

Syniti Solutions psaProjectQA

Installation, Configuration & User Guide

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Overview

psaProjectQA provides each project with extra functionality to assist ADM success. There is an issue tracker for project related issues. There are metrics charts to help management understand the project completion. There is a DOCIT & TrackIt options for clients that require more documentation on every step that is being executed. There are Pre-Load and Post-Load reports that will auto generate for the business to complete the verification. There is an advance copy-wave process to help in the copy and validation of the wave.

Key Features:

- Ability to track internal issues with Source Data or ADM toolset
- Dashboard Metrics to help see the project status
- Ability to document Object Processing steps for auditors
- Pre-Load and Post-Load reporting for data load into Target ERP system
- Advance Copy Wave with easy overrides for the next wave.

Install psaProjectQA

The application can be installed on Syniti Solutions DSP versions 7.0.6 and above

Download the Application & License

The psaProjectQA application and/or license are obtained by opening a support ticket at support.syniti.com.

Perform the following steps to retrieve the necessary information for a license request:

1. On the DSP application server, locate the Hardware Identifier program (called "**HardwareIdentifier.exe**") included in a zip file along with the DSP installation software and documentation previously downloaded from Syniti.
2. Open the program.
3. Click **Generate**.
4. Copy the automatically generated ID and collect the following additional information. All information below pertains to the application server running DSP; no information is needed regarding the database server:
 - a. Hardware ID (as mentioned above)
 - b. Windows computer name
 - c. Number of processor cores (as shown in the Task Manager CPU tab)

- d. Usage of the DSP instance, as in, DEV, TEST (or QA) or PROD
5. Syniti Licensing will deliver the license file via the support ticket.

Install the License

Perform the following steps to install the license:

1. Log in to the DSP site as an Administrator.
2. Select **Admin > Configuration > Product Licenses** in the Navigation pane.
3. Click the Upload a file icon in the **FILE NAME** column next to the Upload a New Product License link.
4. Locate the license file that was provided by Syniti Licensing.
5. Click **Open**.
6. Verify the license is uploaded.
 - a. **NOTE:** If the Navigation pane does not display all the licensed components as expected, use the browser refresh button or the F5 key to refresh the screen. At this point the full vertical menu will appear.

Install the Application

Perform the following steps to install the application:

- 1) Right click on **psaProjectQA.zip** and go to **Properties**. Ensure to unblock the file if it is blocked.
- 2) Unzip the file
- 3) Navigate to the DSP Installation folder (e.g. D:\BOA\DSP or C:\Program Files (x86)\BOA\DSP)
- 4) Back up the DSP Install\BOA\DSP folder to a compressed zip file
- 5) Back up all Syniti-supplied SQL Server databases or verify that a complete recent backup already exists
 - a) Supplied databases: AutoGen, cMap, cMap_Data, cMass, cMass_Data, Console, CranPort, CranSoft, DataConstructionServer, DataDialysis, DataGarage, DBMoto_Client, DGE, DGE_Data, dgReports, dgSAP, dspAddOn, DSPCommon, dspMonitor_AccPak, dspMonitorConfig, DSW, IGC, Integrate, IntegrateStaging, InterfaceServer, MC, & RADToolkit
- 6) Stop IIS

This process disconnects all active DSP users, so it is highly recommended to perform the install when no users are on the system. This process stops IIS on the web server.

 - a) Open Windows *Start* Menu.
 - b) Open the **Command Prompt** (run as an administrator).

- c) Type: **IISReset -stop**.
 - d) Press the **Enter** key.
 - e) Leave the Command Prompt window open for later use.
- 7) Stop all services that start with “Cransoft Service ...”
- This process stops all DSP background jobs, so it is highly recommended to perform the install when no scheduled operations are running on the system.
- a) Open Windows *Start* Menu.
 - b) Select **Administrative Tools**.
 - c) Run **Services**.
 - d) Right-click the DSP service.
 - e) Select **Stop**.
 - f) Repeat the previous two steps for any additional DSP services.
- 8) Copy the **Web** folder from the zip file to your existing DSP install\Web folder. If prompted, replace the files in the destination.
- 9) Copy the **Databases** folder from the zip file to your existing DSP install\Databases folder. If prompted, replace the files in the destination.
- 10) If a Previous Version installed, Navigate to DSP install\Databases and execute file psaProjectQA_UnInstall.bat (run as an administrator)**
- 11) Navigate to DSP install\Databases and execute file **psaProjectQA_Install.bat** (run as an administrator)
- 12) Start all services that start with “Cransoft Service ...”
- a) Open Windows *Start* Menu.
 - b) Select **Administrative Tools**.
 - c) Run **Services**.
 - d) Locate the DSP service(s).
 - e) Right-click the DSP service.
 - f) Select **Start**.
 - g) Repeat the previous two steps for any additional DSP services.
- 13) Start IIS
- a) Open Windows *Start* Menu.
 - b) Open the **Command Prompt** (run as an administrator).
 - c) Type: **IISReset -start**.
 - d) Press the **Enter** key.

If the Navigation pane in DSP doesn't show psaProjectQA, then try these steps:

1. Log in to the DSP site as an Administrator.
2. Select **Admin > Configuration > Product License** in the Navigation pane.
 - a. Ensure that psaProjectQA appears here.
3. Select **Admin > Configuration > Site Menu** in the Navigation pane.
 - a. Ensure that psaProjectQA appears here. If not, then:
 - i. Click **Add**.
 - ii. Enter a priority in the **PRIORITY** field.
 - iii. Enter **psaProjectQA** as the label for the site menu option in the **LABEL** field.
 - iv. Select the **psaProjectQA : psaProjectQA** page from the **LINK TO PAGE ID** list box.
4. Select **Admin > Configuration > Parameters** in the Navigation pane.
 - a. Click **Clear Cache**.
 - b. Reload the browser tab.
5. **Command time out for psaProjectQA datasource at the vertical view of Common > Configuration > Data Source Registry must be set to at least 6000**

If you still can't reach the psaProjectQA application, then review the "Define Security Roles" article in the DSP Online Help to ensure that your DSP user has access to psaProjectQA. The DSP Online Help is accessible from the question mark icon in the top-right corner of all DSP pages. You can also open a ticket at support.syniti.com for assistance.

User Guide

Quick Checklist to Issues

- 1) Click Issues on the Issue page to view open issues
- 2) Click Add to create a new issue
- 3) Click Add on Issue Comment to create a comment
- 4) Add a File to the comment using the Upload and Download Feature
- 5) Issue Summary Dashboard will display the open issues in the Summary Format
- 6) Assigned to Dashboard will display whom is assigned to work the issues
- 7) View Archive Issue is available on the Toolbar of the Issue page
- 8) To make an issue archive, click the Archive Toolbar on the Issue page.
- 9) On the Archive page, issues can be unarchived by clicking on the Toolbar image.

Quick Checklist to Metrics

- 1) Dashboard will start showing data as soon as the service pages starts processing
- 2) **Value Mappings** needs the Wave Metrics to be entered in Console. If DSP 7.4 or higher, Value Mapping Metrics must be entered in Value Mapping Gate under the Configuration Menu.
- 3) **Field Mappings** needs the Wave Process Area Metrics to be entered in Console. If DSP 7.4 or higher, Field Mapping Metrics must be entered in Field Mapping Gate under the Configuration Menu.
- 4) Load Count by Wave will require Load Target Cycle Dates to be populated for the Dashboard to work. DSP 7.4.x or higher will use the Load Cycle settings in the ADM tool.
- 5) User Login counts track usage by day. Users that start background process will often have the counts higher because each background process counts as another login.
- 6) Wave Admin can be used to turn on or off gathering wave information
- 7) Database Admin can be used to turn on or off gathering of database objects.
- 8) Count Data Entry will show exports for Targets that have been activated for tracking.
Developers have 7 days from the export to load the values into the dashboard process.

Quick Checklist to Sightline

- 1) Open Sightline Base page
- 2) Click Add and select a Wave to start the DocIt process
- 3) Click Add on the Process Area & Object & Tier and click Save.
- 4) Click on the Steps Image to begin the documentation process.
- 5) Add all the documentation steps require for this Process Area/Object.
- 6) Click Notes at the Process Area & Object for Global notes on the process
- 7) Click Generate Button to build an HTML files
- 8) Click download to download the documentation for users to view
- 9) Start the Track ID process by clicking TrackIt next to the DocIt button on the Base Page.
- 10) Users can drill into the steps via the detail button
- 11) Users can then click the Trackit button to see the step status
- 12) Migration Steps shows In Process and Completed Steps.
- 13) Click in Process and then start marking steps completed.
- 14) When all the steps have been finished, the status will update to the Object Process Area
- 15) Completed Steps can be RESET to push them back into the queue.
- 16) Status updates are all done manually in this version.

Quick Checklist to Auto Validate

- 1) Open Page Auto Validate Wave/Process Area Objects
- 2) Click Activate Automation on AutoValidate Wave-ProcessArea-Objects page to start building Target Reports for pre & post loads.
- 3) Click on Target to add a Target manually to the process.
- 4) Click the Hammer image (First Toolbar option) to build reports for the Target.
- 5) All Target will have reports generated when building the Target Reports in Auto Gen.
- 6) Click the Easer image (Second Image option) to cancel and remove the reports from the Target
- 7) Reports that do not have the primary key will be marked with an Error Indicator so it is not included in the Target Ready and Business Ready summary.
- 8) A user may deactivate a Target to stop the automation process by clicking the Deactivate Build for manually overrides can be saved.
- 9) A user may activate a Target to start the automation process by clicking the Activate Build.

Quick Checklist to Copy Wave

- 1) Open Page Copy Wave Page
- 2) Add a Wave and let the On-Validate load all the components.
- 3) Add a New Database in SSMS for conversion and register the database in DSPCommon
- 4) Add a New Database in SSMS for report cache and register the database in DSPCommon
- 5) Assign the New Data Source on the Process Area
- 6) Assign the new Report Cache Data Source on the Process Area
- 7) On Targets page, verify the Rules, Reports and Exports to be copied are checked
- 8) On Sources page, choose which sources should be copied and include the mappings
- 9) On the Developers, choose the developers to be copied or the new developer as the replacement
- 10) On the Business Contacts, choose the business contacts to be copied or the new business contact as the replacement
- 11) Assemble Where Clause Database will allow a new database to replace the existing one
- 12) Error Summary will show a list of missing SQL Objects

Issues - Issues - (Under Issues)

Issues will add, update and archive issues for a project.

Issue will store a number of fields about an issue with a log of comments for each person working this issue.

Issue command has the ability to upload and download documentation or screen shots of the issue.

Issues can apply to waves, application or general questions.

Configuration menu will allow users to add to Issue Type, Priority, Process and Status for custom client values.

2 Toolbar Options:

1) View archive issues and comments for that issue.

2) Archive the current issue.

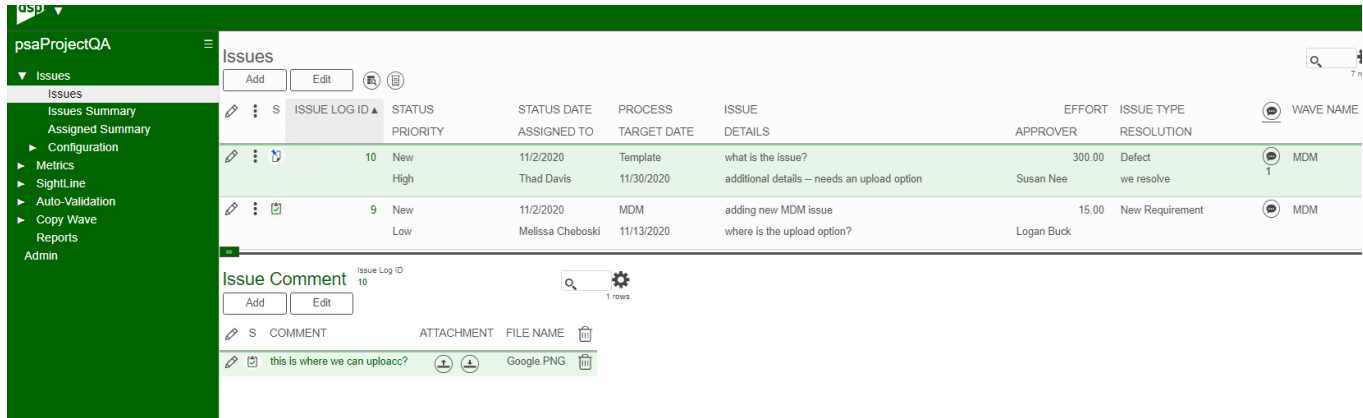


Image Definitions:

| Image | Description of the process |
|-------|---|
| | View all archive issues for searching closed items. |
| | Archive current issue into the archive table. |

Issues - Archive Issue - (Click View Archive on Issue Toolbar)

Page will display all archive issues that were completed from the Issue page.

These issues will not be counted in either of the dashboards because they are not active.

2 Toolbar Options:

- 1) View issues page
- 2) Unarchive the current issue back to the main Issue page.

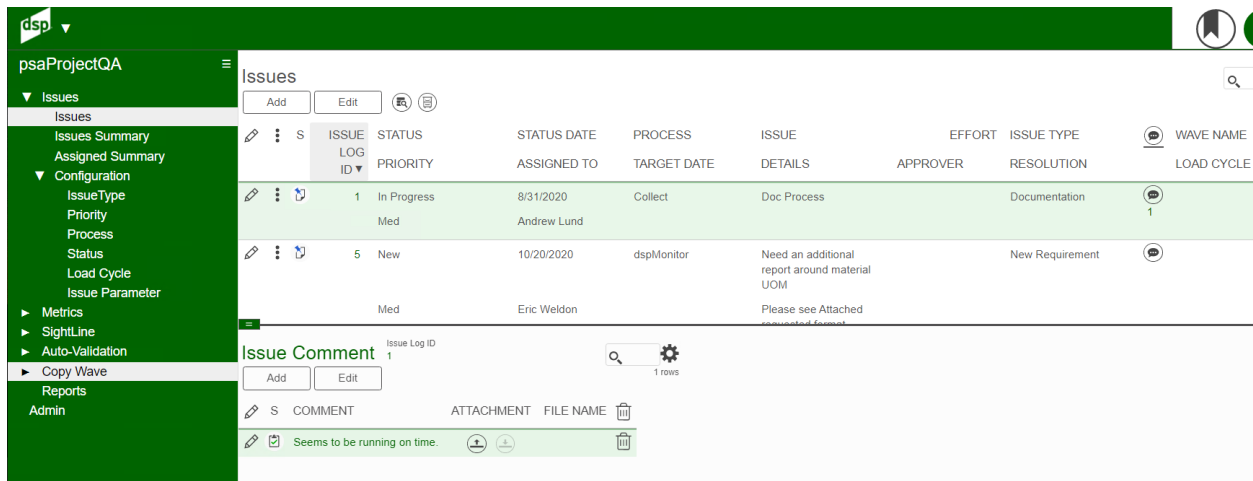


Image Definitions:

| Image | Description of the process |
|-------|---|
| | View all archive issues for searching closed items. |
| | Unarchive current issue into the archive table. |

Issues - Issues Summary - (Under Issues)

Issues Summary Dashboard gives a quick visual overview of the current issues. Click on any color on the dashboard to drill into the Issue page for that selection.

No Updates can be made on this page.



Issues - Assigned Summary - (Under Issues)

Assigned Summary Dashboard gives a quick visual overview of users assigned to issues. Click on any color on the dashboard to drill into the Issue page for that selection.

No Updates can be made on this page.



Issues - Issue Type - (Under Issues Configuration Sub Menu)

These are the standard issue types sent to each client.

Projects are allowed to add or update this list as seen fit.

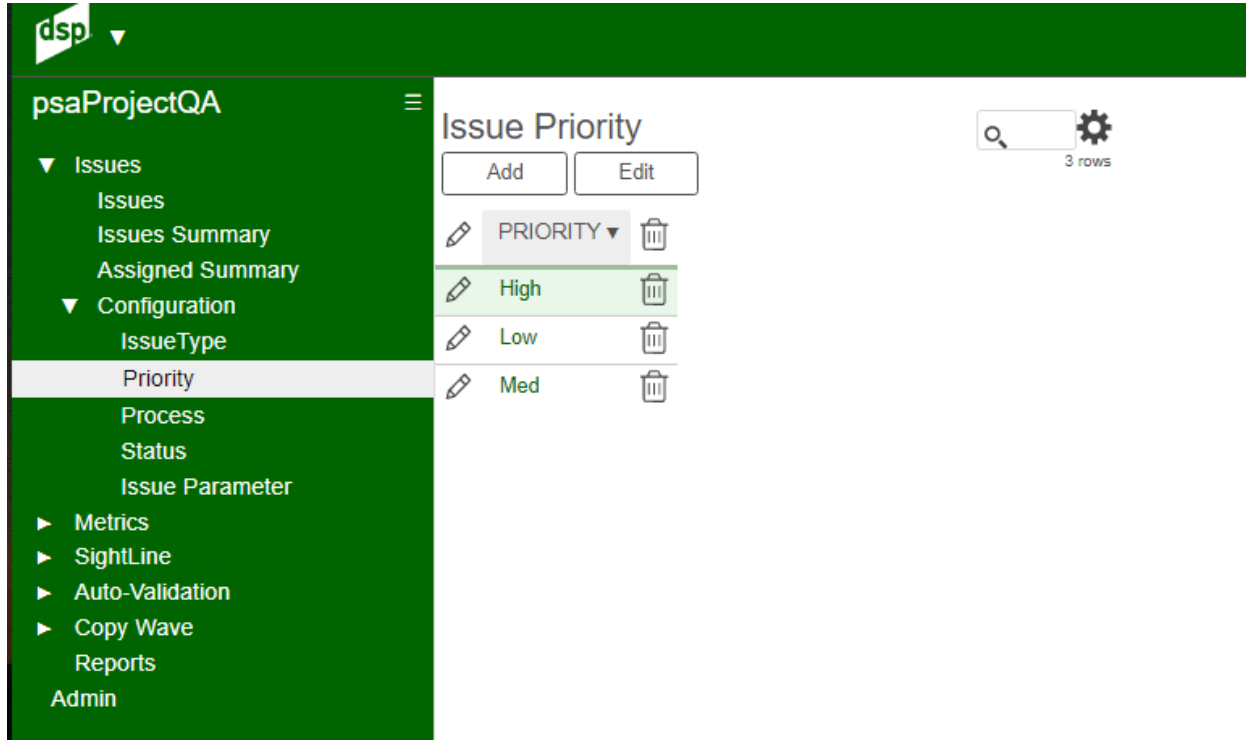
The screenshot shows the 'Issue Type' configuration interface. On the left is a green sidebar with a navigation menu. The main content area is titled 'Issue Type' and contains a table of issue types. At the top right of the main area, there is a search bar, a gear icon, and the text '8 rows'.

| ISSUE TYPE | |
|-----------------|--|
| CollectFailure | |
| Configuration | |
| Defect | |
| Documentation | |
| Enhancement | |
| New Requirement | |
| Process | |
| UserEducation | |

Issues - Priority - (Under Issues Configuration Sub Menu)

These are the standard priority sent to each client.

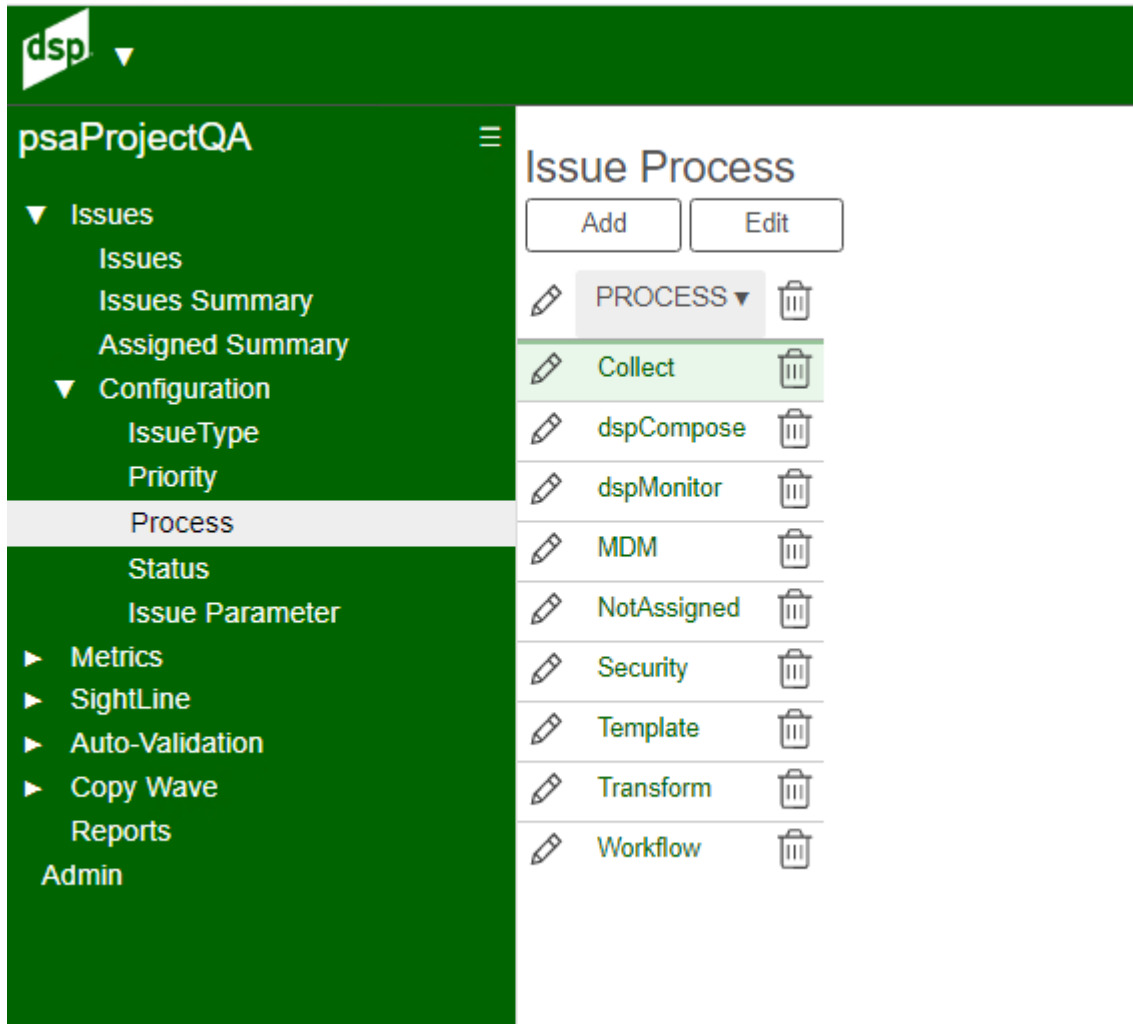
Projects are allowed to add or update this list as seen fit.



Issues - Process - (Under Issues Configuration Sub Menu)

These are the standard processes sent to each client.

Projects are allowed to add or update this list as seen fit.



Issues - Status - (Under Issues Configuration Sub Menu)

These are the standard statuses sent to each client.

Projects are allowed to add or update this list as seen fit.

The screenshot displays the 'Issue Status' configuration interface. On the left is a navigation sidebar for 'psaProjectQA' with a menu structure including 'Issues', 'Configuration', and 'Status'. The main area shows a table of status configurations. At the top right, there is a search bar, a gear icon, and a '14 rows' indicator. Below the search bar are 'Add' and 'Edit' buttons. The table has three columns: 'STATUS' (with a dropdown arrow), 'COMPLETED IND' (with a checkmark icon), and 'DESCRIPTION' (with a trash icon). The table contains 14 rows of status types.

| STATUS | COMPLETED IND | DESCRIPTION |
|-------------------|---------------|-------------|
| CAB Approval | ✓ | |
| Cancelled | ✓ | |
| Complete | ✓ | |
| In Progress | | |
| MD Approval | ✓ | |
| Needs Action | | |
| New | | |
| Suggestion | | |
| Support | | |
| SupportMonitoring | | |
| SupportResolved | ✓ | |
| To Transport | | |
| Waiting | | |
| WorkAround | ✓ | |

Issues – Load Cycle - (Under Issues Configuration Sub Menu)

Load Cycles can be configured at each client site.

These changes apply to Issues and Sightline.

The Load Cycle Order is the order a user will see the Load Cycles.

The screenshot shows the 'Load Cycle' configuration interface. On the left is a navigation menu for 'psaProjectQA' with options like Issues, Configuration, and Load Cycle. The main area is titled 'Load Cycle' and contains a table with 6 rows. The table has columns for 'LOAD CYCLE', 'LOAD CYCLE ORDER', and a trash icon. The rows are: Tech Load (1), Mock 1 (2), Mock 2 (3), Mock 3 (4), Dress Rehearsal (5), and Cutover (6). There are 'Add' and 'Edit' buttons at the top, and a search bar with a gear icon and '6 rows' indicator.

| LOAD CYCLE | LOAD CYCLE ORDER | |
|-----------------|------------------|--|
| Tech Load | 1 | |
| Mock 1 | 2 | |
| Mock 2 | 3 | |
| Mock 3 | 4 | |
| Dress Rehearsal | 5 | |
| Cutover | 6 | |

Issues - Issue Parameter - (Under Issues Configuration Sub Menu)

Issue is set not to include completed issues on the charts.

Projects are allowed to add them to the counts or remove them.

Edit the checkbox to include completed issues.

Dashboards DO NOT SHOW ARCHIVED ISSUES!

The screenshot displays the 'Issue Parameter' configuration interface. On the left, a green sidebar contains a navigation menu with the following items: Issues (expanded), Issues Summary, Assigned Summary, Configuration (expanded), Issue Parameter (selected), Metrics, SightLine, Auto-Validation, Copy Wave, Reports, and Admin. The main content area is titled 'Issue Parameter' and includes an 'Edit' button, a search bar, and a gear icon labeled '1 rows'. Below these elements is a table with one row: 'ISSUE CHARTS INCLUDED COMPLETED'. The table has a light green background and a pencil icon in the left margin.

Metrics - Wave by Object - (Under Metrics)

Wave Object page will show percentage complete by object. The second chart will display counts of mappings per object. The last two options will display a quick view of the mappings completed or waiting to be completed by a business user.

This can provide a quick glance on work being done for the Client project lead.

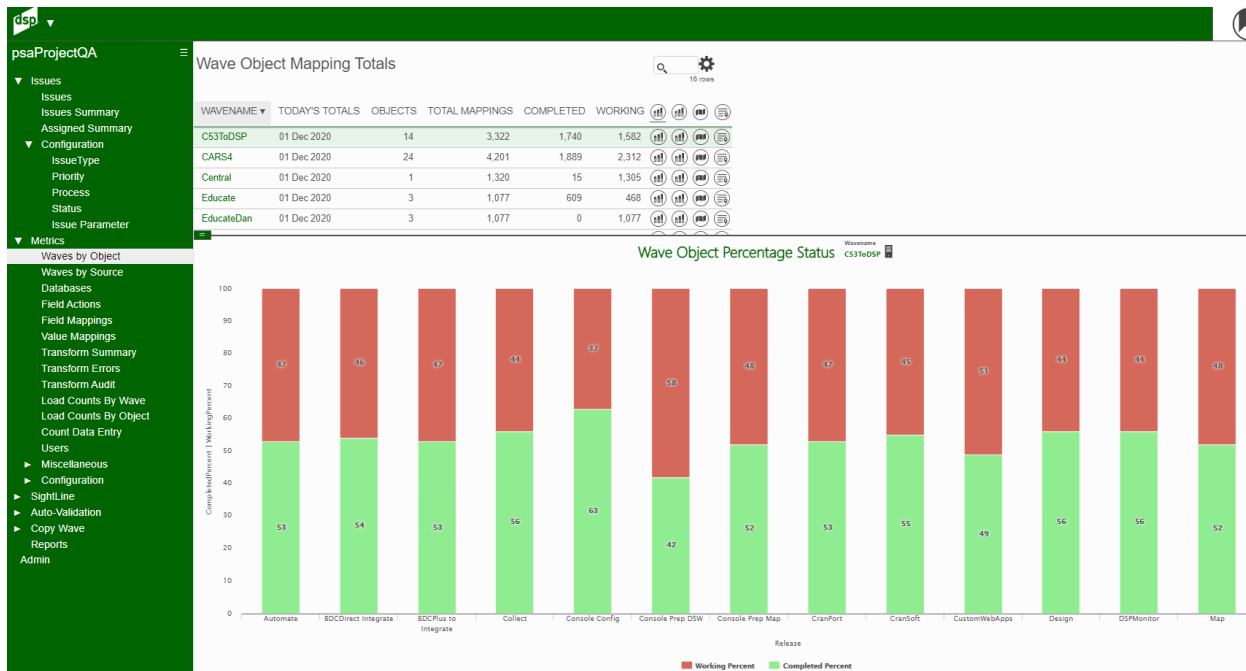
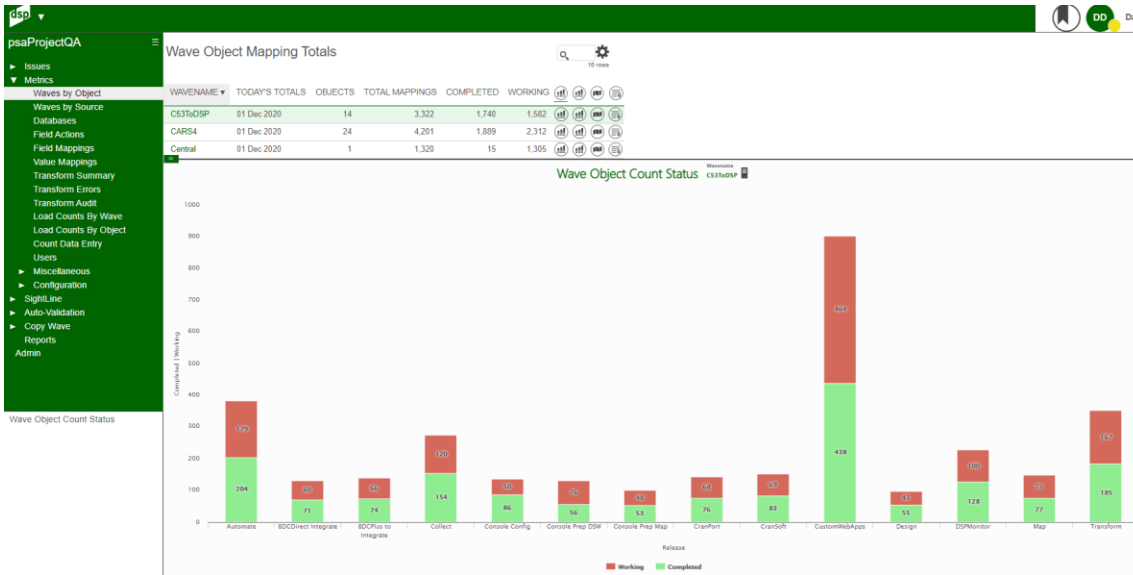


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Bar chart of Wave by Object Percentage status |
| | Bar chart of Wave by Object mapping count completed or in progress. |
| | Quick summary of mapping in progress that has not been completed. |
| | Quick summary of all mapping completed or in progress. |

Wave by Object count of mapping completed or in process.



Quick summary details of mapping in progress or completed.

| WAVENAME | PROCESS AREA | NAME | TARGET | SOURCE | SOURCE DATABASE OBJECT | FIELD | ACTION | MAPPING STATUS | MAPPED BY | MAPPED ON | RULE STATUS |
|----------|--------------|----------|--------------------|----------------|------------------------|---------------|--------|----------------|-----------|-----------|-------------|
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | AddedBy | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | AddedOn | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | ChangedBy | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | ChangedOn | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | Comment | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzDisposition | {Target Rules} | {Target Rule} | Disposition | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | DatabaseName | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | ID | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | ParamLength | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | ParamName | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | ParamType | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzEventParamInfo | {Target Rules} | {Target Rule} | ProcedureName | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | Active | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | AddedBy | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | AddedOn | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | boaStatus | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | ChangedBy | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | ChangedOn | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | Completed | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | InstanceID | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | InterfaceID | | Pending | | | Pending |
| C53ToDSP | WebApps | Automate | titzInstance | {Target Rules} | {Target Rule} | Message | | Pending | | | Pending |

Metrics - Wave by Source - (Under Metrics)

Wave by Source completion percentage to help Project lead determine if one source is lagging in completion of the project. This could be critical if there is scope change to remove source from the current wave.

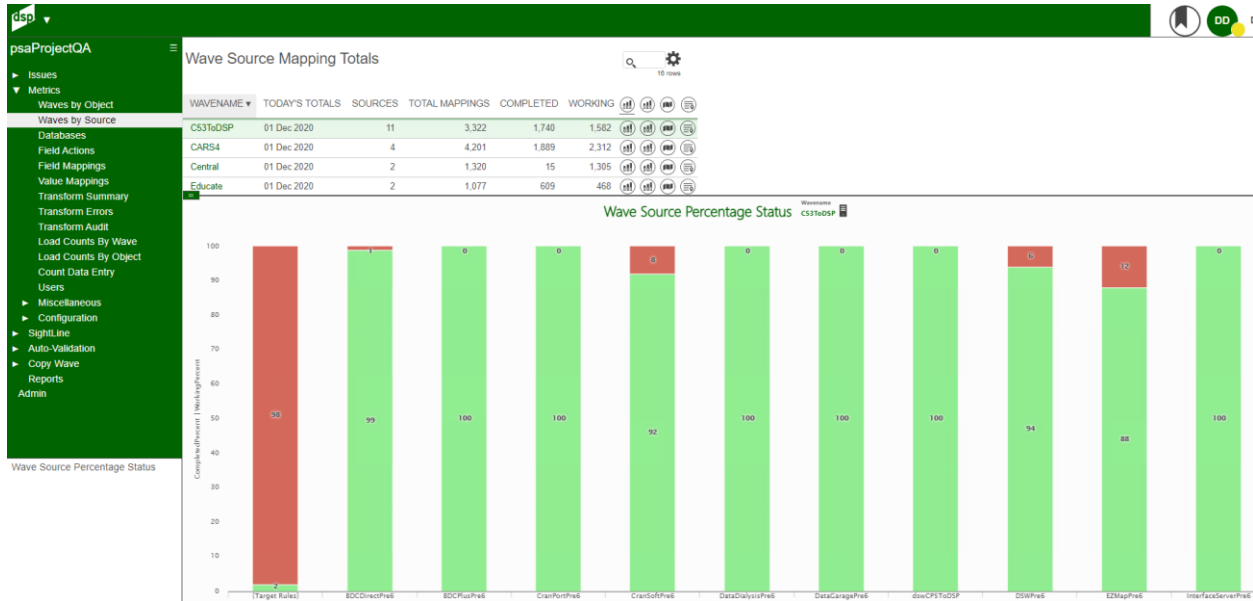
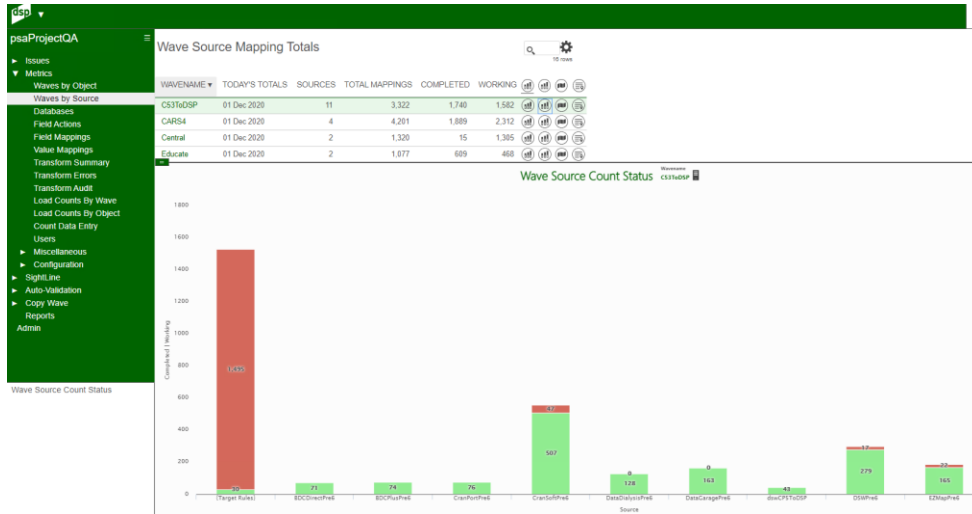


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Bar chart of Wave by Object Percentage status |
| | Bar chart of Wave by Object mapping count completed or in progress. |
| | Quick summary of mapping in progress that has not been completed. |
| | Quick summary of all mapping completed or in progress. |

Wave by Source count of mappings completed or in process.



Quick summary details of mapping in progress or completed.

The screenshot shows the 'Wave Object Mapping Details' view, providing a granular look at individual mapping actions. The table below lists the details for each action, including the wave name, process area, source and target names, database objects, and the current mapping status.

| WAVENAME | PROCESS AREA | NAME | TARGET | SOURCE | SOURCE DATABASE OBJECT | FIELD | ACTION | MAPPING STATUS | MAPPED BY | MAPPED ON | RULE STATUS |
|----------|--------------|----------------|-------------------|----------------|------------------------|-------|---------------|----------------|-----------|-----------|-------------|
| C53T6DSP | Automate | titDisposition | [Target Rules] | [Target Rule] | | | AddedBy | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titDisposition | [Target Rules] | [Target Rule] | | AddedOn | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titDisposition | [Target Rules] | [Target Rule] | | ChangedBy | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titDisposition | [Target Rules] | [Target Rule] | | ChangedOn | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titDisposition | [Target Rules] | [Target Rule] | | Comment | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titDisposition | [Target Rules] | [Target Rule] | | Disposition | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | DatabaseName | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | ID | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | ParamLength | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | ParamName | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | ParamType | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titEventParamInfo | [Target Rules] | [Target Rule] | | ProcedureName | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titInstance | [Target Rules] | [Target Rule] | | Active | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titInstance | [Target Rules] | [Target Rule] | | AddedBy | Pending | | | Pending |
| C53T6DSP | WebApps | Automate | titInstance | [Target Rules] | [Target Rule] | | AddedOn | Pending | | | Pending |

Metrics - Databases - (Under Metrics)

Databases used in ADM waves. Details of the objects can be accessed by clicking on the images.

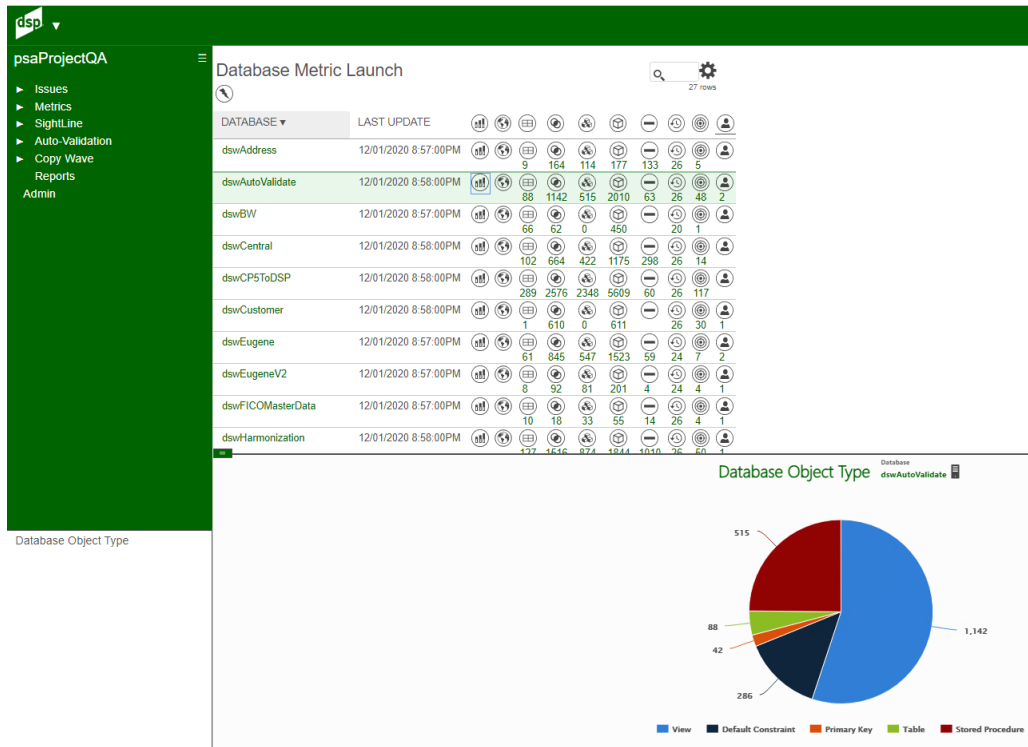


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Update all statistics for all databases by submitting a batch background process. |
| | Chart displaying total objects in the database. |
| | Dashboard showing changes over period of time and total objects in the database. |
| | Tables in the Object database |
| | Views in the Object database |
| | Stored Procedures in the Object database |
| | All SQL SERVER objects in the Object database |
| | Delete Objects that were created in the Object database |
| | Metrics of Object counts for the last 180 days |
| | Targets used in the Database for the object. |
| | Developers assigned to the Targets in Target Design that point to this database. |

Metrics - Field Action - (Under Metrics)

Field actions help determine the amount of effort on a Wave. Default rules and Copy rules are easy automated rules the system can generate. Manual rules or Manual construction rules take a lot longer to develop/test since this is the complex logic required for the client to do business. Construction rules are used for data enrichment and require web application component development. This first chart is a comparison of automated to developed rules with a total line.

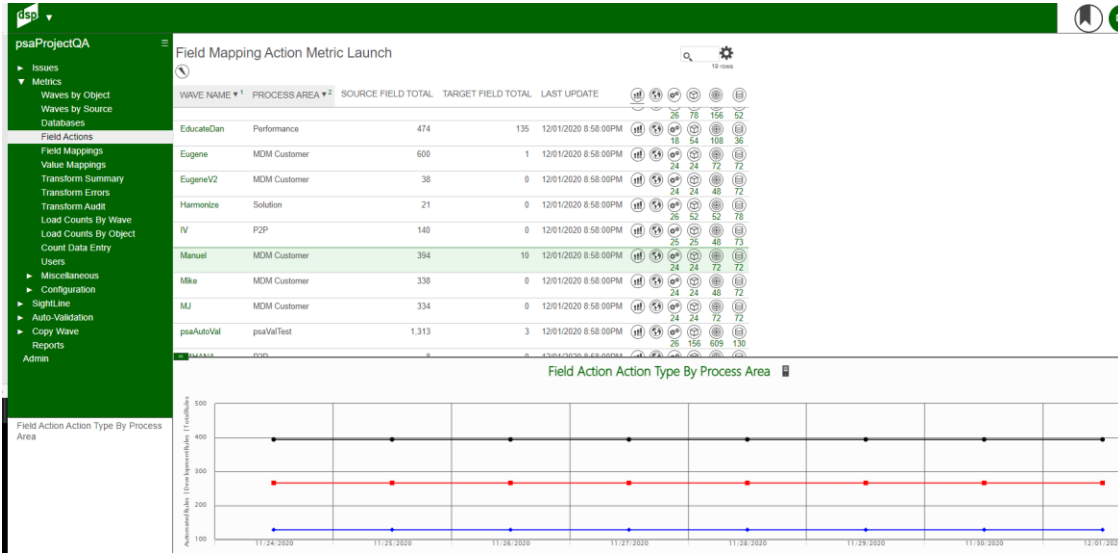
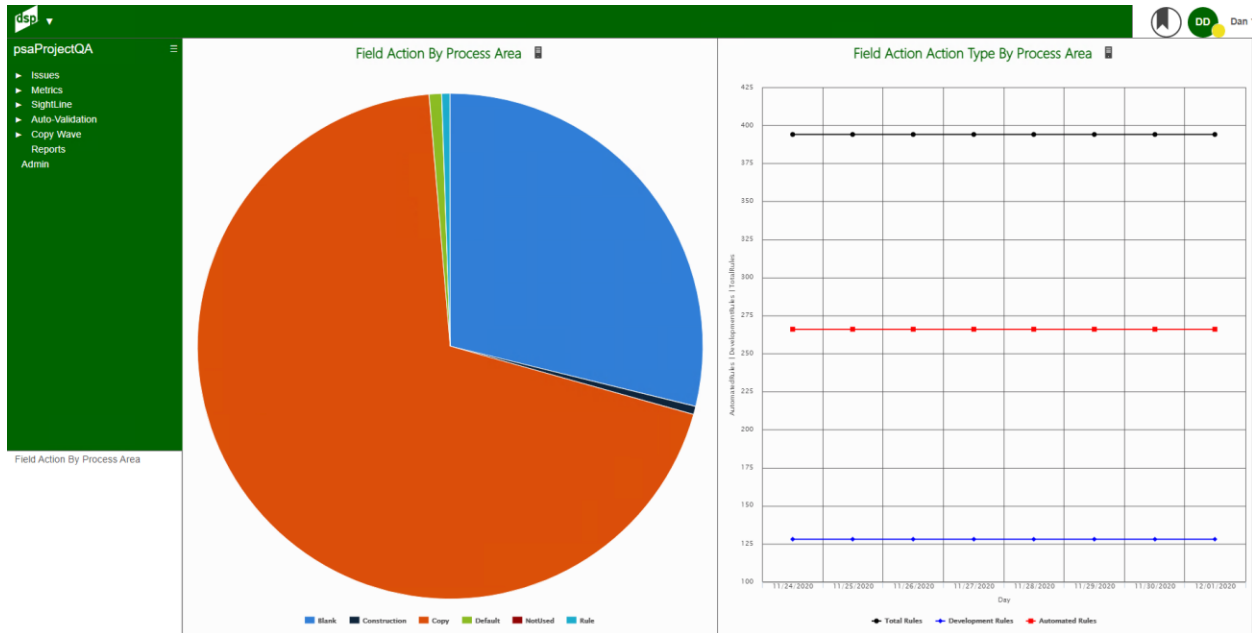


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Chart displaying Field Mapping changes per day. |
| | Dashboard showing total actions and Field Mapping changes per day. |
| | Wave Process Area metrics for days, weeks and months |
| | Wave Process Area Object metrics for days, weeks and months |
| | Wave Process Area Object Target metrics for days, weeks and months |
| | Wave Process Area Source metrics for days, weeks and months |

Chart displays current total count of rule actions in the wave as well as changes over time. Not used is a rule action but no code is required for those fields.



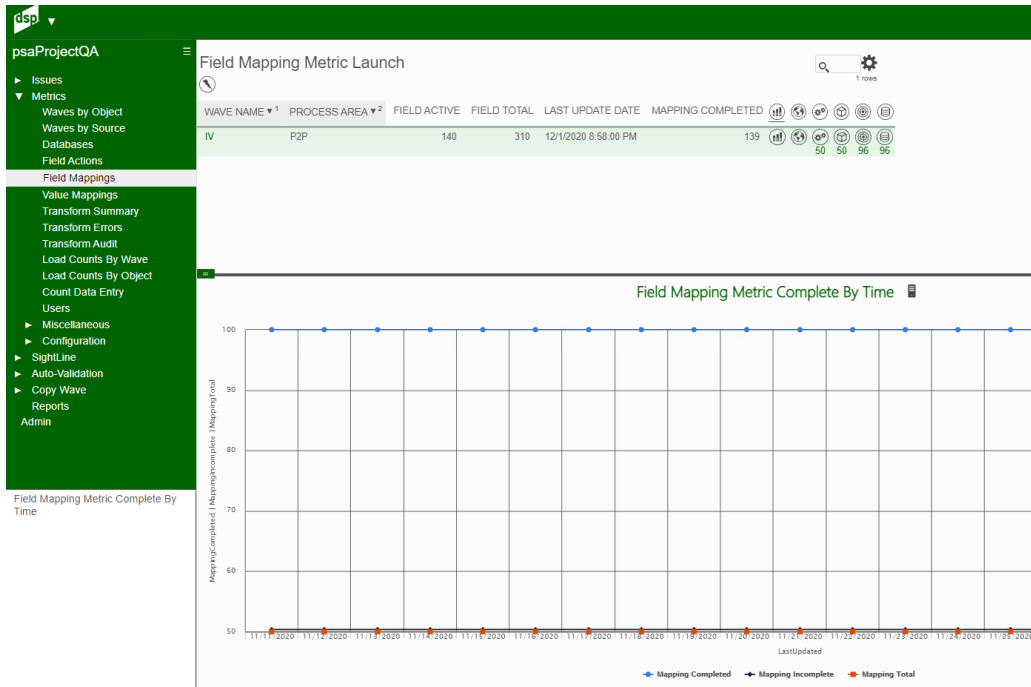
Detailed daily and week counts of the wave objects used to generate the charts.

| WAVE NAME | PROCESS AREA | SOURCE FIELD TOTAL | TARGET FIELD TOTAL | LAST UPDATE |
|------------|--------------|--------------------|--------------------|----------------------|
| EducateDan | Performance | 474 | 135 | 12/01/2020 8:58:00PM |
| Eugene | MDM Customer | 600 | 1 | 12/01/2020 8:58:00PM |
| EugeneV2 | MDM Customer | 38 | 0 | 12/01/2020 8:58:00PM |
| Harmonize | Solution | 21 | 0 | 12/01/2020 8:58:00PM |
| IV | P2P | 140 | 0 | 12/01/2020 8:58:00PM |
| Manual | MDM Customer | 394 | 10 | 12/01/2020 8:58:00PM |
| Mike | MDM Customer | 338 | 0 | 12/01/2020 8:58:00PM |
| MJ | MDM Customer | 334 | 0 | 12/01/2020 8:58:00PM |
| psaAutoVal | psaValTest | 1,313 | 3 | 12/01/2020 8:58:00PM |

| WAVE | METRIC TYPE | REQUIRED SOURCE FIELDS | COPY | DEFAULT | MANUAL RULE | RULE | INTERNAL | NOT USED | NOT ASSIGNED | SOURCE CONSTRUCTION | SOURCE X REF | LAST UPDATE |
|--------------|---------------|------------------------|-------------|----------------|-----------------|-------------|-----------------|-----------------|--------------|----------------------------|------------------|-----------------------|
| PROCESS AREA | SNAP SHOT KEY | MAPPED TARGET FIELD | TARGET COPY | TARGET DEFAULT | TARGET MAN RULE | TARGET RULE | TARGET INTERNAL | TARGET NOT USED | TARGET BLANK | SOURCE MANUAL CONSTRUCTION | SOURCE RULE XREF | |
| Manual | Daily | 394 | 262 | 3 | 0 | 2 | 1 | 0 | 109 | 2 | 15 | 12/01/2020 8:58:00PM |
| MDM Customer | 20201201 | 10 | 2 | 5 | 1 | 2 | 0 | 0 | 187 | 0 | 0 | |
| Manual | Daily | 394 | 262 | 3 | 0 | 2 | 1 | 0 | 109 | 2 | 15 | 11/30/2020 7:58:00PM |
| MDM Customer | 20201130 | 10 | 2 | 5 | 1 | 2 | 0 | 0 | 187 | 0 | 0 | |
| Manual | Daily | 394 | 262 | 3 | 0 | 2 | 1 | 0 | 109 | 2 | 15 | 11/29/2020 11:59:00PM |
| MDM Customer | 20201129 | 10 | 2 | 5 | 1 | 2 | 0 | 0 | 187 | 0 | 0 | |

Metrics - Field Mappings - (Under Metrics)

Field mapping actions are showing the business user completed actions versus the incomplete actions. The business must drive the mapping actions before the developer can do the work. These measurements are using Gate Target Dates defined in dspMirgrate. Field mapping rules target dates are defined at the Wave-ProcessArea web page. Dates are a general goal for the project: e.g... 50% done by June 30th for Mock Load 2, and 90% done for Sept 30th Mock Load 3.



Field Mapping gate metrics are accessed from the link on Wave-ProcessArea web page. If running DSP 7.4 or higher, this page link has been removed. Enter the Gate settings, Using the Field Mapping Gate under the Configuration menu of psaMetric.

Waves

| NAME | ACTIVE | DESCRIPTION |
|------|--------|----------------|
| IV | ✓ | IV's LFA1 wave |

Wave : Process Areas

| PROCESS AREA ID | ACTIVE | COMMENT |
|----------------------|--------|-------------------|
| P2P - Procure to Pay | ✓ | LFA1 Process Area |

Wave Process Area Gate metrics are entered on this page and should be entered to match the project dates. A service page will update these stats daily or a user can click the Process Metrics in the Map application.

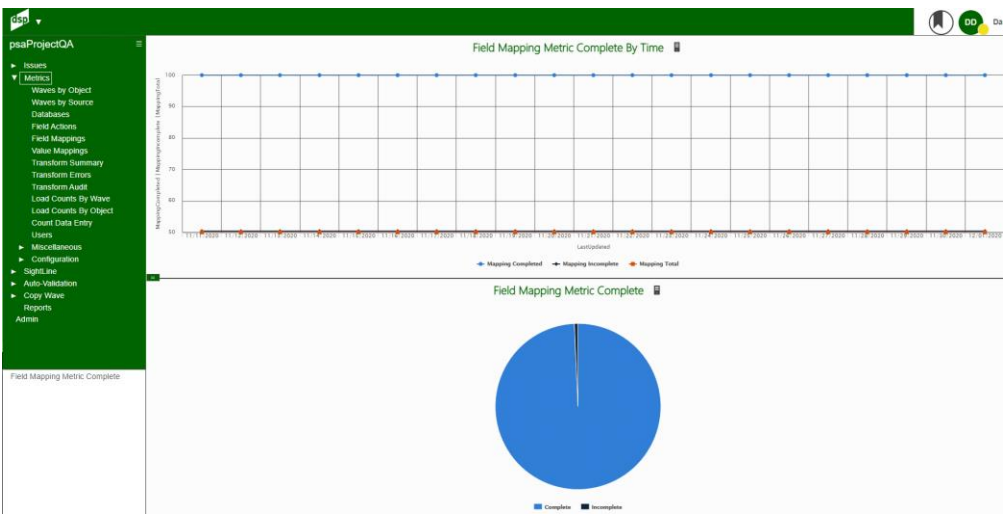
psaAutoVal - psaValTest • Console Design Map Construct Transform Integrate

Wave Process Area Gate Metrics (Field Mapping)

Add Edit

| GATE NAME | GATE DATE | GATE PERCENTAGE | MAPPING PERCENT COMPLETE | MAPPING COMPLETED | MAPPING TOTAL | FIELD ACTIVE | FIELD TOTAL | LAST UPDATE DATE |
|-----------|-----------|-----------------|--------------------------|-------------------|---------------|--------------|-------------|----------------------|
| IV Mock1 | 4/27/2022 | 20 | 99 | 139 | 140 | 140 | 310 | 12/1/2020 8:58:00 PM |
| IV Mock 2 | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 12/1/2020 8:58:00 PM |

Dashboard showing the changes over time and a summary of completed and incomplete mappings.



Details of the counts that are processed daily and summed up weekly and monthly.

| WAVE NAME | PROCESS AREA | FIELD ACTIVE | FIELD TOTAL | LAST UPDATE DATE | MAPPING COMPLETED |
|-----------|--------------|--------------|-------------|----------------------|-------------------|
| IV | P2P | 140 | 310 | 12/1/2020 8:58:00 PM | 139 |

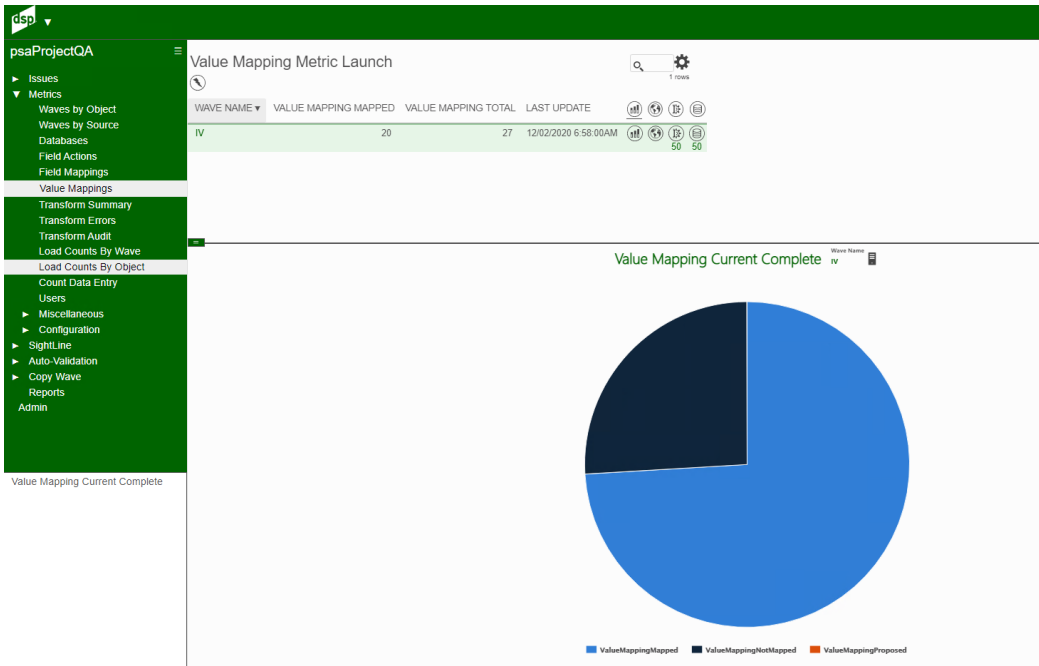
| WAVE NAME | PROCESS AREA | GATE NAME | METRIC TYPE | GATE DATE | GATE PERCENTAGE | MAPPING PERCENT COMPLETE | MAPPING COMPLETED | MAPPING TOTAL | FIELD ACTIVE | FIELD TOTAL | LAST UPDATE |
|-----------|--------------|-----------|-------------|-----------|-----------------|--------------------------|-------------------|---------------|--------------|-------------|-----------------------|
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 12/01/2020 8:58:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/30/2020 7:58:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/29/2020 11:59:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/28/2020 10:58:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/27/2020 9:58:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/26/2020 8:58:00PM |
| IV | P2P | IV Mock 2 | Daily | 9/13/2022 | 100 | 99 | 139 | 140 | 140 | 310 | 11/25/2020 7:58:00PM |

Image Definitions:

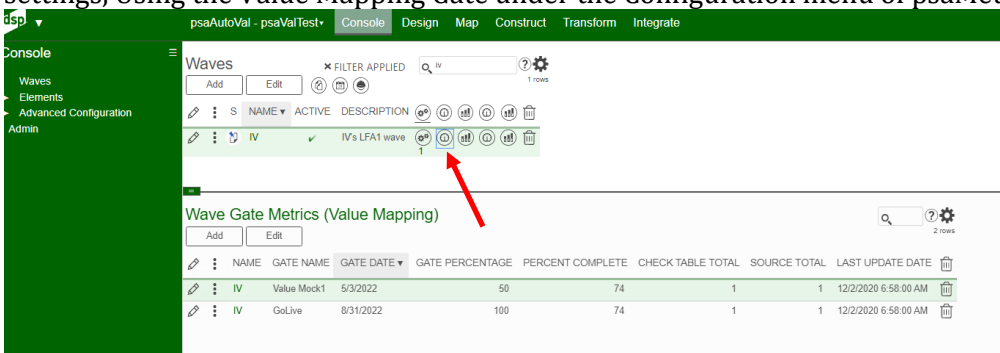
| Image | Description of the process |
|-------|--|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Chart displaying Field Mapping changes per day. |
| | Dashboard showing total actions and Field Mapping changes per day. |
| | Wave Process Area metrics for days, weeks and months |
| | Wave Process Area Object metrics for days, weeks and months |
| | Wave Process Area Object Target metrics for days, weeks and months |
| | Wave Process Area Source metrics for days, weeks and months |

Metrics - Value Mapping - (Under Metrics)

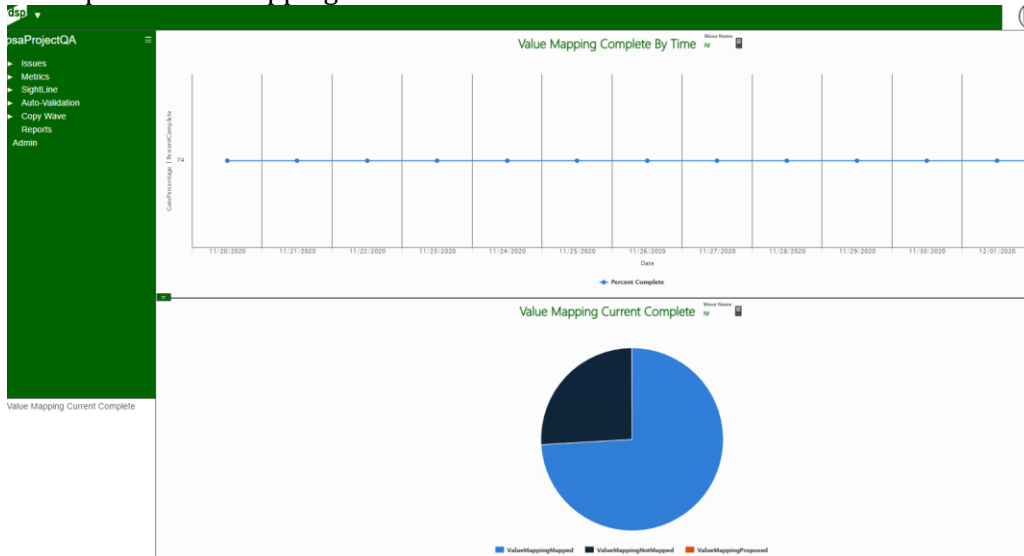
Value mapping actions are showing the business user completed value actions versus the incomplete value actions. Value mappings are critical for project Target loads to get converted value into the system correctly. Value mapping value dates are defined at the wave page. Dates are general goals for the project, for example - 50% done by June30th Mock Load 2, or 90% done for Sept 30th Mock Load 3.



Value Mappings Gate Metrics are created on the page below. The link is off the main wave page in Console application. If running DSP 7.4 or higher, this page link has been removed. Enter the Gate settings, Using the Value Mapping Gate under the Configuration menu of psaMetric.



Dashboard showing the changes over time by day and a total summary of completed and incomplete value mappings.



Details of the counts that are processed daily and summed up weekly and monthly.

The figure shows two screenshots from the application. The top screenshot, 'Value Mapping Metric Launch', displays a table with columns: WAVE NAME, VALUE MAPPING MAPPED, VALUE MAPPING TOTAL, and LAST UPDATE. The bottom screenshot, 'Value Mapping Wave Metric', displays a detailed table with columns: GATE NAME, METRIC TYPE, GATE DATE, PERCENTAGE, GATE COMPLETE, VALUE MAPPING CHECK TABLE TOTAL, VALUE MAPPING CHECK SOURCE ACTIVE, VALUE MAPPING CHECK SOURCE TOTAL, VALUE MAPPING MAPPED, VALUE REVELANT MAPPED, VALUE MAPPING NOT MAPPED, VALUE MAPPING TOTAL, VALUE MAPPING PROPOSED, and LAST UPDATE. The table contains 8 rows of data for 'GoLive' waves.

| WAVE NAME | VALUE MAPPING MAPPED | VALUE MAPPING TOTAL | LAST UPDATE |
|-----------|----------------------|---------------------|----------------------|
| IV | 20 | 27 | 12/02/2020 6:58:00AM |

| GATE NAME | METRIC TYPE | GATE DATE | PERCENTAGE | GATE COMPLETE | VALUE MAPPING CHECK TABLE TOTAL | VALUE MAPPING CHECK SOURCE ACTIVE | VALUE MAPPING CHECK SOURCE TOTAL | VALUE MAPPING MAPPED | VALUE REVELANT MAPPED | VALUE MAPPING NOT MAPPED | VALUE MAPPING TOTAL | VALUE MAPPING PROPOSED | LAST UPDATE |
|-----------|-------------|-----------|------------|---------------|---------------------------------|-----------------------------------|----------------------------------|----------------------|-----------------------|--------------------------|---------------------|------------------------|-----------------------|
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 12/02/2020 6:58:00AM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 12/01/2020 8:58:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/30/2020 7:59:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/29/2020 11:59:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/28/2020 10:58:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/27/2020 9:58:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/26/2020 8:58:00PM |
| GoLive | Daily | 8/31/2022 | 100 | 74 | 1 | 1 | 1 | 20 | 0 | 7 | 27 | 0 | 11/25/2020 7:58:00PM |

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Pie Chart displaying Total Mapped, Not Mapped and Proposed Values |
| | Dashboard showing value actions totals and displaying Value Mapping changes per day. |
| | Wave metrics for days, weeks and months |
| | Wave Source metrics for days, weeks and months |

Metrics – Transform Summary - (Under Metrics)

Transform summary maintains metric counts of sources, source rules, target rules and target reports. These charts and details summary will allow a user to see how objects are developed over time.

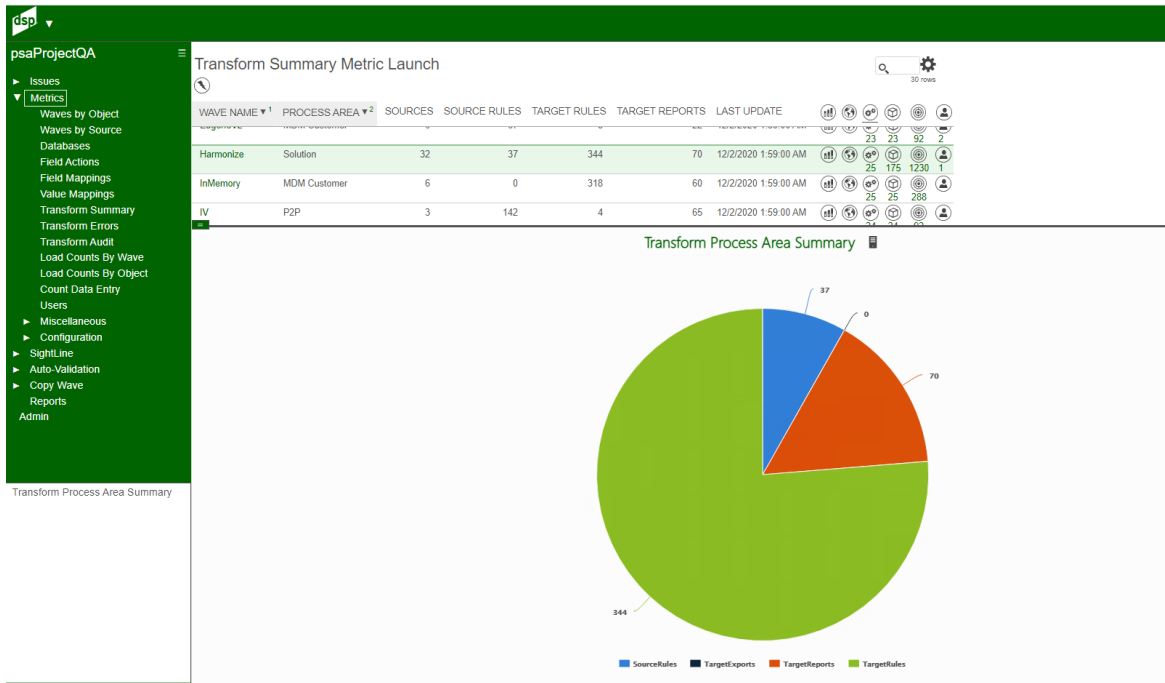
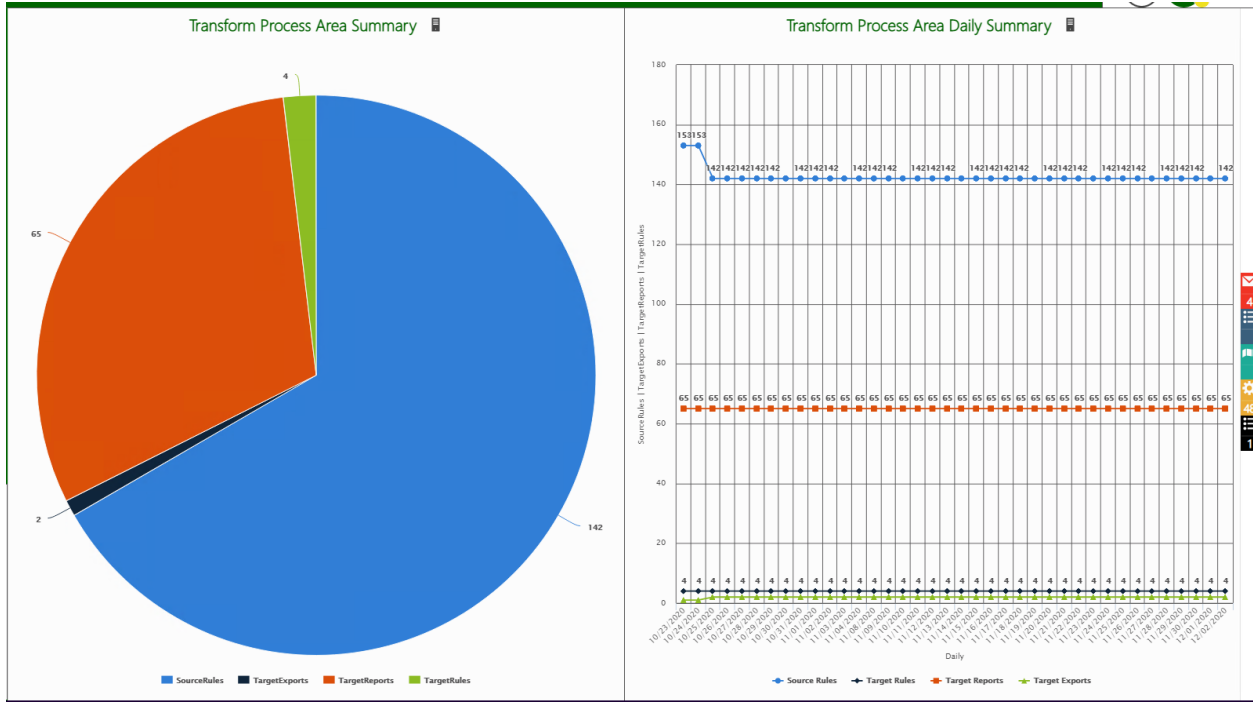


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Pie chart displaying objects in the Wave Process Area broken down to Source Rules, Source Reports, Target Rules, Target Reports and Target Exports. |
| | Dashboard showing total object totals and Objects changes per day. |
| | Wave Process Area metrics for days, weeks and months |
| | Wave Process Area Object metrics for days, weeks and months |
| | Wave Process Area Object Target metrics for days, weeks and months |
| | Developers assigned to work on the Transform Targets |

Dashboard showing the changes over time for sources, source rules, target rules and target reports. Pie chart is the total count of each object registered in Transform by Wave-ProcessArea.



Details of the daily counts by Wave-ProcessArea, Wave-ProcessArea-Object and Wave-ProcessArea-Object-Targets. The process also shows the developers working on the different targets.

| WAVE NAME | PROCESS AREA | SOURCES | SOURCE RULES | TARGET RULES | TARGET REPORTS | LAST UPDATE |
|-----------|--------------|---------|--------------|--------------|----------------|----------------------|
| Harmonize | Solution | 32 | 37 | 344 | 70 | 12/2/2020 1:59:00 AM |
| InMemory | MDM Customer | 6 | 0 | 318 | 60 | 12/2/2020 1:59:00 AM |
| IV | P2P | 3 | 142 | 4 | 65 | 12/2/2020 1:59:00 AM |

| METRIC TYPE | DATABASE | SOURCES | SOURCE RULE | SOURCE RULES | SOURCE REPORTS | TARGET RULE | TARGET RULES | TARGET REPORT | TARGET REPORTS | TARGET EXPORTS | LAST UPDATE |
|-------------|------------------|---------|-------------|--------------|----------------|-------------|--------------|---------------|----------------|----------------|-----------------------|
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 12/02/2020 11:59:00AM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 12/01/2020 8:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/30/2020 7:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/29/2020 11:59:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/28/2020 10:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/27/2020 9:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/26/2020 8:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/25/2020 7:59:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/24/2020 11:59:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/23/2020 10:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/22/2020 9:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/21/2020 8:58:00PM |
| Daily | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 11/20/2020 8:02:00PM |
| Monthly | dswHarmonization | 32 | 0 | 37 | 0 | 32 | 344 | 70 | 70 | 0 | 12/01/2020 12:59:00AM |
| Monthly | dswHarmonization | 32 | 0 | 37 | 0 | 40 | 345 | 100 | 100 | 0 | 11/01/2020 12:49:00AM |

Metrics – Transform Errors - (Under Metrics)

Transform error maintains metric counts of target report business ready errors and the number of records that were remediated. These charts and details summary show how critical data is being fixed by value mapping or by business users changing the rules to fix the data.

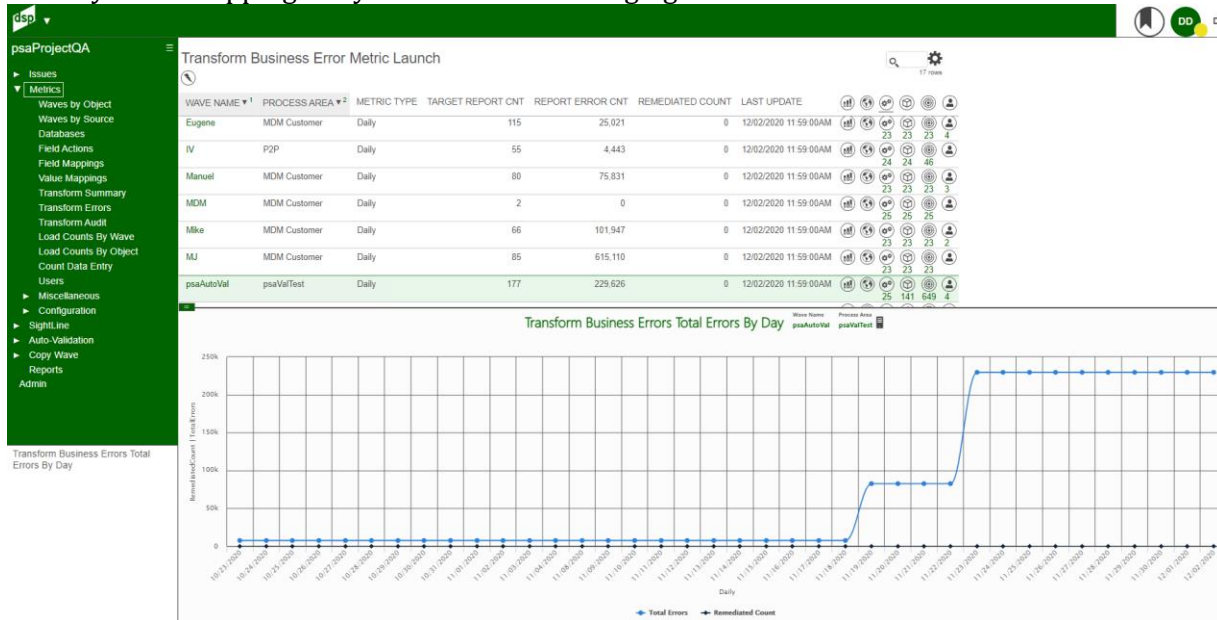
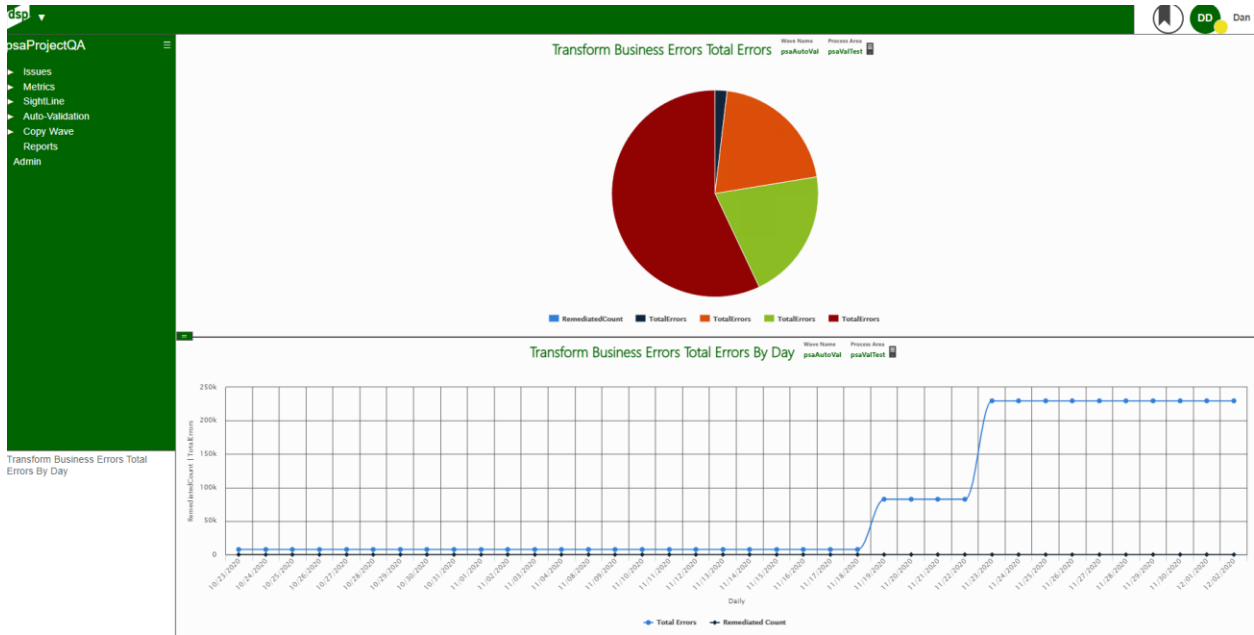


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Line chart displaying business error in the Wave Process Area logged by day. |
| | Dashboard showing total business errors and total errors count per day. |
| | Wave Process Area metrics for days, weeks and months |
| | Wave Process Area Object metrics for days, weeks and months |
| | Wave Process Area Object Target metrics for days, weeks and months |
| | Developers assigned to work on the Transform Targets |

Pie Chart shows error count and remediated fix count. There is a 30-day line chart to show the changes made by the business group.



Detailed metric counts are stored as Wave-ProcessArea, Wave-ProcessArea-Object and Wave-ProcessArea-Object-Target. The last image will display the Target developers working this object.

The dashboard displays two tables. The first table, 'Transform Business Error Metric Launch', lists various waves and their associated metrics. The second table, 'Transform Business Errors Process Area Metric', provides a detailed view of metrics for the 'psaValTest' process area.

| WAVE NAME | PROCESS AREA | METRIC TYPE | TARGET REPORT CNT | REPORT ERROR CNT | REMEDIAED COUNT | LAST UPDATE |
|------------|--------------|-------------|-------------------|------------------|-----------------|-----------------------|
| Eugene | MDM Customer | Daily | 115 | 25,021 | 0 | 12/02/2020 11:59:00AM |
| IV | P2P | Daily | 55 | 4,443 | 0 | 12/02/2020 11:59:00AM |
| Manuel | MDM Customer | Daily | 80 | 75,831 | 0 | 12/02/2020 11:59:00AM |
| MDM | MDM Customer | Daily | 2 | 0 | 0 | 12/02/2020 11:59:00AM |
| Mike | MDM Customer | Daily | 66 | 101,947 | 0 | 12/02/2020 11:59:00AM |
| MJ | MDM Customer | Daily | 85 | 615,110 | 0 | 12/02/2020 11:59:00AM |
| psaAutoVal | psaValTest | Daily | 177 | 229,626 | 0 | 12/02/2020 11:59:00AM |

| PROCESS AREA | METRIC TYPE | TARGET REPORT CNT | REPORT ERROR CNT | REMEDIAED COUNT | LAST UPDATE |
|--------------|-------------|-------------------|------------------|-----------------|-----------------------|
| psaValTest | Daily | 177 | 229626 | 0 | 12/02/2020 11:59:00AM |
| psaValTest | Daily | 177 | 229626 | 0 | 12/01/2020 8:58:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/30/2020 7:58:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/29/2020 11:59:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/28/2020 10:58:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/27/2020 9:59:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/26/2020 8:58:00PM |
| psaValTest | Daily | 177 | 229626 | 0 | 11/25/2020 7:59:00PM |
| psaValTest | Daily | 172 | 229626 | 0 | 11/24/2020 11:59:00PM |
| psaValTest | Daily | 172 | 229626 | 0 | 11/23/2020 10:58:00PM |
| psaValTest | Daily | 132 | 82678 | 0 | 11/22/2020 9:58:00PM |
| psaValTest | Daily | 132 | 82677 | 0 | 11/21/2020 8:58:00PM |
| psaValTest | Daily | 132 | 82677 | 0 | 11/20/2020 8:02:00PM |
| psaValTest | Monthly | 177 | 229626 | 0 | 12/01/2020 12:59:00AM |

Metrics – Transform Rule Audit - (Under Metrics)

Transform audit metrics are designed to track rules created, rules registered and validated as they exist in the database. During a development cycle, Rules may be made inactive or deleted for lacking business information or for data being incomplete to finish the rules. These pages will display all the values for the project leader to do a quick check on the delivered project.

The main page shows the counts detailed at the Wave-ProcessArea and changes per week.

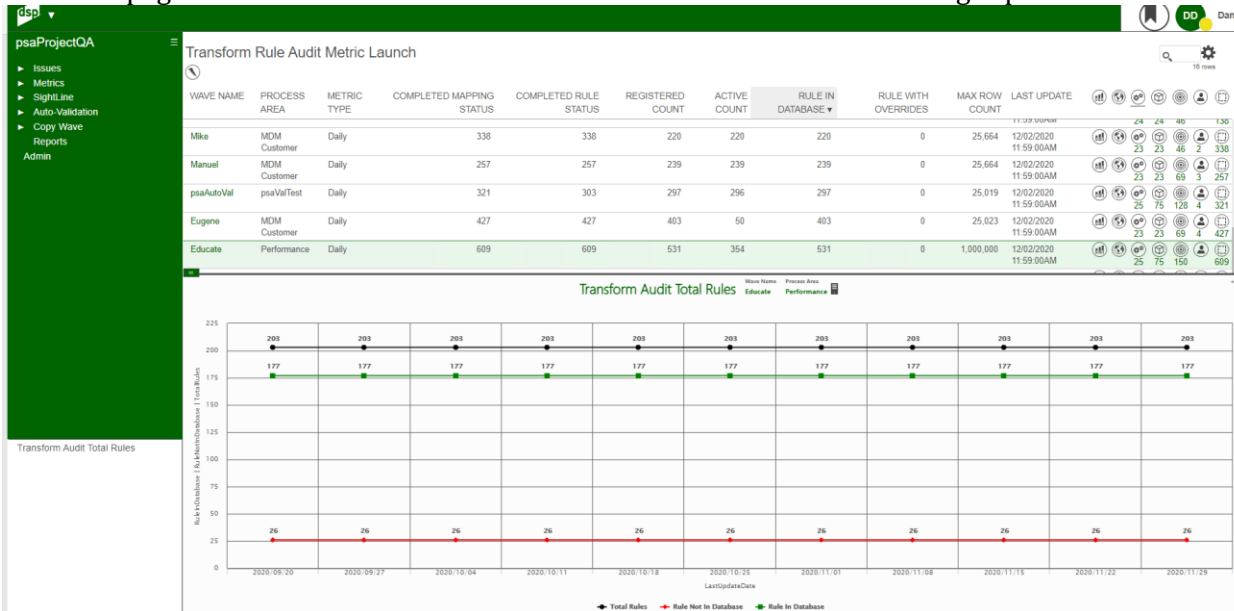
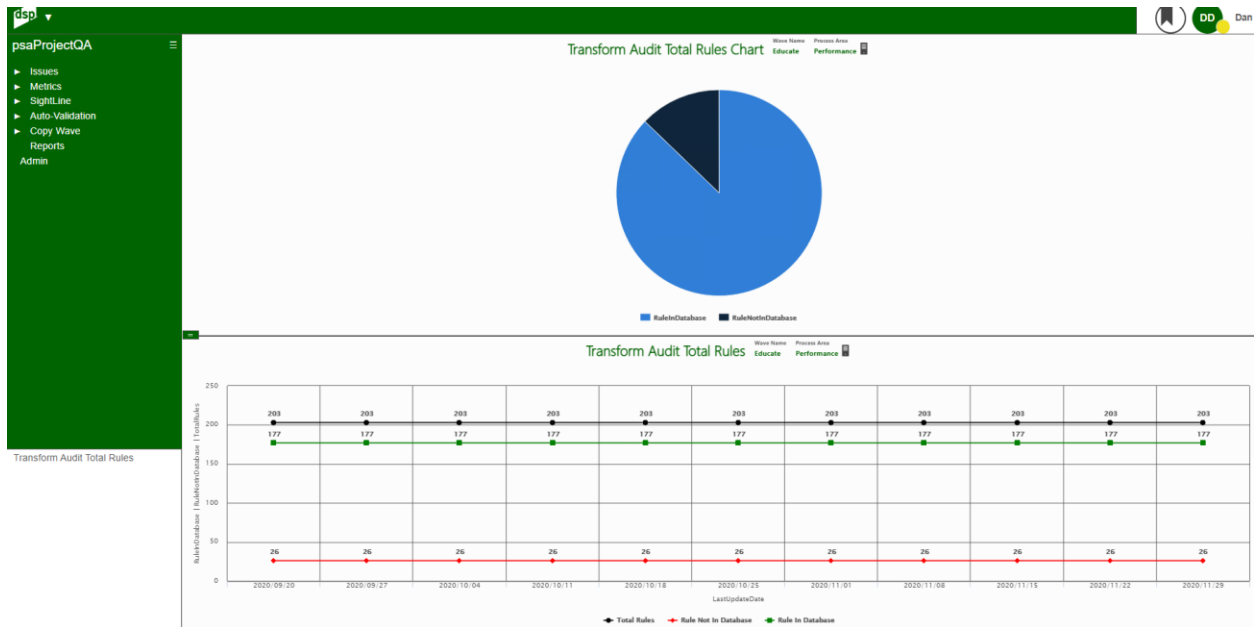


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Process Metrics update now instead of waiting for the service page to run daily. |
| | Line chart displaying existing rule counts in the Wave Process Area logged by week. |
| | Dashboard showing total rule in database and not in database. |
| | Wave Process Area metrics for days, weeks and months |
| | Wave Process Area Object metrics for days, weeks and months |
| | Wave Process Area Object Target metrics for days, weeks and months |
| | Developers assigned to work on the Transform Targets |
| | Details about the rules that exists or don't exists in the database for analysis. |

This Chart displays rules in the database and not in the database via PIE chart. The Weekly change shows objects by created, altered or deleted.



This is an example of the detail rule tracker by days and then summed to weekly and monthly totals. Charts can be created to show that level of detail if the project requires it.

Transform Rule Audit Metric Launch

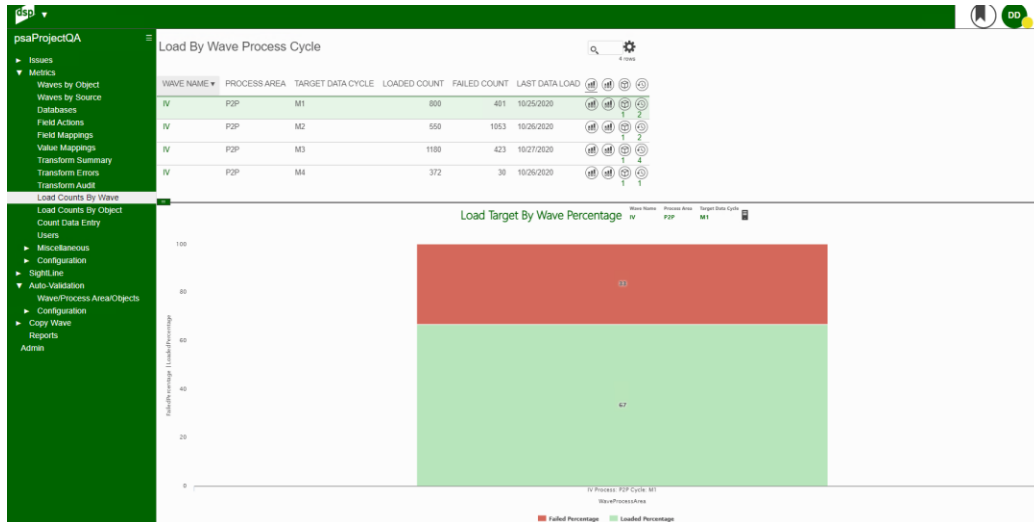
| WAVE NAME | PROCESS AREA | METRIC TYPE | COMPLETED MAPPING STATUS | COMPLETED RULE STATUS | REGISTERED COUNT | ACTIVE COUNT | RULE IN DATABASE | RULE WITH OVERRIDES | MAX ROW COUNT | LAST UPDATE |
|------------|--------------|-------------|--------------------------|-----------------------|------------------|--------------|------------------|---------------------|---------------|-----------------------|
| Mike | MDM Customer | Daily | 338 | 338 | 220 | 220 | 220 | 0 | 25,664 | 12/02/2020 11:59:00AM |
| Manuel | MDM Customer | Daily | 257 | 257 | 239 | 239 | 239 | 0 | 25,664 | 12/02/2020 11:59:00AM |
| psaAutoVal | psaValTest | Daily | 321 | 303 | 297 | 296 | 297 | 0 | 25,819 | 12/02/2020 11:59:00AM |
| Eugene | MDM Customer | Daily | 427 | 427 | 403 | 50 | 403 | 0 | 25,023 | 12/02/2020 11:59:00AM |
| Educate | Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1,000,000 | 12/02/2020 11:59:00AM |

Transform Rule Audit Process Area Metric

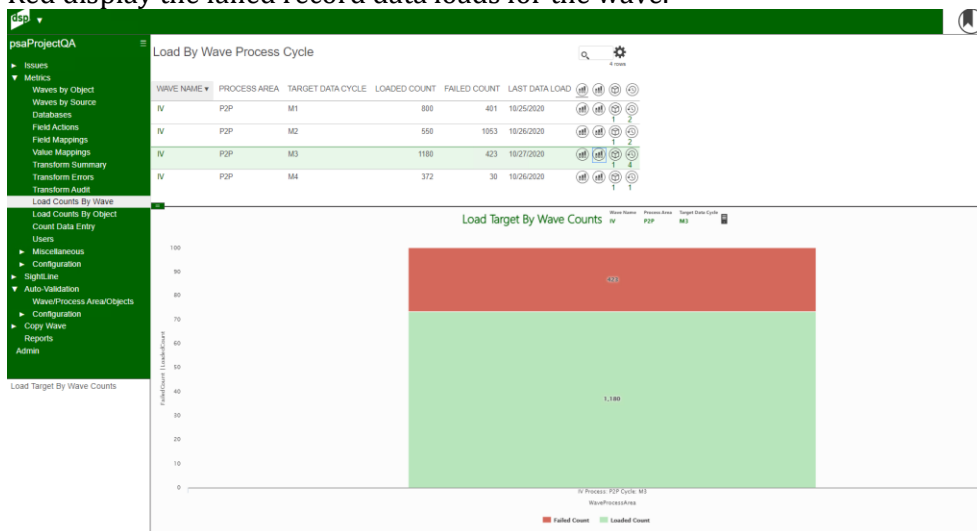
| PROCESS AREA | METRIC TYPE | COMPLETED MAPPING STATUS | COMPLETED RULE STATUS | REGISTERED COUNT | ACTIVE COUNT | RULE IN DATABASE | RULE WITH OVERRIDES | MAX ROW COUNT | LAST UPDATE |
|--------------|-------------|--------------------------|-----------------------|------------------|--------------|------------------|---------------------|---------------|-----------------------|
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 12/02/2020 11:59:00AM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 12/01/2020 8:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/30/2020 7:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/29/2020 11:59:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/28/2020 10:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/27/2020 9:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/26/2020 8:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/25/2020 7:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/24/2020 11:59:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/23/2020 10:58:00PM |
| Performance | Daily | 609 | 609 | 531 | 354 | 531 | 0 | 1000000 | 11/22/2020 9:58:00PM |

Metrics – Load Counts by Wave - (Under Metrics)

Load Wave Cycle displaying percentage chart with green being successfully loaded and red being failed records. Users can click on the other chart to display record counts or click on details to see the history.



Record counts by wave. Green display success data record loads for the wave. Red display the failed record data loads for the wave.



Details of Wave Cycles by action on date.
 Target Export must be unique per Target Data Cycle that are marked USE FOR COUNT on the dashboard per Target Data Cycle.

The screenshot displays two tables from the Syniti BackOffice dashboard. The top table, 'Load By Wave Process Cycle', shows wave details with columns for Wave Name, Process Area, Target Data Cycle, Loaded Count, Failed Count, and Last Data Load. The bottom table, 'Load Count Data History', provides a detailed view of load counts with columns for Data Object, Target Export, Target Data Cycle, Total Count, Loaded Count, Failed Count, Action On, Use For Count, and Log Date.

| WAVE NAME | PROCESS AREA | TARGET DATA CYCLE | LOADED COUNT | FAILED COUNT | LAST DATA LOAD |
|-----------|--------------|-------------------|--------------|--------------|----------------|
| IV | P2P | M1 | 800 | 401 | 10/25/2020 |
| IV | P2P | M2 | 550 | 1053 | 10/26/2020 |
| IV | P2P | M3 | 1180 | 423 | 10/27/2020 |
| IV | P2P | M4 | 372 | 30 | 10/26/2020 |

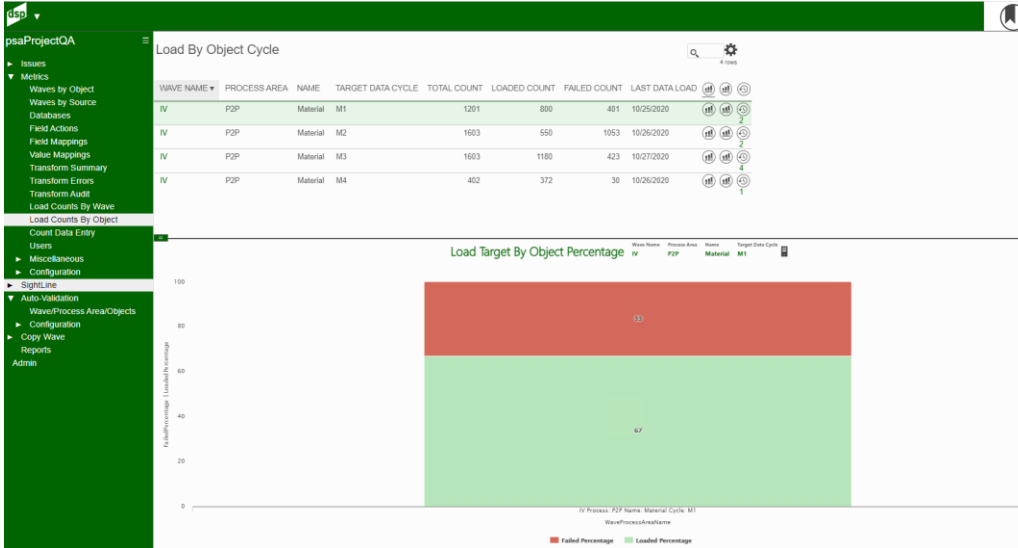
| DATA OBJECT | TARGET EXPORT | TARGET DATA CYCLE | TOTAL COUNT | LOADED COUNT | FAILED COUNT | ACTION ON | USE FOR COUNT | LOG DATE |
|-----------------|---------------------------------|-------------------|-------------|--------------|--------------|------------------------|---------------|------------------------|
| IV-P2P-Material | tbKNA1_ExportToSAPSel | M3 | 1,201 | 800 | 401 | 10/26/2020 5:37:21 PM | ✓ | 10/26/2020 5:41:00 PM |
| IV-P2P-Material | tbKNA1_ExportToSAPSel | M3 | 1,201 | 1,199 | 2 | 10/27/2020 11:39:05 AM | | 10/27/2020 11:40:00 AM |
| IV-P2P-Material | tbMard_Inventory_ExportToSAPSel | M3 | 402 | 300 | 102 | 10/26/2020 11:57:16 AM | | 10/26/2020 12:02:00 PM |
| IV-P2P-Material | tbMard_Inventory_ExportToSAPSel | M3 | 402 | 380 | 22 | 10/27/2020 11:38:43 AM | ✓ | 10/27/2020 11:40:00 AM |

Image Definitions:

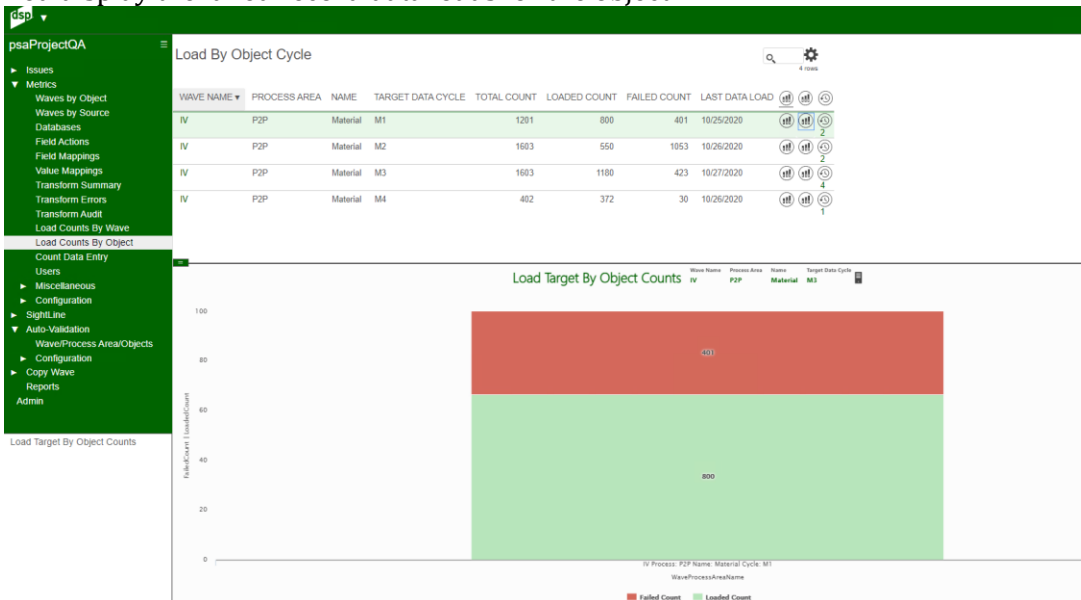
| Image | Description of the process |
|-------|--|
| | Process Load Count to update the Dashboard immediately. The service page will update the dashboard when it is processed. |

Metrics – Load Counts by Object - (Under Metrics)

Load Object Cycle displaying percentage chart with green being successfully loaded and red being failed records. Users can click on the other chart to display record counts or click on details to see the history.



Record counts by object. Green display success data record loads for the object. Red display the failed record data loads for the object.



Details of Object Cycles by action on date.
 Target Export must be unique per Target Data Cycle that are marked USE FOR COUNT on the dashboard per Target Data Cycle.

psaProjectQA


Load By Object Cycle

| WAVE NAME | PROCESS AREA | NAME | TARGET DATA CYCLE | TOTAL COUNT | LOADED COUNT | FAILED COUNT | LAST DATA LOAD | | | |
|-----------|--------------|----------|-------------------|-------------|--------------|--------------|----------------|--|--|--|
| IV | P2P | Material | M1 | 1201 | 800 | 401 | 10/25/2020 | | | |
| IV | P2P | Material | M2 | 1603 | 550 | 1053 | 10/26/2020 | | | |
| IV | P2P | Material | M3 | 1603 | 1180 | 423 | 10/27/2020 | | | |
| IV | P2P | Material | M4 | 402 | 372 | 30 | 10/26/2020 | | | |

Load Count Data History

| Wave Name | Process Area | Name | Target Data Cycle | TOTAL COUNT | LOADED COUNT | FAILED COUNT | ACTION ON | USE FOR COUNT | LOG DATE |
|-----------|--------------|----------|-------------------|-------------|--------------|--------------|------------------------|---------------|-----------------------|
| IV | P2P | Material | M1 | 1,201 | 200 | 1,001 | 10/23/2020 11:49:53 AM | | 10/23/2020 2:42:00 PM |
| IV | P2P | Material | M1 | 1,201 | 800 | 401 | 10/25/2020 5:03:52 PM | ✓ | 10/25/2020 5:07:00 PM |

Image Definitions:

| Image | Description of the process |
|---|--|
|  | Process Load Count to update the Dashboard immediately. The service page will update the dashboard when it is processed. |

Metrics – Count Data Entry - (Under Metrics)

Transform exports will be captured by the service page loaded into this table. Target Export will be shown here each time it is processed and deleted after 7 days if it is not used for count on the Dashboard. Target Data Cycle and Target Export must be unique so files cannot be duplicated in the Target Data Cycle.

Update the LOADED COUNT and FAILED COUNT for the records loaded into Target ERP. Then click the process toolbar to update the Dashboards. Service page will auto update if the user forgets to click process.

| DATA OBJECT | TARGET EXPORT | TARGET DATA CYCLE | TOTAL COUNT | LOADED COUNT | FAILED COUNT | ACTION ON | USE FOR COUNT | LOG DATE |
|-----------------|---------------------------------|-------------------|-------------|--------------|--------------|------------------------|---------------|------------------------|
| IV-P2P-Material | bkNA1_ExportToSAPSel | | 1,201 | | | 10/29/2020 12:46:36 PM | | 10/29/2020 12:47:00 PM |
| IV-P2P-Material | bkNA1_ExportToSAPSel | M1 | 1,201 | 200 | 1,001 | 10/23/2020 11:49:53 AM | | 10/23/2020 2:42:00 PM |
| IV-P2P-Material | bkNA1_ExportToSAPSel | M1 | 1,201 | 800 | 401 | 10/25/2020 5:03:52 PM | ✓ | 10/25/2020 5:07:00 PM |
| IV-P2P-Material | bkNA1_ExportToSAPSel | M2 | 1,201 | 500 | 701 | 10/26/2020 11:58:29 AM | ✓ | 10/26/2020 12:02:00 PM |
| IV-P2P-Material | bkNA1_ExportToSAPSel | M3 | 1,201 | 800 | 401 | 10/26/2020 5:37:21 PM | ✓ | 10/26/2020 5:41:00 PM |
| IV-P2P-Material | bkNA1_ExportToSAPSel | M3 | 1,201 | 1,199 | 2 | 10/27/2020 11:39:05 AM | | 10/27/2020 11:40:00 AM |
| IV-P2P-Material | bmMard_Inventory_ExportToSAPSel | | 402 | | | 10/29/2020 12:46:26 PM | | 10/29/2020 12:47:00 PM |
| IV-P2P-Material | bmMard_Inventory_ExportToSAPSel | M2 | 402 | 50 | 352 | 10/25/2020 5:13:51 PM | ✓ | 10/25/2020 5:18:00 PM |
| IV-P2P-Material | bmMard_Inventory_ExportToSAPSel | M3 | 402 | 300 | 102 | 10/26/2020 11:57:16 AM | | 10/26/2020 12:02:00 PM |
| IV-P2P-Material | bmMard_Inventory_ExportToSAPSel | M3 | 402 | 380 | 22 | 10/27/2020 11:38:43 AM | ✓ | 10/27/2020 11:40:00 AM |
| IV-P2P-Material | bmMard_Inventory_ExportToSAPSel | M4 | 402 | 372 | 30 | 10/26/2020 5:40:36 PM | ✓ | 10/26/2020 5:41:00 PM |

Image Definitions:

| Image | Description of the process |
|-------|---|
| | Process Load Cycle updates for charts now instead of waiting for the service page to run daily. |

Metrics – User Metric Launch - (Under Metrics)

User metrics are designed to measure how many times a user logs-in per day. These stats can be misleading for two reasons. First, if the user is active all day, it may only show one log-in because there were no timeouts between a user clicking action buttons on the screen. Second, when a background processing job runs, it will create a new log-in for the user who clicked a process. If a user runs 30 Targets in Transform, it will count all those as log-ins to the systems. Therefore, you may see one log-in and a lot of mapping work. You may see 120 log-ins because they were running a series of Transform Targets, and perhaps doing other work. If you see no log-ins, it means they did not access DSP for that day. They may have done SQL SERVER development, Data Services Development or something else that day.

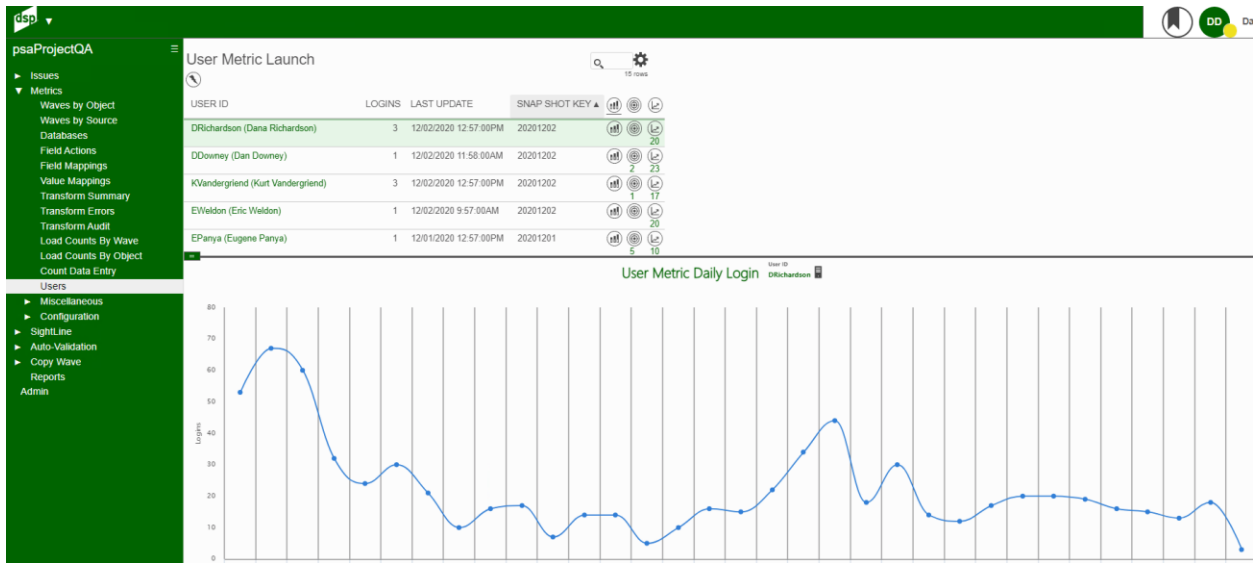


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Process User Metrics update now instead of waiting for the service page to run daily. |
| | Line chart displaying log in counts for the user by day. |
| | Targets assigned to the user to work on. |
| | User metrics history by day, week or month. |

User will show last log-in and the targets they have been assigned to work on. These values are loaded from Target Developers in Target Design. Click the process image to update the statistics by a batch job that will run for a few minutes. The last image will display the metric history showing Daily, Weekly and Monthly stats.

User Metric Launch

| USER ID | LOGINS | LAST UPDATE | SNAP SHOT KEY |
|---------------------------|--------|-----------------------|---------------|
| DDowney (Dan Downey) | 1 | 12/02/2020 11:58:00AM | 20201202 |
| AMcMackin (Adam McMackin) | 2 | 12/01/2020 10:58:00AM | 20201201 |
| EPanya (Eugene Panya) | 1 | 12/01/2020 12:57:00PM | 20201201 |
| LRich (Larry Rich) | 6 | 11/30/2020 8:58:00AM | 20201130 |
| MDoucet (Manuel Doucet) | 2 | 11/24/2020 9:58:00AM | 20201124 |

Transform Object Target User list

| WAVE NAME | PROCESS AREA | NAME | TARGET | USER ID | PRIMARY DATABASE | SOURCES | SOURCE RULE | SOURCE RULES | TARGET RULE | TARGET RULES | TARGET REPORT AUTO | TARGET REPORTS | LAST UPDAT |
|-----------|--------------|----------|--------|-----------------------|------------------|---------|-------------|--------------|-------------|--------------|--------------------|----------------|----------------------|
| Eugene | MDM Customer | Material | ttMAKT | EPanya (Eugene Panya) | dswEugene | 2 | 15 | 25 | 3 | 3 | 8 | 8 | 12/02/2020 1:59:00AM |
| Eugene | MDM Customer | Material | ttMARM | EPanya (Eugene Panya) | dswEugene | 3 | 48 | 58 | 4 | 4 | 8 | 8 | 12/02/2020 1:59:00AM |
| Eugene | MDM Customer | Material | ttMARA | EPanya (Eugene Panya) | dswEugene | 20 | 412 | 422 | 4 | 7 | 123 | 123 | 12/02/2020 1:59:00AM |
| EugeneV2 | MDM Customer | Customer | ttADR6 | EPanya (Eugene Panya) | dswEugeneV2 | 2 | 19 | 29 | 3 | 3 | 8 | 8 | 12/02/2020 1:59:00AM |
| EugeneV2 | MDM Customer | Customer | ttQNA1 | EPanya (Eugene Panya) | dswEugeneV2 | 4 | 28 | 38 | 3 | 3 | 8 | 8 | 12/02/2020 1:59:00AM |

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Process the user Login counts now. This process runs every couple of hours by default. |

Metrics – Field Mapping Gate - (Under Metrics Configuration Sub Menu)

Field Mapping Gate page coexists with the page in Console 7.3 or lower; and it replaces it with Console 7.4 or higher.

Users must select Wave and Process Area, enter Gate Name, Target Date and Target Percentage. Field Mapping counts all actions mapped with a valid action. Not Used action must be entered for all active fields with no business requirements to get the percentages to 100%.

The counts and percentage are calculated when the service page is executed within the Map application.

Gate Metrics will stop being calculated when the current day is greater than the Gate Date.

| PROCESS AREA | GATE NAME | GATE DATE | GATE PERCENTAGE | MAPPING PERCENT COMPLETE | MAPPING COMPLETED | MAPPING TOTAL | FIELD ACTIVE | FIELD TOTAL | LAST UPDATE DATE |
|--------------|-----------|-----------|-----------------|--------------------------|-------------------|---------------|--------------|-------------|----------------------|
| IV - P2P | IV Mock1 | 4/27/2022 | 20 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |
| IV - P2P | IV Mock 2 | 9/13/2022 | 95 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |
| IV - P2P | IV Mock 3 | 7/21/2023 | 100 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |

| PROCESS AREA | GATE NAME | GATE DATE | GATE PERCENTAGE | MAPPING PERCENT COMPLETE | MAPPING COMPLETED | MAPPING TOTAL | FIELD ACTIVE | FIELD TOTAL | LAST UPDATE DATE |
|--------------|-----------|-----------|-----------------|--------------------------|-------------------|---------------|--------------|-------------|----------------------|
| IV - P2P | IV Mock1 | 4/27/2022 | 20 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |
| IV - P2P | IV Mock 2 | 9/13/2022 | 95 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |
| IV - P2P | IV Mock 3 | 7/21/2023 | 100 | 99 | 224 | 226 | 226 | 692 | 6/7/2021 11:59:00 PM |

Metrics – Value Mapping Gate - (Under Metrics Configuration Sub Menu)

Value Mapping Gate page coexists with the page Console 7.3 or lower; and it replaces it in Console 7.4 or higher.

Users must select Wave and Process Area, enter Gate Name, Target Date and Target Percentage. The percentages are counting the number of XREF values that have been mapped from Source Value to Target Value.

The counts and percentage are calculated when the service page is executed within the Map application.

Gate Metrics will stop being calculated when the current day is greater than the Gate Date.

| WAVE | GATE NAME | GATE DATE | GATE PERCENTAGE | PERCENT COMPLETE | CHECK TABLE TOTAL | SOURCE TOTAL | LAST UPDATE DATE |
|------|-------------|-----------|-----------------|------------------|-------------------|--------------|------------------|
| IV | Value Mock1 | 5/3/2022 | 50 | 74 | 1 | 1 | 6/7/2021 |
| IV | Mock 2 | 8/31/2022 | 80 | 74 | 1 | 1 | 6/7/2021 |

| WAVE | GATE NAME | GATE DATE | GATE PERCENTAGE | PERCENT COMPLETE | CHECK TABLE TOTAL | SOURCE TOTAL | LAST UPDATE DATE |
|----------|--------------|------------|-----------------|------------------|-------------------|--------------|------------------|
| AdamTest | Mock 1 | 7/31/2021 | 33 | 100 | | | |
| AdamTest | Mock 2 | 10/29/2021 | 60 | 100 | | | |
| AdamTest | Mock 3 | 12/31/2021 | 100 | 100 | | | |
| C53ToDSP | VALUE MOCK 1 | 5/31/2018 | 50 | 100 | | | |
| C53ToDSP | VALUE MOCK 2 | 10/31/2018 | 100 | 100 | | | |
| IV | Value Mock1 | 5/3/2022 | 50 | 74 | 1 | 1 | 6/7/2021 |
| IV | Mock 2 | 8/31/2022 | 80 | 74 | 1 | 1 | 6/7/2021 |
| Lewis | MyFirstGate | 7/20/2021 | 50 | 100 | | | |
| Lewis | MockLoad | 9/30/2021 | 90 | 100 | | | |
| Lewis | GoLive | 12/1/2021 | 100 | 100 | | | |

Metrics – Wave Admin - (Under Metrics Configuration Sub Menu)

Wave Admin web page will display wave activity Metric application and show missing Gate metrics. If the Active is checked, the stats will be processed for this database. The delete button will remove all stats for the wave in the database.

The screenshot shows the 'Wave Admin' configuration page. On the left is a green navigation menu with options like 'Issues', 'Metrics', 'Waves by Object', 'Databases', 'Field Actions', 'Field Mappings', 'Value Mappings', 'Transform Summary', 'Transform Errors', 'Transform Audit', 'Load Counts By Wave', 'Load Counts By Object', 'Count Data Entry', 'Users', 'Miscellaneous', and 'Configuration'. The 'Wave Admin' option is highlighted. The main area displays a table with the following columns: WAVE NAME, ACTIVE, COMMENTS, FIELD MAPPING, FIELD ACTION, VALUE MAPPING, TRANSFORM, MISSING FIELD GATE, and MISSING VALUE GATE. The table contains 20 rows of wave configurations, with the 'Educate' row highlighted in green. Each row includes an edit icon, a checkbox for 'ACTIVE', and various status icons (checkmarks and 'X' marks) in the other columns.

| WAVE NAME | ACTIVE | COMMENTS | FIELD MAPPING | FIELD ACTION | VALUE MAPPING | TRANSFORM | MISSING FIELD GATE | MISSING VALUE GATE |
|------------|-------------------------------------|----------|---------------|--------------|---------------|-----------|--------------------|--------------------|
| AdamTest | <input checked="" type="checkbox"/> | | | | | | ✗ | |
| Address | <input checked="" type="checkbox"/> | | | | | ✓ | ✗ | ✗ |
| AddrServer | <input type="checkbox"/> | | | | ✓ | | | |
| CS3toDSP | <input type="checkbox"/> | | | | | | | |
| CARS4 | <input checked="" type="checkbox"/> | | | ✓ | | ✓ | ✗ | ✗ |
| DataFilter | <input checked="" type="checkbox"/> | | | | ✓ | ✓ | ✗ | ✗ |
| DSPONHANA | <input checked="" type="checkbox"/> | | | | ✓ | ✓ | ✗ | ✗ |
| Educate | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| EducateDan | <input checked="" type="checkbox"/> | | | | | | ✗ | |
| Eugene | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| EugeneV2 | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| EW | <input checked="" type="checkbox"/> | | | | | | ✗ | ✗ |
| Harmonize | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| InMemory | <input checked="" type="checkbox"/> | | | | ✓ | ✓ | ✗ | ✗ |
| IV | <input checked="" type="checkbox"/> | | ✓ | ✓ | ✓ | ✓ | | |
| JFS_Test1 | <input checked="" type="checkbox"/> | | | | | | ✗ | ✗ |
| Kimble | <input checked="" type="checkbox"/> | | | | | | ✗ | ✗ |
| Lewis | <input checked="" type="checkbox"/> | | | | | | ✗ | |
| Manuel | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| MDM | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| Mike | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| MJ | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| MJ02 | <input checked="" type="checkbox"/> | | | | | | ✗ | ✗ |
| psaAutoVal | <input checked="" type="checkbox"/> | | ✓ | | ✓ | ✓ | ✗ | ✗ |
| Relevancy | <input checked="" type="checkbox"/> | | | | | | ✗ | |
| SI4HANA | <input checked="" type="checkbox"/> | | | | | | ✗ | ✗ |

Image Definitions:

| Image | Description of the process |
|-------|-----------------------------------|
| | Remove the metrics for this wave. |

Metrics – Database Admin - (Under Metrics Configuration Sub Menu)

Database Admin page will show all databases found in Wave-Process Area-Object configuration. It will track metrics on the changes made to the objects for each database. The database can be made inactive and the Delete image on the toolbar will remove the entry and all metrics for it.

The screenshot shows the 'Database Admin' interface. At the top, there's a search bar and a settings icon. Below that is a table with columns: DATABASE, ACTIVE, LAST UPDATE, and COMMENTS. The table lists several databases like 'dswFICOMMasterData', 'dswHarmonization', etc. Below this is a 'Database Object Details' section for the 'dswHarmonization' database, showing a table with columns: DATABASE, OBJECT NAME, TYPE, USED IN FIELD RULE, CREATE DATE, LAST UPDATE, DELETED IND, and ACTIVITY IND. The table lists various objects like 'AddressSource', 'baoGetMatchWordCount', etc.

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Remove the metrics for this database. |
| | All SQL server objects developed in the database. |
| | Database metrics for SQL SERVER objects by Day, by Week and by Month. |
| | Targets assigned to this database. |
| | Developers assigned to work on the Transform Targets that use this database. |

Metrics – Load Target Cycle Dates - (Under Metrics Configuration Sub Menu)

Building Target Cycles Dates from the beginning must start on this page. DSP 7.4.X will support reading the Load Cycles from Console.

LOAD ALL Process Areas execution will work for a Target Data Cycle and Target date if the Data Cycle and Target Dates have been entered for a single row.

Load Wave will add all missing Process Areas to all the Load Data Cycle to the table. The first row will be used as a Template for all other process areas.

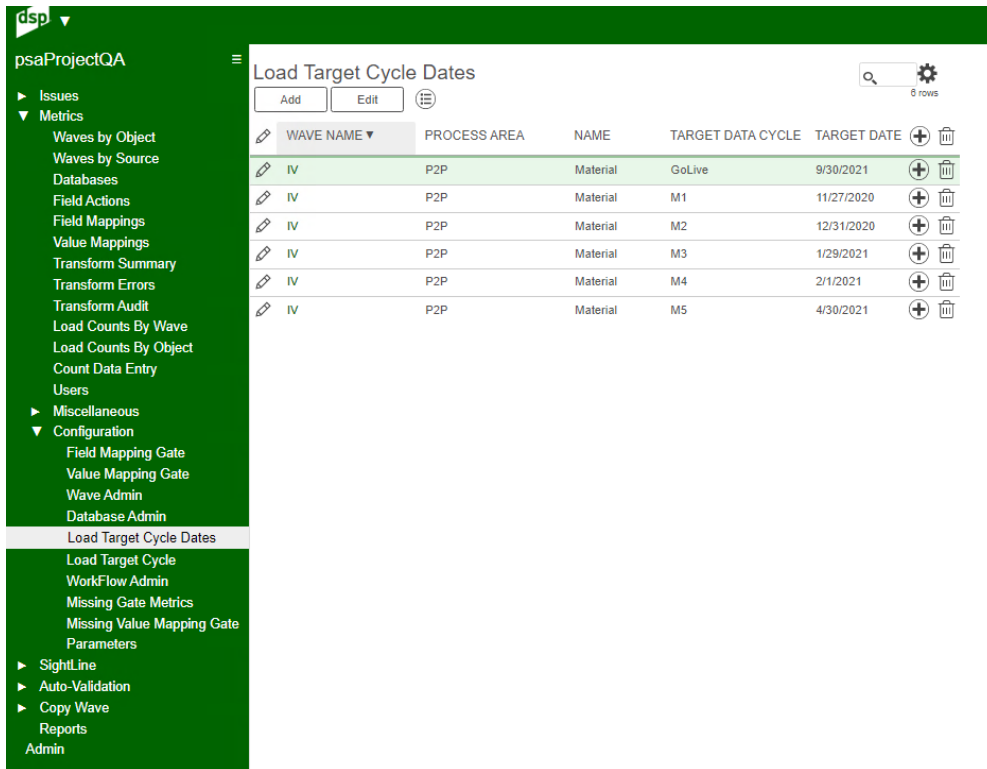


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Load all the Process Areas and Target Data Cycle for current wave. |
| | Load all Target Cycles for select Wave and Process area |

Metrics – Load Target Cycle (Under Metrics Configuration Sub Menu)

Load Target Process Area will display waves and process areas with Target Data Cycles and Target Dates.

Child binding on the child page will prevent adding more Target Cycles from being added but the LOAD ALL Process Areas execution will work for a Target Data Cycle and Target date.

Load Wave will add all missing Process Areas to all the Load Data Cycle to the table.

The screenshot shows two application screens. The top screen, 'Load Target Process Area', displays a table with columns: WAVE NAME, PROCESS AREA, TARGET DATA CYCLE, and TARGET DATE. It lists five rows of data for wave IV and process area P2P, with target dates ranging from 9/30/2021 to 4/30/2021. The bottom screen, 'Load Target Cycle Dates', shows a table with columns: WAVE NAME, PROCESS AREA, NAME, TARGET DATA CYCLE, and TARGET DATE. It contains one row for wave IV, process area P2P, and name 'Material', with a target date of 9/30/2021. Both screens include search and settings icons.

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Load all the Process Areas and Target Data Cycle for current wave. |
| | Load all Target Cycles for select Wave and Process area |

Metrics – Workflow Admin - (Under Metrics Configuration Sub Menu)

Report Admin will create XLSX dashboards via Automate Interface. This interface will run file commands and CranPort to update XLSX data sheets for the graphs. This page will allow users to be assigned and create the files on a scheduled basis.

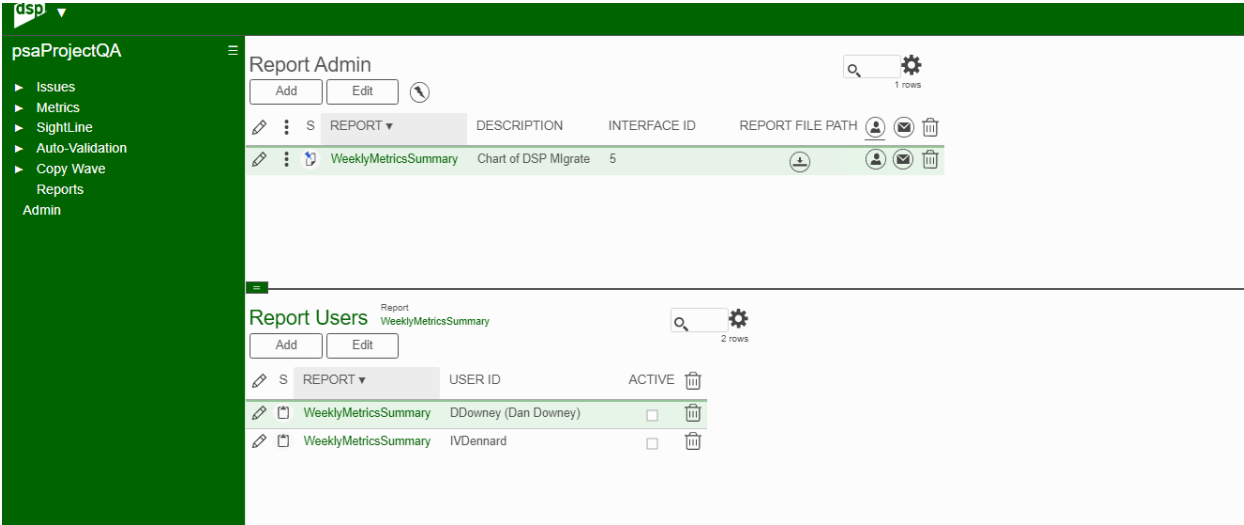


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Process Report to generate a dashboard and email it to the group. |
| | Download the last file generated for the charts and sent to the user group. |
| | Users assigned to receive the workflow. |
| | History of all workflow records set to the users. |

Metrics - Parameter - (Under Metrics Configuration Sub Menu)

Parameter page will give options on the number of days to maintain the metrics of the project. There is a Date option to display some dates in European format.

| UPDATE LOAD COUNTS | EUROPE DATE FORMAT | DAILY RETENTION IN DAYS | WEEKLY RETENTION IN DAYS | MONTHLY RETENTION IN DAYS | DAILY DISPLAY DAYS | WEEKLY DISPLAY DAYS | MONTHLY DISPLAY DAYS | FILE DATA SOURCE ID | WORKFLOW PROCESS DATETIME |
|--------------------|--------------------|-------------------------|--------------------------|---------------------------|--------------------|---------------------|----------------------|----------------------|---------------------------|
| ▼ | ✓ | 40 | 71 | 180 | 12 | 45 | 190 | cMap_Design_FilePath | |

Metrics – Missing Gate Metrics - (Under Metrics Configuration Sub Menu)

Page displays all waves missing in Field Mapping Gate metrics. This page is READ ONLY and is displayed as a missing image on the Wave Admin page.

This process has been removed in Console starting with DSP 7.4.x. It is now visible in the Metrics Configuration menu.

The screenshot shows the 'Missing Gate Metrics' page in the Syniti console. The page title is 'Missing Gate Metrics' and it indicates there are 31 rows. The table below lists the metrics:

| NAME | PROCESS AREA | WAVE DESCRIPTION | PROCESS AREA DESCRIPTION |
|------------|-----------------|---|-------------------------------------|
| Address | Cleanse | psaAddress: Global Address Verification Service | Cleanse Address |
| AddrServer | AddressServer | AddrServer Initial converted wave | AddressServer |
| CARS4 | OTC | Car S4 HANA Migration | Order To Cash |
| CARS4 | VMS | Car S4 HANA Migration | Vehicle Management Systems |
| CARS4 | BP | Car S4 HANA Migration | Business Partner |
| CARS4 | RTR | Car S4 HANA Migration | Record To Report |
| CARS4 | BW | Car S4 HANA Migration | Business Warehouse |
| CARS4 | PTM | Car S4 HANA Migration | Plan to Manufacture |
| CARS4 | PTP | Car S4 HANA Migration | Procure To Pay |
| Central | Relevancy | Relevancy / Cross Ref / Reusable Code | Business Relevancy Pre-Processing |
| DataFilter | FilteringReport | Data Filtering | Filtering Reports |
| DSPOnHANA | FICOMasterData | DSP On Hana | Finance and controlling Master Data |
| DSPOnHANA | Customer | DSP On Hana | Customer Master |
| Educate | Performance | Performance Test baseline versus simple dynamic sql | Performance Tests |
| Eugene | MDM Customer | Build a Wave (MARA, MAKT & MARM) | Customer Master |
| EugeneV2 | MDM Customer | Build a Wave (KNA1 & ADR6) | Customer Master |
| EW | Harmonization | Eric Test - Harmonization | Harmonization |
| Harmonize | Solution | psaHarmonization | Harmonize Solution |
| InMemory | MDM Customer | SQL InMemory Test | Customer Master |
| JFS_Test1 | Customer Master | psaSAPConfiguration Test 1 - JSanders | Customer Master Data |
| Manuel | AddressServer | Wave for Testing | AddressServer |
| Manuel | MDM Customer | Wave for Testing | Customer Master |
| MDM | Vendor | psaHarmonization | Vendor Master |
| MDM | MDM Customer | psaHarmonization | Customer Master |
| Mike | MDM Customer | Wave for testing | Customer Master |
| MJ | MDM Customer | MJ - Wave setup test01 | Customer Master |

Metrics – Missing Value Mapping Gate - (Under Metrics Configuration Sub Menu)

Page displays all waves missing in Value Mapping Gate metrics. This page is READ ONLY and is displayed as a missing image on the Wave Admin page.

This process has been removed in Console starting with DSP 7.4.x. It is now visible in the Metrics Configuration menu.

psaProjectQA

Missing Value Mapping Gate

23 rows

| NAME | DESCRIPTION |
|------------|---|
| Address | psaAddress: Global Address Verification Service |
| AddrServer | AddrServer Initial converted wave |
| CARS4 | Car S4 HANA Migration |
| Central | Relevancy / Cross Ref / Reusable Code |
| DataFilter | Data Filtering |
| DSPonHANA | DSP On Hana |
| Educate | Performance Test baseline versus simple dynamic sql |
| Eugene | Build a Wave (MARA, MAKT & MARM) |
| EugeneV2 | Build a Wave (KNA1 & ADR6) |
| EW | Eric Test - Harmonization |
| Harmonize | psaHarmonization |
| InMemory | SQL InMemory Test |
| JFS_Test1 | psaSAPConfiguration Test 1 - JSanders |
| Kimble | Kimble Migration |
| Manuel | Wave for Testing |
| MDM | psaHarmonization |
| Mike | Wave for testing |
| MJ | MJ - Wave setup test01 |
| MJ02 | MJ - Wave setup test02 |
| psaAutoVal | psaAutoValidate Test |
| S/4HANA | S/4HANA |
| S4HANA | Migrate to S4HANA (Syniti) |
| SAPToWD_HR | SAP to WorkDay HR |

SightLine – Sightline Base (DocIt) - (Under Sightline)

Sightline starts with a Wave ID. Click add and select a wave to start documenting the process and tracking the executions.

Each wave has two buttons:

- 1) DocIt for building out the steps for documentation.
- 2) TrackIt for tracking the execution of the steps for documentation.
- 3) Click DocIt to open the child page of DocIt PM Migrate
- 4) Click the add to enter a Process Area, Object, Tier and person responsible
- 5) Click the Steps Image to start adding tasks to the process
- 6) Click the Notes Image to add some notes to the DocIt entry selected.
- 7) When process completed, Run the TrackIt when the object is ready for Mock Load or Go Live








After adding the Process Area, Click on Migration Steps to list each component in the execution.

The screenshot displays the Syniti application interface. On the left is a green navigation sidebar with the following menu items: Issues, Metrics, SightLine (expanded), SightLine - Base, Configuration, Auto-Validation, Copy Wave, Reports, and Admin. The main content area is split into two sections. The top section, titled 'SightLine - Base', contains a table with columns for 'WAVE NAME', 'OBJECT NAME', 'TIER', and 'PERSON RESPONSIBLE'. The bottom section, titled 'DocIt - PM Migrate', shows a table with columns for 'PROCESS AREA NAME', 'OBJECT NAME', 'TIER', 'PERSON RESPONSIBLE', and 'ACTIVE'. The 'ACTIVE' column contains icons for 'ACTIVE', 'STOP', and 'DELETE'.

| WAVE NAME | OBJECT NAME | TIER | PERSON RESPONSIBLE |
|-----------|-------------|------|--------------------|
| DSPOnHANA | | | |
| Educate | | | |
| Eugene | | | |
| S/4HANA | | | |

| PROCESS AREA NAME | OBJECT NAME | TIER | PERSON RESPONSIBLE | ACTIVE |
|-------------------|-----------------------|-----------|----------------------|--------|
| OTC | Customer Master | 1: Tier 1 | Henry Minich | 3 1 |
| P2P | Vendor Master | 1: Tier 1 | Natalie James Dunlap | 9 |
| P2P | Purchase Info Records | 2: Tier 2 | | 2 |
| PTP | Delta Vendor | 2: Tier 2 | Andrew Lund | 9 |

Image Definitions:

| Image | Description of the process |
|---|---|
|  | DocIt PM Migration – Manage process areas and tasks |
|  | TrackIt PM Base – Track process areas and tasks by load cycle. |
|  | Update Object will default some steps if there are not any there. |
|  | Document Steps for the process area |
|  | Notes for the Steps for processing the process area |
|  | Generate Report with all Process Area Tasks. This will build an htm file with detail tasks. |
|  | Download the report to user’s personal machine. Download htm file about the Process Area. |

SightLine –Doct – Migration Steps - (Access from Sightline Base)

Enter all the tasks for this Migration Step.

The Pre-populate will load some default tasks into the page.

Copy Step will insert the current step as the next step for a user to make adjustments.

Enter Migration Notes for more details on each step.

All the list boxes are controlled elements under the configuration menu.

A configuration bar containing several dropdown menus, each with "[Choose one]" as the selected option. There are also some empty text input fields and a search icon on the right.

The screenshot shows the 'Doct - Migration Steps' interface. It includes a navigation sidebar on the left with options like 'Issues', 'Metrics', 'SightLine', 'SightLine - Base', 'Configuration', 'Auto-Validation', 'Copy Wave', 'Reports', and 'Admin'. The main area displays a table of migration steps with columns for Priority, Generic Step, App, App Action, App Action Subtarget, App Action Target, Person Responsible, Hour Estimate, and Minute Estimate. Below this is the 'Doct - Migration Notes' section, which shows a table with columns for Steps Identity Field, Wave Name, Process Area Name, and Object Name. A single note is visible: '1 Capture Processing counts and validate against load counts'.

Image Definitions:

| Image | Description of the process |
|--------------|---|
| | Notes for the Steps for processing the process area |
| Pre-Populate | Insert some default tasks into the Migration Steps |
| Copy Step | Insert the current step as the next step and let a user make some adjustments to the next step. |

SightLine – Sightline Base (TrackIt PM Base) - (Under Sightline)

TrackIt PM Base will track progress as a user marked it complete.

This page provides 3 ways to look at the steps.

- 1) Details show a list of all steps for the Wave – Load Cycle
- 2) Process area will show a list of steps for the Wave – Load Cycle by Process area
- 3) Tier will show a list of steps for the Wave – Load Cycle by Tiers

The InProgress and Complete flag are manually set to show which ones are in progress and which ones have been completed.

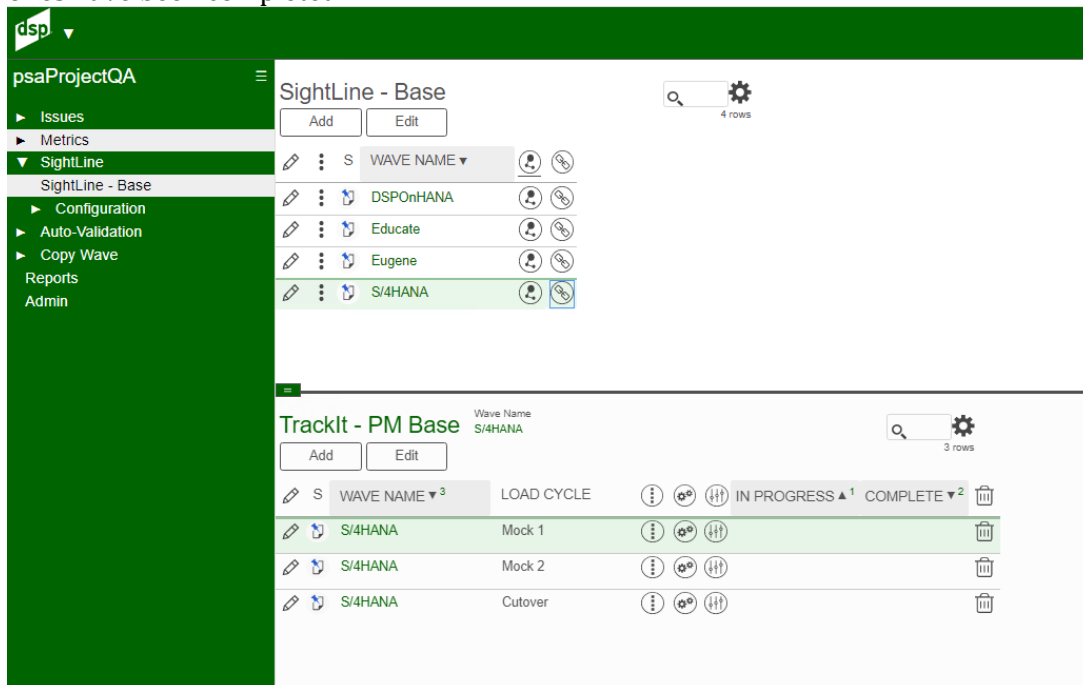


Image Definitions:

| Image | Description of the process |
|-------|---|
| | TrackIt Load cycle with all step details. |
| | TrackIt Load cycle steps by process area. |
| | TrackIt Load cycle steps by Tier. |

SightLine – TrackIt – PM Migrate - (From TrackIt PM Base)

Click Details on the TrackIt main page to see the status of each step.

There is a REFRESH ALL to update all the steps.

There is a REFRESH to update the current step that is highlighted.

NO UPDATES CAN BE ENTERED ON THIS PAGE!

Click the TrackIt image to update the selected step and its processing status.

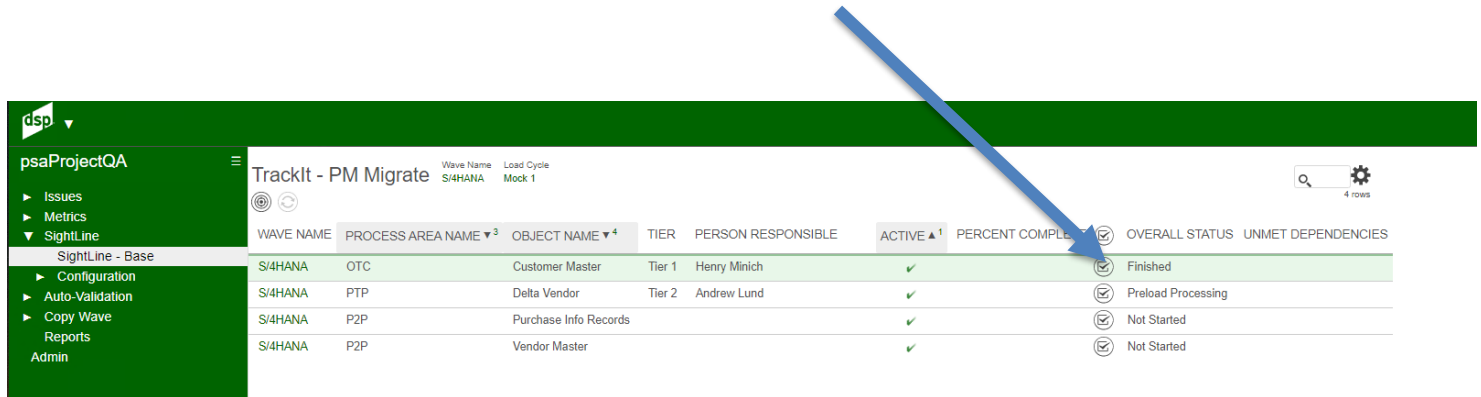


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Refresh All steps status |
| | Refresh the current step status |
| | Click Status Image to open TrackIt Migration Steps Base View |
| | Unmet Dependencies are still outstanding |

SightLine –TrackIt – Migrate Steps Base View - (From PM Migrate)

In-Process Image will open the page for all the steps to be processing.

Completed Image will open the completed steps that can be reset if one has to be reprocessed.

Unmet Dependencies will display all Unmet dependencies for the next step to continue.

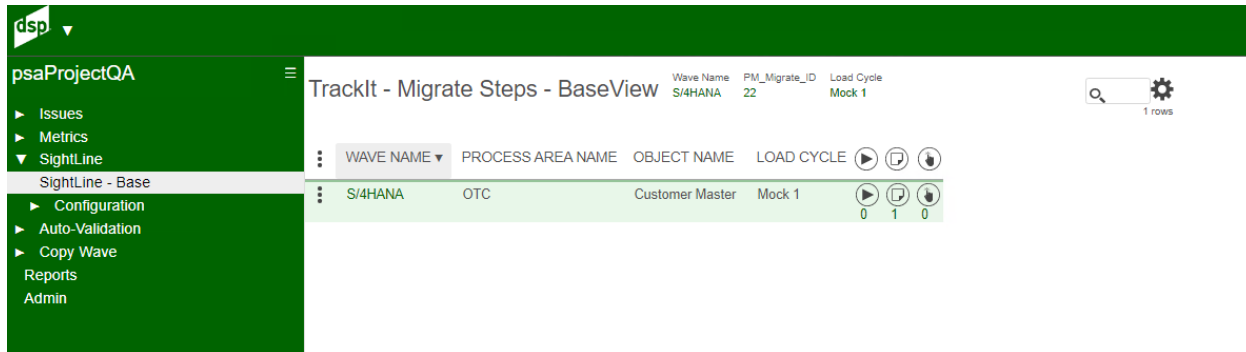


Image Definitions:

| Image | Description of the process |
|-------|------------------------------------|
| | Go to In Process Steps |
| | Go to Completed Steps |
| | Go to a list of Unmet Dependencies |

SightLine – TrackIt – Migrate Steps in Process - (From Migrate Steps Base View)

List of steps that are in processing mode by the team.

Click the Status Image to flip the process from Stage to In-Processing

Click the Completed Image to make the step completed.

Any column with the exclamation mark is critical for the processing.

| S | PRIORITY | CRITICALITY | GENERIC STEP | TASK | PERSON RESPONSIBLE | TIME ESTIMATE | ENVIRONMENT |
|-------------------------------------|----------|-------------|--------------|--|--------------------|---------------|-------------|
| <input type="checkbox"/> | 1 | | Dependency | | | | |
| <input checked="" type="checkbox"/> | 20 | ! | Load | | | | |
| <input type="checkbox"/> | 40 | ! | Postload | Using Collect, refresh table LFA1 (dgSAP : SAP_S4H). | | | Load ADM |
| <input type="checkbox"/> | 50 | ! | Postload | Using Transform, process target ttLFA1_Postload (P2P : Vendor Master). | | | Load ADM |
| <input type="checkbox"/> | 60 | ! | Postload | Using Transform, process target ttLFB1_Postload (P2P : Vendor Master). | | | Load ADM |
| <input type="checkbox"/> | 70 | ! | Postload | Using Transform, process target ttLFM1_Postload (P2P : Vendor Master). | | | Load ADM |
| <input type="checkbox"/> | 80 | ! | Postload | Using Transform, process target ttLFBK_Postload (P2P : Vendor Master). | | | Load ADM |

Image Definitions:

| Image | Description of the process |
|-------------------------------------|--|
| <input type="checkbox"/> | (S Column) First column will change from Ready to Processing by clicking on it |
| <input checked="" type="checkbox"/> | Mark the Step as completed. |

SightLine – TrackIt – Migrate Steps Complete - (From Migrate Steps Base View)


List of steps that have been completed by the team working on the TrackIt process.

Click the reset button to send the steps back to In-Process mode.

Any column with the exclamation mark is critical for the processing.



Image Definitions:

| Image | Description of the process |
|---|--|
|  | Reset the Step and move it back to In Process. |

SightLine – TrackIt – Migrate Steps - Unmet Dependencies - (From Migrate Steps Base View)

List of steps that have not been completed for the process.

Click the Status Image to flip the process from Stage to In-Processing

Click the Completed Image to make the step completed.

Any column with the exclamation mark is critical for the processing.

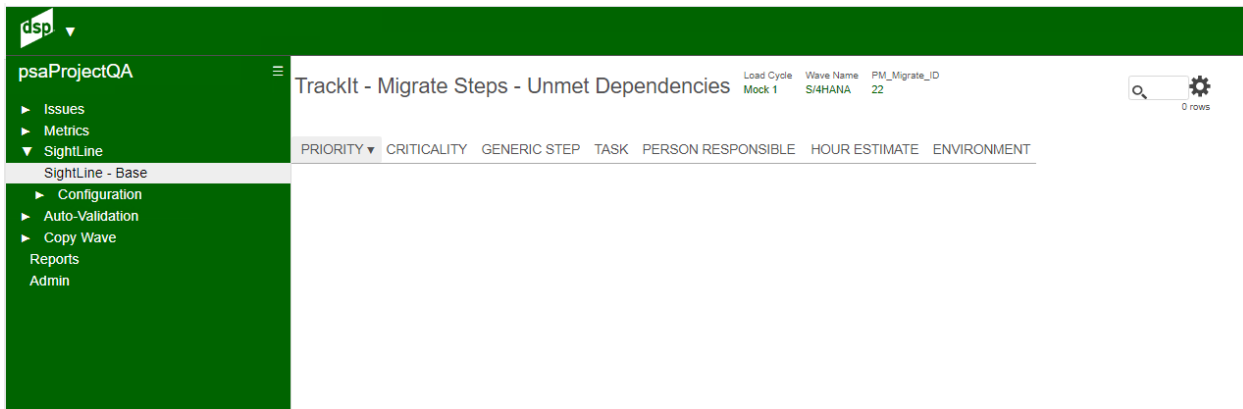


Image Definitions:

| Image | Description of the process |
|-------|--|
| | (S Column) First column will change from Ready to Processing by clicking on it |
| | Mark the Step as completed. |

SightLine – TrackIt – PM Migrate - ProcessAreaView - (From TrackIt – PM Base)

TrackIt by Process Area to review steps in each Process Area – Objects.

Click the Status Image on the Objects page to open the Migrate Steps page.

Users can then start marking the steps completed or reset them.

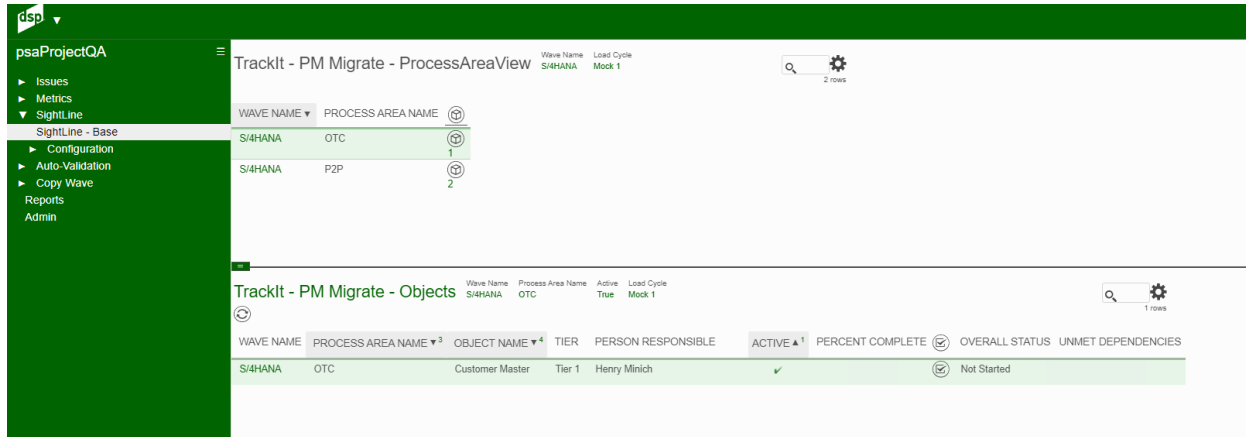


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Objects within this process area that have steps. |
| | Refresh the current step status |
| | Click Status Image to open TrackIt Migration Steps Base View |
| | Unmet Dependencies are still outstanding |

SightLine – TrackIt – PM Migrate - TierView - (From TrackIt – PM Base)

TrackIt by Tier to review steps in each Process Area – Objects.

Click the Status Image on the Objects page to open the Migrate Steps page.

Users can then start marking the steps completed or reset them.

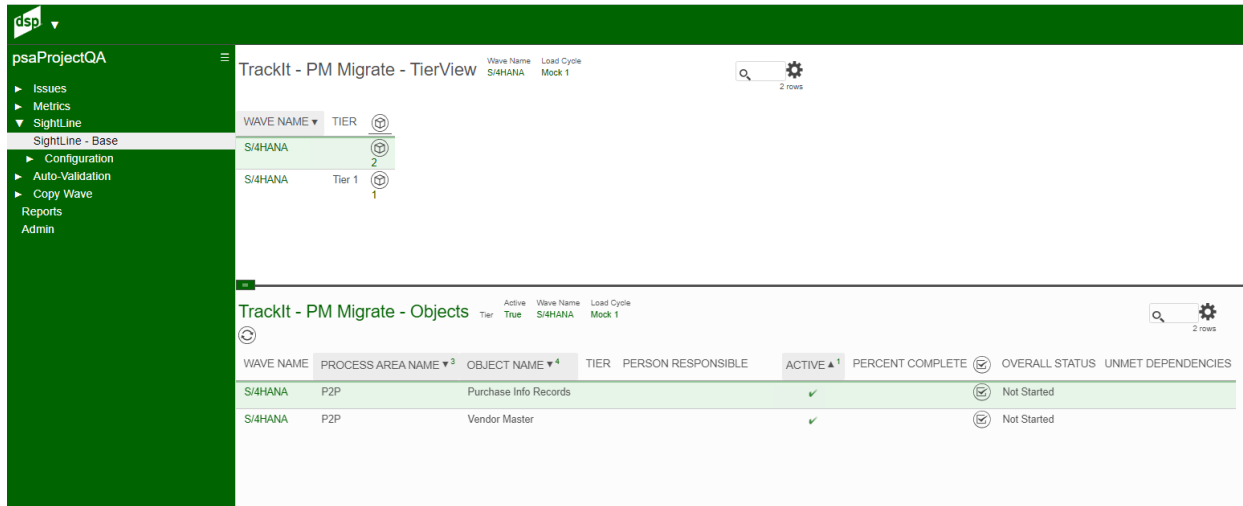


Image Definitions:

| Image | Description of the process |
|-------|--|
| | Process Area and Objects by Tier |
| | Refresh the current step status |
| | Click Status Image to open TrackIt Migration Steps Base View |
| | Unmet Dependencies are still outstanding |

SightLine – Doct App - (Under Sightline Configuration Sub Menu)

Doct – Applications that will be used for the document and TrackIt. Applications like Boomi can be added in the future.

The screenshot shows the 'Doct - App' configuration page in the Syniti BackOffice. The left sidebar is dark green with a white navigation menu. The main content area is white with a dark green header. The table below lists various applications with edit and delete icons.

| APP | Z CUSTOM | APP |
|---------------|----------|-----|
| Assemble | | |
| Collect | | |
| Construct | | |
| Data Services | | |
| dspMonitor | | |
| Email | | |
| Excel | | |
| HP-ALM | | |
| Integrate | | |
| psaTransport | | |
| SAP | | |
| Shared Drive | | |
| Sharepoint | | |
| SQL | | |
| Transform | | |

SightLine – Doct App Action - (Under Sightline Configuration Sub Menu)

Doct Applications will perform an action that needs to be captured by the tool. Boomi Ran Jobs may have to be added in the future for some clients.

The screenshot shows the 'Doct - App Action' configuration page. The left sidebar is expanded to 'AppAction'. The main content area has a title 'Doct - App Action' with a search icon and '28 rows' indicator. Below the title are 'Add' and 'Edit' buttons. The table below lists various application actions:

| APP | APP ACTION | Z CUSTOM |
|---------------|----------------------|----------|
| Construct | Download Table Data | |
| Construct | Upload Table Data | |
| Data Services | Run Job | |
| dspMonitor | Run Group | |
| Email | Receive File | |
| Email | Send File | |
| Excel | Save File | |
| HP-ALM | Create Defect | |
| HP-ALM | Execute Script | |
| Integrate | Post Process | |
| psaTransport | Compare Group | |
| psaTransport | Promote Group | |
| SAP | Execute Tcode | |
| Shared Drive | Download File | |
| Shared Drive | Upload File | |
| Sharepoint | Download File | |
| Sharepoint | Upload File | |
| SQL | Run Stored Procedure | |

SightLine – Doct - App Action Sub Target - (Under Sightline Configuration Sub Menu)

Application Action will require additional steps for inserting parameters.

This process documents which actions will require parameters.

Assemble will require CPPackageID to run a package for downloading data.

The screenshot shows the 'Doct - App Action Subtarget Custom Inserts' configuration page. The left sidebar contains a navigation menu with the following items: Issues, Metrics, SightLine, SightLine - Base, Configuration (expanded), App, AppAction, Custom SubTargets (selected), Custom Targets, Collect Targets, Person Responsible Sec, Environment, Load Cycles, Auto-Validation, Copy Wave, Reports, and Admin. The main content area has a title 'Doct - App Action Subtarget Custom Inserts' and two buttons: 'Add' and 'Edit'. Below the buttons is a table with the following data:

| APP | APP ACTION | APP ACTION SUBTARGET |
|--------------|---------------|----------------------|
| APP | APP ACTION | APP ACTION SUBTARGET |
| Assemble | Run Package | |
| Email | Send File | |
| psaTransport | Compare Group | |

Each row in the table has a trash icon on the right. A search bar and a gear icon are visible in the top right corner of the main area, with the text '3 rows' below the gear icon.

SightLine – Doctl - App Action Target - (Under Sightline Configuration Sub Menu)

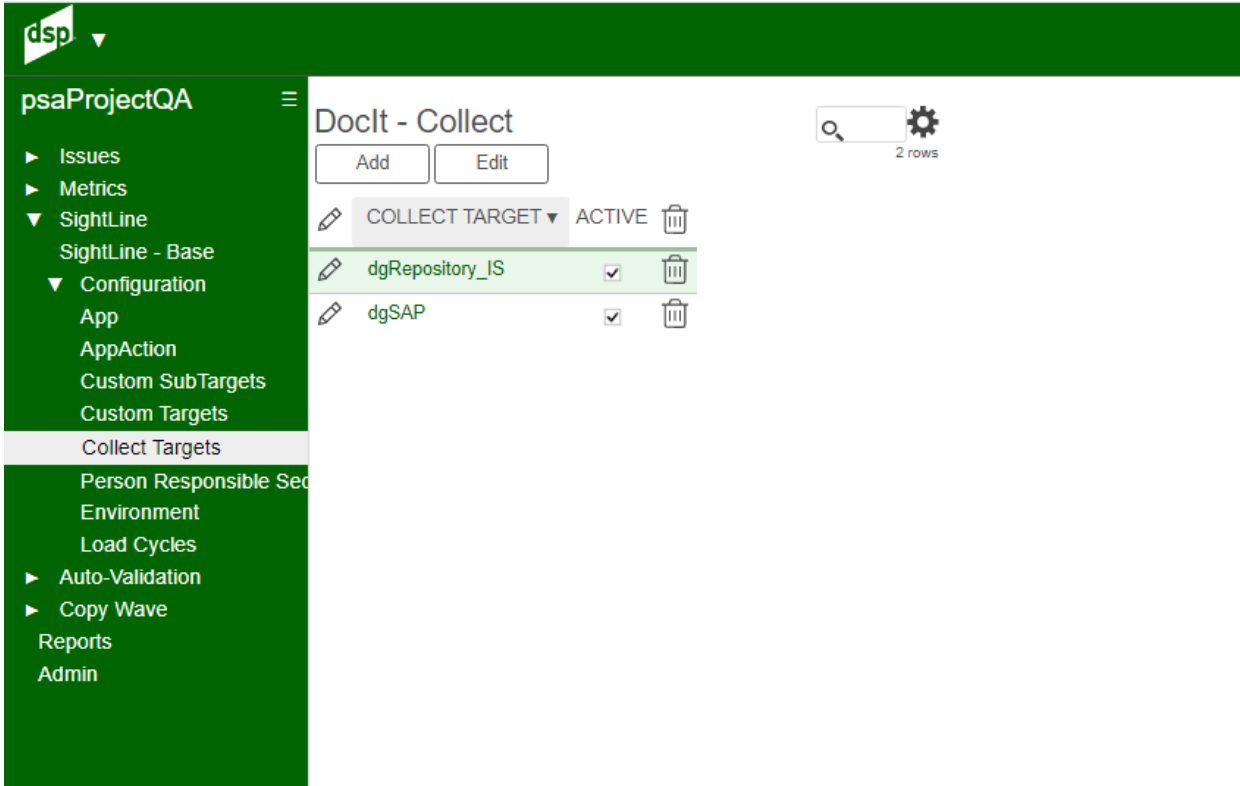
Application Action Targets can download one set of data then start another set or processing steps. This page tracks the ability to start the next Step after this step completes.

The screenshot displays the 'Doctl - App Action Target Custom Inserts' page. On the left is a green sidebar menu for 'psaProjectQA' with the following items: Issues, Metrics, SightLine, SightLine - Base, Configuration (expanded), App, AppAction, Custom SubTargets, Custom Targets, Collect Targets, Person Responsible Sec, Environment, Load Cycles, Auto-Validation, Copy Wave, Reports, and Admin. The main content area has a title 'Doctl - App Action Target Custom Inserts' and a search bar with '3 rows' indicated. Below the title are 'Add' and 'Edit' buttons. A table lists the custom inserts:

| APP | APP ACTION | APP ACTION SUBTARGET | APP ACTION TARGET | |
|--------------|---------------|----------------------|-------------------|--|
| Assemble | Run Package | | Natalie's import | |
| Email | Send File | | list of counts | |
| psaTransport | Compare Group | | Vendor | |

SightLine – Doct - Collect - (Under Sightline Configuration Sub Menu)

Doct will use a list of Collect Targets as part of the tracking of the data through the process. Collect Targets can be added here and then Doct can have a task pointing to this Target & Table.



SightLine – Doctl – Security Role - (Under Sightline Configuration Sub Menu)

Drop Down List of Security Roles used in the application for documenting the steps.

The screenshot displays the 'Doctl - Security Role' configuration interface. On the left is a green sidebar with a navigation menu. The main content area shows a table of security roles. The table has two rows: one for 'SECURITY ROLE NAME' (highlighted in grey) and one for 'Developer' (highlighted in light green). The 'Developer' row has a checked checkbox and a delete icon. Above the table are 'Add' and 'Edit' buttons. In the top right, there is a search bar, a gear icon, and a '1 rows' indicator.

| SECURITY ROLE NAME | ACTIVE | |
|--------------------|-------------------------------------|--|
| Developer | <input checked="" type="checkbox"/> | |

SightLine – Doctl – Environment - (Under Sightline Configuration Sub Menu)

Documentation Tasks for which environment this process is now being built and processing for.

The screenshot shows the 'Doctl - Environment' configuration page in the Syniti BackOffice application. The left sidebar contains a navigation menu with the following items: Issues, Metrics, SightLine (expanded), SightLine - Base, Configuration (expanded), App, AppAction, Custom SubTargets, Custom Targets, Collect Targets, Person Responsible Sec, Environment (selected), Load Cycles, Auto-Validation, Copy Wave, Reports, and Admin. The main content area is titled 'Doctl - Environment' and features 'Add' and 'Edit' buttons. Below these are search and settings icons, with a '4 rows' indicator. A table lists the following environments:

| Environment Name | Status | Actions |
|---------------------|----------|-----------------|
| ENVIRONMENT | Z CUSTOM | [Edit] [Delete] |
| Dev ADM | | [Edit] [Delete] |
| Load ADM | | [Edit] [Delete] |
| special environment | ✓ | [Edit] [Delete] |
| Staging ADM | | [Edit] [Delete] |

SightLine – Doctl – Load Cycles - (Under Sightline Configuration Sub Menu)

Track ID can support and make Load Cycles. This page documents the load cycles for the project.

The screenshot displays the 'TrackIt - LoadCycle' configuration interface. On the left is a green navigation sidebar for 'psaProjectQA' with the following menu items: Issues, Metrics, SightLine (expanded to show SightLine - Base, Configuration, App, AppAction, Custom SubTargets, Custom Targets, Collect Targets, Person Responsible Sec, Environment, and Load Cycles), Auto-Validation, Copy Wave, Reports, and Admin. The 'Load Cycles' item is currently selected.

The main content area is titled 'TrackIt - LoadCycle' and includes 'Add' and 'Edit' buttons. Below these is a table with the following data:

| LOAD CYCLE | LOAD CYCLE ORDER | |
|-----------------|------------------|--|
| Tech Load | 1 | |
| Mock 1 | 2 | |
| Mock 2 | 3 | |
| Mock 3 | 4 | |
| Dress Rehearsal | 5 | |
| Cutover | 6 | |

Additional UI elements include a search bar and a gear icon labeled '6 rows' in the top right corner.

Auto-Validation – Wave Process Area Objects - (Under Auto-Validation)

Wave Process Area Objects should be added here initially or have the AutoGen turned on so reports will be generated as part of building Target Reports.

Image Definitions:

| Image | Description of the process |
|-------|---|
| | Turn on AutoGen of Auto Validation reports when a user creates Target reports. |
| | Turn off AutoGen of Auto Validation reports when a user creates Target reports. |

The screenshot displays two configuration screens in the Syniti BackOffice. The top screen, titled 'Auto-Validate Wave/Process Area/Objects', shows a table with columns for 'DATA OBJECT', 'WAVE NAME', and 'PROCESS AREA'. A single row is visible with 'AutoValTest', 'psaAutoVal', and 'psaValTest'. The bottom screen, titled 'Auto-Validate Targets', shows a table with columns for 'TARGET TABLE', 'AUTO GEN ON', 'NOT BUSINESS READY COUNT', 'NOT TARGET READY COUNT', and 'LAST EXECUTED'. Three rows are visible, including 'tt/Syniti/MARA' with a checkmark in the 'AUTO GEN ON' column.

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Build Validation reports for this target and create post load Target with reports. |
| | Remove Validation reports for this target. (Process does not delete post load Target) |
| | Build Error Aggregate Tables in the associated Object Database. |
| | Build the Error Aggregate Reports and Remediation Rules. |
| | Build the Load Statistics reports. |
| | Reset the Indicators for this Target. |

Auto-Validation – Auto-Validate Report List All Targets - (From Objects)

When Reports are clicked at the Object level, all the reports registered to the Target will appear in the list.

PreLoad Targets will have a different list of rules and reports.

PostLoad Targets are designed to notify the project leader there is a problem in the rules.

| TARGET TABLE | TARGET REPORT | REPORT TYPE | DESCRIPTION | ACTION ON | RECORD COUNT | AUTO VALIDATE | ERROR IND | MESSAGE |
|--|--|------------------|------------------------------------|----------------------|--------------|-------------------------------------|-----------|-------------------------------------|
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | tv/Syniti/MARA_TRAGR_NotInTTGR_SummarySel | Target Readiness | Customer Price Group not in TTGR | 5/28/2021 8:54:19 AM | 2 | <input type="checkbox"/> | ✓ | Primary Keys are not in the Report. |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | tv/Syniti/MARA_BWSQL_NotInTMBW1_SummarySel | Target Readiness | Customer Price Group not in TMBW1. | 5/28/2021 8:54:22 AM | 0 | <input type="checkbox"/> | ✓ | Primary Keys are not in the Report. |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | tv/Syniti/MARA_EKWSL_NotInT405_SummarySel | Target Readiness | Customer Price Group not in T405. | 5/28/2021 8:54:17 AM | 0 | <input type="checkbox"/> | ✓ | Primary Keys are not in the Report. |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | tv/Syniti/MARA_ETIFO_NotInT6WP4_SummarySel | Target Readiness | Customer Price Group not in T6WP4. | 5/28/2021 8:54:24 AM | 0 | <input type="checkbox"/> | ✓ | Primary Keys are not in the Report. |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | tv/Syniti/MARA_PROFIL_NotInTDG41_DetailSel | Target Readiness | Customer Price Group not in TDG41. | 5/28/2021 8:54:52 AM | 0 | <input checked="" type="checkbox"/> | ✓ | Primary Keys have been verified. |

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Show all target reports for the selected target. |
| | Show all target rules for the selected target. |

Auto-Validation – Auto-Validate Report List - (From Target)

Auto Validate Report list will display the reports that are verified with summaries added to the end of the Target in transform.

The screenshot shows the 'Auto-Validate Report List' interface. On the left is a navigation menu for 'psaProjectQA' with sub-items: Issues, Metrics, SightLine, Auto-Validation, Wave/Process Area/Objects, Configuration (Field Names, Report List All, Column Override Match, Data Type Mismatch, Error Report Type, Error Gen, AE Log, DSW Table Columns, Parameters), Copy Wave, Reports, and Admin. The main content area has a title 'Auto-Validate Report List' and a search bar. Below the title is a table with columns: TARGET TABLE, TARGET REPORT, REPORT TYPE, DESCRIPTION, ACTION ON, RECORD COUNT, AUTO VALIDATE, and ERROR IND. The table contains three rows of data. Below this table is a section titled 'User Created Target Reports' with a search bar and a table with columns: TARGET TABLE, TARGET REPORT, PRIORITY, DESCRIPTION, REPORT TYPE, STATUS, ACTION ON, RECORD COUNT, DURATION, and ADDED BY. This table contains five rows of data.

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Show all target reports for the selected target. |
| | Show all target rules for the selected target. |

Auto-Validation – DSW Table Columns - (From Target)

DSW Table Columns display the current snap shot of Target table columns as well as the Target data values downloaded into dgSAP (or Target for Wave). The mismatch compare will display the value added to the Report.

This table will be loaded when Auto-Validate is executed in the application or Target Report generated in AutoValidate.

| TARGET TABLE | TABLE NAME | COLUMN NAME | KEY | DATA TYPE | LENGTH | MISMATCH COMPARE | COL ORDER | DATA SOURCE NAME |
|--|------------|------------------|-----|-----------|--------|---------------------------------------|-----------|------------------|
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /BEV1/LULDEGRP | | nvarchar | 3 | ISNULL(SAP_DATA.[/BEV1/LULDEGRP],") | 194 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /BEV1/LULEINH | | nvarchar | 8 | ISNULL(SAP_DATA.[/BEV1/LULEINH],") | 193 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /BEV1/NESTRUCCAT | | nvarchar | 1 | ISNULL(SAP_DATA.[/BEV1/NESTRUCCAT],") | 195 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /CWM/TARA | | nvarchar | 1 | ISNULL(SAP_DATA.[/CWM/TARA],") | 191 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /CWM/TARUM | | nvarchar | 3 | ISNULL(SAP_DATA.[/CWM/TARUM],") | 192 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /CWM/TOLGR | | nvarchar | 9 | ISNULL(SAP_DATA.[/CWM/TOLGR],") | 190 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /CWM/VALUM | | nvarchar | 3 | ISNULL(SAP_DATA.[/CWM/VALUM],") | 189 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /CWM/XCWMAT | | nvarchar | 1 | ISNULL(SAP_DATA.[/CWM/XCWMAT],") | 188 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /DSD/SL_TOLTYP | | nvarchar | 4 | ISNULL(SAP_DATA.[/DSD/SL_TOLTYP],") | 196 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /DSD/SV_CNT_GRP | | nvarchar | 10 | ISNULL(SAP_DATA.[/DSD/SV_CNT_GRP],") | 197 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /DSD/VC_GROUP | | nvarchar | 6 | ISNULL(SAP_DATA.[/DSD/VC_GROUP],") | 198 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /SAPMP/ABMEIN | | nvarchar | 3 | ISNULL(SAP_DATA.[/SAPMP/ABMEIN],") | 200 | dswAutoValidate |
| psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MARA | /SAPMP/AHO | | nvarchar | 3 | ISNULL(SAP_DATA.[/SAPMP/AHO],") | 211 | dswAutoValidate |

Auto-Validation – Target Report Auto Gen Log - (From Target)

Process reads required fields and fields with lookup tables. It will verify all the report views are generated and registered in Transform. Build Task Status values set to Error means the process did not finish the build and the validation.

| COUNTER | TARGET TABLE | TARGET FIELD ID | BUILD TASK | BUILD TASK STATUS | VIEW NAME | RULE NAME | ADDED BY | ADDED ON |
|---------|--|-----------------|--------------------------------------|-------------------|---|-----------|----------|----------------------|
| 2915 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MATNR | Check Mandatory Field Report Created | Complete | tv/Syniti/MARA_MATNR_MissingSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2914 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | RAUBE | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_RAUBE_NotInT142_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2913 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MAGR | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_MAGRV_NotInTVEGR_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2912 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | EKW | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_EKWSL_NotInT405_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2911 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MTART | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_MTART_NotInT134_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2910 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | TRAGR | Check NotIn Detail | Complete | tv/Syniti/MARA_TRAGR_NotInTTGR_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |

Auto-Validation – Field Names - (Under Auto-Validation Configuration Sub Menu)

Field added to all targets using auto-validation report processing.

These field support all the stored procedure for pre-load and post-load reports.

DO NOT CHANGE these Field Names!

The screenshot shows the 'Field Names' configuration page. On the left is a navigation menu for 'psaProjectQA' with options like Issues, Metrics, SightLine, Auto-Validation, Wave/Process Area/Objects, Configuration (highlighted), Field Names, Report List All, Error Report Type, SQL Log, Parameters, Copy Wave, Reports, and Admin. The main content area is titled 'Field Names' and contains a table with the following data:

| DESCRIPTION | FIELD NAME |
|--|----------------|
| Active Record | zActive |
| Record Already Exists in Target Environment | zRecordExists |
| Record can be loaded into Target and conform to business readiness rules | zBusinessReady |
| Record can be loaded into Target without hard failure | zTargetReady |
| Record Successfully Loaded into Target Environment | zLoaded |
| Remediated Record | zRemediated |

Auto-Validation – Report List - (Under Auto-Validation Configuration Sub Menu)

Report List shows all the reports generated for the activated targets by Auto-Validation process. Reports having Error Ind set to TRUE means they are missing the primary key of the target table. They will be excluded from the summary reports for Business Ready and Target Ready.

| TARGET TABLE | TARGET REPORT | REPORT TYPE | DESCRIPTION | AUTO VALIDATE | ERROR IND | MESSAGE |
|---|---------------------------------------|------------------|--------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| MJ MDM Customer Materials ttMARA | ttMARA_WRKST_NotInTWSPR_SummarySel | Target Readiness | Basic Material not in TWSPR | <input type="checkbox"/> | | |
| MJ MDM Customer Materials ttMARA_Postload | ttMARA_Postload_Mismatch_Sel | Post Load | Postload Mismatch Report | <input type="checkbox"/> | | |
| MJ MDM Customer Materials ttMARA_Postload | ttMARA_Postload_NotLoaded_Sel | Post Load | Postload Exception Report | <input type="checkbox"/> | | |
| MJ MDM Customer Materials ttMARA_Postload | ttMARA_Postload_Success_Sel | Post Load | Postload Success Report | <input type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_AdvancedErrorHandlingSel | ErrorAggregate | Advanced Error Handling Remediations | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BEHVO_NotInT144_DetailSel | Target Readiness | Customer Price Group not in T144 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BEHVO_NotInT144_SummarySel | Target Readiness | Customer Price Group not in T144 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BusinessReadinessErrorSel | ErrorAggregate | Summary of Business Readiness Errors | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BWVCL_NotInTMBW1_DetailSel | Target Readiness | Customer Price Group not in TMBW1 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BWVCL_NotInTMBW1_SummarySel | Target Readiness | Customer Price Group not in TMBW1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BWVOR_NotInT6WP1_DetailSel | Target Readiness | Customer Price Group not in T6WP1 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_BWVOR_NotInT6WP1_SummarySel | Target Readiness | Customer Price Group not in T6WP1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_EKWSL_NotInT405_DetailSel | Target Readiness | Customer Price Group not in T405 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_EKWSL_NotInT405_SummarySel | Target Readiness | Customer Price Group not in T405 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_ETIAR_NotInT6WP3_DetailSel | Target Readiness | Customer Price Group not in T6WP3 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_ETIAR_NotInT6WP3_SummarySel | Target Readiness | Customer Price Group not in T6WP3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_ETIFO_NotInT6WP4_DetailSel | Target Readiness | Customer Price Group not in T6WP4 | <input checked="" type="checkbox"/> | | |
| psaAutoVal.psaValTest.AutoValTest.ttBOAMARA | ttBOAMARA_ETIFO_NotInT6WP4_SummarySel | Target Readiness | Customer Price Group not in T6WP4 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Primary Keys are not in the Report |

Image Definitions:

| Image | Description of the process |
|-------|--|
| | Show all target reports for the selected target. |
| | Show all target rules for the selected target. |

All registered target reports to be reviewed with latest record count and duration.

| TARGET TABLE | TARGET REPORT | PRIORITY | DESCRIPTION | REPORT TYPE | STATUS | RECORD COUNT | DURATION | ADDED BY | ADDED VIA |
|--------------------------|--|----------|--------------------------------------|--------------------|--------|--------------|----------|------------------|---------------|
| ttBusinessPartner_Export | ttBusinessPartner_Export_CompleteSel | 10 | Completed Groupings | Business Readiness | Active | 2 | 217 | DRichardson | UserInterface |
| ttBusinessPartner_Export | ttBusinessPartner_Export_InProgressSel | 20 | InProgress Groupings | Business Readiness | Active | 18 | 156 | DRichardson | UserInterface |
| ttBusinessPartner_Export | ttBusinessPartner_Export_NotStartedSel | 30 | NotStarted Groupings | Business Readiness | Active | 131 | 174 | DRichardson | UserInterface |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_Exclusion_Sel | 10000 | Preload Exclusion Report | Pre Load | Active | 0 | 123 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_RecordExistsSel | 10010 | Preload Already Loaded In SAP Report | Info | Active | 0 | 127 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_NotBusinessReady_Sel | 10020 | Preload Not Business Ready Report | Pre Load | Active | 0 | 113 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_NotTargetReady_Sel | 10030 | Preload Not Target Ready Report | Pre Load | Active | 0 | 93 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_NotTargetReady_Detail_Sel | 10035 | Preload Error Detail Report | Pre Load | Active | 0 | 93 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_NotBusinessReady_Detail_Sel | 10035 | Preload Error Detail Report | Pre Load | Active | 0 | 94 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export | ttBusinessPartner_Export_Preload_ReadyToLoad_Sel | 10400 | Preload Ready To Load Report | Pre Load | Active | 0 | 94 | AutomationEngine | AutoGen |

All registered target rules to be reviewed with latest record count and duration.

| TARGET RULE | PRIORITY | DESCRIPTION | TARGET RULE VIEW | TARGET RULE TABLE | STATUS | RECORD COUNT | DURATION | ADDED BY | ADDED VIA |
|---|----------|--|--|--------------------------------|--------|--------------|----------|------------------|---------------|
| ttBusinessPartner_Export_XrefDel | 10 | Deletes data from the xref | ttBusinessPartner_Export_XrefDelSel | ttBusinessPartner_Export | Active | 4619 | 63 | DRichardson | UserInterface |
| ttBusinessPartner_Export_XrefIns | 20 | Inserts data into the xref | ttBusinessPartner_Export_XrefInsSel | ttBusinessPartner | Active | 4619 | 127 | DRichardson | UserInterface |
| ttBusinessPartner_Export_Xref_RelatedIns | 25 | Inserts related records for completed groupings | ttBusinessPartner_Export_Xref_RelatedInsSel | ttBusinessPartner | Active | 7465 | 406 | DRichardson | UserInterface |
| ttBusinessPartner_Export_Xref_IncompleteIns | 30 | Inserts records that are not complete or were not grouped into xref. | ttBusinessPartner_Export_Xref_IncompleteInsSel | ttBusinessPartner | Active | 796 | 173 | DRichardson | UserInterface |
| ttBusinessPartner_Export_Xref_UnGroupedIns | 35 | Inserts records into the xref that were never grouped and therefore never brought into psa harmonization | ttBusinessPartner_Export_Xref_UnGroupedInsSel | ttBusinessPartner | Active | 539 | 47 | DRichardson | UserInterface |
| ttBusinessPartner_Export_GroupDel | 40 | Deletes data from the table | ttBusinessPartner_Export_GroupDelSel | ttBusinessPartner_Export | Active | 4769 | 30 | DRichardson | UserInterface |
| ttBusinessPartner_Export_GroupIns | 50 | Inserts data from tCandidatesGroup | ttBusinessPartner_Export_GroupInsSel | ttBusinessPartner_Group_Export | Active | 4769 | 60 | DRichardson | UserInterface |
| ttBusinessPartner_ExportDel | 100 | Deletes records from ttBusinessPartner_Export | ttBusinessPartner_ExportDelSel | ttBusinessPartner_Export | Active | 0 | 17 | DRichardson | UserInterface |
| ttBusinessPartner_ExportIns | 200 | Inserts records into ttBusinessPartner_Export | ttBusinessPartner_ExportInsSel | ttBusinessPartner_Export | Active | 0 | 140 | DRichardson | UserInterface |
| ttBusinessPartner_Export_zRecordExists_Updated | 1000 | Flag Records Already Loaded In SAP | ttBusinessPartner_Export_zRecordExists_UpdatedSel | | Active | 0 | 16 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export_zBusinessReady_Updated | 1010 | Flag Records With Business Rule Errors | ttBusinessPartner_Export_zBusinessReady_UpdatedSel | | Active | 0 | 14 | AutomationEngine | AutoGen |
| ttBusinessPartner_Export_zTargetReady_Updated | 1020 | Flag Records with Target System Error | ttBusinessPartner_Export_zTargetReady_UpdatedSel | | Active | 0 | 16 | AutomationEngine | AutoGen |

Auto-Validation – Column Override Match - (Under Auto-Validation Configuration Sub Menu)

Column Override Match will allow a user to add another comparison check for the mismatch report. Compare type could be a VALUE option where a user types in a value for the Target and/or Source. Fields that are left blank, will default to the normal Target or Source Field.

Compare type of Function is expecting an SQL FUNCTION or a User Defined Function like DSW.dbo.boaDropLeadingZeros (#Column#) that could be compared to the Transform Target table value.

Mismatch Added On column will display the results used in the Mismatch Report.

| TABLE NAME | COLUMN NAME | COMPARE TYPE | TGT_DATA | SAP_DATA | COMMENTS | ACTIVE | MIS MATCH ADDED ON |
|------------|-------------|--------------|---------------------------------|--|--|--------|---|
| Table1 | MATNR | Function | | DSW.dbo.boaDropLeadingZeros2(SAP_DATA [MATNR]) | Return converted data | | OR (TGT_DATA [MATNR] = DSW.dbo.boaDropLeadingZeros2(SAP_DATA [MATNR])) |
| Table1 | MEINS | Value | US | USA | Compare two different Values to match | | OR (TGT_DATA [MEINS] = 'US' AND SAP_DATA [MEINS] = 'USA') |
| Table1 | MEINS | Function | TRIM(ISNULL(TGT_DATA.MEINS,'')) | ISNULL(SAP_DATA.MEINS,'') | Complex Example | | OR (TRIM(ISNULL(TGT_DATA.MEINS,'')) : ISNULL(SAP_DATA.MEINS,'')) |
| Table1 | MTART | Value | 000 | 0 | Sap Pads Zeros TGT_DATA [MEINS] = SAP_DATA [MEINS] | | OR (TGT_DATA [MTART] = '000' AND SAP_DATA [MTART] = '0') |

Auto-Validation – Data Type Mismatch - (Under Auto-Validation Configuration Sub Menu)

Data Type Mismatch will allow a method to exclude some data types or set a default value for NULL comparisons.

Target Reports must be regenerated if these settings are changed.

Varbinary fields are often excluded from this process.

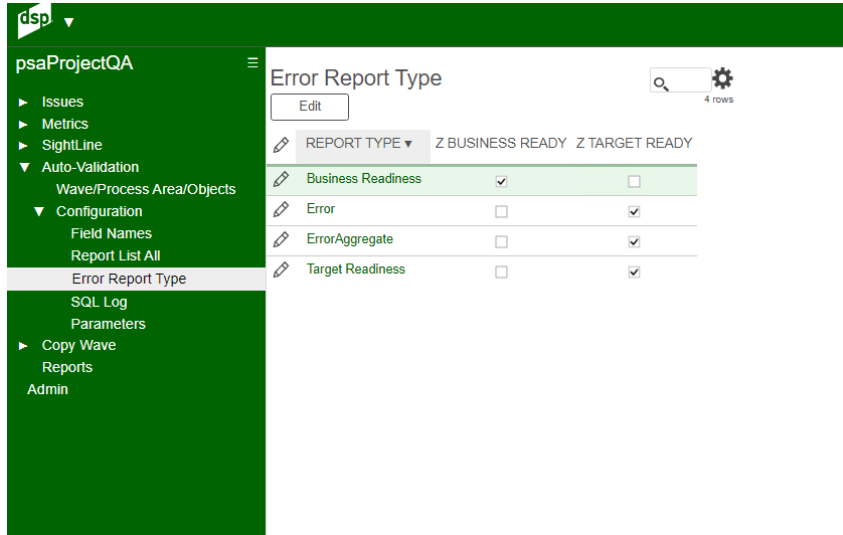
Text and Ntext can be excluded but those fields are not commonly used in Target processing.

Target is the target table storing the converted values. Source is the download from the load database to compare against the Target for data loaded.

| DATA TYPE | INCLUDE DATA TYPE | TARGET MIS MATCH COMPARE | SOURCE MIS MATCH COMPARE |
|-----------|-------------------|-------------------------------|-------------------------------|
| BIT | ✓ | ISNULL(TGT_DATA.[#COLUMN#],0) | ISNULL(SAP_DATA.[#COLUMN#],0) |
| DECIMAL | ✓ | ISNULL(TGT_DATA.[#COLUMN#],0) | ISNULL(SAP_DATA.[#COLUMN#],0) |
| INT | ✓ | ISNULL(TGT_DATA.[#COLUMN#],0) | ISNULL(SAP_DATA.[#COLUMN#],0) |
| NVARCHAR | ✓ | ISNULL(TGT_DATA.[#COLUMN#],") | ISNULL(SAP_DATA.[#COLUMN#],") |
| VARBINARY | | TGT_DATA.[#COLUMN#] | SAP_DATA.[#COLUMN#] |

Auto-Validation – Error Report Type - (Under Auto-Validation Configuration Sub Menu)

Error Report Type are a combination of Business Ready Summary and Target Ready Summary. A summary table is being generated to handle large volumes of errors.



Auto-Validation – Target Report Auto Gen Log - (Under Auto-Validation Configuration Sub Menu)

Process reads required fields and fields with lookup tables. It will verify all the report views are generated and registered in Transform. Build Task Status values set to Error means the process did not finish the build and the validation.

This page will show all Targets processed on the server for each target.

| COUNTER | TARGET TABLE | TARGET FIELD ID | BUILD TASK | BUILD TASK STATUS | VIEW NAME | RULE NAME | ADDED BY | ADDED ON |
|---------|--|-----------------|--------------------------------------|-------------------|---|-----------|----------|----------------------|
| 2915 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MATNR | Check Mandatory Field Report Created | Complete | tv/Syniti/MARA_MATNR_MissingSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2914 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | RAUBE | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_RAUBE_NotInT142_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2913 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MAGRV | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_MAGRV_NotInTVEGR_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2912 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | EKWSL | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_EKWSL_NotInT405_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2911 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | MTART | Check NotIn Detail Report Created | Complete | tv/Syniti/MARA_MTART_NotInT134_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |
| 2910 | psaAutoVal.psaValTest.AutoValTest.tt/Syniti/MARA | TRAGR | Check NotIn Detail Report | Complete | tv/Syniti/MARA_TRAGR_NotInTTGR_DetailSel | | DDowney | 5/28/2021 8:46:15 AM |

Auto-Validation – Auto Gen Errors - (Under Auto-Validation Configuration Sub Menu)

Auto Gen Errors will show all SQL commands to build the required objects.

Records will be deleted after 30 days.

Common Automate Engine must have the track history checkbox turned on.

| AUTOMATION ENGINE HISTORY ID | EXECUTION STEP | EXECUTED ON | EXECUTED BY |
|------------------------------|---|----------------------|-------------|
| 11135 | <pre>INSERT INTO [psaProjectQA].[dbo].[ztrReportList] ([WaveProcessAreaObjectTargetReportID],[WaveProcessAreaObjectTargetID],[WaveProcessAreaObjectID].[AutoValidate]) SELECT DSW.dbo.ttWaveProcessAreaObjectTargetReport.WaveProcessAreaObjectTargetReportID, DSW.dbo.ttWaveProcessAreaObjectTargetReport.WaveProcessAreaObjectTargetID, DSW.dbo.ttWaveProcessAreaObjectTarget.WaveProcessAreaObjectID, 0 AS AutoValidate FROM DSW.dbo.ttWaveProcessAreaObjectTarget INNER JOIN DSW.dbo.ttWaveProcessAreaObjectTargetReport ON DSW.dbo.ttWaveProcessAreaObjectTarget.WaveProcessAreaObjectTargetID = DSW.dbo.ttWaveProcessAreaObjectTargetReport.WaveProcessAreaObjectTargetID WHERE (DSW.dbo.ttWaveProcessAreaObjectTarget.WaveProcessAreaObjectTargetID IN ('a8015f3b-c957-400e-b40a-759af0dacabf','cfd3d34-346d-4f96-99a7-b4b90eb7d916','d0d891d2-97af-42a7-b38e-ea7342c66a87')) AND (DSW.dbo.ttWaveProcessAreaObjectTargetReport.WaveProcessAreaObjectTargetReportID NOT IN (SELECT WaveProcessAreaObjectTargetReportID FROM psaProjectQA.dbo.ztrReportList))</pre> | 5/28/2021 8:46:00 AM | DDowney |
| 11134 | <pre>DECLARE @Result1 as NVARCHAR(20) DECLARE @TargetFieldID1 as NVARCHAR(255) DECLARE @RequiredFieldCheck1 as NVARCHAR(255) DECLARE @ViewName1 as NVARCHAR(255) DECLARE CursorCheckMandatory1 CURSOR FORWARD_ONLY for SELECT [ViewName] FROM psaProjectQA.[dbo].[avWaveProcessAreaObjectLog] WHERE WaveProcessAreaObjectTargetID = 'a8015f3b-c957-400e-b40a-759af0dacabf'</pre> | 5/28/2021 8:46:00 AM | DDowney |

Automation Engine Parameters

Edit

Retain AE Processing Instructions

- AE Insert History
- View History

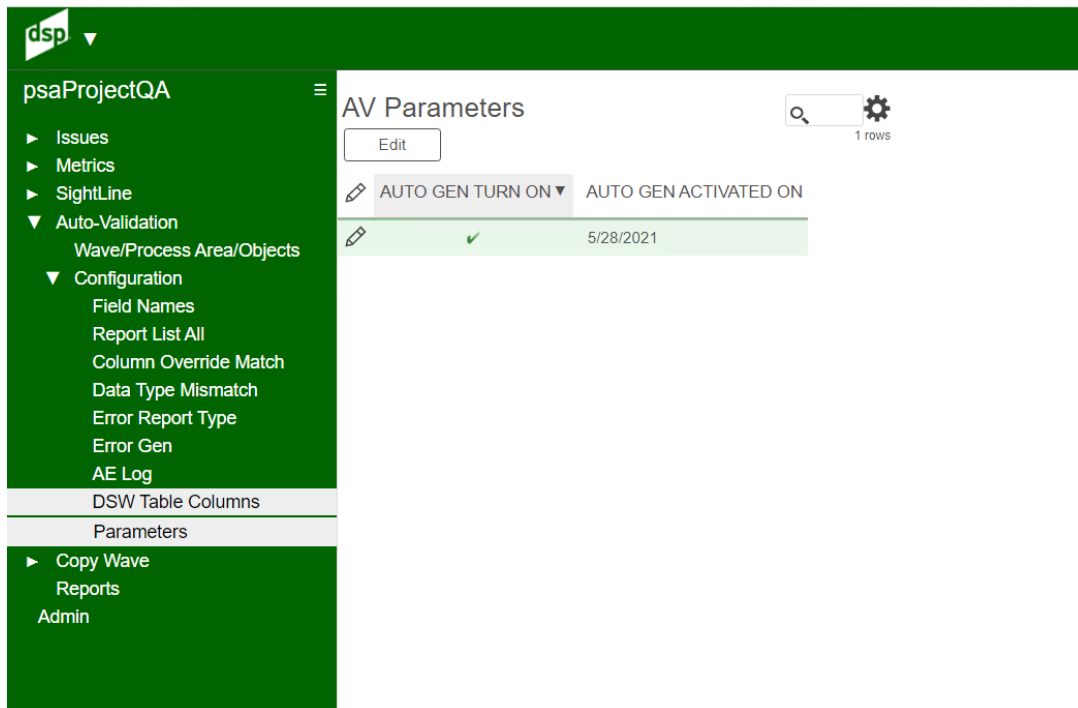
Auto-Validation – AV Parameters - (Under Auto-Validation Configuration Sub Menu)

Parameters used for the Auto Validation process. Auto Validate can be turned on or off on the Wave/Process Area/Objects Toolbar.

AutoGen Activated stores the date the process was turned on.

AutoGen nows build PreLoad and PostLoad Targets as a default.

AutoGen can be turned on Target by Target as an override.



Copy Wave – Overview of the process...

Copy Wave provides the capability of performing user defined wave copies by allowing to adjust the scope from the wave level down to the target table level. Any discarded object for migration can be copied any time after the initial copy is done. Also, it allows to generate a new wave based on several different waves that are already created, adding some flexibility to the copy process.

Additionally, it allows the user to:

- Automatically create the new databases in SQL along its data sources in DSP
- Generate the new records at the Advanced View Builder
- Replace all the databases referenced in scope
- Replace, add or discard sources in scope and its mappings
- Replace, add or discard both business and developer contacts
- Track the creation of every object in either SQL and DSP with traffic lights
- Track pre- and post-trigger error messages

| | | Copy Wave | PSA Wave Management |
|--|---|-----------|---------------------|
| Granular Scope definition | Define which process areas, objects, target tables, rules, reports, exports and remediations to migrate | | ✓ |
| Batch Migration | Migrate anything at any time | | ✓ |
| N to 1 wave generation | Migrate anything from any wave | | ✓ |
| Generate Process Area's databases | Generate new databases at SQL for process areas in scope | Manual | ✓ |
| Generate Process Area's datasources | Generate new datasources in ADM for process areas in scope | Manual | ✓ |
| Generate Source database | Generate new databases in SQL for sources in scope | Manual | Manual |
| Generate Source datasource | Generate new datasources in ADM for sources in scope | Manual | Manual |
| Replace, add or discard sources | Define source replacements, additions or discards for each source in scope | Manual | ✓ |
| Replace, add or discard contacts | Define business and developer contacts replacements, additions or discards | Manual | ✓ |

| | | Copy Wave | PSA Wave Management |
|---|---|-----------|---------------------|
| Copy Mappings | Be able to copy mappings from source wave | ✓ | ✓ |
| Exclude unnecessary mappings | Define mappings to exclude by source type | Manual | ✓ |
| Generate Advanced View Builder | Auto generate a record at the advanced view builder as a copy from the source wave record | Manual | ✓ |
| Copy Source Reports | Generate a copy of the source reports | ✓ | Manual |
| Copy Source Rules | Generate a copy of the source rules | ✓ | Autogen + Manual |
| Copy Target Reports | Generate a copy of the target reports | ✓ | ✓ |
| Copy Target Rules | Generate a copy of the target rules | ✓ | ✓ |
| Copy Target Exports | Generate a copy of the target exports | ✓ | ✓ |
| Copy Remediations | Generate a copy of the remediations | ✓ | ✓ |
| Copy Data Services | Generate a copy of the data services | ✓ | Manual |
| Replace and create referenced databases and its tables | Generate databases used within views or vested views that needs to be replaced. Be able to create tables used within those databases | Manual | ✓ |
| Track error messages | Have access to all issues that come up before and after the copy | | ✓ |
| Track scope creation | Control what is migrated and what is still to be migrated | | ✓ |

Scope

PSA Wave Management replicates everything comprehended within the source wave but the Transform Source rules and Transform Source Reports.

Assemble packages for source or target tables at the source or target databases (sdb or dg) are excluded from migration.

Databases, tables or fields configured or coded within any mapping are not replaced by the new ones. Transform DataServices, Report Segment Users, Report Users, Report Column are not considered to copy. Rebuild Field Construction Pages for a wave or a Target are not applied.

Databases in stored procedures are not set to be replaced.

Copy Wave - Waves- (Under Copy Wave Sub Menu)

First, click Add button, and select the Wave to be copied. Then, it will require you to pick a Source wave from the list box button and fill in the New Wave (Name) and New Wave Description. If New Target System ID is left blank, it will be automatically populated with the Source wave's target system ID.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|----------|------------------------|------------------|----------------------|---------|
| W20_Global | W4_RD_DC | W4 - Rotterdam - Distr | | [Choose one] | |

Then, click on Save. Saving process can take some time since the webapp is pulling up all the information from the Source wave. Note that created icon is set to red, meaning the new wave does not exist yet. Also, buttons trailing display numbers indicate that information for that wave could be copied to the new wave.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|----------|--------------------------------------|------------------|----------------------|---------|
| W20_Global | W4_RD_DC | W4 - Rotterdam - Distribution Center | dgSAPHANASBD | dgSAPHANASBD | ● |

Now, it is time to define the scope. Note that by default all PAs, OBs and TTs are set to copy. Click on Process Area button unless that the child pane displayed is already pointing to them.

| PROCESS AREA ID | COPY PROCESS AREA | DATA SOURCE ID | NEW DATA SOURCE | NEW REPORT CACHE DATA SOURCE | CREATED |
|-----------------|-------------------------------------|------------------|-----------------|------------------------------|---------|
| MDM | <input checked="" type="checkbox"/> | dswW20_Global_MM | | | ● |
| MM | <input checked="" type="checkbox"/> | dswW20_Global_MM | | | ● |

Click on Copy Process Area to unselect those process areas that must be out of scope. Edit those remaining in scope. It requires a new data source and a new report cache data source. Data source is the database a process area or an object uses to store all sorts of views, tables and procedures. Report cache data source stores the results of the report views.

| PROCESS AREA ID | COPY PROCESS AREA | DATA SOURCE ID | NEW DATA SOURCE | NEW REPORT CACHE DATA SOURCE | CREATED |
|-----------------|-------------------------------------|------------------|-----------------|------------------------------|---------|
| MDM | <input checked="" type="checkbox"/> | dswW20_Global_MM | | | ● |
| MM | <input checked="" type="checkbox"/> | dswW20_Global_MM | dswMM_W4 | dswMM_W4_ReportCache | ● |

Both can either be populated from the list box or from a free text entry. In the latter case, when the copy is triggered, it will generate a new database along its datasource record at the data source registry. Remember that these new records are supposed to begin with 'dsw'.

Additionally, database defined in the new datasource will be used to replace any reference to the database for the datasourceID from the Source wave in all of the views and procedures created for the new database. Also, if any of the datasourceID's databases are found in cross referenced databases for any process area, the database for the new data source will be automatically filled-in by default. [See Cross Referenced Databases]

Save and then select whether you want to add a record at the Advanced View Builder.

| PROCESS AREA ID | COPY PROCESS AREA | DATA SOURCE ID | NEW DATA SOURCE | NEW REPORT CACHE DATA SOURCE | CREATED | ADVANCED VIEW BUILDER | Action Icons | | |
|-----------------|-------------------------------------|------------------|-----------------|------------------------------|---------|-------------------------------------|--------------|---|---|
| MDM | <input type="checkbox"/> | dswW20_Global_MM | | | ● | | 0 | 0 | 0 |
| MM | <input checked="" type="checkbox"/> | dswW20_Global_MM | dswMM_W4 | dswMM_W4_ReportCache | ● | <input checked="" type="checkbox"/> | 7 | 4 | 1 |

Do not click the Wave Copy until all NEW settings have been entered for all pages.

Web Page Screen shot:

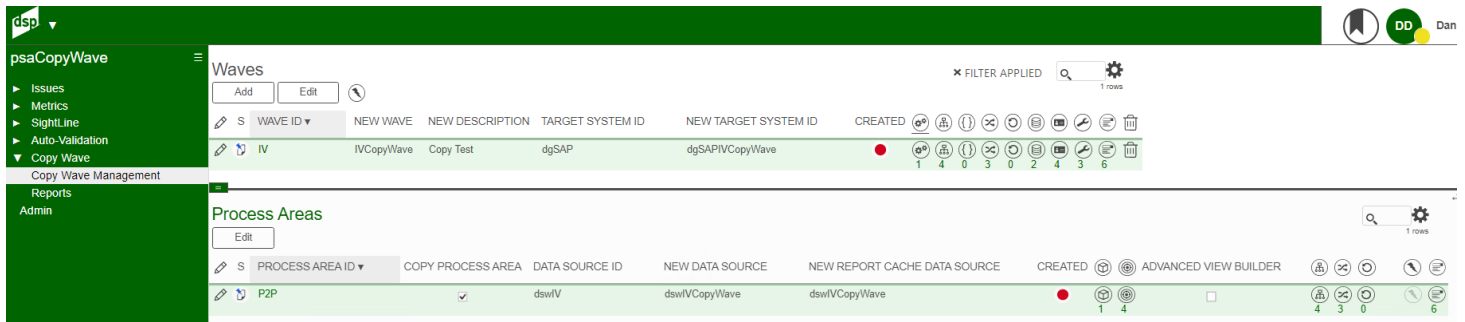


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Execute Wave Copy. |
| | Process area available for the wave copy. |
| | Transform Settings (Rules, Reports and Exports) available for the wave copy. |
| | Assembly Where Clauses that will be copied during the execution. |
| | Cross Reference databases used in the view of the current wave. |
| | Self-Reference Tables in the current wave that will be copied. |
| | Source used in the Current Wave. There is an option to copy them to the new wave. |
| | Business Contacts available to be copied or replaced with new contacts. |
| | Developers available to be copied or replaced with new developers. |
| | Error Summary listing errors of view and procedures not available for the copy. |
| | Objects found in the wave that will be copied to the new wave. |
| | Targets found in the wave that will be copied in the new wave. |

Copy Wave – Objects - (Access from Process Area (Waves))

Now, it is necessary to define the objects and targets scope for each process area in scope. Click on the Objects button to open the Objects: Targets page. Click on copy Object to include or exclude from scope.

Objects 3 rows

| WAVE ID | NEW WAVE ID | WAVE PROCESS AREA ID | OBJECT ID | COPY OBJECT | CREATED | |
|------------|-------------|----------------------|-----------------|-------------------------------------|---------|---|
| W20_Global | W4_RD_DC | MM | Customers | <input checked="" type="checkbox"/> | ● | 1 |
| W20_Global | W4_RD_DC | MM | Material Master | <input checked="" type="checkbox"/> | ● | 3 |
| W20_Global | W4_RD_DC | MM | Vendors_99999 | <input type="checkbox"/> | ● | 3 |

Then click on Targets button for each object to see dependent target tables. Click on Copy Target to include or exclude from scope.

Targets 3 rows

| WAVE ID | NEW WAVE ID | WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | TABLE DESCRIPTION | COPY TARGET | CREATED |
|------------|-------------|----------------------|-----------------------------|------------------------------------|--------------------------|-------------------------------------|---------|
| W20_Global | W4_RD_DC | MM | Material Master | ttMARC | Material Plant Data | <input checked="" type="checkbox"/> | ● |
| W20_Global | W4_RD_DC | MM | Material Master | ttMARA | Material Master | <input checked="" type="checkbox"/> | ● |
| W20_Global | W4_RD_DC | MM | Material Master | ttMBEW | Material Accounting Data | <input checked="" type="checkbox"/> | ● |

In order to consider objects in scope PAs, OBs and TTs must be set to copy. Therefore, if a PA is marked for copy, an OB for that PA is not marked for copy and the TTs for that OB are marked for copy, none of those TTs are in scope, so none will be migrated.

Go back to Waves page. Note that the button counters have changed due to the scope definition. So, depending on the scope definition all the dependencies will change, so every time it is changed, all dependencies and steps explained below must be reviewed.

Waves 1 rows

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED | |
|------------|----------|--------------------------------------|------------------|----------------------|---------|-------------------|
| W20_Global | W4_RD_DC | W4 - Rotterdam - Distribution Center | dgSAPHANASBD | dgSAPHANASBD | ● | 2 3 4 4 1 2 3 2 1 |

Web Page Screen shot:

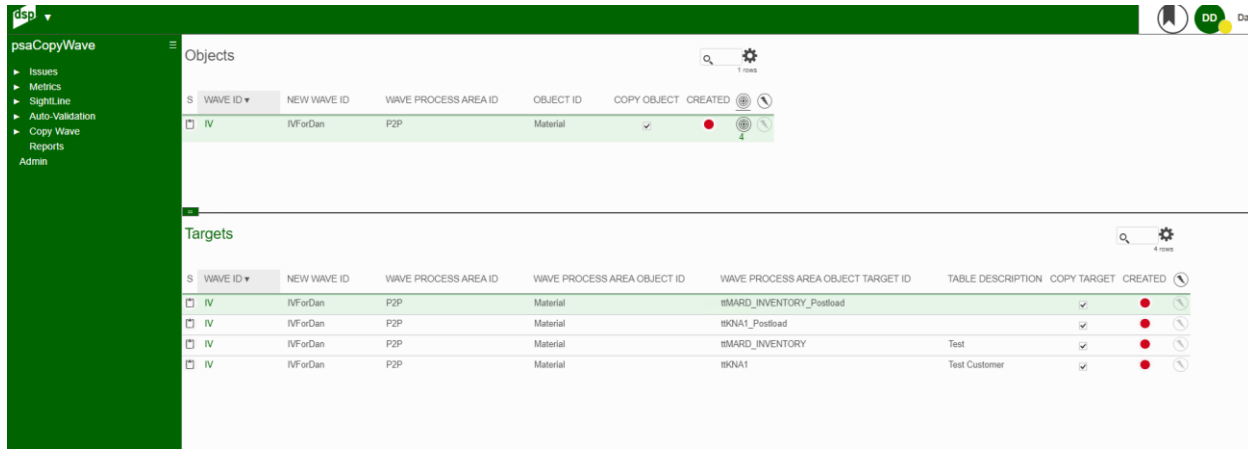




Image Definitions:

| Image | Description of the process |
|--|--|
|  | Targets found in the wave that will be copied in the new wave. |
|  | Extend Object or Target after initial copy has been completed. |

Copy Wave – Targets - (Access from Process Area (Waves) or Objects)

Now, it is necessary to define the rules, reports, remediations and exports in scope for each TT defined in scope. Click on Transform button to open the Transform - Targets: Transform - Rules page.

Transform - Targets

3 rows

| S | WAVE ID | NEW WAVE ID | WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | | | |
|---|------------|-------------|----------------------|-----------------------------|------------------------------------|---|----|---|
| | W20_Global | W4_RD_DC | MM | Material Master | ttMARC | | | |
| | | | | | | 0 | 5 | 0 |
| | W20_Global | W4_RD_DC | MM | Material Master | ttMARA | | | |
| | | | | | | 5 | 13 | 0 |
| | W20_Global | W4_RD_DC | MM | Customers | ttKNA1 | | | |
| | | | | | | 4 | 1 | 1 |

Transform - Rules

5 rows

| S | PRIORITY | STATUS | TARGET RULE VIEW | DESCRIPTION | COPY RULE | ADDED VIA | ADM CREATED | SQL VIEW CREATED | SQL PROCEDURE CREATED | ERROR MESSAGE |
|---|----------|-----------|---------------------------------|------------------------|-------------------------------------|-----------|-------------|------------------|-----------------------|-------------------------|
| | | RULE TYPE | PROCEDURE NAME | | | | | | | PROCEDURE ERROR MESSAGE |
| | 10 | Active | trMARA_ReportSegmentBKP_UpdSel | Report Segment Backup | <input checked="" type="checkbox"/> | Manual | | | | |
| | | Update | trMARA_ReportSegmentBKPCall_Upd | | | | 1 | | | |
| | 20 | Active | trMARA_ReportSegmentRES_UpdSel | Report Segment Restore | <input checked="" type="checkbox"/> | Manual | | | | |
| | | Update | trMARA_ReportSegmentRESCall_Upd | | | | 1 | | | |

By default, all rules, reports, remediations and exports are set to be copied if they are active at the Source wave.

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Web Page Screen shot for the **Targets Page:**

Image Definitions:

| Image | Description of the process |
|-------|---|
| | Target rules available to be copied to the new wave. |
| | Target reports available to be copied to the new wave. |
| | Target Exports available to be copied to the new wave. |
| | Generate Transform Objects for selected Target post copy. |
| | Dependent Objects in the view for the rule or report. |
| | Report Remediation will be copied. |

Copy Wave – Transform Targets & Rules - (Access from Waves Page)

Click on Rules button on the Transform - Targets page unless that the child pane displayed is already pointing to them. Click on Copy Rule to include or exclude from scope.

Note that there is the option to see the code for each view and procedure by clicking on its name.

| Transform - Rules | | | | | | | | | | | |
|-------------------|---------------|--|--|-------------------------------------|-----------|-------------|------------------|-----------------------|---------------|-------------------------|--|
| Edit | | | | | | | | | | | |
| PRIORITY | STATUS | TARGET RULE VIEW | DESCRIPTION | COPY RULE | ADDED VIA | ADM CREATED | SQL VIEW CREATED | SQL PROCEDURE CREATED | ERROR MESSAGE | PROCEDURE ERROR MESSAGE | |
| | RULE TYPE | PROCEDURE NAME | | | | | | | | | |
| 10 | Active Update | trMARA_ReportSegmentBKP_UpdSel trMARA_ReportSegmentBKP_Call_Upd | Report Segment Backup | <input checked="" type="checkbox"/> | Manual | 1 | ● | ● | ● | | |
| 20 | Active Update | trMARA_ReportSegmentRES_UpdSel trMARA_ReportSegmentRES_Call_Upd | Report Segment Restore | <input checked="" type="checkbox"/> | Manual | 1 | ● | ● | ● | | |
| 40 | Active Update | trMARA_ERSDAUpdSel trMARA_ERSDAUpd | Created On | <input checked="" type="checkbox"/> | Autogen | 1 | ● | ● | ● | | |
| 50 | Active Update | trMARA_ERNAMUpdSel trMARA_ERNAMUpd | Name of Person Responsible for Creating the Object | <input checked="" type="checkbox"/> | Autogen | 1 | ● | ● | ● | | |

Additionally, note that when a rule points to an external database, a symbol is displayed. Same for a self-referenced table.

Also, note that you can see all dependencies for each view by clicking on the dependent objects button.

Web Page Screen shot: (Image Definitions on the Targets Page)

The screenshot shows a web application interface with a sidebar on the left containing navigation items like 'Issues', 'Metrics', 'Signline', 'Auto-Validation', 'Copy Wave', 'Reports', and 'Admin'. The main content area is split into two panes:

- Transform - Targets:** A table with columns: WAVE ID, NEW WAVE ID, WAVE PROCESS AREA ID, WAVE PROCESS AREA OBJECT ID, WAVE PROCESS AREA OBJECT TARGET ID, and CREATED. It lists several target rules for 'Educate' with various performance targets.
- Transform - Rules:** A table with columns: PRIORITY, STATUS, TARGET RULE VIEW, PROCEDURE NAME, DESCRIPTION, COPY RULE, ADDED VIA, ADM CREATED, SQL VIEW CREATED, SQL PROCEDURE CREATED, ERROR MESSAGE, and PROCEDURE ERROR MESSAGE. It lists rules for 'Performance' with various target data objects.

Copy Wave – Transform Targets & Reports - (Access from Targets Page)

Click on Reports button on the Transform - Targets page Click on Copy Report to include or exclude from scope. And click on Copy Remediation to include fixed and regular remediations in scope. Note that there is the option to see the code for each view by clicking on its name.

| S | PRIORITY | STATUS | TARGET REPORT | DESCRIPTION | ADDED VIA | COPY REPORT | ADM CREATED | SQL CREATED | COPY REMEDIATION | FIXED REMEDIATION CREATED | ERROR MESSAGE |
|---|----------|--------|--|----------------------------|-----------|-------------|-------------|-------------|------------------|---------------------------|---------------|
| | 2 | Active | tvmARC_MATNR_MissingSel | Material Number is missing | Autogen | 1 | | | | | |
| | 3 | Active | tvmARC_WERKS_MissingSel | Plant is missing | Autogen | 1 | | | | | |
| | 4 | Active | tvmARC_MATNR_existsinMARASel | Test Copy Wave | Manual | 13 | | | | | |

Additionally, note that when a report points to an external database, a symbol is displayed. Same for a self-referenced table.

Also, note that you can see all dependencies for each view by clicking on the dependent objects button. In case there are no remediations, copy remediation button will be disabled and Remediation button will not display any number. In case there is a fixed remediation, fixed remediation created traffic light will be displayed as red.

Web Page Screen shot: (Image Definitions on the Targets Page)

The screenshot displays two main tables and a dialog box:

- Transform - Targets Table:**

| S | WAVE ID | NEW WAVE ID | WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | CREATED |
|---|---------|-------------|----------------------|-----------------------------|------------------------------------|---------|
| | IV | IVForDan | P2P | Material | ttMARD_INVENTORY_Postload | 1 3 0 |
| | IV | IVForDan | P2P | Material | ttKNA1_Postload | 1 3 0 |
| | IV | IVForDan | P2P | Material | ttMARD_INVENTORY | 0 13 1 |
| | IV | IVForDan | P2P | Material | ttKNA1 | 1 43 1 |
- Transform - Reports Table:**

| S | PRIORITY | STATUS | TARGET REPORT | DESCRIPTION | ADDED VIA | COPY REPORT | ADM CREATED | SQL CREATED | COPY REMEDIATION | FIXED REMEDIATION CREATED | ERROR MESSAGE |
|---|----------|--------|--|--|-----------|-------------|-------------|-------------|------------------|---------------------------|---|
| | 2 | Active | ttKNA1_KUNNR_MissingSel | Customer Number is missing | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1002 | Active | ttKNA1_KUNNR_NotInKNA1_SummarySel | Customer Number not in KNA1 | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1003 | Active | ttKNA1_LAND1_NotInT005_SummarySel | Country Key not in T005 | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1008 | Active | ttKNA1_BEGIO_NotInT005S_SummarySel | Region (State, Province, County) not in T005S | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1020 | Active | ttKNA1_AUFSD_NotInT005S_SummarySel | Central order block for customer not in TVAST | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1026 | Active | ttKNA1_BRISCH_NotInT016_SummarySel | Industry key not in T016 | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
| | 1032 | Active | ttKNA1_FAKSD_NotInTVFS_SummarySel | Central billing block for customer not in TVFS | Autogen | 0 | | | | | View is missing at SQL level in Source Database |
- Copy Remediation Dialog:**

Copy Remediation
Field Name: CopyRemediation

Copy Wave – Transform Targets & Exports - (Access from Targets Page)

Click on Exports button on the Transform - Targets page. Click on Copy Export to include or exclude from scope.

Note that there is the option to see the code for each view by clicking on its name.



Additionally, note that when an export points to an external database, a symbol is displayed. Same for a self-referenced table.

Also, note that you can see all dependencies for each view by clicking on the dependent objects button.

Web Page Screen shot:

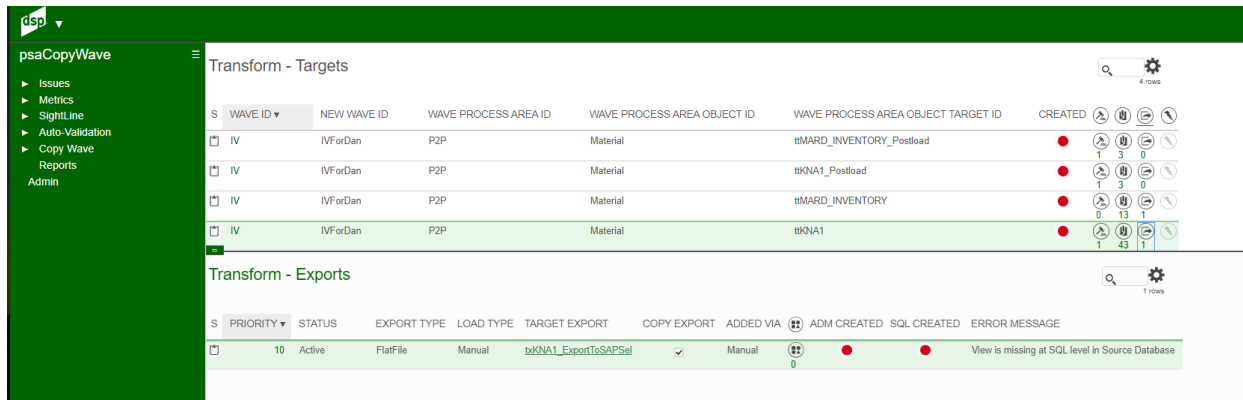


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Target rules available to be copied to the new wave. |
| | Target reports available to be copied to the new wave. |
| | Target Exports available to be copied to the new wave. |
| | Generate Transform Objects for selected Target post copy. |
| | Dependent Objects in the view for the rule or report. |
| | Report Remediation will be copied. |

Copy Wave – Remediations - (Access from Transform - Reports)

Click on Reports button on the Transform - Targets page. Then, click in Remediation button on Transform - Reports page to open the remediations. Click on Copy Remediation to include or exclude from scope. If Copy Remediation in Transform - Reports page for that view is not ticked, it will not copy the remediation.

Note that there is the option to see the code for each view and procedure by clicking on its name.

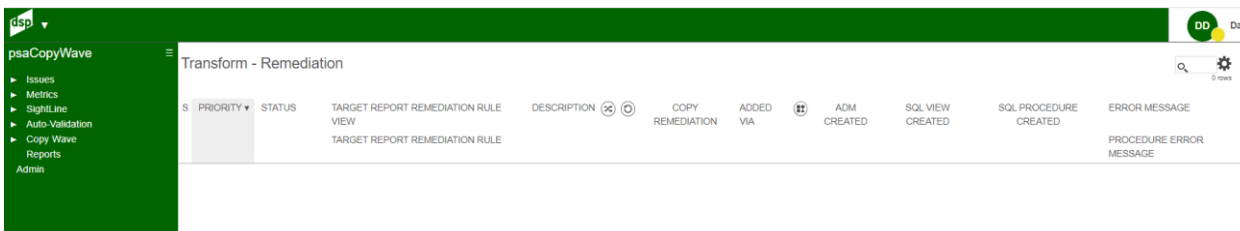
Transform - Remediation 🔍 ⚙️ 2 rows

| S | PRIORITY | STATUS | TARGET REPORT REMEDIATION RULE VIEW | DESCRIPTION | COPY REMEDIATION | ADDED VIA | ADM CREATED | SQL VIEW CREATED | SQL PROCEDURE CREATED | ERROR MESSAGE |
|---|----------|--------|---|----------------|-------------------------------------|-----------|-------------|------------------|-----------------------|---------------|
| 📄 | 10 | Active | tvMARA_MATNR_Missing_1remedySel tvMARA_MATNR_NotInMARA_Remedy_Upd | MATNR Remedy 1 | <input checked="" type="checkbox"/> | Manual | 0 | ● | ● | ● |
| 📄 | 20 | Active | tvMARA_MTART_NotInT134_Remedy_UpdSel tvMARA_MTART_NotInT134_Remedy_Upd | MTART Remedy 1 | <input checked="" type="checkbox"/> | Manual | 0 | ● | ● | ● |

Additionally, note that when a remediation points to an external database, a symbol is displayed. Same for a self-referenced table.

Also, note that you can see all dependencies for each view by clicking on the dependent objects button.

Web Page Screen shot:



Copy Wave – Assemble Where Clause- (Access from Waves)

Click on Assemble Where Clause Database button. Child pane changes to display the Assemble Where Clause Databases found in any of the target sources in scope. If New Database is left empty, Assemble where clauses will not be changed, otherwise New Database will replace Database. Also, note that New Database has the option to enter a free text which means that that text will replace the Database but it will not create a new database in SQL.

Waves

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|----------|--------------------------------------|------------------|----------------------|---------|
| W20_Global | W4_RD_DC | W4 - Rotterdam - Distribution Center | dgSAPHANASBD | dgSAPHANASBD | |

Assemble Where Clause Databases

| DATABASE | NEW DATABASE |
|-----------|--------------|
| dswW12_MM | |
| dswW13_MM | dswW4_PRE |
| dswW23_MM | |
| dswW25_MM | |

Web Page Screen shot:

The screenshot shows the application interface with a sidebar on the left containing navigation items like 'Issues', 'Metrics', 'Sightline', 'Auto-Validation', 'Copy Wave', 'Reports', and 'Admin'. The main content area is split into two panes. The top pane, titled 'Waves', displays a table with columns: WAVE ID, NEW WAVE, NEW DESCRIPTION, TARGET SYSTEM ID, NEW TARGET SYSTEM ID, and CREATED. It contains three rows of data. The bottom pane, titled 'Assemble Where Clause Databases', shows a table with columns: DATABASE and NEW DATABASE. It contains four rows of data.

Copy Wave – Cross Referenced Databases - (Access from Waves)

Click on the cross-referenced databases in the Waves page. It opens the Cross-Referenced Databases: Cross Referenced Views page. In the parent pane are displayed the cross databases*1 referenced at any view in the scope by process area. If New Database is left empty, databases in the views for that process area will remain the same, otherwise New Database will replace Database. Also, note that any New Database entered as a free text will be generate a new database in SQL unless it already exists.

Cross Referenced Databases

⚙️
4 rows

Edit

| | S | PROCESS AREA ▼ | DATABASE | NEW DATABASE | | |
|--|---|----------------|------------------|--------------|---|----|
| | | MM | dgSAPHANASBD | | | |
| | | | | | 1 | 10 |
| | | MM | dswMDM_W99 | | | |
| | | | | | 1 | 0 |
| | | MM | dswW20_Global_MM | dswMM_W4 | | |
| | | | | | 1 | 0 |
| | | MM | dswXREF | | | |
| | | | | | 0 | 1 |

Cross Referenced Views

Database Name
dgSAPHANASBD

⚙️
1 rows

| PARENT VIEW NAME ▼ | REFERENCING VIEW | VIEW NAME | |
|--|--|-----------|----|
| tvMARC_MATNR_existsInMARASel | tvMARC_MATNR_existsInMARASel | V_MARA | |
| | | | 13 |

For each database displayed, there is at least a view or a table where it is referenced. If views button is clicked, all views that the database is pointing to for that process area are displayed.

Cross Referenced Views

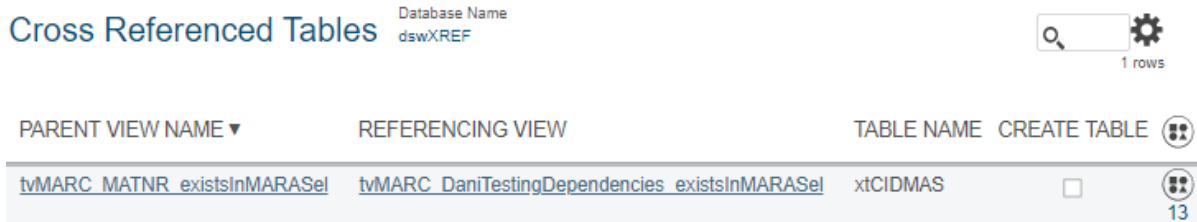
Database Name
dgSAPHANASBD

⚙️
1 rows

| PARENT VIEW NAME ▼ | REFERENCING VIEW | VIEW NAME | |
|--|--|-----------|----|
| tvMARC_MATNR_existsInMARASel | tvMARC_MATNR_existsInMARASel | V_MARA | |
| | | | 13 |

In Parent View Name, are displayed the view registered in ADM in either rules, reports, exports or remediations. Referencing View is the name of the view where the database is referenced. View Name is the name of the view that the database is pointing to.

If tables button is clicked, all tables that the database is pointing to for that process area are displayed.



In Parent View Name is displayed the view registered in ADM in either rules, reports, exports or remediations. Referencing View is the name of the view where the database is referenced. Table Name is the name of the table that the database is pointing to. Unlike the Cross-Referenced Views, in case a new database has been selected for replacement, tables can be created in that new database. Mark Create Table field to do so.

Web Page Screen shot:

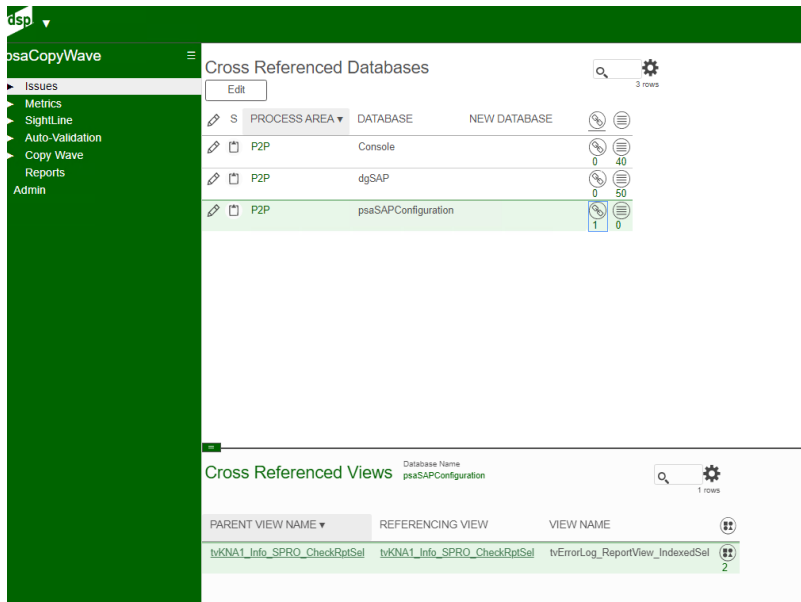


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Views from the cross-reference database. |
| | Tables from the cross-reference database. |
| | Dependent Objects in the view for the rule or report. |

Copy Wave – Dependent Objects - (Access from Cross Referenced Databases)

Dependent Objects shows views and/or tables being used in the current wave about to be copied. This page is reference in several other pages.

| S | REFERENCING VIEW | DATABASE NAME | SCHEMA NAME | VIEW NAME | LEVEL | VIEW DEFINITION | SQL CREATED |
|---|-----------------------------------|---------------|-------------|----------------------------------|-------|--|-------------|
| | tvKNA1_KUNNR_NotInKNA1_SummarySel | dbo | | tvKNA1_KUNNR_NotInKNA1_DetailSel | 1 | CREATE VIEW [dbo].[tvKNA1_KUNNR_NotInKNA1_DetailSel] AS SELECT [KNA1].[LegacyKUNNR], [KNA1].[Source], [dbo].[KUNNR] FROM [dbo].[KNA1] LEFT OUTER JOIN [dbo].[KNA1] ON [dbo].[KNA1].[KUNNR] = [dbo].[KNA1].[KUNNR] WHERE ([dbo].[KNA1].[KUNNR] IS NULL) AND ([dbo].[KNA1].[KUNNR] IS NOT NULL) AND ([dbo].[KNA1].[KUNNR] <> N') | |
| | tvKNA1_KUNNR_NotInKNA1_DetailSel | dbo | | KNA1 | 2 | CREATE VIEW [dbo].[KNA1] AS SELECT * FROM [dgsAP].[dbo].[KNA1] | |
| | tvKNA1_KUNNR_NotInKNA1_DetailSel | dbo | | KNA1 | 2 | | |
| | KNA1 | dgsAP | dbo | KNA1 | 3 | | |

Copy Wave – Self Reference - - (Access from Waves)

Go back to Waves page. Click on the Self Referenced Tables button. It opens the Self Referenced Tables: Self Referenced Views page. In the parent pane, are displayed the tables by ProcessArea referenced at any view or sub view used in any rule, report, export or remediation in scope from the Source wave but that are not yet included for creation.

The screenshot displays two sections of a software interface. The top section, titled "Self Referenced Tables", contains a table with the following data:

| PROCESS AREA | TABLE NAME | FORCE CREATION |
|--------------|---------------------|--------------------------|
| MM | stMARA_SAPECC6_MARA | <input type="checkbox"/> |

The bottom section, titled "Self Referenced Views", contains a table with the following data:

| PARENT VIEW NAME | REFERENCING VIEW |
|------------------------------|----------------------------------|
| tvMARC_MATNR_existsInMARASel | tvMARC_MATNR_existsInMARA_040Sel |

If Force Creation button is ticked that table will be generated in the new dsw database. If Force Creation is not ticked, Parent View Name view displayed in the Self Referenced Views page and its tables or view dependencies will not be created unless they are used in another view. Click on Dependent Objects button to see all dependencies.

Be aware that table displayed at Self Referenced Tables > Table Name field might not be a valid table since the source data or the source table might change.

Copy Wave – Sources - (Access from Waves)

Go back to Waves page. Click on the Sources button. It opens as a child pane the Sources page.

Sources 🔍 ⚙️ 2 rows

Add Edit

| ✎ S | SOURCE ID ▼ | COPY SOURCE | NEW SOURCE ID | NEW SYSTEM TYPE ID | INCLUDE MAP |
|-----|-----------------|--------------------------|-----------------|--------------------|-------------------------------------|
| ✎ 📄 | sdbDSPConstruct | <input type="checkbox"/> | sdbDSPConstruct | DSPConstruct | <input checked="" type="checkbox"/> |
| ✎ 📄 | sdbSAPECC6 | <input type="checkbox"/> | sdbSAPECC6 | SAPECC6 | <input checked="" type="checkbox"/> |

There are 4 scenarios that can be set up in Sources. All of them can coexist in the same copy wave:

- A. Split Source: A source can be split into multiple sources
- B. Discard Source: A source can be discarded
- C. Merge Source: Different sources can merge into a source
- D. Replace Source: A source is replaced by another one.

A) Split Source

Click on Add button. Select in Source ID the source that needs to be split. Tick Copy Source and select the new source in New Source ID field.

Sources 🔍 ⚙️ 3 rows

Add Edit

| ✎ S | SOURCE ID ▼ | COPY SOURCE | NEW SOURCE ID | NEW SYSTEM TYPE ID | INCLUDE MAP |
|-----|-----------------|-------------------------------------|-----------------|--------------------|-------------------------------------|
| ✎ 📄 | sdbDSPConstruct | <input type="checkbox"/> | sdbDSPConstruct | DSPConstruct | <input checked="" type="checkbox"/> |
| ✎ 📄 | sdbSAPECC6 | <input checked="" type="checkbox"/> | sdbSAP_PC | SAPECC6 | <input type="checkbox"/> |
| ✎ 📄 | sdbSAPECC6 | <input checked="" type="checkbox"/> | sdbSAPECC6 | SAPECC6 | <input checked="" type="checkbox"/> |

B) Discard Source

All sources are by default discarded. In order to discard a source, untick the Copy Source field.

Sources 🔍 ⚙️ 2 rows

Add Edit

| ✎ S | SOURCE ID ▼ | COPY SOURCE | NEW SOURCE ID | NEW SYSTEM TYPE ID | INCLUDE MAP |
|-----|-----------------|--------------------------|-----------------|--------------------|-------------------------------------|
| ✎ 📄 | sdbDSPConstruct | <input type="checkbox"/> | sdbDSPConstruct | DSPConstruct | <input checked="" type="checkbox"/> |
| ✎ 📄 | sdbSAPECC6 | <input type="checkbox"/> | sdbSAPECC6 | SAPECC6 | <input checked="" type="checkbox"/> |

C) Merge Source

In order to do a source merge, tick all copy source for all source IDs to merge and change its new source ids to the same value.

Sources 🔍 ⚙️ 2 rows

| S | SOURCE ID ▼ | COPY SOURCE | NEW SOURCE ID | NEW SYSTEM TYPE ID | INCLUDE MAP |
|---|-----------------|-------------------------------------|---------------|--------------------|-------------------------------------|
| | sdbDSPConstruct | <input checked="" type="checkbox"/> | sdbSAPECC6 | SAPECC6 | <input checked="" type="checkbox"/> |
| | sdbSAPECC6 | <input checked="" type="checkbox"/> | sdbSAPECC6 | SAPECC6 | <input checked="" type="checkbox"/> |

D) Replace Source

SourceID is replaced by NewSourceID. In order to replace, Copy Source field must be ticked.

Sources 🔍 ⚙️ 2 rows













| S | SOURCE ID ▼ | COPY SOURCE | NEW SOURCE ID | NEW SYSTEM TYPE ID | INCLUDE MAP |
|---|-----------------|-------------------------------------|-------------------|--------------------|-------------------------------------|
| | sdbDSPConstruct | <input checked="" type="checkbox"/> | sdbDSPConstructAO | DSPConstruct | <input checked="" type="checkbox"/> |
| | sdbSAPECC6 | <input checked="" type="checkbox"/> | sdbSAP_PC | SAPECC6 | <input checked="" type="checkbox"/> |

Besides, those scenarios, there is also the possibility to include or exclude the copy of all the mappings (in Map) for a source.

Web Page Screen shot:

The screenshot shows a web application interface with a green sidebar on the left containing a menu with items like Issues, Metrics, SightLine, Auto-Validation, Copy Wave, Reports, and Admin. The main content area is divided into two sections: 'Waves' and 'Sources'.
 The 'Waves' section has a table with columns: WAVE ID, NEW WAVE, NEW DESCRIPTION, TARGET SYSTEM ID, NEW TARGET SYSTEM ID, CREATED, and a set of icons. It lists three waves: AdamTest, Educate, and IV.
 The 'Sources' section has a table with columns: SOURCE ID, COPY SOURCE, NEW SOURCE ID, NEW SYSTEM TYPE ID, and INCLUDE MAP. It lists two sources: sdbSAP and sdbTest, both with 'INCLUDE MAP' checked.

Image Definitions:

| Image | Description of the process |
|--|---|
|  | Execute Wave Copy. |
|  | Process area available for the wave copy. |
|  | Transform Settings (Rules, Reports and Exports) available for the wave copy. |
|  | Assembly Where Clauses that will be copied during the execution. |
|  | Cross Reference databases used in the view of the current wave |
|  | Self-Reference Tables in the current wave that will be copied |
|  | Source used in the Current Wave. There is an option to copy them to the new wave. |
|  | Business Contacts available to be copied or replaced with new contacts. |
|  | Developers available to be copied or replaced with new developers. |
|  | Error Summary listing errors of view and procedures not available for the copy. |
|  | Objects found in the wave that will be copied to the new wave. |
|  | Targets found in the wave that will be copied in the new wave. |

Copy Wave – Business Contacts - (Access from Waves)

Go back to Waves page. Click on the Business Contacts button. It opens as a child pane the Business Contacts page.

Business Contacts 🔍 ⚙️
3 rows

Add Edit

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|---------------|-------------------|-----------|-------------|--------------------------|--|
| | | Administrator | Administrator | | | <input type="checkbox"/> | |
| | | Anonymous | Anonymous User | | | <input type="checkbox"/> | |
| | | ARR_SI | System Integrator | | | <input type="checkbox"/> | |

There are 4 scenarios that can be set up in Business Contacts. All of them can coexist in the same copy wave:

- A. Append Users: Users are maintained at all TTs in scope
- B. Discard Users: Users are not maintained anywhere
- C. Keep Users: Same users are kept on the same TTs
- D. Replace Users: Users are replaced on the same TTs where the Source ones were

A) Append Users

If Append To All Targets is ticked for any user, it will be maintained for all TTs in scope. Users to append to all targets can be either set at the Source wave already, and so displayed when the Business Contacts Page is open, or added manually by clicking on the Add button.

Business Contacts 🔍 ⚙️
3 rows

Add Edit

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|----------------|-----------|-------------|-------------------------------------|--|
| | | DCOUCEIRO | David Couceiro | | | <input checked="" type="checkbox"/> | |
| | | JGARRO | Julen Garro | | | <input checked="" type="checkbox"/> | |
| | | TEST1 | Test1 | | | <input checked="" type="checkbox"/> | |

Note that if Append To All Targets is selected, Copy User is disabled and the other way around.

B) Discard Users

If Copy Source and Append To All Targets are not ticked, user will be discarded.

Business Contacts 🔍 ⚙️ 3 rows

Add Edit

| S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|---|-----------|----------------|--------------------------|-------------|--------------------------|--|
| | DCOUCEIRO | David Couceiro | <input type="checkbox"/> | | <input type="checkbox"/> | |
| | JGARRO | Julen Garro | <input type="checkbox"/> | | <input type="checkbox"/> | |
| | TEST1 | Test1 | <input type="checkbox"/> | | <input type="checkbox"/> | |

C) Keep Users

In order to keep the same users in the same TTs, tick Copy User field.

Business Contacts 🔍 ⚙️ 3 rows

Add Edit

| S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|---|-----------|----------------|-------------------------------------|-------------|--------------------------|--|
| | DCOUCEIRO | David Couceiro | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| | JGARRO | Julen Garro | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| | TEST1 | Test1 | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |

D) Replace Users

In order to replace a user by another one, tick Copy User field and maintain NewUserID.

Business Contacts 🔍 ⚙️ 3 rows

Add Edit

| S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|---|-----------|----------------|-------------------------------------|-------------|--------------------------|--|
| | DCOUCEIRO | David Couceiro | <input checked="" type="checkbox"/> | ACASTRO | <input type="checkbox"/> | |
| | JGARRO | Julen Garro | <input checked="" type="checkbox"/> | ADibeh | <input type="checkbox"/> | |
| | TEST1 | Test1 | <input checked="" type="checkbox"/> | AGR | <input type="checkbox"/> | |

Note that users Add manually, cannot be copied since they are not maintained in the Source wave.

Web Page Screen shot:

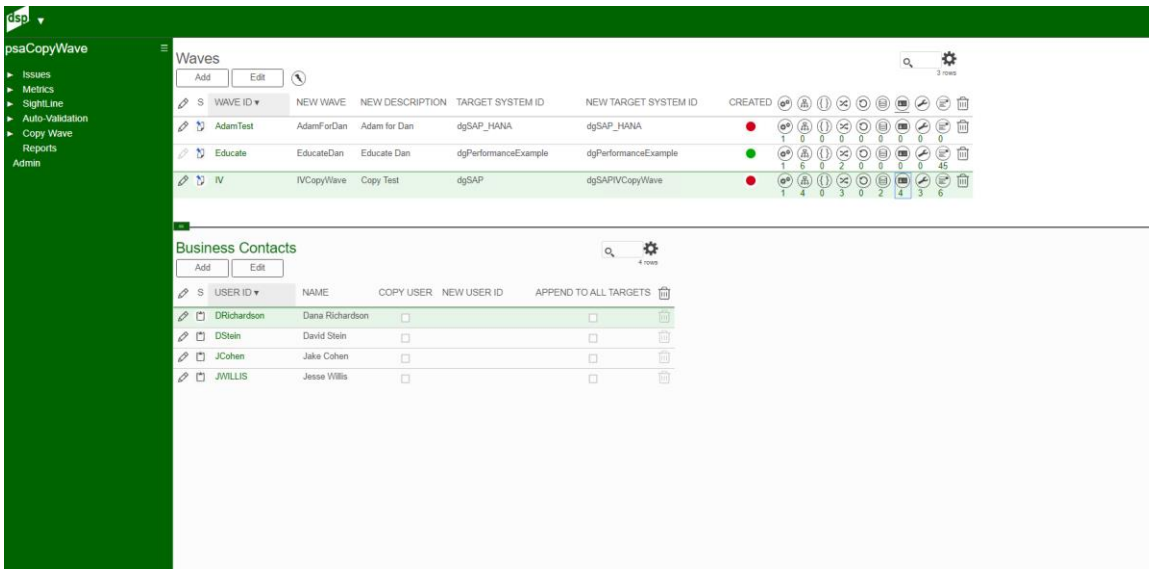


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Execute Wave Copy. |
| | Process area available for the wave copy. |
| | Transform Settings (Rules, Reports and Exports) available for the wave copy. |
| | Assembly Where Clauses that will be copied during the execution. |
| | Cross Reference databases used in the view of the current wave. |
| | Self-Reference Tables in the current wave that will be copied. |
| | Source used in the Current Wave. There is an option to copy them to the new wave. |
| | Business Contacts available to be copied or replaced with new contacts. |
| | Developers available to be copied or replaced with new developers. |
| | Error Summary listing errors of view and procedures not available for the copy. |
| | Objects found in the wave that will be copied to the new wave. |
| | Targets found in the wave that will be copied in the new wave. |

Copy Wave - Developers Contacts - (Access from Waves)

Go back to Waves page. Click on the Developer Contacts button. It opens as a child pane the Developer Contacts page.

There are 4 scenarios that can be set up in Developer Contacts (Same as Business Contacts). All of them can coexist in the same copy wave:

Developer Contacts

3 rows

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|----------------|-----------|-------------|--------------------------|--|
| | | DGINARD | Dani Ginard | | | <input type="checkbox"/> | |
| | | JGARRO | Julen Garro | | | <input type="checkbox"/> | |
| | | SGALINDO | Sergio Galindo | | | <input type="checkbox"/> | |

- A. Append Users: Users are maintained at all TTs in scope
- B. Discard Users: Users are not maintained anywhere
- C. Keep Users: Same users are kept on the same TTs
- D. Replace Users: Users are replaced on the same TTs where the Source ones were.

A) Append Users

If Append To All Targets is ticked for any user, it will be maintained for all TTs in scope. Users to append to all targets can be either set at the Source wave already, and so displayed when the Developer Contacts Page is open, or added manually by clicking on the Add button.

Note that if Append To All Targets is selected, Copy User is disabled and the other way around.

Developer Contacts

3 rows

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|----------------|-----------|-------------|-------------------------------------|--|
| | | DGINARD | Dani Ginard | | | <input checked="" type="checkbox"/> | |
| | | JGARRO | Julen Garro | | | <input checked="" type="checkbox"/> | |
| | | SGALINDO | Sergio Galindo | | | <input checked="" type="checkbox"/> | |

B) Discard Users

If Copy Source and Append To All Targets are not ticked, user will be discarded.

Developer Contacts

3 rows

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|----------------|--------------------------|-------------|--------------------------|--|
| | | DGINARD | Dani Ginard | <input type="checkbox"/> | | <input type="checkbox"/> | |
| | | JGARRO | Julen Garro | <input type="checkbox"/> | | <input type="checkbox"/> | |
| | | SGALINDO | Sergio Galindo | <input type="checkbox"/> | | <input type="checkbox"/> | |

C) Keep Users

In order to keep the same users in the same TTs, tick Copy User field.

Developer Contacts

2 rows

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|------------------|-------------------------------------|-------------|--------------------------|--|
| | | ARAMIREZ | Alex Ramirez | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| | | ARUBIO | Ana Garcia Rubio | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |

D) Replace Users

In order to replace a user by another one, tick Copy User field and maintain NewUserID.

Developer Contacts

2 rows

| | S | USER ID ▼ | NAME | COPY USER | NEW USER ID | APPEND TO ALL TARGETS | |
|--|---|-----------|------------------|-------------------------------------|-------------|--------------------------|--|
| | | ARAMIREZ | Alex Ramirez | <input checked="" type="checkbox"/> | COTMAN | <input type="checkbox"/> | |
| | | ARUBIO | Ana Garcia Rubio | <input checked="" type="checkbox"/> | DTUDARA | <input type="checkbox"/> | |

Note that users Add manually, cannot be copied since they are not maintained in the Source wave.

Web Page Screen shot:

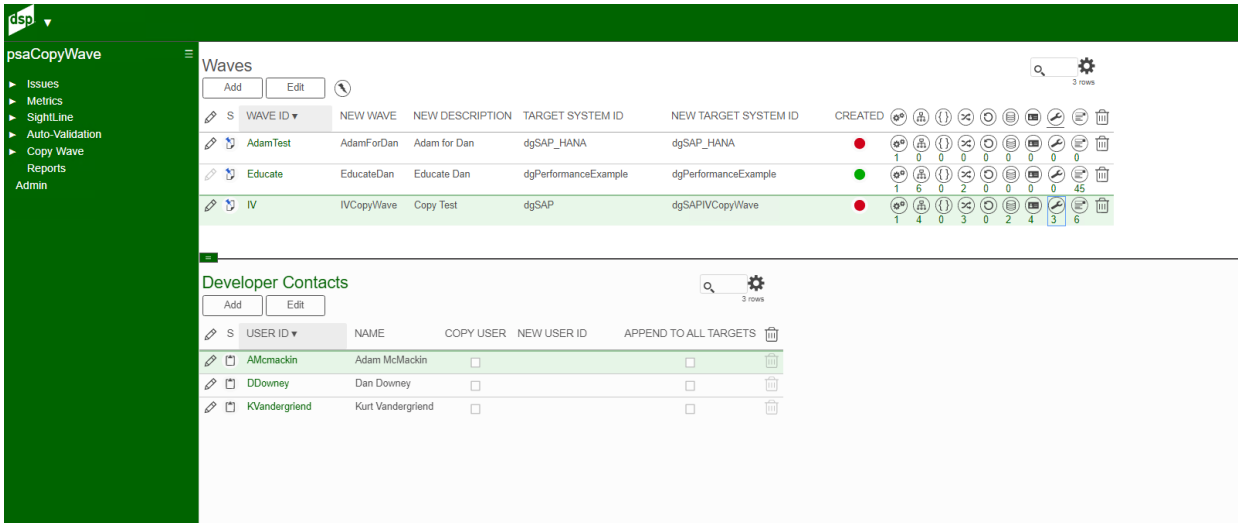


Image Definitions:

| Image | Description of the process |
|-------|---|
| | Execute Wave Copy. |
| | Process area available for the wave copy. |
| | Transform Settings (Rules, Reports and Exports) available for the wave copy. |
| | Assembly Where Clauses that will be copied during the execution. |
| | Cross Reference databases used in the view of the current wave. |
| | Self-Reference Tables in the current wave that will be copied. |
| | Source used in the Current Wave. There is an option to copy them to the new wave. |
| | Business Contacts available to be copied or replaced with new contacts. |
| | Developers available to be copied or replaced with new developers. |
| | Error Summary listing errors of view and procedures not available for the copy. |
| | Objects found in the wave that will be copied to the new wave. |
| | Targets found in the wave that will be copied in the new wave. |

Copy Wave – Error Messages- (Access from Process Area or Waves)

Go back to Waves page. Click on the Error Messages button. It opens as a child pane the Error Messages page.

Error Messages 1 rows

| WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | VIEW NAME | SQL VIEW CREATED | ERROR MESSAGE |
|----------------------|-----------------------------|------------------------------------|----------------------------------|----------------------|---|
| | | DESCRIPTION | PROCEDURE NAME | SQL PROCEDURE CREATE | PROCEDURE ERROR MESSAGE |
| MM | Material Master | ttMARA | tvMARA_MEINS_NotInT006_DetailSel | ● | View is missing at SQL level in Source Database |
| | | Material Master | | | |

Even though the copy wave has not been triggered yet, it may provide a few error messages that might need revision like a view in scope is missing at the Source database. When the copy wave is triggered, it will fail.

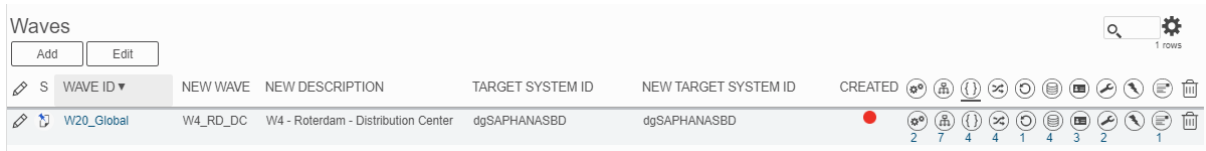
Review all error messages, check whether those views are necessary and if so, try to fix the error beforehand.

Web Page Screen shot:

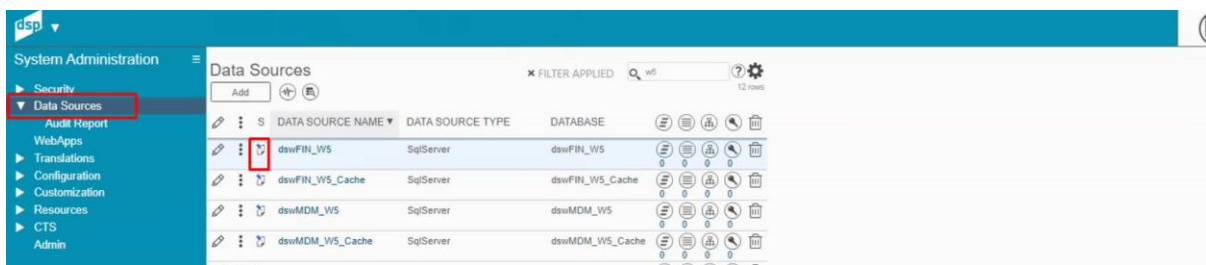
| WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | VIEW NAME | SQL VIEW CREATED | ERROR MESSAGE |
|----------------------|-----------------------------|------------------------------------|-----------------------------------|----------------------|---|
| | | DESCRIPTION | PROCEDURE NAME | SQL PROCEDURE CREATE | PROCEDURE ERROR MESSAGE |
| P2P | Material | ttMARD_INVENTORY | ttMARD_INVENTORY_WERKS_MissingSel | ● | View is missing at SQL level in Source Database |
| | | Test | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_FAKSD_NotInTVFS_DetailSel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_KUKLA_NotInTKLKI_DetailSel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |
| P2P | Material | ttKNA1_Postload | ttKNA1_Postload_NotLoaded_Sel | ● | View is missing at SQL level in Source Database |
| | | | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_BRSCHE_NotInT016_DetailSel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_SPRAS_NotInT002_SummarySel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_LIFSOD_NotInTVLS_DetailSel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |
| P2P | Material | ttMARD_INVENTORY | ttMARD_INVENTORY_MATNR_MissingSel | ● | View is missing at SQL level in Source Database |
| | | Test | | ● | |
| P2P | Material | ttKNA1 | ttKNA1_Info_SPRO_CheckRptSel | ● | View is missing at SQL level in Source Database |
| | | Test Customer | | ● | |

Copy Wave – Click the Copy on the Wave Page

Once all the previous steps have been met, go to Waves page and click on Copy Wave button.



It may take some time to generate the copy. In case Plugins are not installed (which by default they are not) and a new database has been created for a new process area, once the copy wave is completed, go to Admin > Data Sources and click on any Data Source validation button once.



Wait until it finishes and go back to PSA Wave Management webapp. Now all traffic lights should work properly.

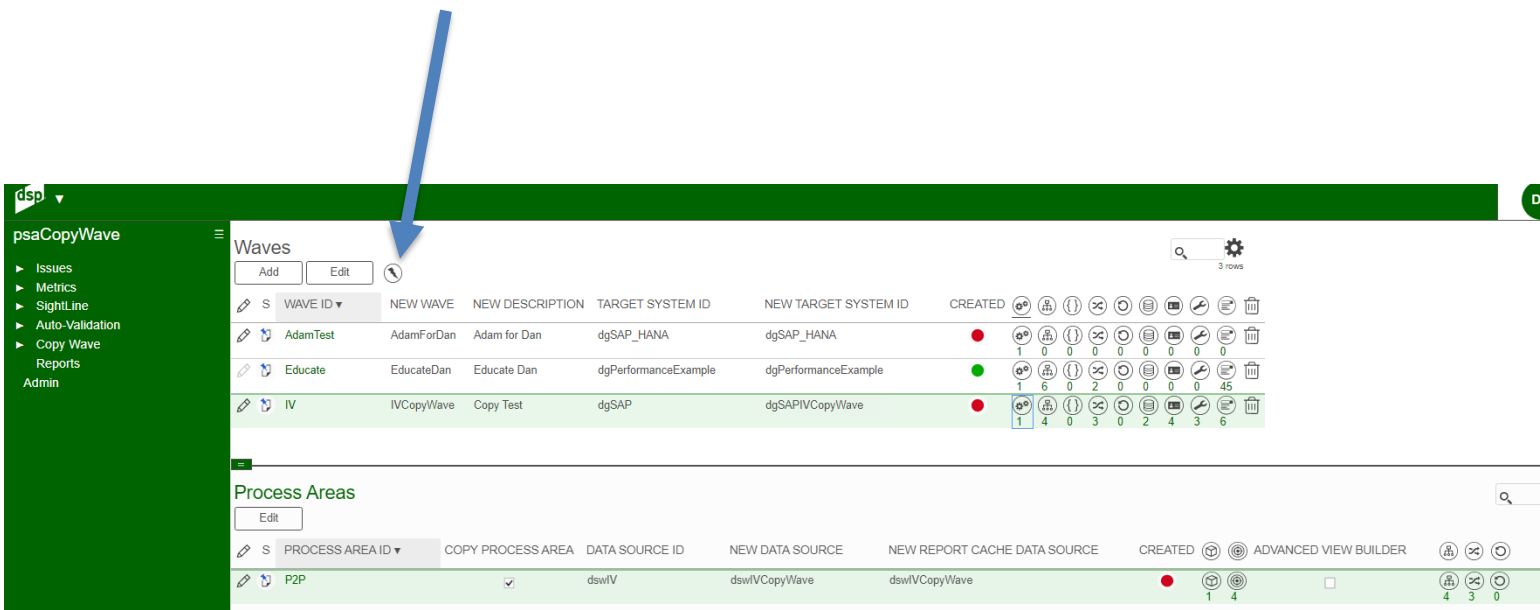
Note that a few might have changed before performing those actions, however, not all of them may change.

In case the wave copy failed, review in either PSA Wave Management or in ADM the scope. Check that all is with green light: PAs, OBs, TTs, Transform views and procedures. Remember that a new trigger can be processed at PA, OB, TT or Transform level. The system itself will enable the right options (See **Error! Reference source not found.**)

In case it did not fail, go to Error Messages page, review what failed (see traffic lights and error messages for more information) and try to fix it. Remember that a new trigger can be processed at PA, OB, TT or Transform level. The system itself will enable the right options (See **Error! Reference source not found.**)

Additional information:

- If AVB option was ticked, it will register a record in Collect > Tools > Advanced View Builder and views will be created in the new database. However, database used by each record at the AVB must be reviewed and, if necessary, record must be processed again in order to recreate all views.
- Review all fields, sources and users at Target Design. In case it is necessary, trigger Sync to Map (not mandatory)
- Review all mappings, Sources, Assemble Where Clauses at Map. Code and configuration within mappings have not been changed. If Source Tables were not found at the source database, *SELECT SOURCE* watermark will be displayed.
- None standard Apps or functionalities are out of scope.



Copy Wave - Scope trouble Shooting

In case something was misconfigured like a wrong source replacement has been applied, or a wrong user id was configured or anything huge enough that would take too much time to fix it manually, there is a way to re-do it:

For all those tables where the error was found, the tables must be deleted from ADM > Target Design.

Then, go back to PSA Wave Management and refresh browser's page (press F5). Now, TTs should be displayed as not created. In order to re-generate those TTs

Copy Wave – Check List

1. Register new wave in PSA Copy Wave Management
2. Define PAs, OBs, TTs and Views/Procedures at transform in scope.
3. Define NewDataSources, NewReportCacheDataSource and AVB for each PA in scope. If SQL user does not have permissions to create and modify databases, it would be necessary to create those beforehand if transform elements are necessary.

The screenshot displays two tables in the PSA Copy Wave Management interface. The top table, 'Waves', has columns for WAVE ID, NEW WAVE, NEW DESCRIPTION, TARGET SYSTEM ID, NEW TARGET SYSTEM ID, and CREATED. The bottom table, 'Process Areas', has columns for PROCESS AREA ID, COPY PROCESS AREA, DATA SOURCE ID, NEW DATA SOURCE, NEW REPORT CACHE DATA SOURCE, CREATED, and ADVANCED VIEW BUILDER. Red boxes highlight the 'COPY PROCESS AREA' column in the Process Areas table and the 'CREATED' column in the Waves table.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------------------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 8 137 4 51 0 5 23 6 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 8 142 1 29 0 0 0 0 |

| PROCESS AREA ID | COPY PROCESS AREA | DATA SOURCE ID | NEW DATA SOURCE | NEW REPORT CACHE DATA SOURCE | CREATED | ADVANCED VIEW BUILDER |
|-----------------|-------------------|----------------|-----------------|------------------------------|---------|-----------------------|
| FIN | ✓ | dswFIN_W3 | | | 7 14 | 14 9 0 |
| MDM | ✓ | dswMDM_W3 | | | 5 6 | 8 8 0 |
| MNF | ✓ | dswMNF_W3 | | | 3 5 | 5 5 0 |
| PRE | ✓ | dswPRE_W3 | | | 11 14 | 14 4 0 |
| PUR | ✓ | dswPUR_W3 | | | 4 25 | 25 9 0 |

4. Define SOs, BCs, DCs
 - a. Double check SO 1-1 correlations. If necessary, add new sources or replace existing. Tick necessary ones for copy and define whether mappings are necessary.

Waves

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------------------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 8 137 4 51 0 5 23 6 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 8 142 1 29 0 0 0 0 |

Developer Contacts

| USER ID | COPY USER | NEW USER ID | APPEND TO ALL TARGETS |
|---------|--------------------------|-------------|--------------------------|
| TMGdagi | <input type="checkbox"/> | | <input type="checkbox"/> |
| TMGenf | <input type="checkbox"/> | | <input type="checkbox"/> |
| TMGfep | <input type="checkbox"/> | | <input type="checkbox"/> |
| TMGjabe | <input type="checkbox"/> | | <input type="checkbox"/> |
| TMGlug | <input type="checkbox"/> | | <input type="checkbox"/> |
| TMGmigo | <input type="checkbox"/> | | <input type="checkbox"/> |

- b. If users must be set up where they were set up, just flag copy user field. If any needs to be replaced, flag both copy user and fill in NewUserID. If there is a user that needs to be set up in all tables, flag Appendtoalltargets field. If user is no longer involved in the new migration, leave all flags empty.

5. Set up new Assemble Where Clause Databases if necessary. If New Database is left blank, Source Assemble Where Clause will be copied as it is.

Waves

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------------------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 8 137 4 51 0 5 23 6 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 8 142 1 29 0 0 0 0 |

Assemble Where Clause Databases

| DATABASE | NEW DATABASE |
|------------------------|--------------|
| DataConstructionServer | |
| dswMDM_W3 | |
| dswPRE_W3 | |
| swPRE_W3 | |

6. Self-Referenced Tables and Cross-Referenced Databases
 - a. Self-Referenced Tables: Tick to force creation those necessary tables.
 - b. Cross Referenced Databases: Fill in a NewDatabase in case it is necessary to change the database in all the correlated tables and views. Also, in case a database replacement is set, tables can also be created in that database.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 51 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 142 |

7. Transform. Click at the Transform button.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 137 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 142 |

- a. Define rules, exports, reports and remediations in scope. By default, all inactive are disabled.

8. Trigger Wave Copy.

| WAVE ID | NEW WAVE | NEW DESCRIPTION | TARGET SYSTEM ID | NEW TARGET SYSTEM ID | CREATED |
|------------|-----------|-----------------------------|------------------|----------------------|---------|
| W3_PC_KAL | W6_PC_XXX | Wave 6 - RDC - XXX | dgInforM3_MIG | dgInforM3_MIG | 137 |
| W4_RDC_CAN | W5_RDC_ZA | Wave 5 - RDC - South Africa | dgInforM3_MIG | dgInforM3_MIG | 142 |

9. In case PlugIns are not installed (which by default they are not), once the copy wave is completed, go to Admin > Data Sources and click on any Data Source validation button once.

| DATA SOURCE NAME | DATA SOURCE TYPE | DATABASE |
|------------------|------------------|-----------------|
| dswFIN_W5 | SqlServer | dswFIN_W5 |
| dswFIN_W5_Cache | SqlServer | dswFIN_W5_Cache |
| dswMDM_W5 | SqlServer | dswMDM_W5 |
| dswMDM_W5_Cache | SqlServer | dswMDM_W5_Cache |

10. Check errors page, review that all reports, rules and so on have been created successfully (see traffic lights).
 - If AVB option was ticked, it will register a record in Collect > Tools > Advanced View Builder and views will be created in the new database. However, database used by each record at the AVB must be reviewed and, if necessary, record must be processed again in order to recreate all views.

11. Review all fields, sources and users at Target Design. In case it is necessary, trigger Sync to Map (not mandatory)
 - Review all mappings, Sources, Assemble Where Clauses at Map. Code and configuration within mappings have not been changed. If Source Tables were not found at the source database, *SELECT SOURCE* watermark will be displayed.
 - None standard Apps or functionalities are out of scope.

12. In case there is that needs to be reprocessed, trigger Generate Transform button

| Transform - Targets | | | | | | | | | | |
|--------------------------|------------|-------------|----------------------|-----------------------------|------------------------------------|---|----|---|--|--|
| S | WAVE ID | NEW WAVE ID | WAVE PROCESS AREA ID | WAVE PROCESS AREA OBJECT ID | WAVE PROCESS AREA OBJECT TARGET ID | | | | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Vendors_99999 | tlLFA1 | 0 | 0 | 0 | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Vendors_99999 | tlLFA1_2 | 0 | 0 | 0 | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Material Master | tlMARC | 5 | 13 | 0 | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Material Master | tlMARA | 0 | 5 | 0 | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Material Master | tlMBEW | 0 | 0 | 0 | | |
| <input type="checkbox"/> | W20_Global | NewWave180 | MM | Vendors_99999 | tlLFA1_3 | 0 | 5 | 0 | | |

| Transform - Reports | | | | | | | | | | | |
|--------------------------|----------|--------|-----------------------------------|------------------------------|-----------|-------------|-------------|-------------|------------------|---------------------------|---|
| S | PRIORITY | STATUS | TARGET REPORT | DESCRIPTION | ADDED VIA | COPY REPORT | ADM CREATED | SQL CREATED | COPY REMEDIATION | FIXED REMEDIATION CREATED | ERROR MESSAGE |
| <input type="checkbox"/> | 2 | Active | tlMARC_MATNR_MissingSel | Material Number is missing. | Autogen | ✓ | 1 | ● | ● | ● | |
| <input type="checkbox"/> | 3 | Active | tlMARC_WERKS_MissingSel | Plant is missing. | Autogen | ✓ | 1 | ● | ● | ● | |
| <input type="checkbox"/> | 4 | Active | tlMARC_MATNR_existsInMARASet | Test Copy Wave Transform | Manual | ✓ | 13 | ● | ● | ● | View must be created manually. Dependent table not in scope |
| <input type="checkbox"/> | 1002 | Active | tlMARC_MATNR_NotInMARA_SummarySel | Material Number not in MARA. | Autogen | ✓ | 4 | ● | ● | ● | |
| <input type="checkbox"/> | 3002 | Active | tlMARC_MATNR_NotInMARA_DetailSel | Material Number not in MARA. | Autogen | ✓ | 3 | ● | ● | ● | |

Version History

| Version | Date | Written By | Written On | Approved By | Approved On |
|---------|-----------|------------|------------|--------------|-------------|
| 1.0 | 7/1/2010 | Josh Ford | 6/10/2020 | Larry Rich | 6/30/2020 |
| 2.0 | 1/31/2021 | Dan Downey | 1/05/2021 | Manny Doucet | 1/21/2021 |
| 3.0 | 6/15/2021 | Dan Downey | 6/1/2021 | Manny Doucet | 6/15/2021 |