







Feature Scope Description

SAP EAM, add-on for MRO 3.0 by HCL for SAP S/4HANA
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Document Control

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Foreword

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The following icons are used throughout this document:



Suggestion or tip



Warning or caution



Example or illustration



Problem or strong caution

SAP commands and inputs are provided in UPPER CASE ITALICS.





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Overview

Purpose

The industry solution for maintenance, repair and operations or overhaul (Add-on) Electronic Work Instructions (EWI) solution provides a customer-defined layout for online display of work instructions, supporting the execution of repair and manufacturing work orders in a single user-friendly operator portal. Information displayed is configurable, based on sets of "instructions" to represent typical electronic work instruction data from the work order (components, text, drawings, tools, inspection results etc.). As well as a user-friendly display of work instruction data in electronic form, EWI allows shop floor operator input via single-click action buttons and codes to make capture of shop floor data in a full screen terminal device as efficient and accurate as possible.

Through EWI, shop floor based and workshop mechanics, technicians and lead mechanics are able to record work performed and display work instructions. EWI is intended for one of the following two modes:

- As a configurable print-layout for job cards and SAP work instruction data, to support recording of shop floor events and input of these events by clerical assistants or production technicians and supervisors after the event, OR
- As a real-time electronic work order display and event capture tool, in the hands of or close to maintenance technicians as they perform work in the aircraft, engine, complex asset or component repair work-shops.

UI5- EWI displays work order and related information on a UI5 screen, with all relevant information available to the operator to perform shop floor work execution tasks. It is assumed that UI5- EWI is always connected to the SAP back-end system, i.e. that a robust wired or wireless network is available in the workshop environment. This tool is not intended for use by line or field maintenance technicians who are occasionally offline.

UI5-EWI include following functionalities- Order list based on variant, searching order through selection screen, order header detail display, order release, order technically completion (TECO) editing order header long text, display comment, add comment, operation list display, list of operation display, sub operations display, operation header detail display, operation long text editing, display operation comment, add operation comment, operation PRT list display, display of component list, add operation, delete operation, add component, delete component, object list table display, Header notification detail display, Notification long text editing, display notification planner comment, add notification planner comment, Notification completion (NOCO), labor clocking (including job clock on/off based on the Add-on Labor Solution¹), labor clocking event table, digital signature, revoking digital signatures, digital signature log, Confirm order ,display documents, create defect, download document.

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¹ Refer to Labor feature scope guide for more information





Implementation Considerations

- You have deployed and configured SAP S/4 HANA 1709 component
- You are using SAP's Plant or Service Maintenance (PM/SM) module to manage work orders and scheduling of orders.
- You have configured and created valid Personnel ID's² in SAP's Human Capital Mgt. (HCM) module

Operators

This user guide is intended for:

Shop floor personnel to understand how to access EWI UI5, book time to orders,

insert operator comments and inspection notes and results, create, change, display orders, check and update user status,

insert / update and delete PRT and Documents etc.

Shop floor supervisors to understand how to access EWI UI5 for the above plus split

orders or transfer work, raise sub-orders (from defects or otherwise), check conformity, confirm the as-built structure, perform qualifications checks against skills/certifications and

assign orders to shop floor personnel

IT operations staff to understand how the process runs and what system monitoring

and administration is required to keep EWI UI5 running

successfully

SAP analysts/consultants to understand how to execute the EWI UI5 App

SAP developers to understand how to extend the EWI UI5 instructions to quickly

build customer specific screen layouts, access custom data sources and tables and perform customer-defined actions or

updates.

² Personnel ID input is recommended but not required if you have separate SAP user-ids per

shop floor person or user. They are required however to use the Labor Solution

Proprietary @ HCL 2018





Features Summary

Fiori based Electronic Work Instruction (EWI) is part of HCL industry solution for Maintenance and Manufacturing add-on to SAP's Enterprise Resource Planning solution, Maintenance and Manufacturing Execution. EWI is a two-way interface allowing an electronic view of the work order combining all necessary operator data into a single user interface.





Process Flow

The EWI application is designed to offer a simplified user interface to help shop floor users to execute shop floor operations on any work order. The application can be launched through SAP Fiori Launchpad or as standalone app on browser.

Functionalities flow

1. User variant

Once the authentication is done on login via SAP Fiori Launchpad page or as standalone application URL, Order list will be fetched based on the default variant available in system. The application enables user to create his/her own variant, update any existing variant or simply select any variant among the list of variants (if there is any).

1.1. Select user variant

User can select any variant from the list if available, according to the required data/order saved in the variant by clicking on button which will show a drop down list of available variants either created ab APP or by Transaction.

Electronic Work Instructions Advanced Order Search List of Orders items(2) Search **©** Order Description Equipment Functional Location 4002400 4002560 10000033 Advanced Order Search Click here Order → Notification to open ☐ Plant Work Center
 Work Network Activity variant list U_IMRODEV2

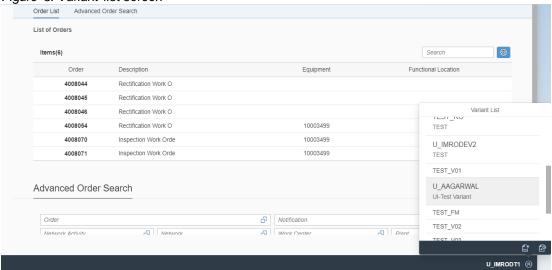
Figure 2: Order list screen

After clicking on the button drop down list will be displayed.



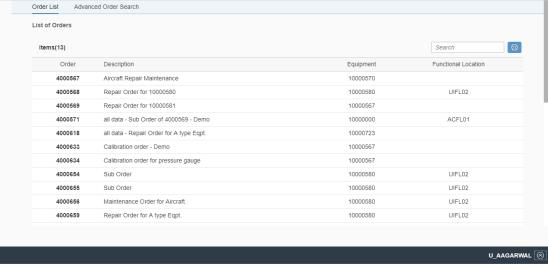


Figure 3: Variant list screen



User can select any variant from the list to display the order list saved in that variant.

Figure 4: selected user variant order list



1.2. Create user variant

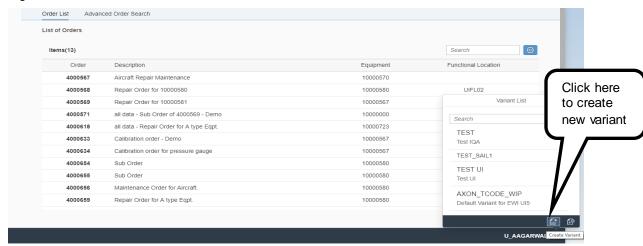
If user wants to create his/her own variant with existing or different orders/order for that this app also allows user to create new variant.

In variant drop down list user has a create variant button by clicking on that the screen will be navigated to the create variant screen where user need to enter the required data.





Figure 5: variant list



Create variant screen has 3 section user can scroll down or click on them separately.

Figure 6: variant screen (selection for prioritization)

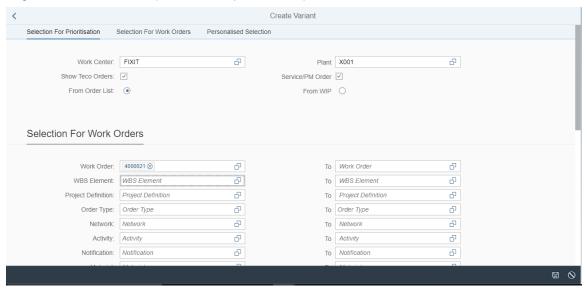






Figure 7: create variant screen (selection for work orders)

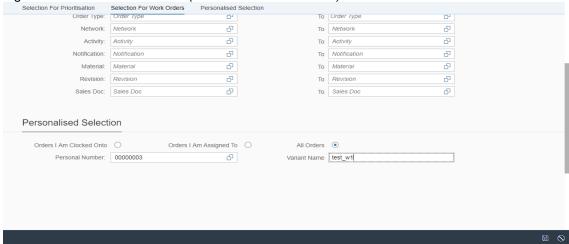
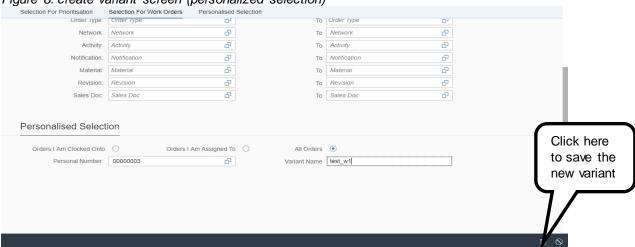


Figure 8: create variant screen (personalized selection)



Create variant screen has 3 section which separately have some key fields which user has to enter to create a new variant.

The create variant functionality is replica of Add-on transaction /AXONX/WIPD2.

After entering all the required/key fields click on the save button a success message will pop up "Variant created successfully"

Now user can select and work on created variant by selecting it from the available variant list.

1.3. Update user variant

The app also enables user to make changes in any existing variant e.g. if user wants to add new orders or replace the existing orders etc.

The functionality can be reached by clicking on update variant button which is available under variant drop down list. For updating any variant user needs to select that variant





TEST_PRAJ2 VAR_PRAJ

TEST_SAILAR

first once that particular variant is selected then user can change/update the variant.

Figure 9: Navigation to update variant screen Order List Advanced Order Search List of Orders Items(2) Search Order Description Equipment Functional Location 4002792 Repair Brake 10003546 Click here 10001503 4003277 test order to update Variant List the Advanced Order Search Search selected TEST_UI5APP_1 variant Order □ Plant Network Activity PALANI_TEST4 PALANI TEST6 PALANI TEST7

After clicking on the update variant button screen will be navigated to new screen which will show the existing data for that variant now user can change nay data as per his/her requirement

Update variant screen also have the sections like the create variant screen

Figure 10: update variant screen(selection for priortization & selection for work orders)

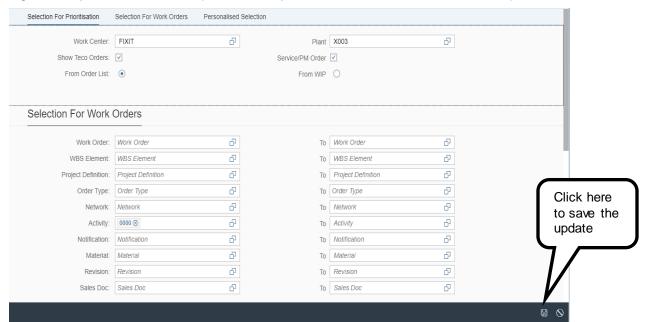
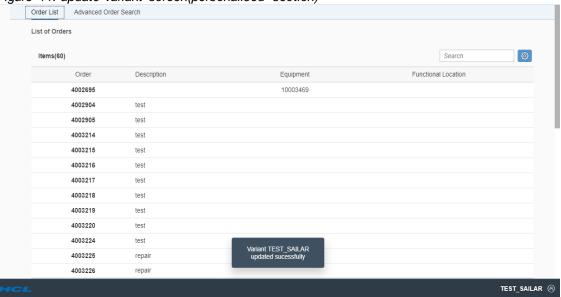






Figure 11: update variant screen(personalised section)



After maintaining/changing the required data user needs to click on save button which leads user to a success message "Update variant successful".



User can't change the name of any variant from the app.

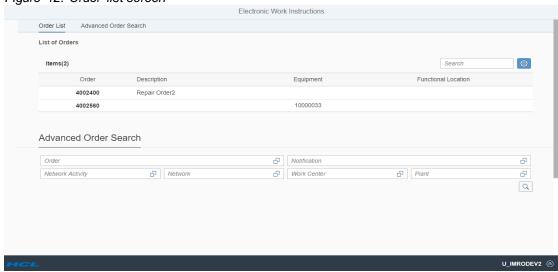
2. Order list

Once the user login authentication done, Order list (Order category 30/40) will be fetched, based on variant saved in WIP report. Priority will be User variant (if it exists). If user variant does not exist, then system will search for system default variant. Order list based on variant, shown below in figure 12.





Figure 12: Order list screen



2.1. Column Selection

Initially, order list will show only 4 field's data i.e. Order number, order description, Equipment number and functional location. User can selected for fields by clicking on

column selection lcon (icon shown in figure 13), and select the required fields as shown in the given below figure 14.

Figure 13: Column selection screen

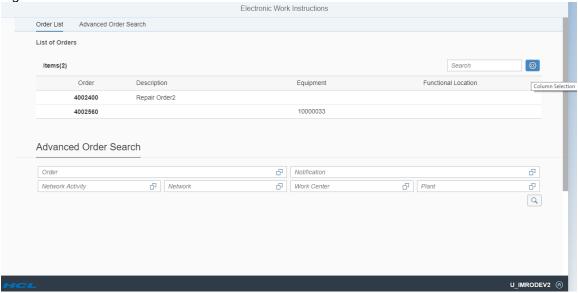
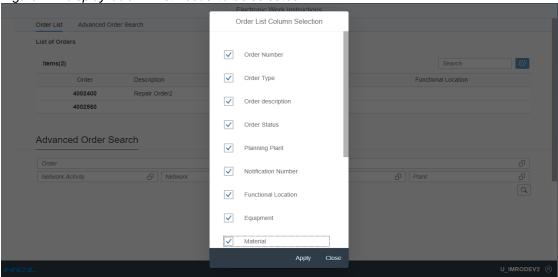




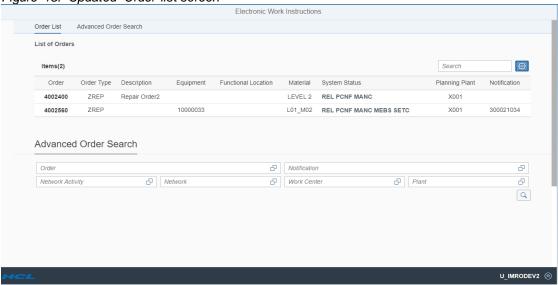


Figure 14: display column list needs to be selected



Selected fields will reflect on the list by clicking anywhere on the screen.

Figure 15: Updated Order list screen



2.2. Selection screen

This screen helps the user to navigate to any order which is not part of the orders list selected through the selection variant, as shown in figure 16. For opening the selection screen, click on selection button. In selection functionality, we have option to search order or orders through any one given below fields:







1. Order number open 2. Notification number selection 3. Network and activity screen 4. Work center and Plant Figure 16: Selection screen Electronic Work Instructions Advanced Order Search Order List 6 Order Network Activity ☐ Network ☐ Plant ð Q button, order or order list will be displayed after entering the order



Either if any one fields is mandatory in selection screen i.e. if user maintain order number and notification number, both then system gives a error message as "Please enter only one selection criteria". Maintaining value of activity is mandatory for Network. Similary work center plant and work center ,both should be maintained.

There is an option to read the orders through Bar code or QR code reading also. This option is active ,when we run the APP of the application. The fields to read the code will be there just after "work center plant".

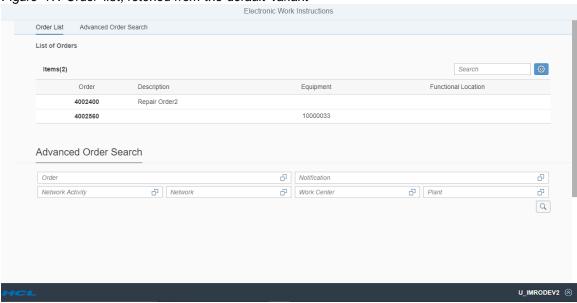
2.3. Default Order List

details.

After user authentication default order list based on default variant will be displayed to user, user can change the list by changing the variant.



Figure 17: Order list, fetched from the default variant



2.4. Navigation Pane List

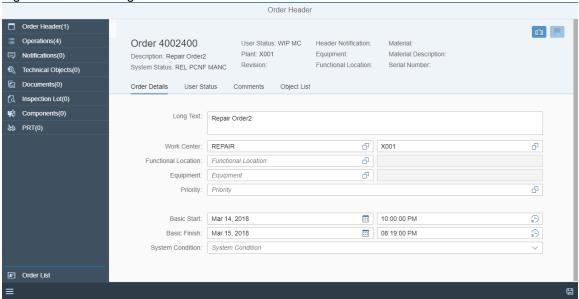
When user reaches any order then by clicking on button user can select any of the functionality given below.

- 1. Order header: It will show the header details of the order.
- 2. **Operations:** This functionality will show all operations, of the order in list form and further in detail too can be seen.
- 3. **Notification:** This functionality will show the detail of header notification of the order.
- **4. Technical Object:** This functionality will display the object list attached to the order in grid form.
- **5. Documents:** Any documents attached to this order header and operation level will be shown in this functionality.
- **6. Inspection lot:** this bar will navigate user to see the inspection lot generated for the inspection done and result recorded for all the MIC's attached to the order.
- 7. **Components**: This bar shows the components inserted in order.
- 8. PRT: this tab shows the cumulative PRT list used for all the operations in order





Figure 18: Order navigation





For going back to order list screen, click on or click on Orders button



3. Order Header

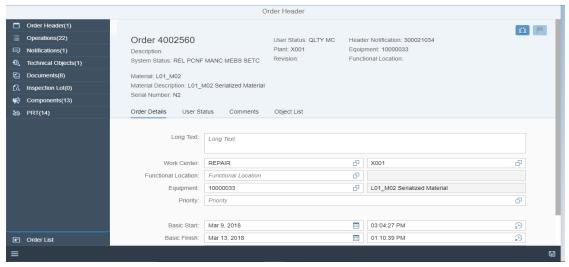
Clicking on order header functionality, order header detail screen will open. Order header detail screen will display the all-important fields of order header. See figure 19





Figure 19: Order header detail screen







All fields of order header detail screen will be in editable mode if order is not technically completed .

At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

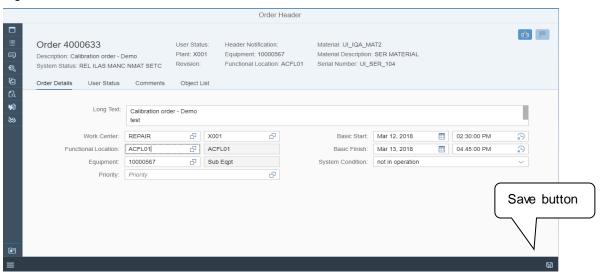




3.1. Change/Update Order

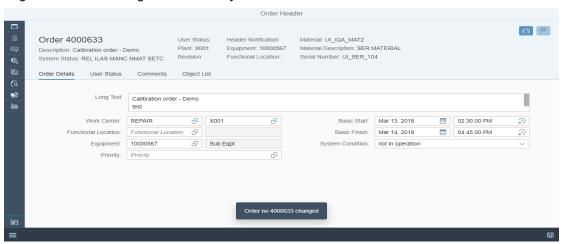
This functionality enables the user to change the Order details, if order is not technically completed then user can update the order information any time by coming to order header screen

Figure 20: Order header screen



Do the required changes and click on the save button.

Figure 21: Order changed successfully



For going back to order list screen, click on Orders button



to go back to order list screen.



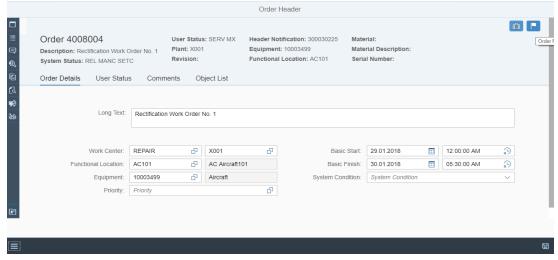


3.2. Order Release

Order with the status created (CTRD), can be released from here. A flag symbol is there to symbolize release button.

Figure 22: Release flag for order header







Initially when the order is in created status (CRTD), order release flag will be active and TECO icon will be disabled, but once we release the order release flag will be disabled and TECO icon will be active.



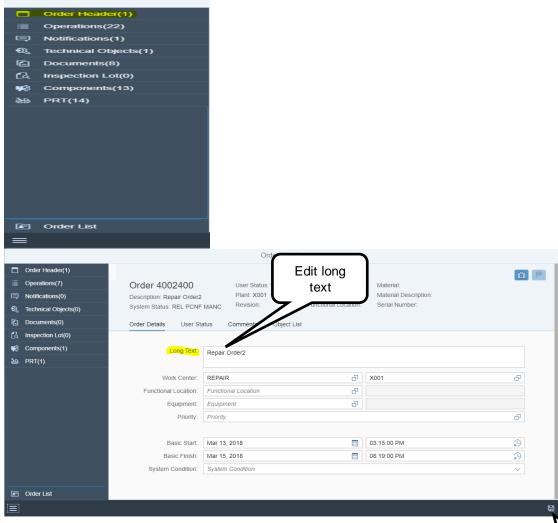


At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

3.3. Display/Update Long Text (Order header)

Existing order header long text display and editing is possible through long text Button , on click of the button a box will open which will contain the existing long text (if any), with option to edit that. See figure 23

Figure 23: Order header long text edit screen



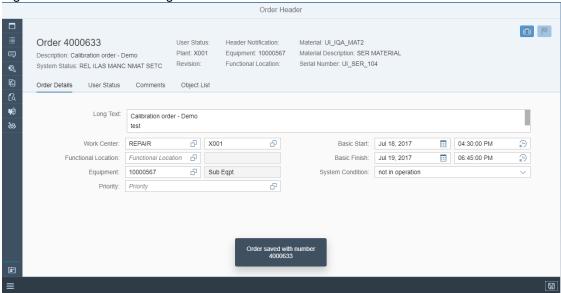
Once the text is edited, click on save button. It will update the text with a success message

Save button





Figure 24: Order header long text edit screen





At any point if switching to other function is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

3.4. Display/Update Comment (Order Header)

This functionality is to display or update the existing comment of the order header. To display the existing comment, click on button.

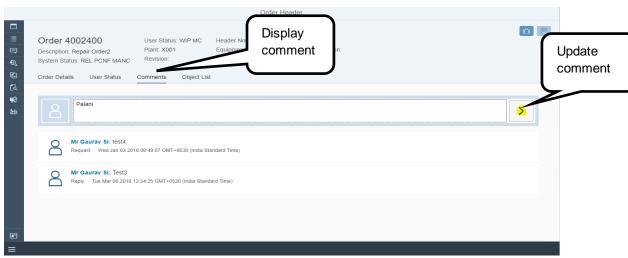
It will open display comment box. See figure 25.

Figure 25: Display comment at order header level









For going back to order list screen, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

3.5. Order Technically Completion (Order Header)

Once the maintenance of technical object is over, order needs to be technically completed. TECO of order can also be possible through this Application, by clicking on

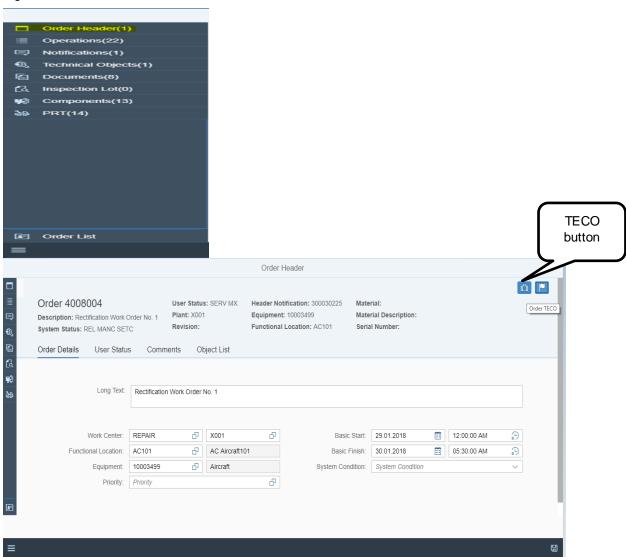


button. See figure 26.





Figure 26: Order TECO screen





Once the order is TECO, all order header fields will be non-editable.

For going back to order list screen, click on to select or reach other functionalities or click on Orders button screen.

3.6. User Status Read/Update

This functionality allows the user to view the user status of the order.





Click on the User Status to view the user status

Figure 27: User status with number(under order header screen)

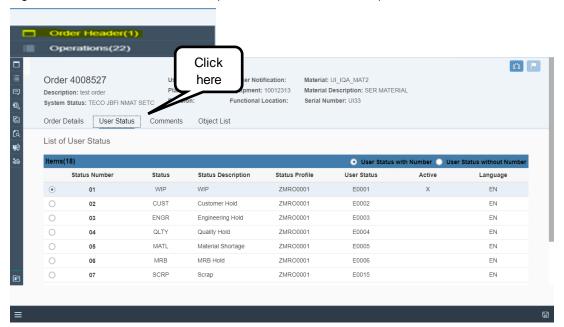
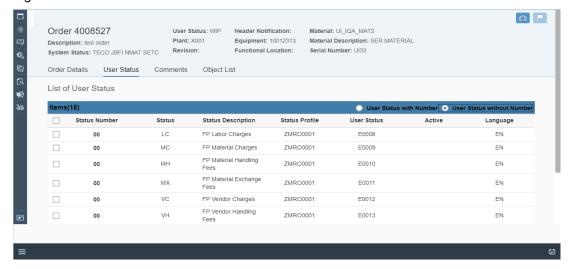


Figure 28: user status without number



User status will be displayed

If user wants to change the user status of order then by selecting any or multiple status user will click on the save button which will update the order with desired user status.





Figure 29: User status update

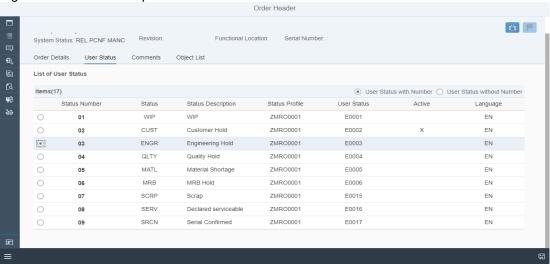
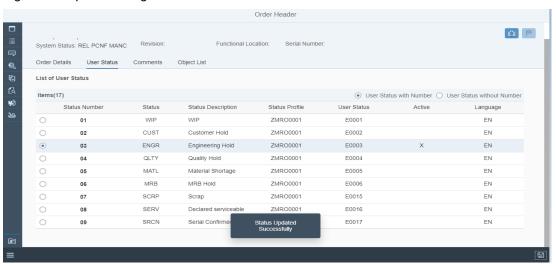


Figure 30: Update/change user status



For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

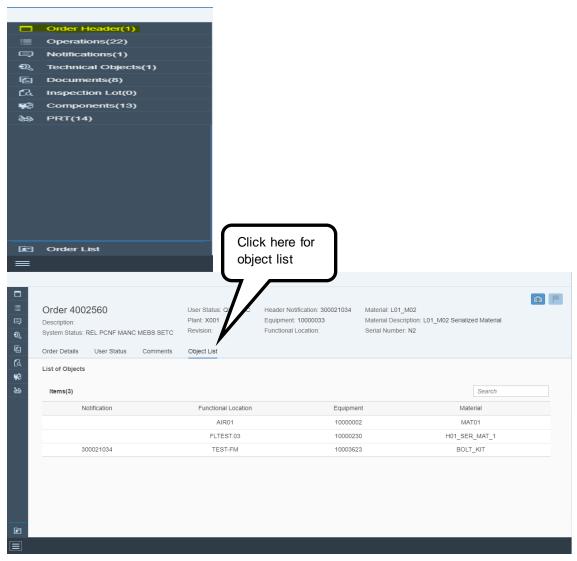
3.7. Object List at Order Header Levels





In the maintenance process if user want to see the object list included in order then this can be seen by clicking on the object list tab present on the order header screen.

Figure 31: Navigation to object list



3.8. PRT List at Order Header Level

PRT being used in an order for execution of all the operation can be displayed by clicking on the PRT list tab present in the left navigation pane.

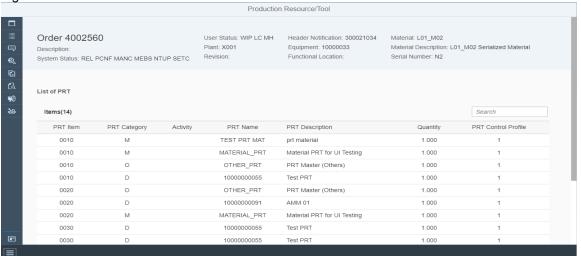
Figure 32: Navigation to PRT list at order header level







Figure 33: PRT list at order level



3.9. Document list

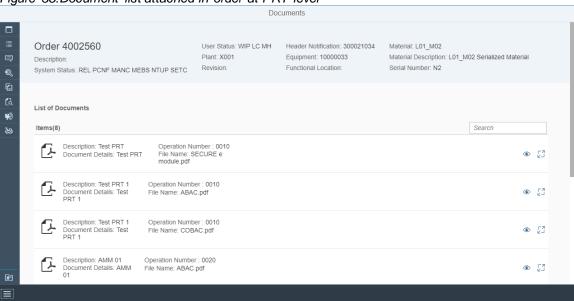
The list will be displayed of all the documents attached to the order at the PRT level Figure 34: Document list







Figure 35: Document list attached in order at PRT level



The cumulative document list will be displayed assigned to all the operations of the order.

3.9.1 Preview document

Preview document enables user to identify or overview a document by clicking on

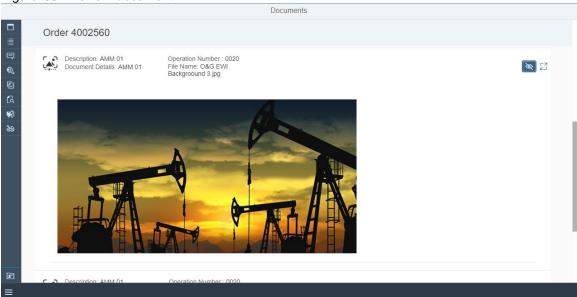


which is being used for the order execution.





Figure 36: Preview document



By clicking on not

button user can identify that the document selected is right one or

3.9.2 Open document

Once the user previewed the document and wants to read or do the analysis of the

particular document user can open the document by clicking on available on the screen.

full view button

Figure 37: full view



If user want to close the document then user needs to click on



button





For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

3.10. Inspection Lot and Characteristics Result (cumulative)

Inspection characteristics to describe what is to be inspected and how the inspection is to take place. We can see this on operation level.

Based on the characteristics requirement system will show the details

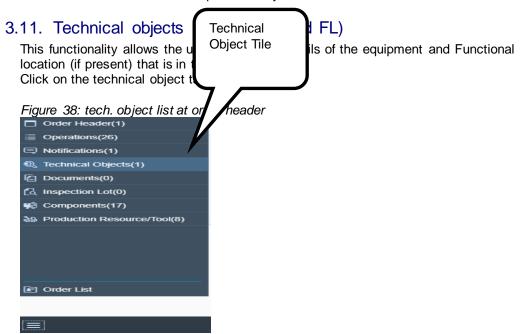






Figure 39: Equipment Details

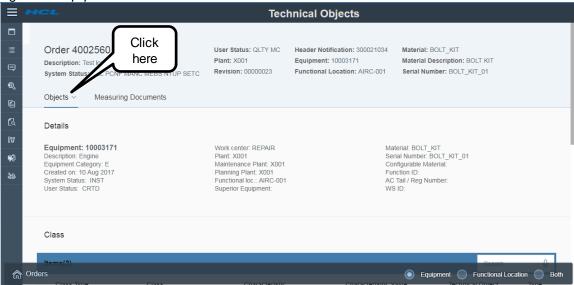
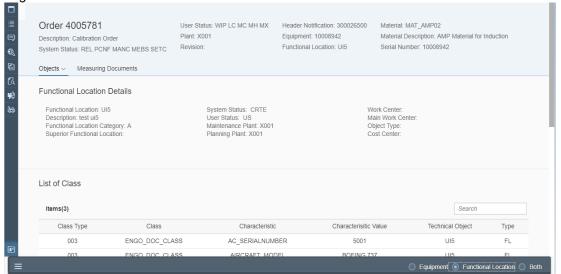


Figure 40:Functional location Details



user can also view the combined screen for FL and equipment both by clicking on

Both

Radio button available on the lower right corner of the screen or separately by clicking on the equipment or FL respective radio buttons

For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.





3.12. Technical object class and partner data

Class and partner data is available just below the Detail screen of technical object as shown in above figure so user can see the class and partner data assigned to tech.object by dragging the screen downwards.

Figure 41: Tech objects details (class)

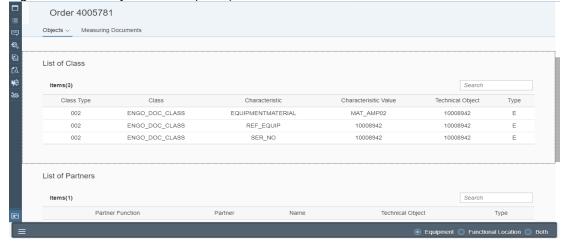






Figure 42:tech object details (partner data)

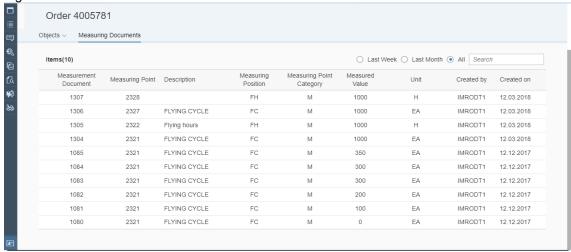


For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

3.13. Measurement document table

The table shows the all the measurement document posted for the measuring point against the tech. objects.

Figure 43: measurement documents



Here user have 3 options regarding the posting time

- 1. Last week: under this user can only see the documents posted in last week from the current date
- Last month: under this option user can only see the measurement posted during the last month
- 3. All: If user selects the All radio button then it will allow user to see all the measurements posted for the tech object selected





For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

4. Order Operations

All operations of an order can be seen by clicking on operation functionality. See figure 44

Figure 44: Operation functionality in functionality screen







Operation list will be shown as given above figure

For going back, click on

to select or reach other functionalities or click on

Orders button

to go back to order list screen.

4.1. Operation Details

User can also see the details of any operation shown in the list by clicking on the



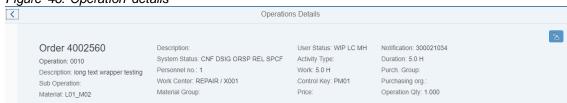


operation row.

Figure 45: select the operation

Operation	Sub-operation	Operation Short Text	Control Key	Work Center	Plant	Work	Unit of Work	System Status	
0010		long text change test	PM01	REPAIR	X001	1.0	Н	REL	\otimes
0020	0030	sub test 2-3	PM01	REPAIR	X001	1.0	Н	REL	\otimes

Figure 46: Operation details

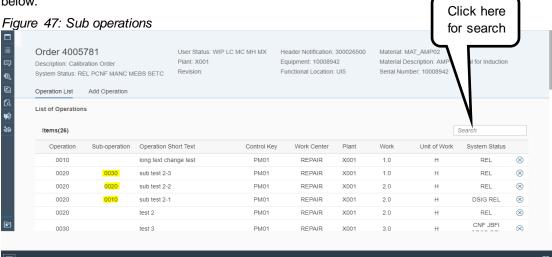


- > To go back from the current screen user needs to click on .
- > Or if User wants to come out on the order list screen then click on



4.1.1. Sub operation

User can also see the sub operation created under the main operation as shown in figure below.



For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

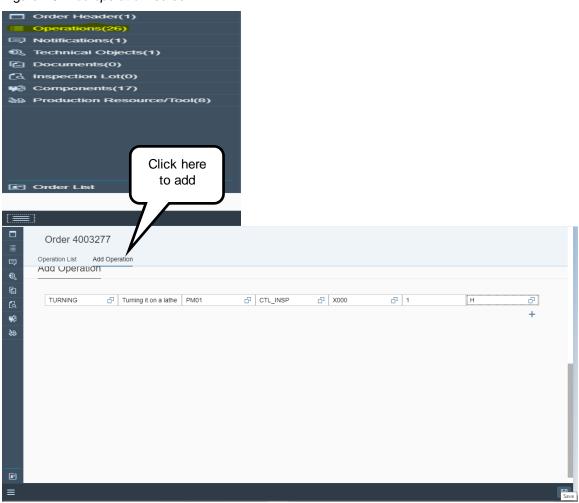




4.1.2. Add operation

If a user wants to add new internal operation to the order, it can be done directly from this application. For adding a new operation to the order, click on row with option to add detail for operation will open as shown in below figure 48

Figure 48: Add operation screen



The app also allows user to add multiple operation by clicking on available under operation row as shown in above figure.

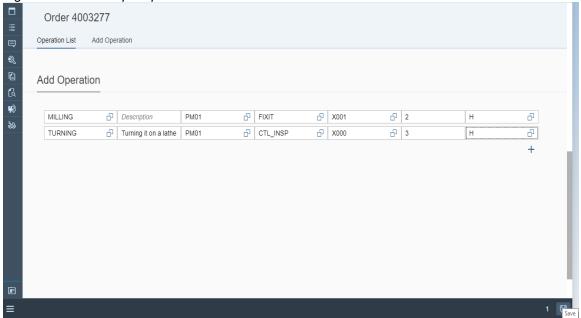
User can add single or multiple internal operations as per requirement.

Adding sub operation is not supported



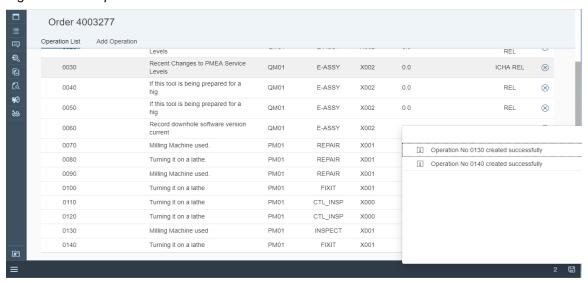


Figure 49: Add multiple operations



After giving the correct details click on save icon

Figure 50: Add operation successful



After filling value to above fields click on save button to add operations. List will get updated with new operation with as Alert.



Predefined Standard text key option is there, user can select the key and if required can change the operation description as per requirement







At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

4.1.3. Delete operation

For deleting any operation from the order, click on button after selecting the operation which is to be deleted.

Once we select the operation, it will get highlighted as shown in figure 51

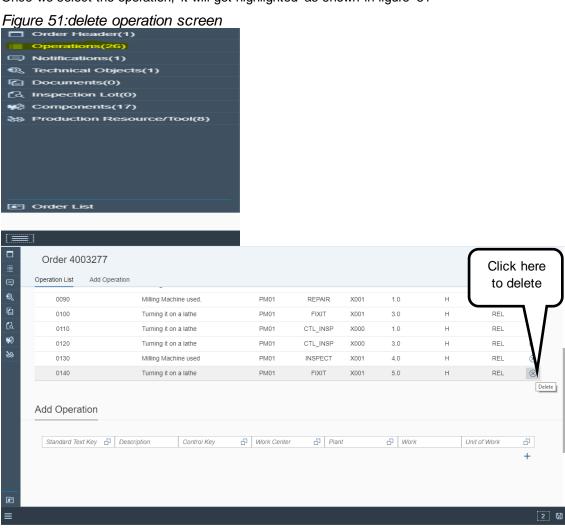
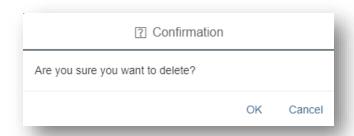


Figure 52: delete operation screen confirmation pop up

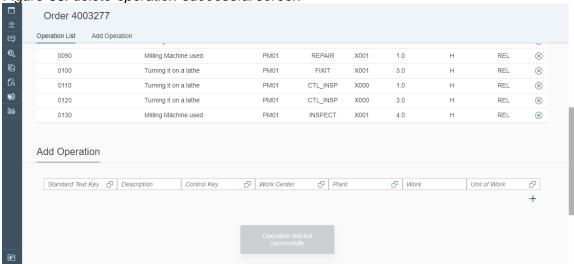






After clicing OK operation shall be deleted

Figure 53: delete operation successful screen





At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

4.1.4. Long text read/update(Operation)

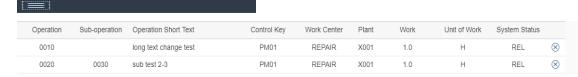
Existing operation long text can be displayed in editable mode by clicking on operation row and then on long text button. On click of button, box will open displaying long text in editable mode. See figure 54

Figure 54: Operation long text screen



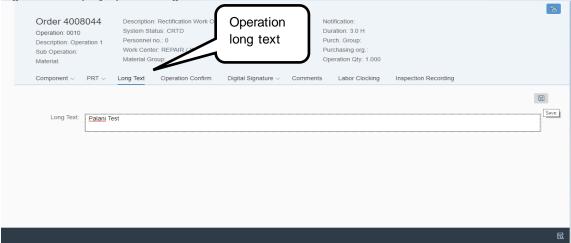






By selecting desired operation row user will reach to the long text screen

Figure 55: display/update long text



Text can be edited and on click on save button, text will get updated for the operation with a success message

Figure 56: long text updated







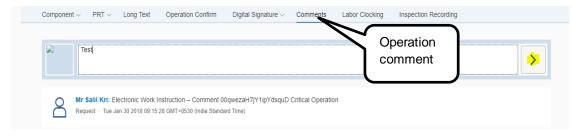
For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

4.1.5. Operation comment read/update

Operation comment is a functionality to add shift comments at operation level. For adding 'Operation Comment' through this application click on the operation details.

Figure 57: Add comment screen at operation level





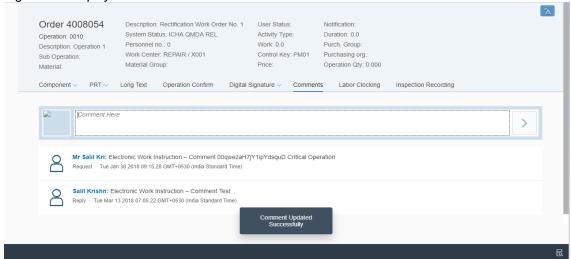
After maintaining comments in add comment box click on button.

The comment will be saved and displayed with all the other comment as shown in figure below





Figure 58: Display/save comment



All the existing comments will be displayed under comment box



At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

4.2. Operation PRT list

PRTs attached to the operation, of selected operation can be seen in this functionality. For displaying PRT list, select the operation, go into operation details by pressing that operation row is and click on button.

Figure 59: Navigation to display PRT list





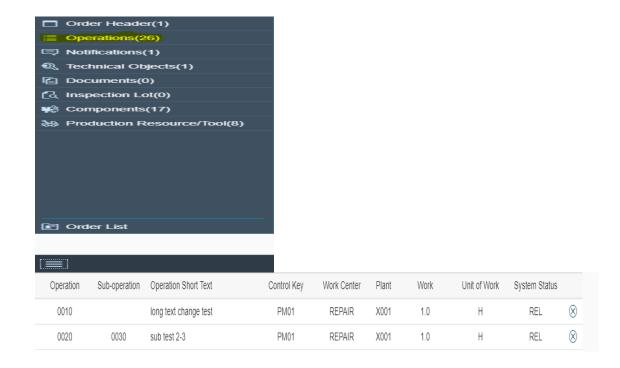
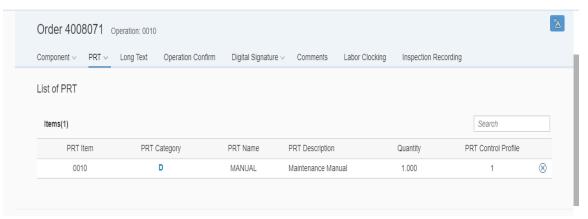


Figure 60: PRT list

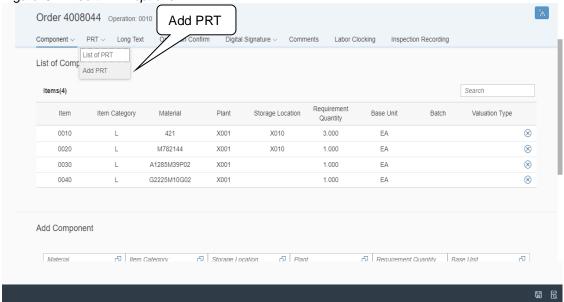


4.2.1. Add material PRT

Through this functionality, we can add material PRT to an operation. For adding any type of PRT, click on button, which will show list of PRT types we can add to an operation. See figure 61 for insert PRT options

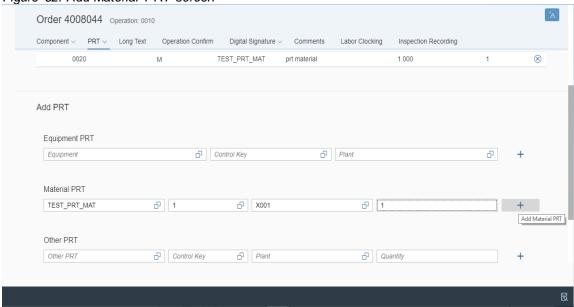


Figure 61: Insert PRT options



For adding material PRT, click on Material PRT option.

Figure 62: Add Material PRT screen

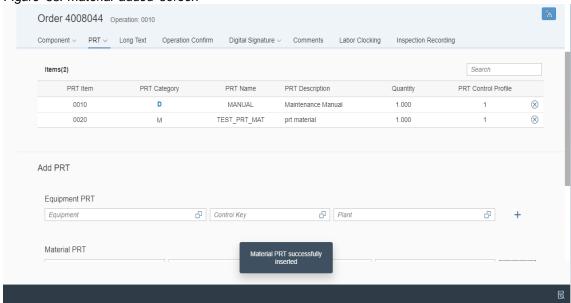


After entering the required details, click on the ____ button and PRT will be added





Figure 63: material added screen



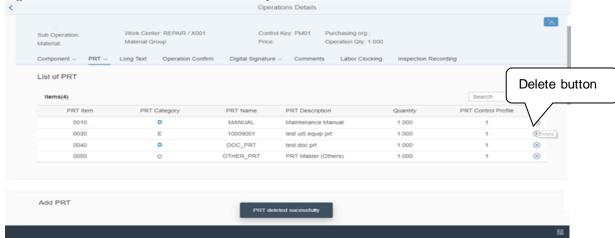
To display the added PRT user needs to click on PRT list

- > To go back from the current screen user needs to click on
- > Or if User wants to come out on the order list screen then click on

4.2.2. Delete material PRT

This functionality enables user to delete the material PRT assigned to the operation of an order You can delete the PRT by clicking the delete button on the right top

Figure 64: Material PRT Deleted successfully



To go back from the current screen user needs to click on .



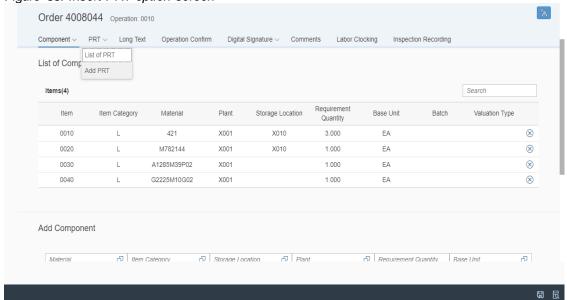


> Or if User wants to come out on the order list screen then click on

4.2.3. Add equipment PRT

Like material PRT, we can add equipment PRT, to the operation. For adding equipment PRT, similarly like material PRT, we have to select option from the drop down list.

Figure 65: Insert PRT option screen

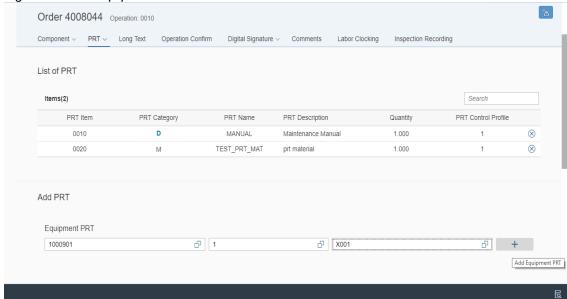


For adding Equipment PRT, fill the Equipment PRT details.



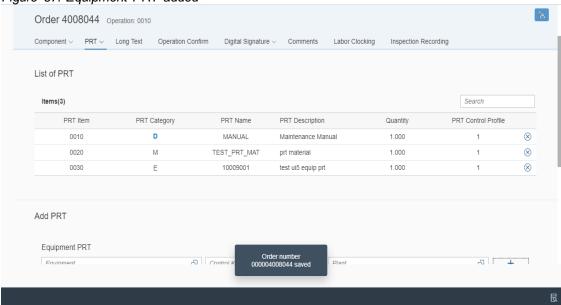


Figure 66: Add Equipment PRT screen



After entering the required details, click on the to button and PRT will be added

Figure 67: Equipment PRT added



- To go back from the current screen user needs to click on
- Order List Œ Or if User wants to come out on the order list screen then click on

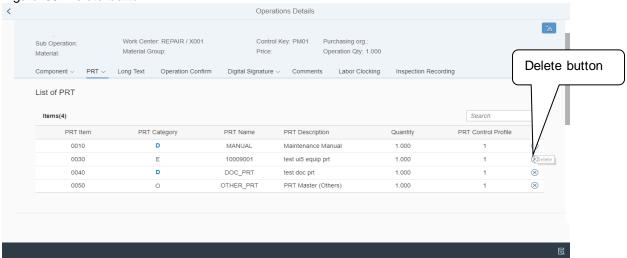




4.2.4. Delete equipment PRT

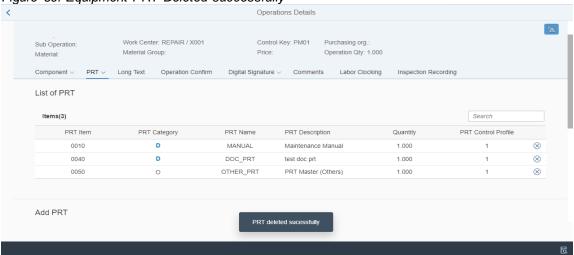
This functionality enables user to delete the Equipment PRT assigned to the operation of an order

Input: Select the line i.e. Equipment PRT and click on the delete button on the top right Figure 68: Delete button



Equipment PRT deleted successfully

Figure 69: Equipment PRT Deleted successfully



- > To go back from the current screen user needs to click on
- > Or if User wants to come out on the order list screen then click on

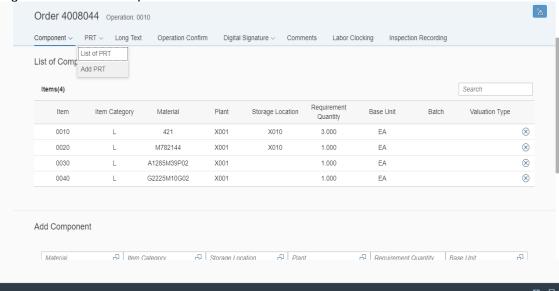




4.2.5. Add document PRT

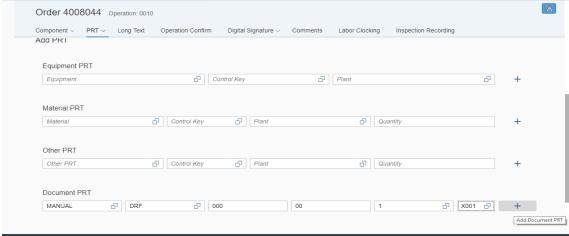
We have option to add document as PRT too. Similar like other PRTs, Insert document PRT option is there in drop down list. On selecting document PRT column.

Figure 70: Insert PRT option screen



For adding Document PRT, enter the Document PRT details.

Figure 71: Add Document PRT screen

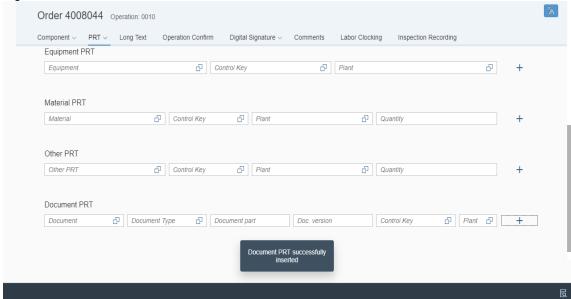


After entering the required details, click on the button and PRT will be added





Figure 72: Document PRT added

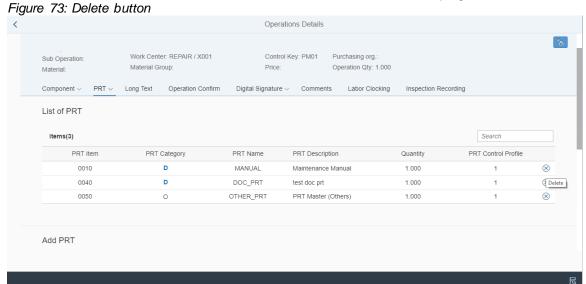


- > To go back from the current screen user needs to click on
- Or if User wants to come out on the order list screen then click on

4.2.6. Delete document PRT

This functionality enables user to delete the Document PRT assigned to the operation of an order

Select the line i.e. Document PRT and click on the delete button on the top right

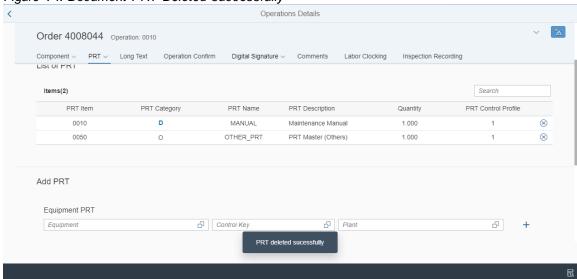


Document PRT deleted successfully





Figure 74: Document PRT Deleted successfully



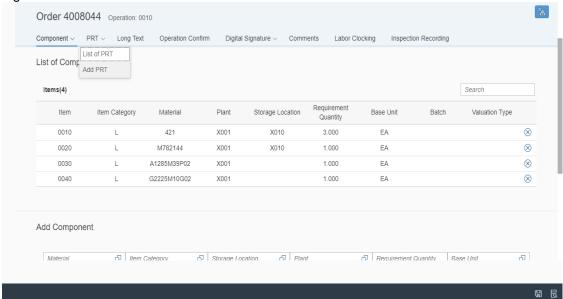
- > To go back from the current screen user needs to click on
- Or if User wants to come out on the order list screen then click on

4.2.7. Add other PRT

We have one more option of PRT, i.e. other PRT. Here we can insert other type of PRTs (except material, equipment and document), required to the operation. Input screen of other PRT, is given below.

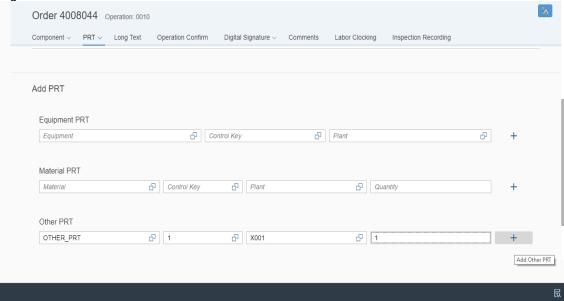


Figure 75: Insert other PRT screen



For adding Other PRT, fill the Other PRT data.

Figure 76: Add Other PRT screen

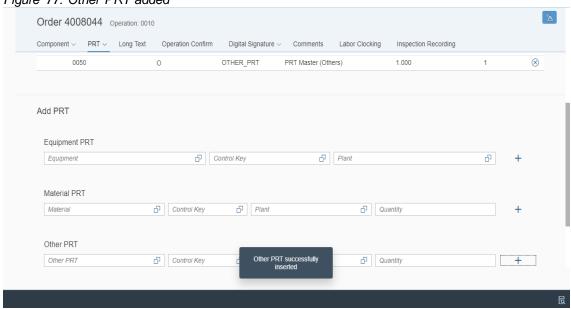


After entering the required details, click on the button and PRT will be added





Figure 77: Other PRT added



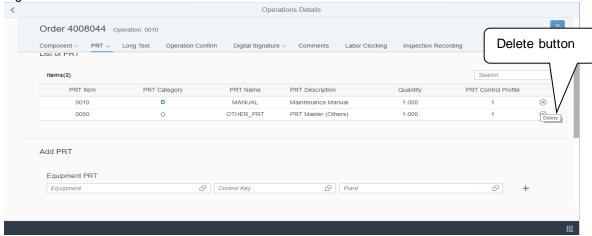
- > To go back from the current screen user needs to click on
- Or if User wants to come out on the order list screen then click on

4.2.8. Delete other PRT

This functionality enables user to delete the Other PRT assigned to the operation of a order Select the line i.e. Other PRT and click on the delete button on the top right

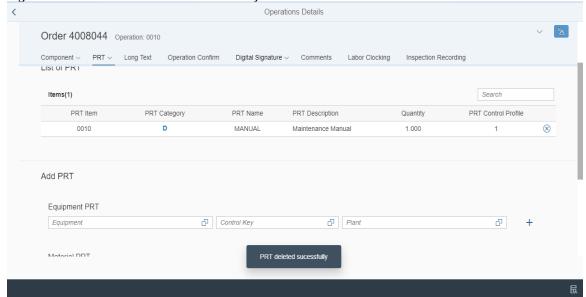


Figure 78: Delete button



Other PRT deleted successfully

Figure 79: Other PRT Deleted successfully



- > To go back from the current screen user needs to click on
- > Or if User wants to come out on the order list screen then click on

4.3. Characteristic Results and Recording





This functionality enables user to record results for multiple MIC's assigned to an operation fro multiple inspection works at a single time. Saved characteristics results Shall also be displayed.

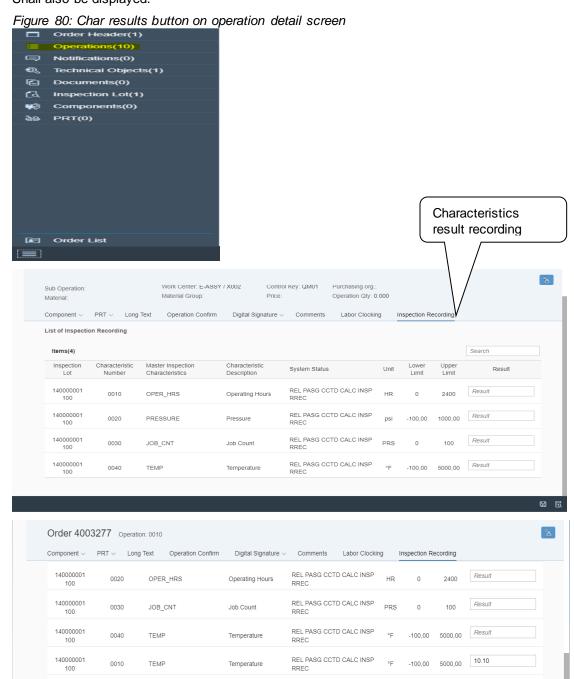
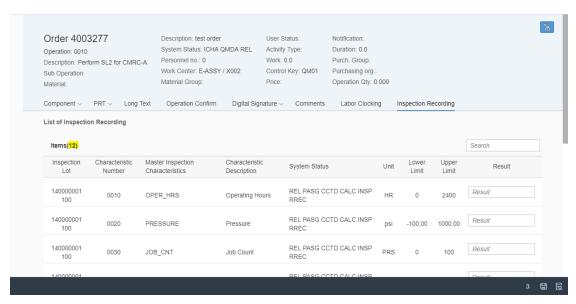


Figure 81: Char results of an operation







The functionality also supports the batch messages for multiple recorded results which displays the information messages for each result recorded.

- > To go back from the current screen user needs to click on .
- Or if User wants to come out on the order list screen then click on

4.4. Component list

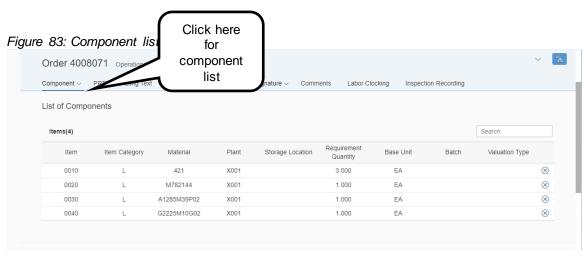
List of components required for an operation can be displayed by going to the operation details and then clicking on button it will show the drag down option, select component list among the options.

Figure 82: Navigation to component list









Component list will be shown as figure above.

- \succ To go back from the current screen user needs to click on ${\color{red} lack}$.
- > Or if User wants to come out on the order list screen then click on

4.4.1. Add component

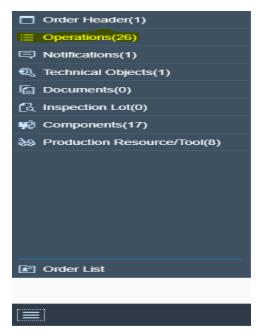
Add component can be done from operation header screen only. To add a "component" clicks on button. It shall show us a drop down then user needs to select button under that drop down list.

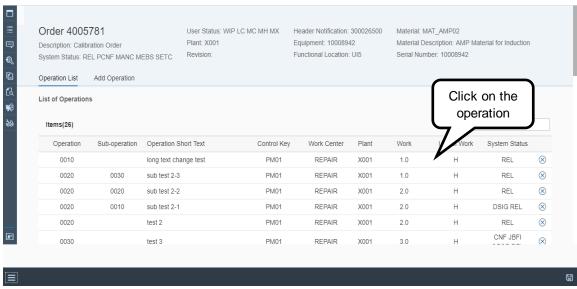
A blank row will open with mandatory fields to be maintained by user.

Figure 84: operation header







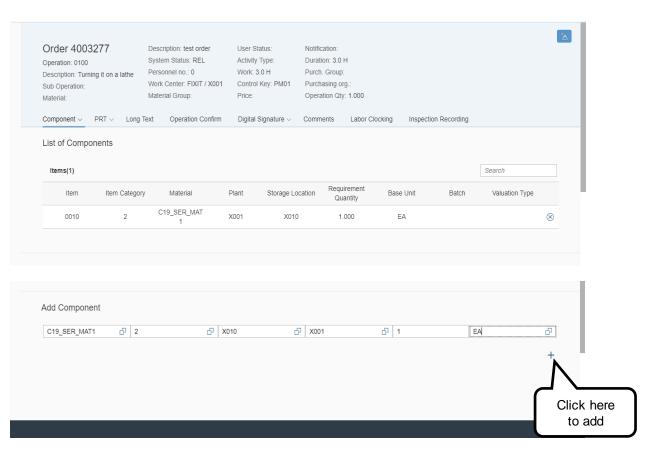


After clicking on the operation user shall have the operation header with the various functionalities option

Figure 85: operation header







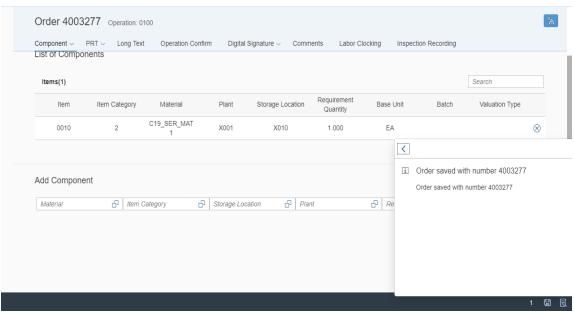
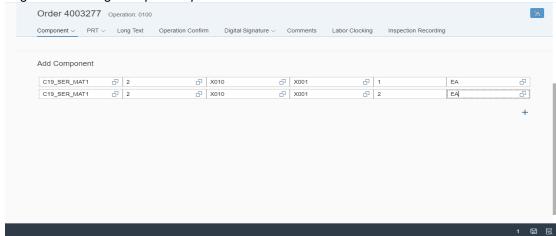






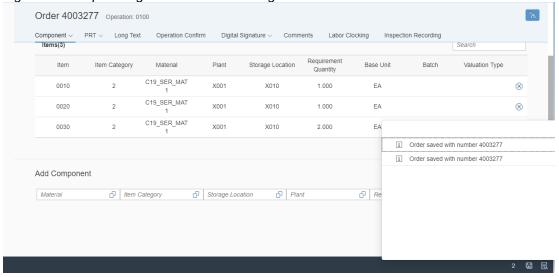
Figure 86: adding multiple components



If user wants to add more component at the same time then click on the more rows to fill the entries for adding more components

After maintaining data click on add button. New component will be added to the list with a success message

Figure 87: component got added after clicking on save icon



The success message shall pop up as shown in above figure after clicking on save button in the right below corner of the screen.

- To go back from the current screen user needs to click on
- Or if User wants to come out on the order list screen then click on



Only stock items can be added and displayed in components. Supports non batch managed components (Batch field is not available for input)

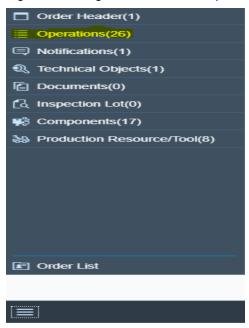




4.4.2. Delete component

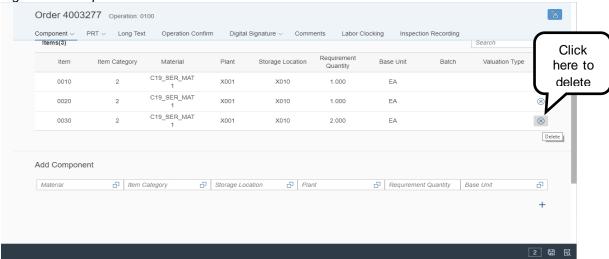
Deletion of component from component list can be done by selecting the component and clicking on delete button.

Figure 88: Navigation delete to component



On selecting the operations from the above shown navigation pane click on the operation from which user wants to delete the component then select the component list.



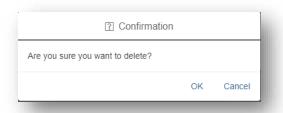


Now user needs to click on button for any component to which user wants to delete the action will give a confirmation screen at which user needs to select OK.



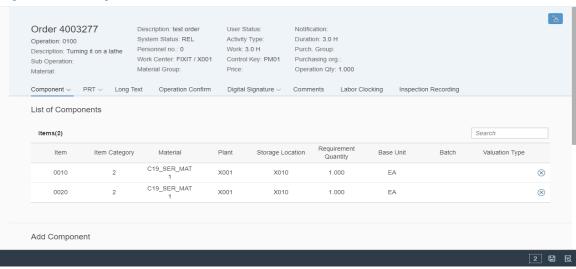


Figure 90: confirmation



After selecting the OK, a success message will populate.

Figure 91: message



- \succ To go back from the current screen user needs to click on lacktree .
- > Or if User wants to come out on the order list screen then click on

4.5. Labor clocking

Labor clocking functionality allows user to clock ON and Clock OFF on any operation of selected order.

By reaching the operation header user can select the labor clocking tab as.

Now user have all the event which are clocked on and off before if any, now if user want to clock on or clock off (in case user already clocked off) the operation the user needs to click



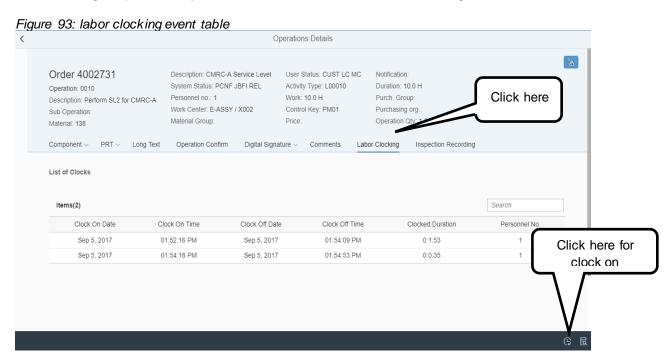




Go to the operation details for which clocking to be done and click on labor clocking button Figure 92: navigation to labor clocking screen



After selecting the particular operation user needs to click on labour clocking tab



Then click on

 \bigcirc

button. Screen for labor clocking will be as shown in figure 93



Figure 94: Clock on screen



User has clocked on to the operation now if the user wants to clock off for the same

operation then user has to again click on button. Clock will get off for that particular operation with a confirmation screen which enables user to confirm operation finally or not as shown in below figure 95

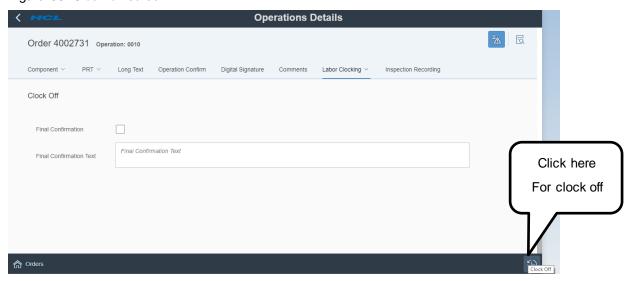
Figure 95: Clocked screen





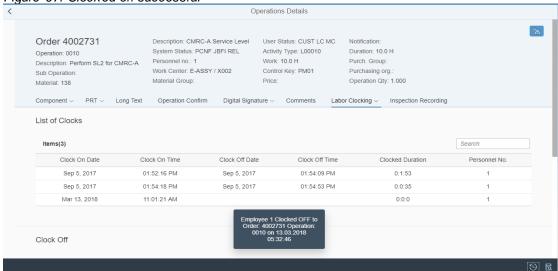


Figure 96: Clock off screen



If user want to confirm the operation finally then user has a option to click the final confirmation checkbox if not the operation will not be confirmed and user can again clock on for the same operation.

Figure 97: Clocked off successful



Labor clocking functionality will work if only current status of personal number is "Clock in". Without clocking in, if user tries to clock on then an error message to clock in will pop up.





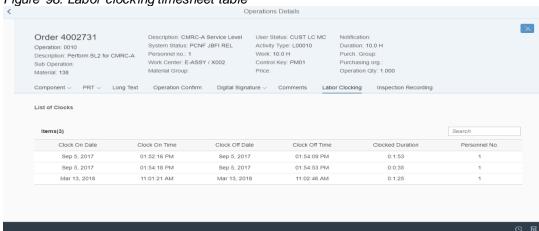
- > To go back from the current screen user needs to click on .
- > Or if User wants to come out on the order list screen then click on

4.5.1. Labor clocking event table

Labor clocking table displays the "clock on" and "clock off" details of an operation with duration and personal number.

This table can be displayed on the same screen, where option to clock on and off is there as shown below figure 98

Figure 98: Labor clocking timesheet table



- > To go back from the current screen user needs to click on .
- > Or if User wants to come out on the order list screen then click on

4.6. Qualification check

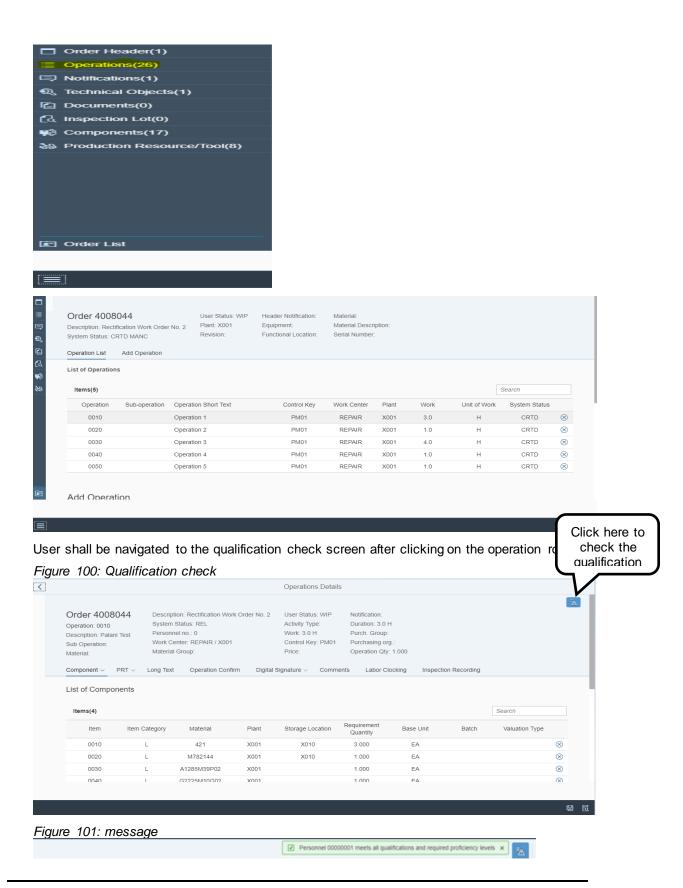
This functionality enables user to check that the person assigned for the operation is qualified to perform the operation as per the required qualification or not.

To check the required qualification user has to click on operation row at which he/she wants to perform the qualification check as shown in below figure.

Figure 99: Navigation to qualification check











Order List

The functionality works on qualification and required proficiency if user is qualified as required in requirement profile but the proficiency level is not upto the required

Personnel 00000001 did not meet all qualification req. / proficiency levels x

level then the pop shall be as

If the person fulfilling all the requirement as per the requirement profile assigned to operation the message shall be as

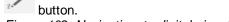


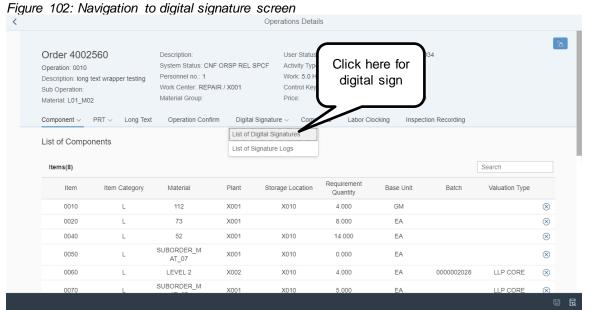
- > To go back from the current screen user needs to click on
- Or if User wants to come out on the order list screen then click on

4.7. Digital signature

Digital signature is a functionality which allows electronic signature of user on an operation.

To do digital signature, go to the operation details on which sign to be done and click on



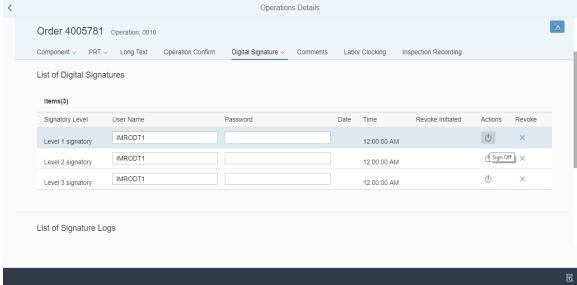


Based on signature strategy assigned, individual signature levels will be displayed in screen. With the level name of the user who has login will also be displayed in "USER NAME" field. See figure 103





Figure 103: Digital signature screen



User has to maintain his password and click on signoff button.

- For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.
- > To go back from the current screen user needs to click on
- > Or if User wants to come out on the order list screen then click on

4.7.1. Digital signature levels

- For going back, click on

 to select or reach other functionalities or click on

 Orders button

 to go back to order list screen.
- > To go back from the current screen user needs to click on .
- > Or if User wants to come out on the order list screen then click on

4.7.2. Digital signature log

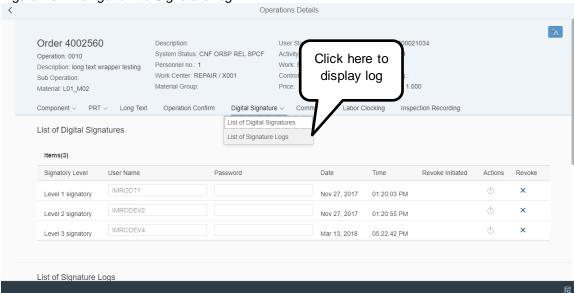
Signature log is the list of all level signatures and revoke actions done on particular operation.

Signature log can be seen by clicking on signature log button in digital signature screen.



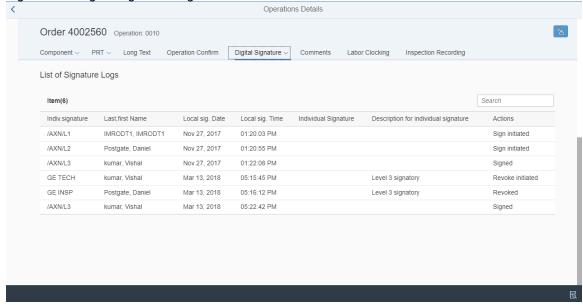


Figure 104: Navigation to Signature log



Signature log screen will be as shown in figure 104

Figure 105: Digital signature log screen



- For going back, click on

 to select or reach other functionalities or click on

 Orders button

 to go back to order list screen.
- \succ To go back from the current screen user needs to click on lacktree .
- Or if User wants to come out on the order list screen then click on







4.7.3. Revoke digital signatures

Digital signature process can be cancelled, once the level 1 sign is done. This can be

done by input as username and password in next level and click on revoke button.

Figure 106: Screen for revoke the digital signature

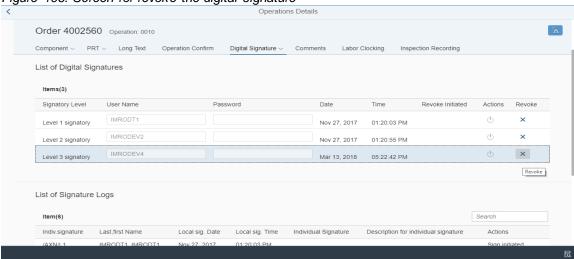


Figure 107: screen before signature revoke

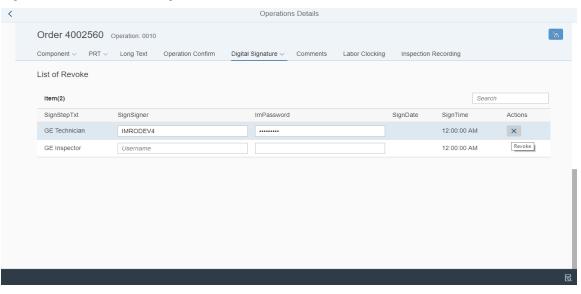
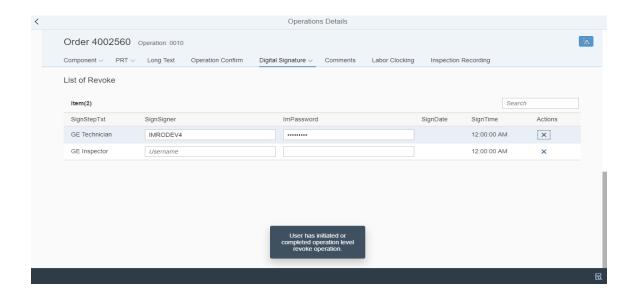


Figure 108: screen after signature revoke







4.7.4. Digital Signature Revoke Levels

4.8. Operation confirmation

Order operation confirmation functionality here is same as standard SAP functionality. It is the replica of Transaction 'IW41', in standard SAP Plant Maintenance Module.

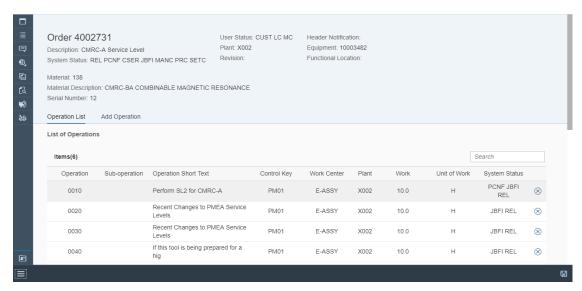
Performing order confirmation through this application is done by going to the operation details and click on

Figure 109: Navigation to order confirmation screen

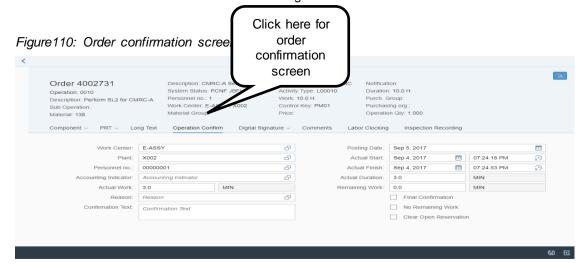








Order confirmation screen will be as shown in figure



All fields will be in editable mode data like work center, plant; unit will be from default value based on configuration and order.

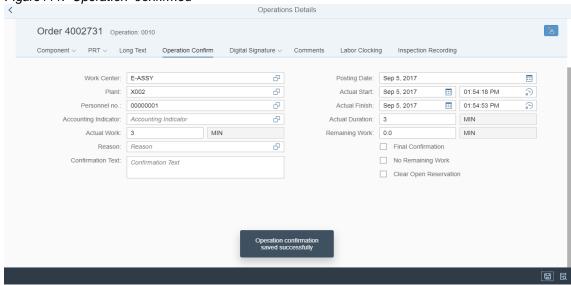
After maintaining all required data click on save button.





Order List

Figure 111: Operation confirmed

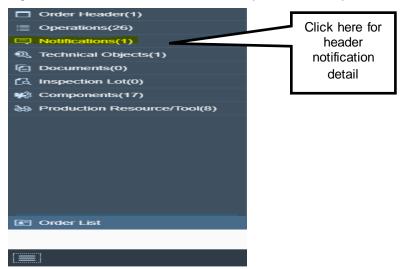


- > To go back from the current screen user needs to click on .
- > Or if User wants to come out on the order list screen then click on

5. Header Notification

Header notification detail contains all important fields of the header notification. It can be seen by clicking notification functionality in Left navigation screen.

Figure112: Header notification functionality in functionality screen

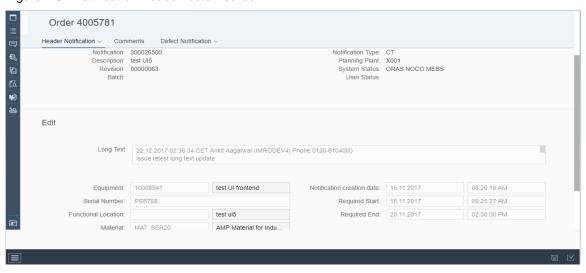


Header notification screen will be as shown in figure 113





Figure 113: Notification header detail screen



At any point if switching to other functionality is required, that can be done by clicking on button, which will open the list of all functionalities in list form.

5.1. Change/update notifications

This functionality enables the user to change the header notification details Open the notification and enter the values which user wants to change on the edit screen.

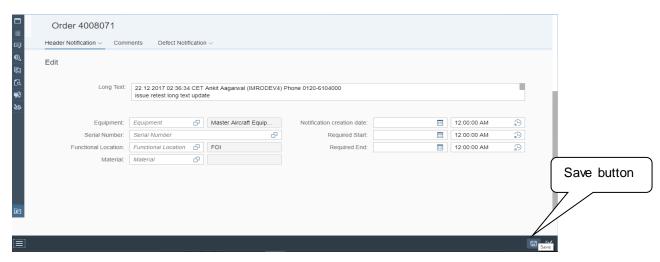
After entering all the details user will click on the save button which will update the changed details of notification.

Figure 114: Navigation to notification details update and save button



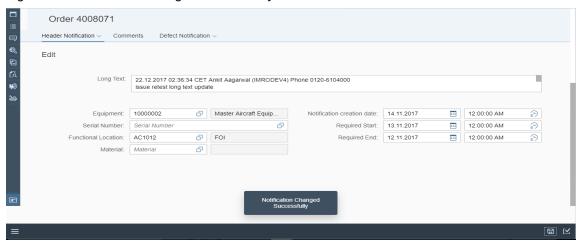






Do the required changes and click on the save button on the right top

Figure 115: Notification changed successfully



For going back, click on to select or reach other functionalities or click on Orders button to go back to order list screen.

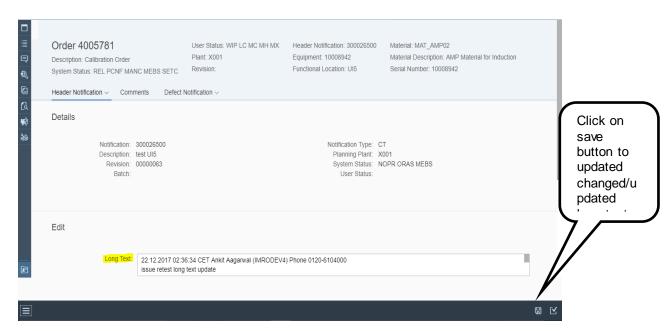
5.2. Notification long text display/update

Notification long text can only be displayed and edited on the notification header screen. Existing long text will open in a box in editable mode as shown in figure 116.

Figure 116: Notification long text screen







For updating long text, click on save button after editing long text.

For going back, click on

to select or reach other functionalities or click on

Orders button

to go back to order list screen.

5.3. Notification planner comment read/update

Notification planner comments are the shift comments which we input at notification level.

On click on Notification tab in navigation pane user can reach to notification header screen. See figure 117.

Figure 117: Notification header screen





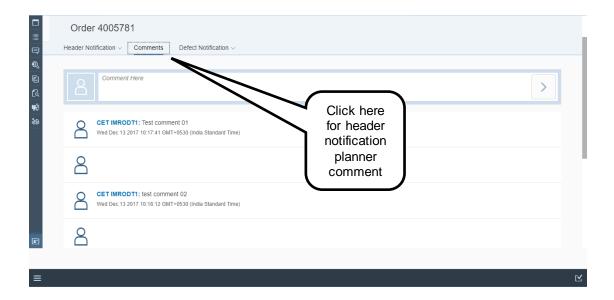


Figure 118: Add notification planner comment screen

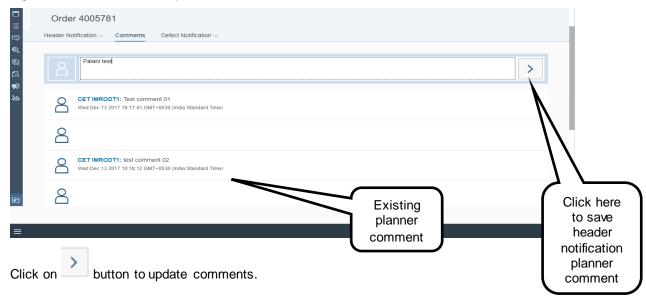






Figure 119: success message screen after submitted comment

Order 4005781

Header Notification Comments Defect Notification Comment Here

Cat MRODT: Test comment 01

Wed Dec 13 2017 10:17:41 GMT+0530 (India Standard Time)

CET IMRODT: test comment 02

Wed Dec 13 2017 10:18:12 GMT+0530 (India Standard Time)

Data has been saved successfully.

Saved comment saved.

For going back, click on

to select or reach other functionalities or click on

Orders button

To go back to order list screen.

5.4. Notification Complete

Once all work is over on notification, it needs to be technically completed.

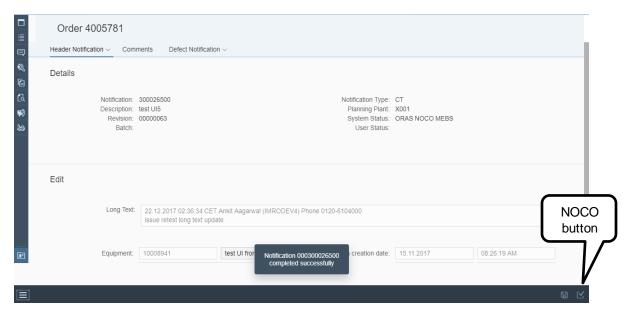
For completing the notification, click on button. which is present on lower right corner of the header notification detail screen.

Figure 120: Navigation to NOCO notification









After clicking on the NOCO button App will show a success message if all the tasks are completed.

For going back, click on

to select or reach other functionalities or click on

Orders button

to go back to order list screen.

5.5. Defect notification

Defect notifications attached to the order will be displayed in grid form with display of necessary fields.

User can see the **List** and **details** of any defect among the list.

The app has the defect notification functionality on the header notification screen once user click on defect notification tab then he/she will be navigated to the defect notification screen as shown in below figures.

Clicking on defect notification tab will open a drop down list as shown in below figure.

Figure 121: Defect notification tab in header notification screen







As shown in above figure the list will be opened (if there is any) after the followed navigation Now if user wants to see the details of any defect notification then user has to click on any defect notification row.

Figure 122: Defect notification details navigation





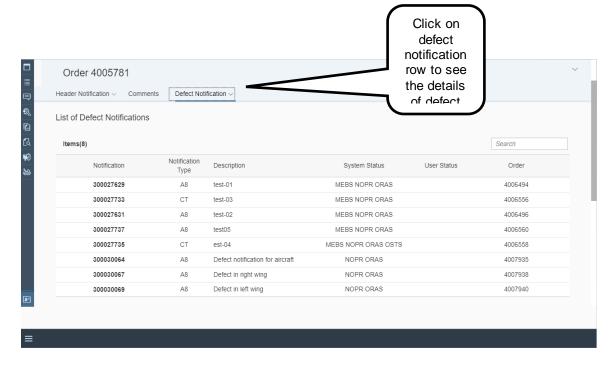
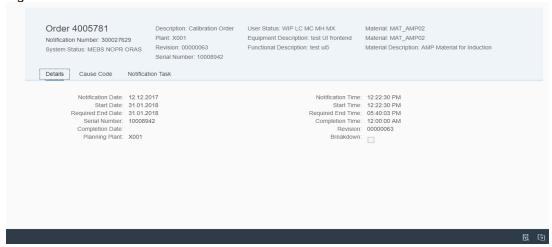


Figure 123: Defect notification details



- \succ To go back from the current screen user needs to click on $\stackrel{\textstyle \checkmark}{}$.
- > Or if User wants to come out on the order list screen then click on

5.6. Defect notification task code

Notification task code table screen will display all tasks assigned to the defect notifications

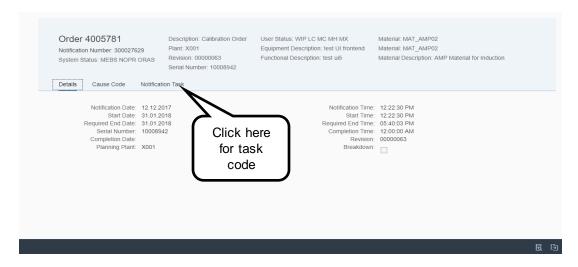
by going into the defect notification details by clicking on

Figure 124: Navigation to task code table screen

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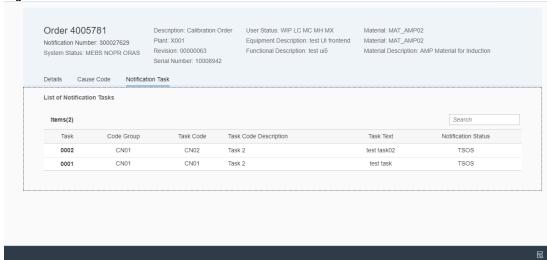






Click on any defect notification to open the defect notification detail page where user needs to click button to see all the tasks assigned in defect notification.

Figure 125: defect notification task code table



- > To go back from the current screen user needs to click on .
- Or if User wants to come out on the order list screen then click on



5.7. Defect notification cause code

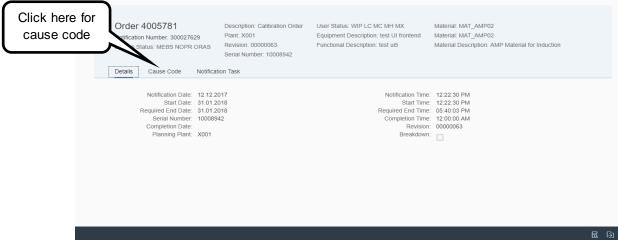
Notification cause code table display the list of all causes, due to which defect notification is created.

For displaying the cause code table, select the defect notification from the list which will open the defect notification details screen now click on "cause code" button as shown in below figure.



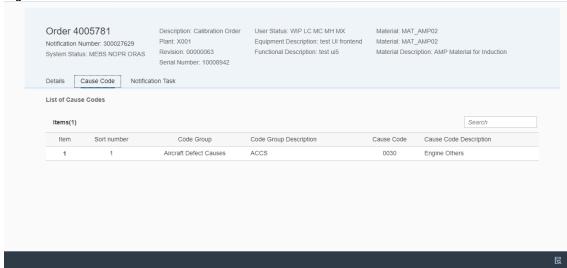


Figure 126: Navigation to cause code



After following the above explained navigation user can get the cause code.

Figure 127: Cause code screen



- > Or if User wants to come out on the order list screen then click on

5.8. Defect notification creation

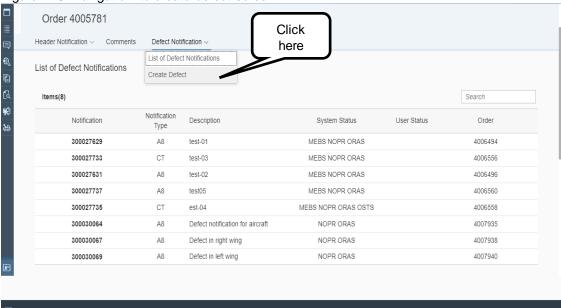
Through this functionality, we can create defect notification and order, found during execution of operation.

On the header notification screen user need to click on defect notification tab which will show a drop down, under that drop down user will have tab of create defect. After clicking on create defect the screen will get opened where user need to maintain the required data as shown in figure.



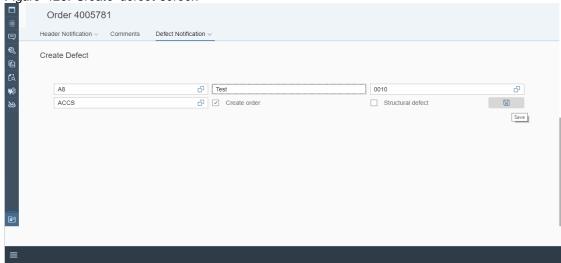


Figure 128: Navigation to create defect screen



On click of create defect button, given below screen will open.

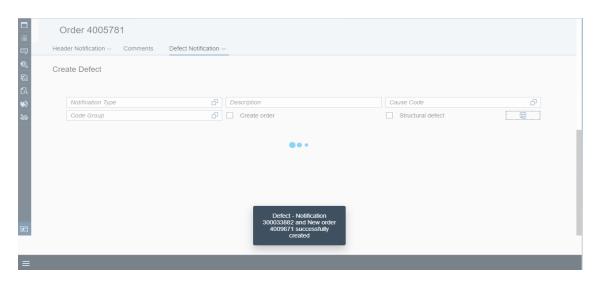
Figure 129: Create defect screen



On click of button, new defect notification will be updated in the list.

Figure 130: Defect notification added with success message





In defect notification creation user have an option whether he/she wants to create order or not. If user wants to create defect order the user needs to click on the create order check box.

For going back to order list screen, click on or click on Orders button

Order List



During defect notification/order creation, multiple task assignation feature is not supported

6. EWI Wrappers List

Wrapper Name	Functionality	Wrapper Technical Name
Clocking	To retrieve the data like the latest event, labor clocking data	/AXONUIBC/EWI_CLOCKING_READ
Clocking	Setting the on/off data for labor clocking	/AXONUIBC/EWI_CLOCKING_GET
Clocking	Update Labor Clocking Events Table	/AXONUIBC/EWI_CLOCKING_SET
Comment	To read the comment of operation and header	/AXONUIBC/EWI_ORDER_COMM_GET





Comment	To update the comment of operation and header	/AXONUIBC/EWI_ORDER_COMM_UPD
Component Delete	Delete component for order operation	/AXONUIBC/EWI_COMP_DELETE
Component List	To provide the list of all the components of an order	/AXONUIBC/EWI_COMP_LIST
Component Read	To read the single Component of an order	/AXONUIBC/EWI_COMP_READ_SINGLE
Document	To read the details of DMS Document	/AXONUIBC/EWI_DOC_DETAILS
Document	To open the pdf or word document in the DMS	/AXONUIBC/EWI_FILE_OPEN
Notification	To complete the Notification	/AXONUIBC/EWI_NOTIF_COMPLETE
Notification	To read the notification long text	/AXONUIBC/EWI_NOTIF_LTEXT_READ
Notification	To update the notification long text	/AXONUIBC/EWI_NOTIF_LTEXT_UPD
Notification	To read the notification details	/AXONUIBC/EWI_NOTIF_READ
Notification	To display the list of defect notifications on the basis of order	/AXONUIBC/EWI_NOTIF_DEFECTLIST
Notification	To display the defect notification detail	/AXONUIBC/EWI_NOTIF_DEFECT_DET
Notification	To display the notification	/AXONUIBC/EWI_NOTIF_CAUSE

7. List of APIs delivered

API name	Supporting Functionality Description
/AXONXAPP/UI_ENAB_SEL_ORD_LIST	Order List Selection Screen
/AXONXAPP/UI_ENAB_SCR_DET_READ	Order Navigation
/AXONXAPP/UI_ENAB_ORDER_LIST	Display Orders



/AXONXAPP/PRT_OTHER_INS	Add Other PRT	
/AXONXAPP/PRT_MAT_INS	Add Material PRT	
/AXONXAPP/PRT_LIST	Display Operation PRT List	
/AXONXAPP/PRT_EQ_INS	Add Equipment PRT	
/AXONXAPP/PRT_DOC_INS	Add Document PRT	
/AXONXAPP/PRT_DEL	Delete Material PRT	
/AXONXAPP/ORDER_TECO	OrderTECO	
/AXONXAPP/ORDER_REL	Order Release	
/AXONXAPP/ORDER_REVISION		
/AXONXAPP/ORDER_HEADER_DETAILS	Display Order Header	
/AXONXAPP/ORDER_HDR_LTEXT_UPD	Update Order Header Long Text	
/AXONXAPP/ORDER_HDR_LTEXT_GET	Display Order Header Long Text	
/AXONXAPP/ORDER_CONFIRM	Confirm Operation	
/AXONXAPP/ORDER_CHANGE	Update Order Details	
/AXONXAPP/OPER_READ_SINGLE	Display Operation Header Details	
/AXONXAPP/OPER_LTEXT_UPD	Update Operation Long Text	
/AXONXAPP/OPER_LTEXT_GET	Display Operation Long Text	
/AXONXAPP/OPER_LIST	Display List of Operations	
/AXONXAPP/OPER_INSERT	Add Multiple Operations	
/AXONXAPP/OPER_DELETE	Delete Operation	
/AXONXAPP/OPER_CHECK_QUALS	Qualification Check	
/AXONXAPP/NOTIF_LTEXT_UPD	Create Notification Long Text	
/AXONXAPP/NOTIF_LTEXT_READ	Display Notification Long Text	
/AXONXAPP/NOTIF_READ	Display Notification Datails	
/AXONXAPP/NOTIF_DETAIL	Display Notification Details	
/AXONXAPP/NOTIF_DEFECT_LIST	Display Defect Notification List	
/AXONXAPP/NOTIF_DEFECT_DETAIL	Display Defect Notification Details	
/AXONXAPP/NOTIF_DEFECT_CREATE	Create Defect	
/AXONXAPP/NOTIF_COMPLETE	Notification NOCO	
/AXONXAPP/NOTIF_CHANGE	Update Notification Details	
/AXONXAPP/NOTIF_CAUSE	Display Notification Cause Code Table	
/AXONXAPP/DSIG_SIGN	Digital Signature Sign Off	
/AXONXAPP/DSIG_REVOKE	Revoke Digital Signature	
/AXONXAPP/DSIG_LEVEL_DET	Read Digital Signature Levels	
/AXONXAPP/DSIG_DSAL_LOG	Display Digital Signatures Log	
/AXONXAPP/WORKCENTER_DETAIL	Search help for Work Center	
/AXONXAPP/VARIANT_CHANGE	Update User Variant	
/AXONXAPP/VARIANT_REP_SELSCR	Select User Variant	
/AXONXAPP/VAIRANT_CONTENTS		





/AXONXAPP/USERSTATUS_UPDATE	Update Order User Status Table
/AXONXAPP/USERSTATUS_READ	Display Order User Status Table
/AXONXAPP/TECH_OBJ_PARTNER	Display Equipment Details
/AXONXAPP/TECH_OBJ_CHAR_READ	Display Equipment Details with Class
/AXONXAPP/TECH_OBJ	Display Equipment Details with Partner
/AXONXAPP/INSTALL_CONFRM	Install
/AXONXAPP/DISPOSITION	Dismantle
/AXONXAPP/DISP_HIER_DATA	Display Technical Hierarchy
/AXONXAPP/TASK_CODE	Display Notification Task Code Table
/AXONXAPP/OBJECTLIST_DETAIL	Display Object List
/AXONXAPP/MDOC_READ	Display Measurement Documents Table with
<u> </u>	Technical Objects
/AXONXAPP/INSPECTION_LOT	Characteristics Read
/AXONXAPP/FILE_OPEN	Open Document
/AXONXAPP/DOCUMENT_DETAILS	Display Documents List
/AXONXAPP/CREATE_USER_VARIANT	Create User Variant
/AXONXAPP/CONFIRM_SERIAL	Confirm Serial Number
/AXONXAPP/COMPONENT_READ_SINGL	Display Component List (Order Header Level)
/AXONXAPP/COMPONENT_LIST	Display Component List
/AXONXAPP/COMPONENT_INSERT	Add Multiple Components
/AXONXAPP/COMPONENT_DELETE	Delete Component
/AXONXAPP/CLOCKING_SET	Labor Clocking ON/OFF
/AXONXAPP/CLOCKING_GET	Display Labor Clocking Events Table
/AXONXAPP/CHAR_RESULT_API	Display Inspection Lot and Characteristics Result
/AXONXAPP/CHAR_REQ_API/	(Order Header Level)
/AXONXAPP/COMPONENT_LIST_ORD	Component List based on Order
/AXONXAPP/NOTIF_PLAN_COMMENTS	Display Notification Comment
/AXONXAPP/NOTIF_PLAN_COMMENTS	Create Notification Comment
/AXONXAPP/DSIG_REVOKE_LVL	Read Digital Signature Levels for Revoke
/AXONXAPP/COMMENT_UPDATE	Create Order Header Comment
/AXONXAPP/COMMENT_UPDATE	Create Operation Comment
/AXONXAPP/COMMENT_READ	Display Order Header Comment
/AXONXAPP/COMMENT_READ	Display Operation Comment





8. Search helps

Field Name	Туре	Search Help
Accounting		
Indicator	Custom F4	/AXONUIBC/EWI_F4_ACC_INDI
	Standard OData	PS_NTWKACTY_OVW_SRV/I_NetworkActivityValueH
Activity	Service	elp
	Standard OData	MMIM_MULTIPLE_MATERIAL_SRV/VL_SH_H_MMIM
Base Unit	Service	_UOM_GEN
Cause Code	Custom F4	/AXONUIBC/EWI_F4_NOTIF_CAUSE
Code Group	Custom F4	/AXONUIBC/EWI_F4_NOTIF_CAUSE
	Standard OData	EAM OBJPG MAINTORDANDOPER SRV/I Operation
Control Key	Service	ControlProfile
Control Key		
Document	Standard F4	H_TCF10
Control Key		
Equipment	Standard F4	H_TCF10
Control Key		
Material	Standard F4	H_TCF10
Control Key		
Other	Standard F4	H_TCF10
	Standard OData	CV_DOCUMENT_MANAGEMENT/I_DocInfoRecdDocu
Document	Service	mentPart
	Standard OData	CV_DOCUMENT_MANAGEMENT/I_DocInfoRecdDocu
Document Type	Service	mentType
	Standard OData	EAM_OBJPG_MAINTNOTIFICATION_SRV/C_Technical
Equipment	Service	ObjectLabelVH
	Standard OData	EAM_OBJPG_TECHNICALOBJECT_SRV/C_ObjPgTechni
Equipment PRT	Service	calObject
Functional	Standard OData	EAM OBJPG MAINTNOTIFICATION SRV/C Technical
Location	Service	ObjectLabelVH
Item Category	Standard F4	H_T418
,	Standard OData	_
Material	Service	MMIM_MULTIPLE_MATERIAL_SRV/VL_SH_MAT1W
	Standard OData	
Material PRT	Service	MMIM_MULTIPLE_MATERIAL_SRV/VL_SH_MAT1T
	Standard OData	
Network	Service	PS_NTWKACTY_OVW_SRV/I_ProjectNtwkValueHelp
	Standard OData	PS_NTWKACTY_OVW_SRV/I_NetworkActivityValueH
Network Activity	Service	elp





	Standard OData	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_Maintena
Notification	Service	nceNotification
Notification Type	Custom F4	/AXONUIBC/EWI_F4_DEF_NOTIF
Order	Standard OData Service	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_MaintenanceOrder
Order Type	Standard	EAM_OBJPG_MAINTORDANDOPER_SRV/C_MaintOrd erTypeVH
Other PRT	Custom F4	/AXONUIBC/F4_OTHR_PRT
Personal Number	Custom F4	/AXONUIBC/EWI_F4_PERS_NO
Plant	Standard OData Service	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_Plant
Priority	Standard OData Service	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_PMNotific ationPriority
Project Definition	Standard OData Service	PS_NTWKACTY_OVW_SRV/I_ProjectValueHelp
Reason	Custom F4	/AXONUIBC/EWI_F4_REASON_VAR
Revision	Custom F4	/AXONUIBC/F4_REVISION
Sales Doc	Custom F4	/AXONUIBC/F4_SALES_DOCUMENT
Serial No.	Custom	EAM_OBJPG_MAINTORDANDOPER_SRV/I_Maintena nceOrder
Short Text key	Standard F4	H_T435
Storage Location	Standard OData Service	MMIM_MULTIPLE_MATERIAL_SRV/VL_SH_H_T001L_ OLD
Unit of Work	Standard F4	H_T006
WBS Element	Standard OData Service	PS_NTWKACTY_OVW_SRV/I_WBSElementValueHelp
Work Center	Standard OData Service	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_WorkCent erBySemanticKey
Work Order	Standard OData Service	EAM_OBJPG_MAINTNOTIFICATION_SRV/I_MaintenanceOrder