CB",
                        "required": false,
                        "value": ""
                    },
                    {
                        "name": "Signature Testing",
                        "responseType": "SGF",
                        "required": false,
                        "value": ""
                    },
                    {
                        "name": "Photo Testing",
                        "responseType": "ATT",
                        "required": false,
                        "value": ""
                    },
                    {
```

```
                        "name": "Geo Location Testing",
                        "responseType": "GAL",
                        "required": false,
                        "value": ""
                    },
                    {
                        "name": "Date range Testing",
                        "responseType": "DFR",
                        "required": false,
                        "value": ""
                    }
                ]
            }
        ]
    },
    {
        "name": "page2",
        "sections": [
            {
                "name": "section1",
                "tasks": [
                    {
                        "name": "Multiple Choice Answers Testing",
                        "responseType": "VI",
                        "required": false,
                        "value": "yes,no"
                    },
                    {
                        "name": "Slider Testing",
                        "responseType": "RT",
                        "required": false,
                        "value": {"min": 10, "max": 100, "enableHistory": true , "value": 20, "increment": 10}
                    }
                ]
            },
            {
                "name": "section2",
```

```
                "tasks": [
                    {
                        "name": "Multiple Choice Answers Testing",
                        "responseType": "VI",
                        "required": false,
                        "value": "yes,no"
                    },
                    {
                        "name": "Multiple Choice Answers Testing",
                        "responseType": "VI",
                        "required": false,
                        "value": "yes,no,test"
                    }
                ]
            }
        ]
    }
  ]
}
```

2.3. Dynamically Generate and Partially Execute a Round

A round plan is a blueprint that outlines the structure and steps of a round. You must first create a round plan and then generate a round from the round plan.

Create and publish a round plan with tasks.

To create a round plan:

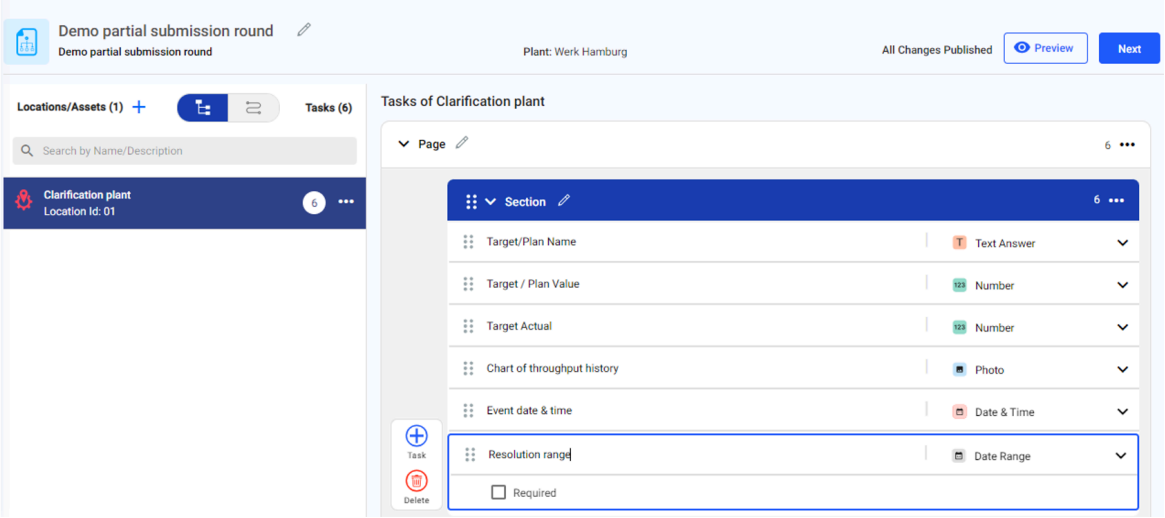
1. Open the **Operator Rounds** module.
2. Click **Create New**.
3. In the **Plan Details** screen, enter **Plan Name**, **Plan Description**, **Plant**, and **Tags**.
4. Click **Save & Next**.
5. Select **Location** and **Assets**.
6. Add required tasks for the round.

> **Note:**
> This Dynamic Rounds Generation using APIs process supports only five Response Types. They are Text Answer, Number, Date Range, Date & Time, and Photo.

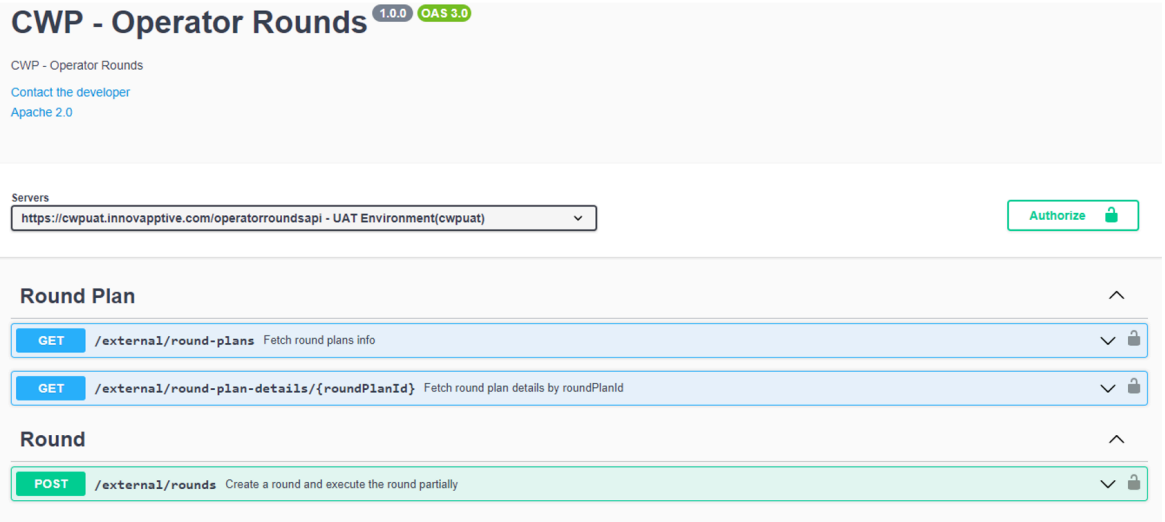
7. Click **Next** and **Publish**.

The interested customer requires an API Key along with the Tenant ID to be able to dynamically generate and partially execute a round. When the Innovapptive security module receives an API request from the customer, the key is evaluated, a secure connection is established between the applications, and the customer gains access to the API and can expect the desired API response.

In a worst-case scenario, if the API receives a bad request or the API_Key fails to validate, it returns a response with the HTTP bad request status code.



To programmatically generate and partially execute a round, see, How to get Round Plans List *(on page 45)*, How to get Round Plan Details *(on page 47)*, and Dynamically Generate and Partially Execute a Round *(on page 43)*.

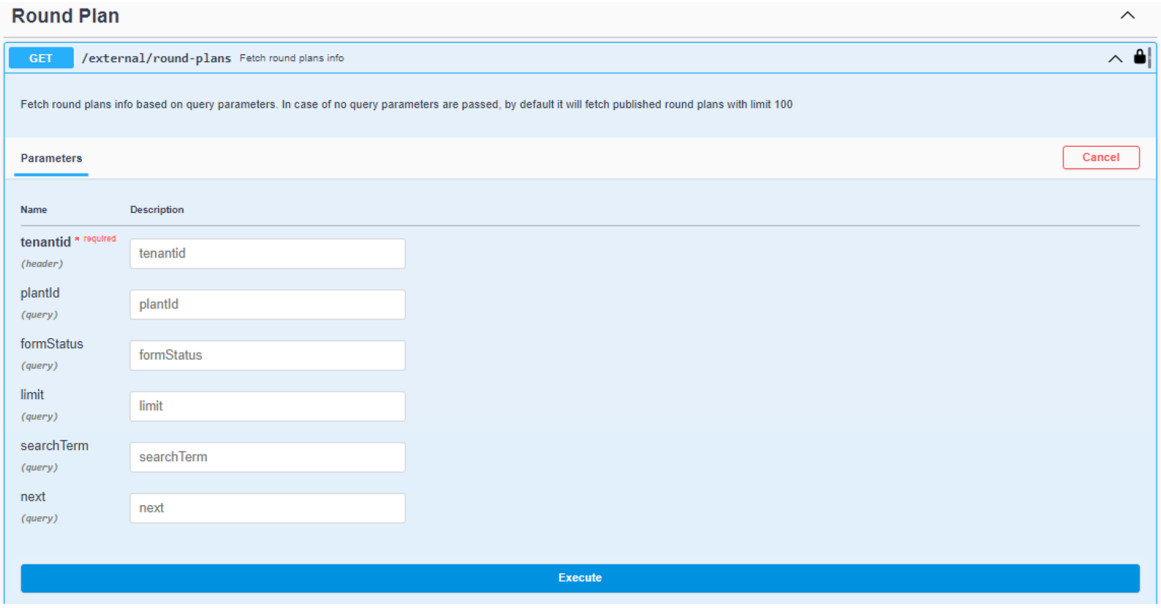


2.3.1. How to get Round Plans List

The Get Round Plans List API service allows you to fetch the round plans list based on query parameters. If no query parameters are passed, by default, it fetches the published round plans list with a limit of 100.

To get the round plans list:

1. Expand the Get method with `round-plans`.
2. Click **Try it out**.



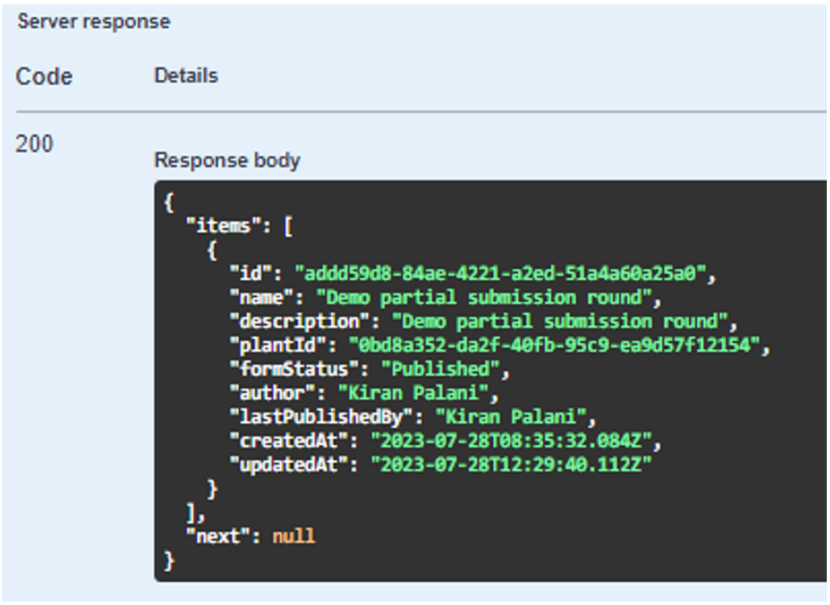
3. Provide the following request parameters:

Field Name	Description
tenantid*	Enter the Tenant ID created by Tenant Management.
plantid	Enter Plant ID to filter the response based on plant id.
formStatus	Enter status to filter the response based on form status, such as Draft or Published.
limit	Enter the limit to display a specific number of records. If no value is entered, 100 records are displayed by default.
searchTerm	Enter a search term to filter the response by a particular term. For example, Demo partial submission round.

Field Name	Description
next	Enter the next value to display the next set of records. For example, if there are 100 records, the limit is set to 25, and if you want to get the next set of 25 records, you can provide the next value as 25.

4. Click **Execute**.

   The following response is displayed.

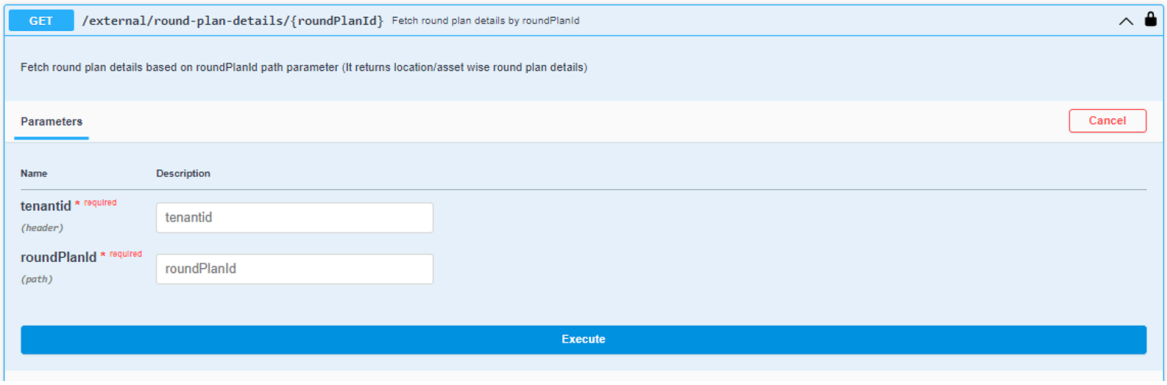


2.3.2. How to get Round Plan Details

The Get Round Plan Details API service allows you to fetch specific round plan details with tasks based on the `roundPlanId` path parameter. It returns location or asset wise round plan details.

To get the specific round plan details:

1. Click **Authorize**.
2. In the **Available Authorizations** pop-up, enter the API Key value and click **Authorize**.
3. Click **Close**.
4. Expand the Get method with `roundPlanId`.
5. Click **Try it out**.



6. Provide the following request parameters:

Field Name	Description
tenantid*	Enter the Tenant ID created by Tenant Management.
roundPlanId	Enter the Plan ID to display the specific round plan details. You can copy the ID value from the above response.

7. Click **Execute**.

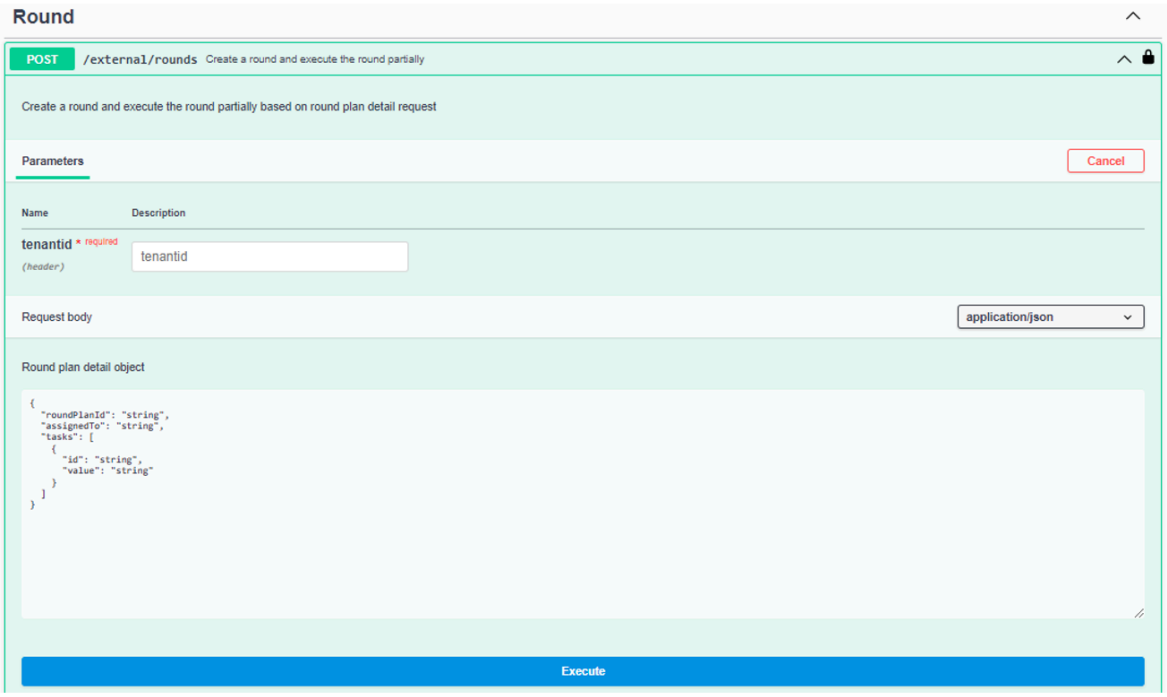
   The following response is displayed.

2.3.3. How to create a Round and Partially execute It

The Post Round Plan API service allows you to create a round and execute it partially based on the round plan details request.

To create and execute a round partially:

1. Click **Authorize**.
2. In the **Available Authorizations** pop-up, enter the API Key value and click **Authorize**.
3. Click **Close**.
4. Expand the Post method with `rounds`.
5. Click **Try it out**.



6. Provide the following request parameters:

Field Name	Description
tenantid*	Enter the Tenant ID created by Tenant Management.

7. In the **Request Body** section, edit the code by adding pre-filled values as required.

Note:
This Dynamic Rounds Generation using APIs process supports only five Response Types. They are Text Answer, Number, Date Range, Date & Time, and Photo. The format of the pre-filled response must be base 64 for images, ISO string for Date & Time, and Date Range response types.

For example,


```
{
  "roundPlanId": "addd59d8-84ae-4221-a2ed-51a4a60a25a0",
  "assignedTo": "abc@iinovapptive.com",
  "tasks": [
    {
      "id": "Q1",
      "value": "Tom Curran"
    },
    {
      "id": "Q2",
      "value": "209.09"
    },
    {
      "id": "Q3",
      "value": "2023-07-31T08:11:31.526Z"
    },
    {
      "id": "Q4",
      "value": "2023-07-31T08:11:31.526Z"
    },
    {
      "id": "Q5",
      "value": "2023-07-31T08:44:24.526Z;2023-07-30T08:44:24.526Z"
    },
    {
      "id": "Q6",
"value":
 "UklGRv6kBABXRUJQVlA4IPKkBACwgBWdASrKCNwFPkkkjkUioiEqpdK6qVAJCWNuKQh/+988q1p8CnkK8Dx6prJ6z+sg2ln8POO4y0n27gZJ7
7J/QsZ3/T1z/ZP9rzKua/2D/n/5Pyr/qP/H42vn/+7
```

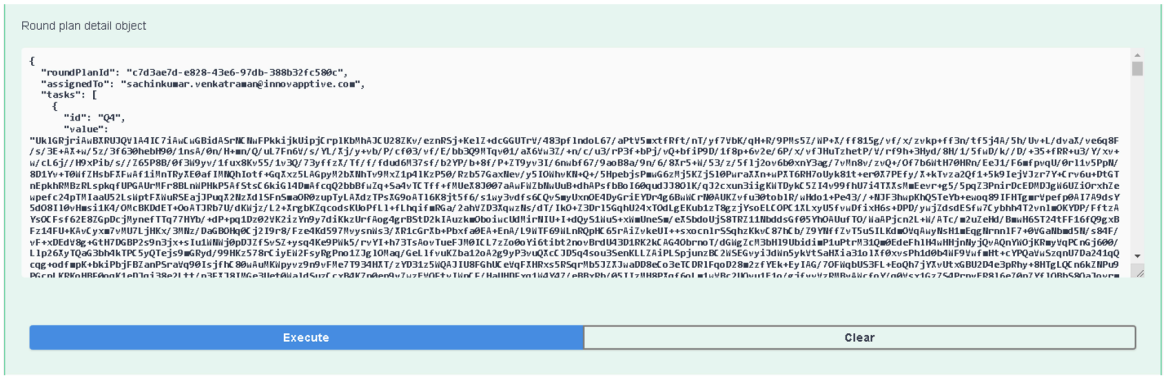
vuFfy/+q/77/E/lB87P+L3pm3f7T/Af/a/8n/6f9T6W/J1/4/qhf4X1Hf9P0Jv1X/gfuD8Bn6zenj/b/c300/tn/I/bX3K/1P/N/+//U9rjwP
0p/fYKlxfZ/+X/Y/vB/p/eu5D71/mH4P/Rf9n/K/u19s/9r/8eKPt3/V/br1bOov/N/nv9d+53ym/7H/x/3n+++M/8s/2f/
w/1/7//737Gf1u/7X+K/1Xwn/9H7kfC794PVz+4v7f/8f4TP/P+7///+T39O/7X7m/9/5Pv6b/xf///1v/V8e/rW/+31af+/6K//q/eb/7/Mh
+5H7pf934Pf8//+v9r/wdcA+Sf9/zV/Nv7n9tfI38293j3o/z376/Ndnz7nP/X9s/Zj+h/q/
/D/nPZf9+X++9CfzT++9C/8u/rv/M/w3swTifEnL32X+av00P3/259zf1z/m+xP/UOSp/pf
+f2JP9J/vvVf/3//36efsD9ufdK/xROkMFe5lo2gs7bNwM97pbcWmJN/TtUi0b0hSm2m4Beb9ZNSnLhqqIlsvgxpXX/kr6Eofiqgnej0N8qWh2w
AHvI6zH3kvpzMzge/
ifarRFqB3pk23svtTPZAU6CVvzlPmTqCxslZiob1Pf5mDL55R0cb/pORjy7Gpt66wsJM60QdrMb6Tn/LvSKuNI6UvbkOnadGZwUsIOLK1eR1f1
1S/f2beC0HMaulWEel0oN84lPDVL7Q/9UYgVwEYPT1TgFDP+5qYrbKSh3A0Y1h7s6bdP22gmEQRXTEOgrBJzVMeJ/
0KyqanRKRuXsy/kiqvSoWXk2J3TDAr9C/Os2MkNLpsYLe95Q5OQuPxv6ENJJ+9FJ2f3NO8uumxEwNs4kcF5F8PwKSpvBgAj2a/4TfMQ+ggIZ2Zk
bAUGnxUocCgJ/b9UP1DOPBQxRaTwmr2OR86NtfXrDxPmL2vL4aOrnA49Ip3iXO/ndXkSQuoakY5KsBYd9R3DFwKMFy5h7JDYLd+
lmI21+A4pZcgrXPEfQLZ4sQorwlo+xsI/xQY
+7KwVhwfBW3foC4GEDACxLEysdcDQs7wSw/AM91HOgwUOnsjk63VBXgJ7kkHnl6Yr+UMTe3DRGf5rA77N47ocoJdabVuQnrXsWHv5TOsTNV0uIu
YXMXnk1FIMcaaBGMY64Qw1a2IApuAS2ff3cuF6sq0PH5bKaTiheIOs5ihkooATgVPI8gTtm2r7TX+hpvJqvZbX7HWngIQ1NBD30sTLsGs/YHuU6
RbT0Fclxu6qtfeZuENNymcB6kGSMY5Gmmo5vbTnFe7f4IpLYGtgrHxBb/Gw08LVKf+cYshCpAZnCEfC3bmrYcuHWAsmFIvFCtR20bY2uvbNnSrl
jMTjXJytAhVTmVGXHNTQ3e/Fdif5kQkohjImVmeAOsjh0TK5ZnwVWPskhHHDuHjJ6Rl69FMKZWh89vJeAml9YZXN0SRW38Ls02KuQUq+HY6mHAl
zBO10OspstaLcGMUMpMtuzJZjDjSNXz4/Pd77LwcFA32P4vjJVTJoUpR83LmEMaeGGhv7TkgpRBRi7y/1m0K79TKl1+lZ0U4H8LYYAZ/Rj0W5Hr
awxRJZsNZQpA8Fe0yPVwBEZo3zBTJ5UeQ15Biu3Pg8MRNXI5qKPq2DUE9G33iMKRGmW5oG/HDN
+iIMmbhs5C3B9HAOhxjqLlTXH+h1+htXOOxzesp4htwaDDYKP+LToDekuc7vY4URlMjiCeOPZIOPSHE4U8rTVSOdSUC5UaNjXhUuaQnEHnKrhD
3xj+c6IJbRefXSH2vC66pmaiO/5a5gXaIWbXXOCP+zOLaOwNee8OB8qtM7hhngmChVWlNzDZPJ7R1O4clSCg47c5cPc0VVsPcwYbplcnQRH7y2h
UbGAiEtAOLIKpWnrNKiz28soe2uvd+KsFRhJI8Lw/jLMAoS04zF0/kBaEDCP7Fjy9YYzT5O1V41rGhnt6kcqW2uTLhvmEluxvEHl/3AcmTYFtut
Bdssn6N2NLwRF8BQV3lKHdKFOwNf6Awq4C62jicHK2kiPeLycONb3Osjf4A4fv9LD9UtfKnxR/UHslVydidMCLp/a0pRQHQseki4mdHL/+eumIP
MZ6/lOQZOP5oqROXoQjPzEjdo4NR3BkpfmpohLDxZxGR1tfWGkOe+FJx8HngIoqZA5ifuseg0r54oPkIx9ZUxmAS/uLAIs8WW4MNsFGCHc70i
MpF+DHM1TSYVppJt45KADZWRqJyZKWELFwXoPGybHmPG5Wjg7h0CRGVUU3uL1nQIzdREhEs2aWlQJWa5fTmg1r6JHLEiyBxKcJL5vcNalJqVEml
rtXOPBn6Wj6DxRsORhAhvOLWt53OXD3kdjDqJ2dmxTxfLQVDPLd33JbzQie/RuMmchgFE/2LItJHMupVThtAO/xQKZExHZyE6NofKzo0NaQXktK
499m4A+nPcyNoZWe6rAfI/NQQ88RzN9Fc0B7L08GDlbYvb01hYZCffiTctERhB5e6cgpCT9Yak+xTh0QoX4occ/H7j7gy9PUncFmdowGPiiK8Zh
yq61U7UvTJ78GCZ6JSmySamNQaA+kZwUQ7G1EHlVRccsS6ZViEcKXJpTPQyrvmhdgyWq/cKteAfvdFvywSLe2D/mgo5JXifVJUJcScI7QCc+bDZ
8OgGgaCz6ln/hMIBKsnxNWjQHtgutmxsd/m9vqVzEKh6sGspJUlgwE9RVBUgFZMSllXVK/KzNbanxnwvvfkBh+K22io2ZI1SJwMSLpOGmMua7Bc
TQI2JqfAxfC/2K/pCDc/HGBWuEq+la2FppHfjzfSIIGF1Ffm6q4pOuf7mb7iuoDaL7qu4rVFd7l+oP71lWrpNa1ZguPOU/dNNqKuD/lKsyWf18e
hDa1XdyyZ6Yizh+Nt8gGO+n5nRoP8WHJ2NBOQN97t8z5i/J6dL/Y/+zQxJdogSZS/chvti15o+Dlyxvd4B338cji3afxlaquOY3qgbzHGeSg/m2
5Ss3Mle9DmXfRrWZPZqs5OOkeaFX6aji4WrQzAQaHCECzQhkEpyVwhyKwO9XhqhGH+JP5TWZEuF9yfHM0FHoXP9nSX6sF2PFZ+3KiIoER7Bbr
rE/xDubfj0yLAP7M+XoqrEeU5C+30GLtr9fGy6t293l4KdnXV3WnoLf2wLuTOsaGkSMekFhLJAh9Ec3l1AHBaiU/b1YPQiXPTKZLqRpc9MiYNml
yQ8tIjUJHEF9TWQB6kxHYxbdkGB4O9ONfB24G1KWIlMnKsXsvUd2/GojPcpkNK8R2U7nbpEiJ18FSdDIXzc4VeCHj4hI/Elyxq7zoePw80v3QNr
doyO9TA/6//
BmRi8Tls0ghnJ2drwFhFQ22xSd2QOg0Hr7L/WzAtd3nRr7a3pHgHcr+7b/KeXrs8+6w/gUElO/FEr0Zts9+Y20mLKS4xqXaez598Q91N9IotXfE
JNIOMn5RgbSDP3iu0AFaT4JJCG1u03enO9t4mFj9E49Sp0ai+
+ajowV4GWGja7QcuCJTFJObN6JEZ3QdhG3MF9zR89br73ZyrlacFjDV6jqt2P831mvueDohmHDrEQJOilOUdknYwpf2rjqXKdEtGSHcINqYQP/w

```
8zr9MaiLYWcKEsvkrVz9Ly5qUV6pbsT/al7zFSltw/CbvFbsKRT3PlXH/kat3mHYLaglVExfokp1SAB1PMpJ3kWbWIRxcK4hqrbGaT3yIfByuns
dxYpbn71FKiqE6Wnnj5q9R/GNtUIf712T7og/yJuSNQEavXmT389vURvwGPak5W9llEBPItE1XEL1MXfY4iekE9Jw5lpXd3Se2pk82pKx1sQWKM
7MA9A9LcqzWj/WIpolad+jcTPqcz5N0NHOhTsLPUOWK9OE1DWguhXPPaSViNkA1qDTLtq+EPDW7WX2jjDD6GmPdB0BR3PzddMvuhKNpFd5HKMlG
TX2uHVDezJzrCda1yJSff8/Q/oubjW2JXY2A96VeMTUNoUof/vwbKoio+TCPtberb0qU0KeVQE00VA1fiRZ40956VtR24VXC5vF+DbdBetdh2b1
WP6gQajYMFmCdNOboRt+gHvsAUTmovsEV7q/ZvB879n+gcLlNH6SwVu2vq1cVkywPPFDtl3KgCMIO5G42ojejmUTSBQTiwT91Aultc1NfOWGwH5
dq5YnXq+6yL0yxv48+1Tw8JWOjSMwrKkaygfjADMqo5YtbqXp2dgGKhRsiDFdW1lR3duVM6RO3Z4N+E65Z+whJEA0dLvwO6Cb64xP+E84kjsZLg
not/R5Rcx56+DX8tbYK2xs1Rh/0gCAoBeKLocVn9qtnj5Gat7rbI2uY8IsjAHQyK+fnftisOTfCfvMR1Z7+Pn8Ll6vmvmw6Tn9EZqeg9AQLSNTp
aWl3mbKlsVvCtoNaz63tEVm731q4Iyda4I7arPLVjj3nyO/U4BPk9SaaVmjWaXnEyi9EUBxAR+IZProAwfGeOVEv/amh
+4G3i8Lnd8gtOQlUORLBd1Gm3eIMut/Q1RMvBvNyUn1BGihZ+g5enCAQ0N36yF7wc2nlJgYL7CD+kaVyZtjyOhwl18xh9pyv6aowymjOxntOVo2
wUOGDm+oRtud8nYRDFcbMKLwiaT4uVvvN2PQ/X8jGT4WqMWGo0+2TTNt21ck/hO
+UBLIsTC8XQ6e+5Rae1a1rzzMVscb41EaJroN+KdwwbORA9FIyJhKMk6neVPOMRw3xa4WMXnfz7DiVs7kL81+uzUu4miXxNOc7U5kpES11V/gZ5
cVIwUXpOHi6ZkcDyJag6e3lEFfNS4KFEKmKOJ3iQhLuV5oNnRhU4qoyAQYaoddE3iTkBT8b+pNtt8PXXfJnpysQiX/15d53uvFAJ2rF2o99k
lG//
Pvis2i+JdRno1RCXdQFs5YZs4g9ReDa62pZGtSGaPjXYlx3xvXvmnPmf1gfL+vWKeFtGt5yLjBW5iO+IXQI/3RzNPtCun/lnQwQqZXs96gc0cTi
eHvUyfCMtHT1NeilhxsuP8DHDh0Ib0gmYbbM13fYgFtizeR3JIdhI6tAO4OLKHJGR0qJ4wjNq5bnagxXXkFPzv1DRSiob78HDmoM/zKB
+4VFj+j6Qf7Uzr2bAPxFE2+4Vt0uX9bwhFuv0St182xRSy0KbT5TvGPuJVCJFW829Xe/CTtyhCmHwo+v6YsEKlAH0OcRcu2ZEVGHQDMlozw+ua1
GI23sCZihIIWIOTihSn5iwdC6HErr42T6/6JnwH6xDSwRr8DIS/9l4i2f3OeXeCmS3mojFol3cLQTZEiuWbstbGD6SqGt9W/D3zD4EoY5SXZbr2
TFU2wLlYkWPbE0Q8iXU+IrWuPK+d8iAJsou0N0/k//9+FWBSPoUanTLMRaVOBsnGajeeeqa5TjkyJMJH1y1xA2H/fZkfs2LG5o8prXkOEBht
qO/pxli4BnGKHc+G6Wbou1wjXqs/OTe7ImV54Cf7CurPL5GigmkuW18FNnmkr3NOHIvEv6f9YPOigyr3xNQ2J0EaILKkFYEubDzw7PReVn47DB+
X8odcCesWkXuP5F+j1xa+agEKiNzXrS8b5ebxHeov42ZEEpnx/DR8LcEwPAtZRSaLedrHggWdTeJYaqY1wxxFMweKkdXH9dhjNzS/fv8EahxLiq
bhoqC3RosfS9t1foSI7T46ibVW57BKxNfdOJdj38wEiOPwd6j0CU7PNNGvCvavzw1mY9SgOhZ8xH4jzcs7Hg7zZ620/3BPeHXJJ3e4KZoaLy5fp
kfT4YCMfQA+ex5WrUs7AznyRpmxUb5zs9qPXL2NJdN8n+Je2LwD5TsHD2zTYT20S/XsFshVz3KAIabS+Z4IARSu0OXbza34azrhDskP+FirYyIw
ps5rlepWx6ySD5CXxRIdIdqoYWqdgbGfEwOjkQ7pOFbmdkb8kHHT6RapAvZtgHFh+qDdLy81YBpOmfAaDnqQRUMrUx3RESDDoShJkvGT1nV1zlb
Lq5lMoMMEnoXdeDBULPKCwbny8sIveBeCiSmnR2gliBV0HUw8T15MJF6uBYO1LSP7sRMWUToQeHyTfFyD7456CDCSSJW0VeyYa3ElGok8x76KEF
E0ce9wzIfmY+PF3j+1LfCtplwK9YeBqeMITl6vp84a+XmIUiAS1ulLgywBp9yuB42G61TormLqbwEZAFgE5xS/bEeiGGo0lBBgvEUZXu4TN+XPy
1HtDb1EtT6KCRgDnDT8tvEB7qQ3DhMJQyq4TORbinzLnpvT3/i4u6JUcvAfmex1JtxoYBV7o0JXIRt6dnJl7PYC0nQDiUNQoqYHmAdGetKoXUIz
BQeLwk1nacxFQ4TD+LkJmNDli/OcxNYws4xGAcowIj1DZ/Povt7ov29k6/wQuuQpSxCmdXoAIiMyg6ZS7Ps0CB1TmSc/28+g3/lzquQhX7b6uHz
rwUVzgoWypWptGaKK+Hw9fCXEew8KN6ZGck2cIHWNCiGWdJedI5bPhmxIXd7e3XmLSh8LG9DZLpjmpXwH2lwOJDIrqQ5/p1Pmq0VJxO4uqjtTsl
zRqpKZkhgBgdwv2EK8rsmyQgnvKwjH05hy0/R/Ke/42zVjEkVpVpjE79WmpwCqv4+FHlRWlVPs7arRS6hDgbBxUL0HuAVbWQPaHkATVEnTvM24k
NMJ1e/yemrAI30XtUq9djmO96cufZrDdHWY4bjq7yEGyDSzmlEnYIxgiV2vg93ZEpqCBy3wssKZdbGuT/ZzLCglC+jsqItZ/Nplsnn60xGYgoLc
LZeL1Hu53JGASRcl7Sjg4hvUYNSXI9SiuYd8/p6lEsyMxrhr6+CSX+UzcfAD/RRJPbtM97xAbvuwsCQkHYBsKV+NI4kMVMHFi/431HpSFDGA+4P
xGlKqH3CGqiVA+TIhIx73HVKAXXE9OoPeQAsstUJjN2xkGCnDyMbyTM1a9qnkBtcZCO/NygERbz7zisqAMHkiCz+pSbDgnrhPGCmob5ZJtkH1xR
Pr/LpdKwHB/dVvAQ5cF9aAJsZ6zCMqQ97JafYCtruSGHNdRxF9CTaXLZ8yWr8VS/29luIjpYbhXAoXhwOGYbjhK43HQSW8EKVjxnI0NU8s5e7k+
ybBgjid6UHUn50TBO9ErN93dnPjjipqsXDsmpTK+5UFMcfIcRHIZirtKZnkjVW3Ie13DB7AOHH1lsSxDG8JP3tbs6LbCwuGV0tZC5n+BTcJoNNn
8mGwfAODQka31lrBB44+D7H6UR+GCcSVudcwBg7e0tIO7ZQeB5QxcsemBgV4eK2U5naN2O48pK6p7eoVw9KTTaY+HkfS0u3Jis0HHbAZfq9qV0w
uN61hD5n5+qKpZzS3fH5VFng2JTOQwRkWfcmAZ/Uup07io7nTvKxz8rJIz2BMCRPZEvdyLlxrh28o6US9Pj7X0yaXwcvu+G14Xsrsd+TPBme6w+
cEU2WdAIOwLZ3FwBGRilQ+St1GC9Y+NnmUYPGV3gfhdjEr3Yq2zej4y/MhcoYPvKJgq5Gr9a2LnSod6Y2N6SIufVSfBBhzysH8bikfAQRKuIB
```

```
3V/2PYkidcEFWsit9ccLUl18hfWk8J3EznLKetOzLVuVxER+kvP7FBo0vDCJoLqrZZUrKePqhNLIFW1dvoZS1EQH8cZgjNqrvdOnmDBIKKkhd5
1Fv+sSmfxM9Jw+vrXwkj8aSVErPlsWude//9TvSzTx447Dnx/pdVWeu5VvR5+nf3hpP0GQBDiudwEKWt4F5XWvU82oGxij476jfzpqiI+iJ2
Fc/coouhlQfzO6NnbyCxb4DXrBT68IOc/01qMFEPMsyHcpZqlkN2Ezq3iyXSqbzvEFZ9yNe76AW/iHOTYGN0FiQPQ3NLK48ioJfiCr+UCwvzgcE
Qx0egu6A9eeudIxCxme5PLRNtPgj2M6TiWSEY9+isBSM1S3ZA016o2pDToR8bCDGHcCCHvtQalW5bTXGms2GxjMtrZlTDFcQ4448YjVc5Cm4/L2
GtJQ4YVuAtfxQ1VNERsP4f9aZOV5/tPtPyvr30b0+KBhO3mpx/N50+hTsBBgXylNCADQ/QKoP0i3eRSu6ZppS/eZ8vvVDdtlE4j2DoWu7dqx/Kp
g7XM9YmdvKW9sQduQQtJGetLXfbV2ChqqZaiCmx4zDjZDEq0hXQ31Y3ntrVG2VyrLx+CDn0zCgmLsmyWC7Zq1+EWjILTV7JKFf8ytuTpOlES4Ed
L1UKVeRdmbiJGkwMxZeQjNeXgrORdNdgJUUFoLU5ciITOD/WeJ5+Jvct/qkn/FJ4KuNWAzBDvwe95okzsfliov965CZ5yTPwMw7Hzy3bFWvZ/+Q
TLafIF0BxI1qRWPhiQvCWFU+kAB9CY4fjt1jvG8eUxb5bxO9ixcLO/qwB7GJ/KVjBH7fAyrufGtp+D4WtF+y2Igw3UyWFxk0EvxhcVTEJ9fiBIS
OHccOxhSEs5G0NEEQ4kSNKa2mnksRbYOMA1UKzaCQ9EAwiOC5txafNG9ghWHyKAfe5I+Iyo8UQxuTslG2uaHIioaEtysHOaY3W3m3ENm2KfVhoP
PW0AHfuIVb6+gw9lxJJssak/mxY6g/ArKWF/3cv+UYG1xUUcbqnmEDVX7qKTMlDDt5wVgLKNSumcvJuvPrmtN2hv+Sh
+YQKsNiKeAqnhb+bMbUaqzEuOnrg4NKiNd81PFs0fXzAuNAXlD+HyP7TDVwZ9zXm9Y4HrDUQAxDUtaeWE+0r3c0G/uv2bl0ZVuV3sByuqQkDI6l
gDBT/l5F3jr+/dji6twoaEfpe6UmDnVzEQnczXD8QtRJ+dcd2DVv+Is5SLIaixkn0zpgoeIUwu/pVog/z2MfK9DUgC14/1eu1GiKNWP0mb5uHKU
Mq6vq3wIHYlj3dkKgHm+bl6sN1PiGa4ARteMS+8jLBpoAhFVb5eRNs4igRHAjuQ2b1g4sqWYIhVJicRoe9nUtHSo+FUU7DVikFTz5dj07cigVyK
htUHvQcuifiey97sZhPUfsg9O5Cbj6Blr3q96KhiKKMRgX3L7k5H5VOGDHtj2BDg1ihAtWAH0Wv+/uHqzWvuEHL0Xn+
+CddHUmFTWH+l/GaewCwbJWHGYp6wirB3i+8C4e3YCnz/yW34zatESWKgwiObEK4i/eUSA7r5KLcR4qthO7N+uqCupI2wfZ6naZ0ICsz+krLBDP
iDiOtW78jFNye6l6S22ryW1rjoBw6FiOxAYKnWrepoNZLDpgGJLmZMZVPNuzCgMmxxo50cuucAY1fQ4C11tOp8FlJYWw0gwnDj433Zpk1+I/gDe
K8XBCmWjSP/AexVvGJMCsyI9RvT7ruUzPb7nnYTXf9UVEXZ8vmjIFlj2OhSbaDOlE2CF0O0Ih4LUhDTgKdip+Y0gme3usX9RDQyoIHh53HETNDZ
jFyHUJAXB7UqfT2b7QtC2IlCUR7VB7j/6hzqz4qqHwhVtJyT4Vkb4YG0cnHLIt9Hveao4PIVJ4QWaBfrFyLrOBPgJDYFOVm58SZVT7s4nDddmqJ
JaUvgwJEgP0gNuQBrzj2tKwc5f19Niip9XYO8Cyf75x7kXvpt+kVq7zxJLf36P5SdPuKrRXyjX2b8oWEbfswl4X2d1H2XgumwEpPHZYsX/LVha9
Zd93Y2/wcg7XX4tMBtyDyxkmvq1wzwMoPCV1CkiCpFEAjJpVohYpEDN1o27Zfw8qpxvyr9edUDauRa3vj3n62RqHSO1ZQsk6XPBifWiLsNE7X+m
ZHw8RAEwpBQVPnV3VtnAglq6rO3SkD4NUbP5HGalIiLbuEZLauXj29luP2+mnJIXleo0o3+lqh3H+M3TWLPSBGWsIPY0T4fJHXt1q4aSrM3Yqez
N8TczLx4pHWR/V44fTR21LKbNt4hbbfZUhkbupJiHvqzD+Bv/DkpXyu70D5kLPpjPtbWIOo+utxhAdc+4WJvPPlRQLK4Ndq2IC0AFSgV61mY4+u
FnQsukG6ehFWuQtbN46mohaeRUqAyc0ujBW8/qGsQaidXF8oW3jjAfxDsp54mKXPddMFIgMDHroEvH9AsnVvwdm5f7vfKA/tyQ9zB1fde+4lLOg
KZol5v4IGH1x+FhEMAJz905/TGaWt0iELJdMJ521hsHAmWUUh5i9JpbpRSO+fLyT+gCl0CDyedEYQfDyYwCK9A5DOj+HSqwd3VJsq2ZUhFFEZTf
oVDhMmfnKR7D0P4CijPpR+dDsVQ+A9dX2vHMtNdlvApIn5y1zKM81BAb/NJA/h1ZHOdv0nJvkjTnrnG52rpw+pjhGgEN1PtXpltMhbjQZjKHcev
76c0bD0UjXrMbpYdJajaK2NV4j+Ow3nOIGZtfrBIe/XTdw+WLiYQVuCWgU9eshLiEtCe6aj/W8NxXogSTzZ8K+JsRvOCsK23CrWskrqDPIhs1Dh
yFrNrv2Serx5QvUFe5qFOysYEEvUqLFExYxEoo3w3An/LKkpnf7RJCs93ym9vGrKxojycpYIN/BPh7AF5U24kGgh5G/MyjrFG5Q3MswgnQp63a6
fHjtC3TQiQSpPdyaIMN3FzSsWIY87SZB3p8M5g+QKv5OGHOGLxSZWYCDVWh/CoDLIBz4o1R0bDMscW2J2o7bQwzsBE+wFfvIAEREydTDgZFNsEm
lNPMpWSg29Zj2DP74qOO3GKqVo/LBwYHolEU89kzJPh5Lj3hbSwJwla8A2+nSGflwxeo7Az1DUI8fudFCeay7R7i0Wusr4Webcc1USewfGVjx1G
7SG6YQ+iVW3LZclmuNf6iVVBS2Uxo7h2MVuC1G+lvjN9rM5dzQJ2y4fUgXGUrvfRcBaxvx0sH1eCI1lkPyfrenaS+fRfquahP6/g5J0dcAGM+T7
siHu+zESj3BGbX9c5qOhP719TV2KvAOvJ8f2sIvVX/mYZE2Ki/zFklRZROvIMFFirOCR2sUrxFGBYlaV3iCMHSglKvbKeeaGpVI/InfxbNLer3K
ppf2vkIOyiHBtgeh+rGnidXEI/Ld5m0hx2dEibWabp7FssQdqGEdGnFbRCaeLpMEzvgKM5mK88sfgXbGUOyU98ZVt0FfopfUZMjURemAqnawFU0
x8cCxw5oOz7OaQddTNqiuxJWUk8GolG1JV8s5l2dg1qh5W8Z82aGqM1GNvRepyLvdqgHSw0mxx8suA55TQPsznTYhv4p7+m6xiPY/GYduopP/pR
P9osHGIh5U3hm5oJIXd83cE0LGkiDxIuo7LqJstvTymTnxRN1dTjEVA8aKhSd1X6rSUW0Uqn9lr2TA155g+hF0p4uWPbuMFMVaAN/syzsxzf6j9
c5g9a4lyBEKN1XBhzDxSRk46w3XN/8I2T5crAfT2jsWtrDHA8iRJFQOt9GV7SUpSbdn5qyDhW4lsTiq+hNZqyMShQ4nBv3h3mqAPfKsnhwKT9rL
ZkAvEcVFh5t5Y2zORACzKZDdagZyW7CF99ZR2GCLkXnheHVAyfcYo/VOu814jKCWgU18PAW1OaT0RpJ7JUzK0oVZKTDk6LAAoGoOUsvitarm
EIk+JSo2ukXFoqBfbW8aXeG+JKyLYJOTN4NzjmYvM52VgNXP9eh+2f8M58u4OgggO+MFcENpZy8gE3+ufu8nv7AlI467k6XYNgJwJSIGpoaCkvf
```

```
a5MszWAzvXChg5CLKUhc9SVP7eFHzu/tl4oWWR+0mS7dhepnye1NNtufiGOXSIvIAlUxHMktO2qPi6WA8iFBjlPax5h+8O7WW+UPcc2e7shq

4g/C8WX1D5jlrSDkQTLAGdb3441LKSLacgmww/D86jYbM0fZLTifDHcwZL3WHFDVYLbUVLUsPnwV5+2b6GyWKUrGVV5UhCmlyGtFEXqYYps5v

9YW+HuhaDOUr93brEomDxyzIvvIH1+TXcLEDSUOlCggEtN3OzltmYqMbyrWJV0YRUV5ojEX0O28AKoikSlL+Es

+2yx9QaWWgftOMuFJWJNXV9ls4o7+B4lGv6R7HMwQHxlkxIeKMZ41tCbA9NDiW0qZYtDV1l6dDs5SoqF9yegdcVeYTmRyCmStFXrLn5VevtzfLG

cEJvWrG//qzPg0LLRca0oReAsgzYua1xhZWvjSzI3oNbyeKB6bqchvhoXIbuI9st6iQrW8grJwcTgXrNzhuKsRAmtOWtxKk9amjMw+2pnMnK1A+

+wRwUyCklgy7Q6OL+BmMNcUbBglPZOTCiIY8zZn9dn3t+fBuqJ6/WOjrJ2FRDeBO9+eTQqUPFTIe2c5ASSLSfMxv5IkpqbOCk8bQWxxWt/ouzG/

33kboEcTZ+oiCD1GdJkr/yisLQt3jeZGEpIBXZC9Q+kIo6YpQrKVpQsfsDEyLiquTyddhlfRteNfOu1gN+36xwhPj0AirLXAq3oeZXzEvoFJ0k9

G1gvvw3vNO/yC4VrXeiX9nUarUarD0a7SSkGOIvM1quP6T9uvcPZaNpVBq5JrCC5TeI8Fbpk3shXe+AQfnvJcwxLNpLnstZWdVM0bOJiW7W8jhI

mAYBhnk98pLPVBfJj9CeuQYgnQQn/otWL3Z6zPf+iaw6D0KIBy3BubydpofwwrOKQ3tK5WgvmiJlcRAp2HTmsBpCqeZlEvh42sWJEExbIOWjsL3

Kp4jtGp4dfD9K3O+HqgxaY3lVLxQGq6zrA8Q2INWpBN4SKAgXl2dke9TcM0V6QoUozgGGWSvHI1xlYYmPfizcne7zAlgq4o5IL..."

    },


 ]

}
```

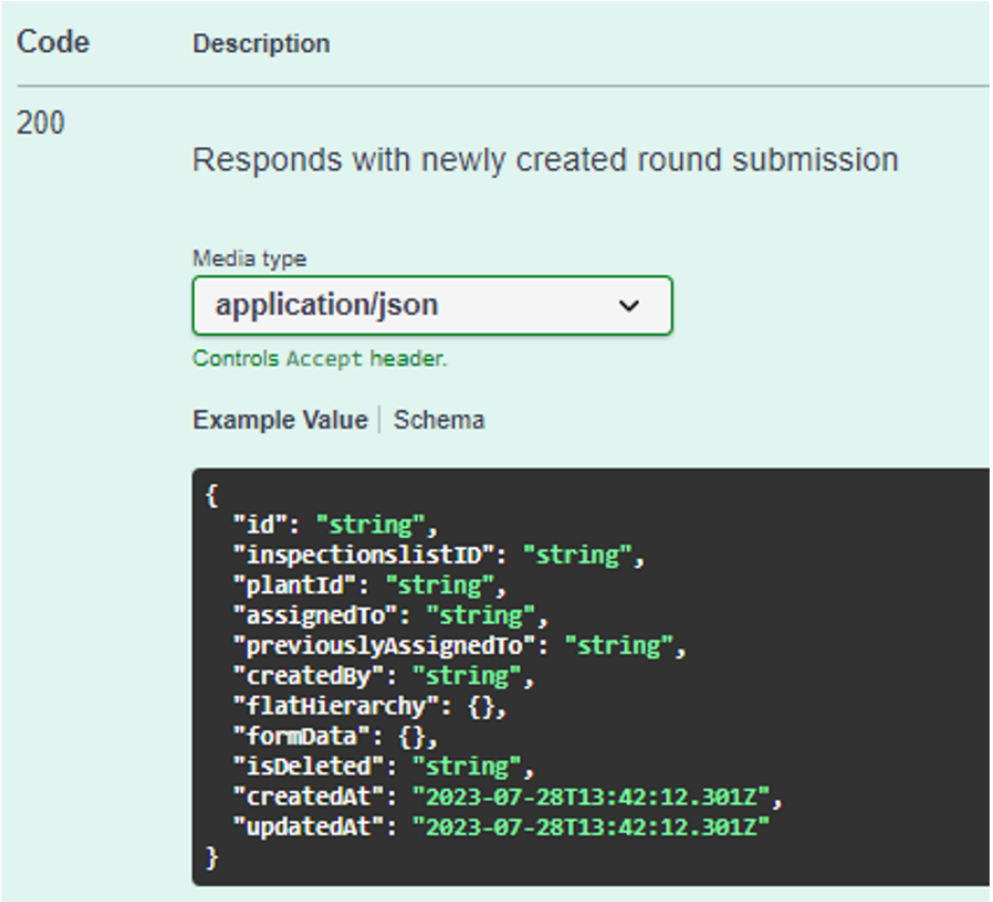

Add the base 64 string (id: Q6) for the image response type.



> **Note:**
> If you provide the email ID of the person who needs to work on the round in the Assign to field, then the round is assigned to the user and automatically appears in the My Rounds screen of the user with the In-progress state in the user's mobile application.

8. Click **Execute**.

   The following response is displayed.



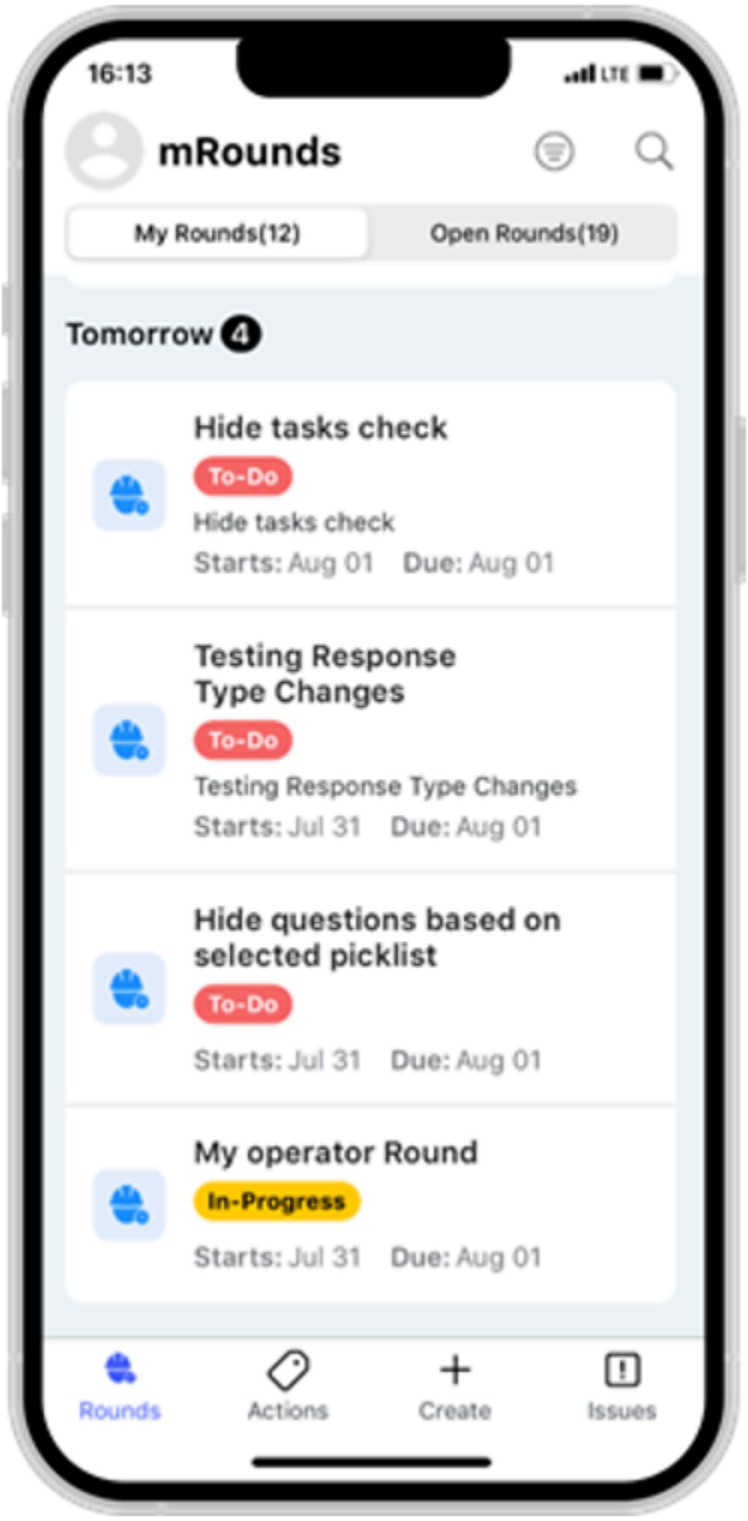
2.3.4. How to view the Updated Details in the mRounds Mobile App

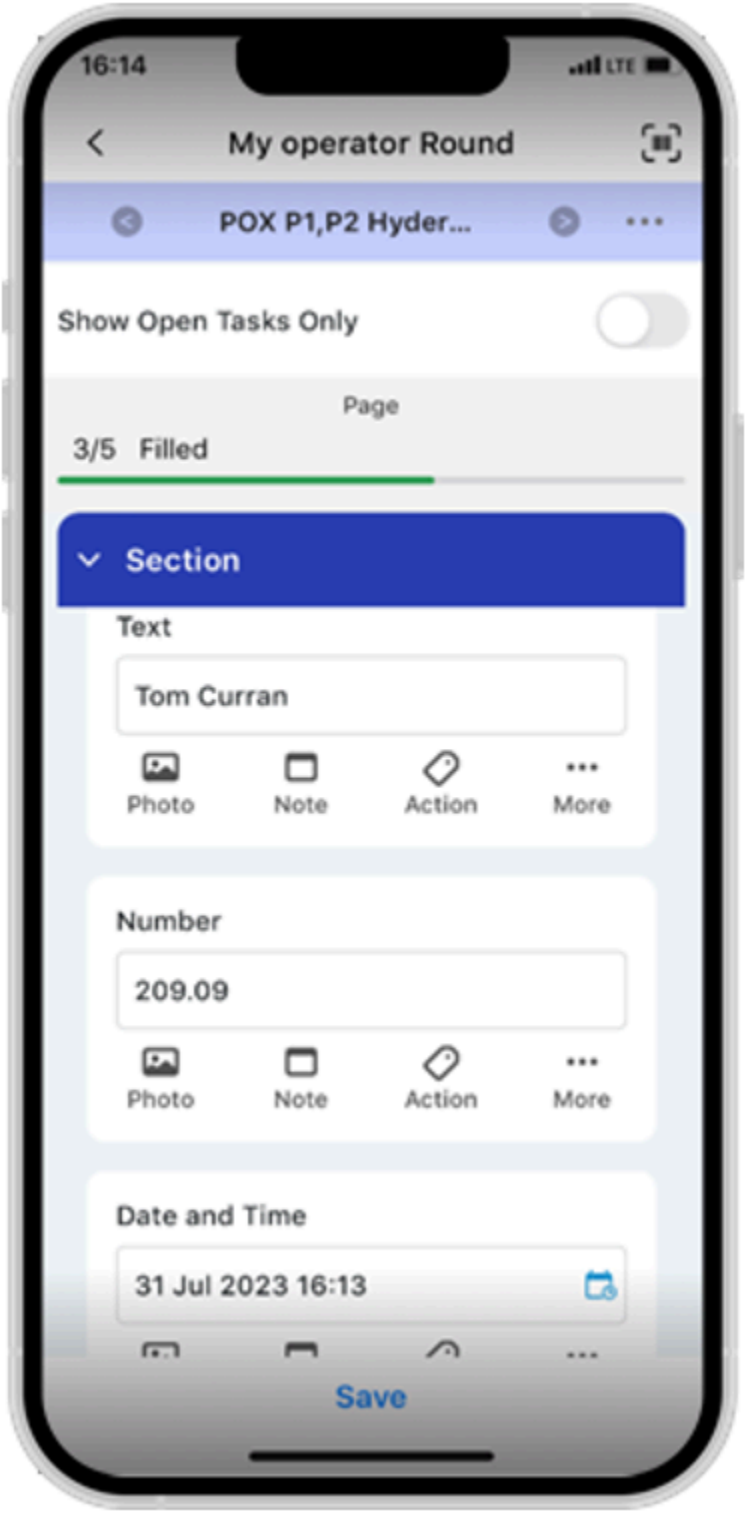
You can view all the pre-filled responses on the mobile application.

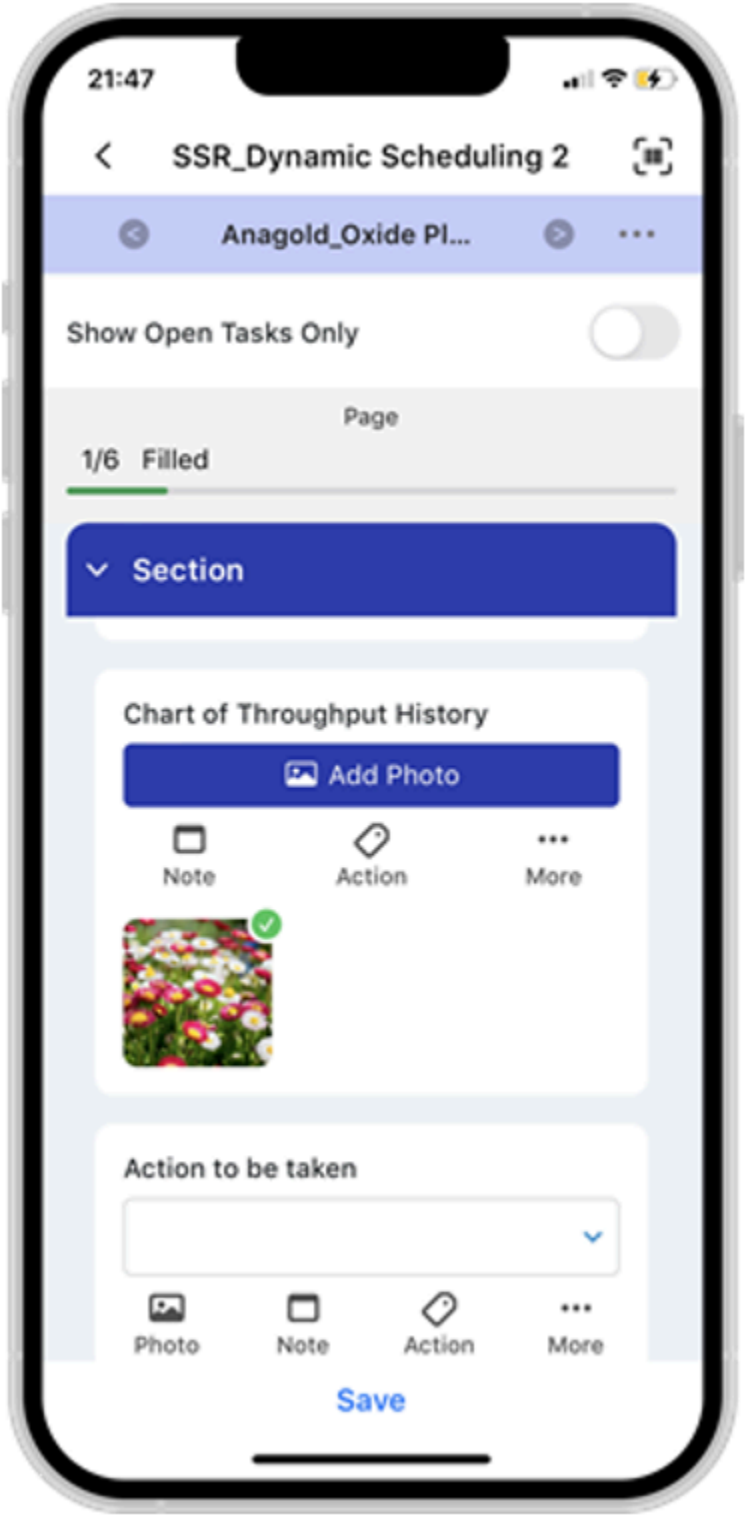
To view partially executed round details:

1. Open the mRounds mobile application.
2. Tap the **Open Rounds** tab.

> **Note:**
> If you provide the email ID of the person who needs to work on the round in the Assign to field, then the round is assigned to the user and automatically appears in the **My Rounds** screen of the user with the **In-progress** state in the user's mobile application.


16:13
LTE
mRounds
My Rounds(12)
Open Rounds(19)
Tomorrow 4
Hide tasks check
To-Do
Hide tasks check
Starts: Aug 01 Due: Aug 01
Testing Response Type Changes
To-Do
Testing Response Type Changes
Starts: Jul 31 Due: Aug 01
Hide questions based on selected picklist
To-Do
Starts: Jul 31 Due: Aug 01
My operator Round
In-Progress
Starts: Jul 31 Due: Aug 01
Rounds
Actions
Create
Issues


16:14
My operator Round
POX P1,P2 Hyder...
Show Open Tasks Only
Page
3/5 Filled
Section
Text
Tom Curran
Photo
Note
Action
More
Number
209.09
Photo
Note
Action
More
Date and Time
31 Jul 2023 16:13
Save



3. Select the round, which is in Partially Open status, and tap **Add to My Rounds**.
4. Tap the **My Rounds** tab and select the assigned round to open it.

You can see that some fields or tasks are pre-filled with data. The image, which was given as base64 string is displayed as shown below.

2.4. Understanding Error Codes

Following are the possible error codes:

Error Code/Status	Message	Scenario
200	NA	When the successful response received
401	Request header (x-api-key) is missing	When the authorized API Key is not provided
401	Invalid API Key	When the provided key is invalid or incorrect
401	API Key Expired	When the key is expired
401	TenantId Test not found in db or cache	When the tenatid value is not provided
404	Round plant id did not exist	When an incorrect roundPlantID is provided
500	Internal server error	When the server is not responded