

**SAP Manufacturing Execution
How-To Guide**



How To Set Up and Use the SAP ME Mobile

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SAP ME How-To-Guide for ME Mobile

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SAP ME "How-to" Guides are intended to simplify the product implementation. While specific product features and procedures typically are explained in a practical business context, it is not implied that those features and procedures are the only approach in solving a specific business problem using SAP ME. Should you wish to receive additional information, clarification or support, please refer to SAP Consulting.

Document History

Document Version	Description	Author
1.0	Initial version	Peggy Enriquez
1.1	Added section 3.3 Platform Certification with link to UI5 page that contains relevant information	Peggy Enriquez
1.2	Add additional information on how to add or remove an app from a mobile POD. Added Site Selection app section.	Peggy Enriquez
1.3	Updates including DC Group Collect Data At support	Peggy Ernqquez

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1 Introduction

1.1 Purpose

The ME Help How-To-Guide for the ME Mobile feature is intended to provide sufficient information to enable the feature to be easily understood, configured and readily utilized to meet business needs, making use of available best practices.

1.2 Scope

This Help information covers all aspects of the ME Mobile feature

1.3 Glossary

POD Production Operator Dashboard is essentially the End User mechanism or GUI used by Shop Operators or Shop end users, to process and work production information associated to a manufacturing and assembly process.

App A self-contained program or piece of software designed to fulfill a particular purpose; an application, esp. as downloaded by a user to a mobile device.

Lists List definitions to be used throughout the application, for example: Operation List, Work List, and Component List. A list defines the label to display for each column, row sort order, etc.

Category List maintenance attribute of a List, used to segregate lists into specific categories which help to specify what the list is used for.

Activity This business object corresponds to a functional module in SAP ME. An activity is a basic unit of client code that usually (but not always) has a graphical user interface (GUI).

Mobile Device

A mobile computing device that is a wireless barcode scanner which supports an internet browser

2 Feature Overview

2.1 Description and Applicability

ME Mobile is a SAP UI5 browser based app that allows the user to perform SAP ME transactions on manufacturing mobile devices on supported platforms.

The ME Mobile features benefit users in the following ways:

- Standard out of the box configuration of ME Mobile with apps pre-configured
- Setup and configuration feature enable a build-your-own approach to allow customization to meet the disparate needs of the shop floor without custom coding

2.2 Business Purposes / Functions

ME Mobile allows a user to perform SAP ME transactions from a mobile barcode scanner on supported platforms/browsers from anywhere on the manufacturing floor with Wi-Fi conductivity. ME Mobile is an app that was developed with SAPUI5 mobile controls which were specifically created to run on mobile devices allowing the user to easily navigate and perform transactions from a mobile computer.

2.3 Best Practices

It is recommended to use the out of the box configuration as a template to use or configure ME Mobile

3 ME Mobile

3.1 Configuration through POD Maintenance

ME Mobile can be configured to meet the needs of the shop floor without custom coding. POD Maintenance is used to configure ME Mobile to customize the app to meet the various users' needs and roles.

A default POD configuration for ME Mobile has been defined out of the box which can be used and selected in the POD Browse. In order to retrieve it, first select the **TYPE** of Mobile and then MOBILE_DEVICE from the POD browse.

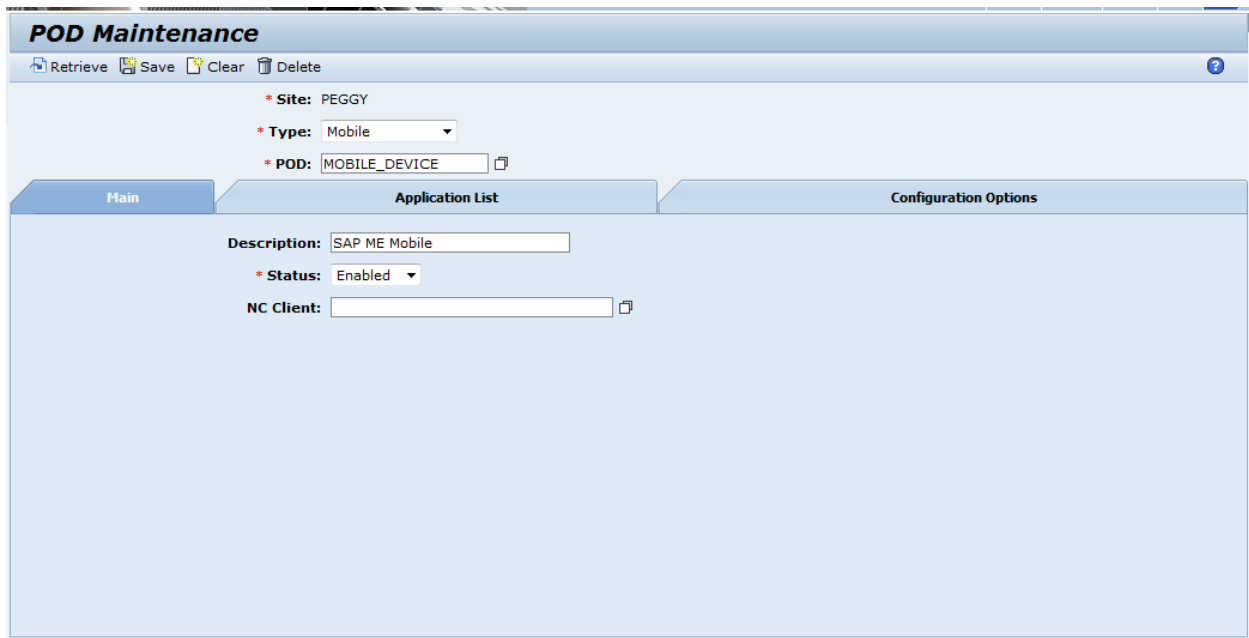


Figure 1 POD Maintenance for ME Mobile

ME Mobile is set up to launch apps used to perform SAP ME transactions. Apps are listed and launched from the ME Mobile home view of the app. The list of apps to be displayed are configured in the Applications List tab in POD Maintenance.

To add an app to a Mobile POD, first you must create an activity in Activity Maintenance that is connected to the new app. Select the Insert New which takes you to the Details screen. Fill the

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applicable Details information. This includes the ID, Label and/or icon. Click the Insert New button in the table. In the Activity field, fill in the Activity of the new app you created in [Activity Maintenance](#) for the new app. Click Apply. The new app will be listed on the Application List. Click Save to commit the change.

To remove an app from Mobile POD, select the row and click on Remove Selected and click OK on the confirmation dialog.

Sequence	ID/Label	Details
10	WIPPROC / I18N[wip.default.BUTTON]	Q
20	DCOLLECT / I18N[dcollect.default.BUTTON]	Q
30	ASSY / I18N[assemble.default.BUTTON]	Q
40	LOGNC / I18N[lognc.default.BUTTON]	Q
50	STATUS / I18N[statusInfo.default.BUTTON]	Q

Figure 2 Application List tab in POD Maintenance

In the Details screen, the application/activity is defined. Out of the Box, all mobile applications/activities begin with *MOBILE_*. For a list of the available applications, see [Application List tab](#).

The list for the apps can be set up to be displayed with a label only, an icon only or both a label and an icon. This is configured in the Details screen of the Applications List tab. Out of the box, they are configured with a label and a touch icon. For a list of available standard icons (.gif) and touch icons (.png) see the *SAP ME How-to-Guide- POD*.

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Details

* Sequence: 10
* ID: WIPPROC
▲ Label: I18N[wip.default.BUTTON]
▲ Image Icon: large/start.png

Insert New Insert Before Insert After Remove Selected Remove All

* Activity Sequence	* Activity
10	MOBILE_WIP

Apply Cancel

Figure 3 Details screen for Application List

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The Configuration Options tab allows for a default operation and resource to be defined. The check boxes for Operation and Resource can be changed to control whether or not an operator can change them respectively.

Currently the Main Input, SFC Queue and SFC in Work fields are not implemented.

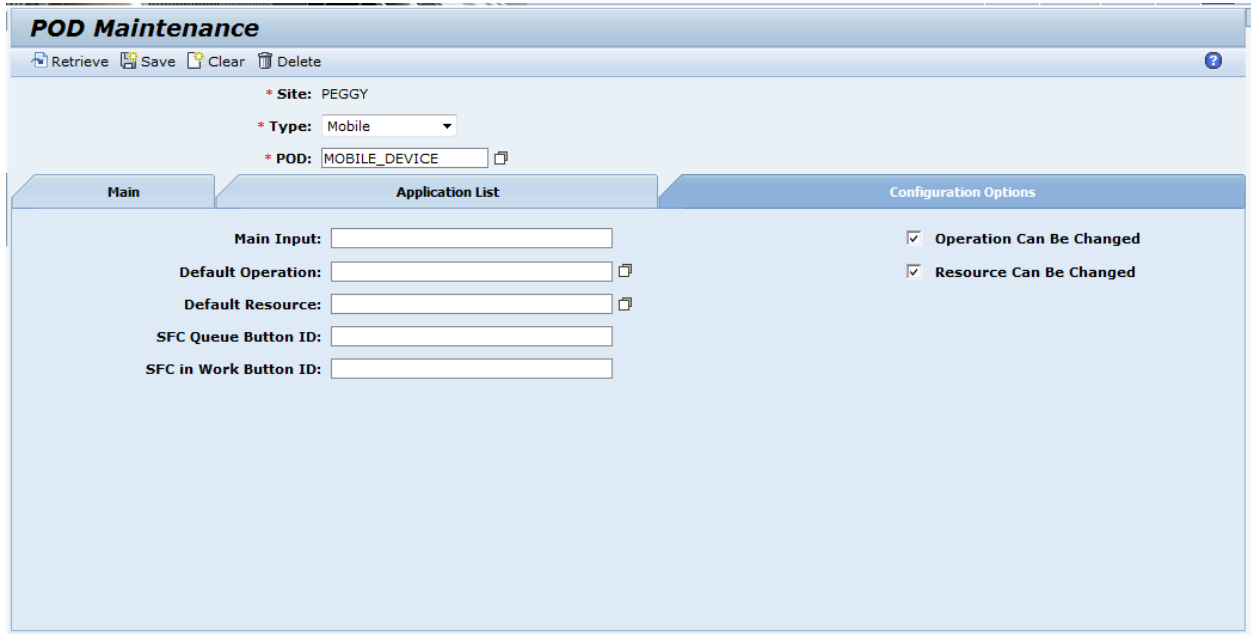
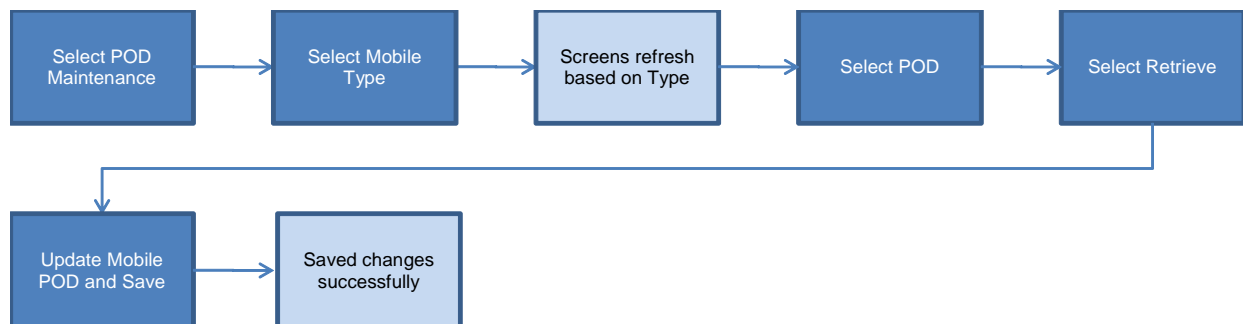
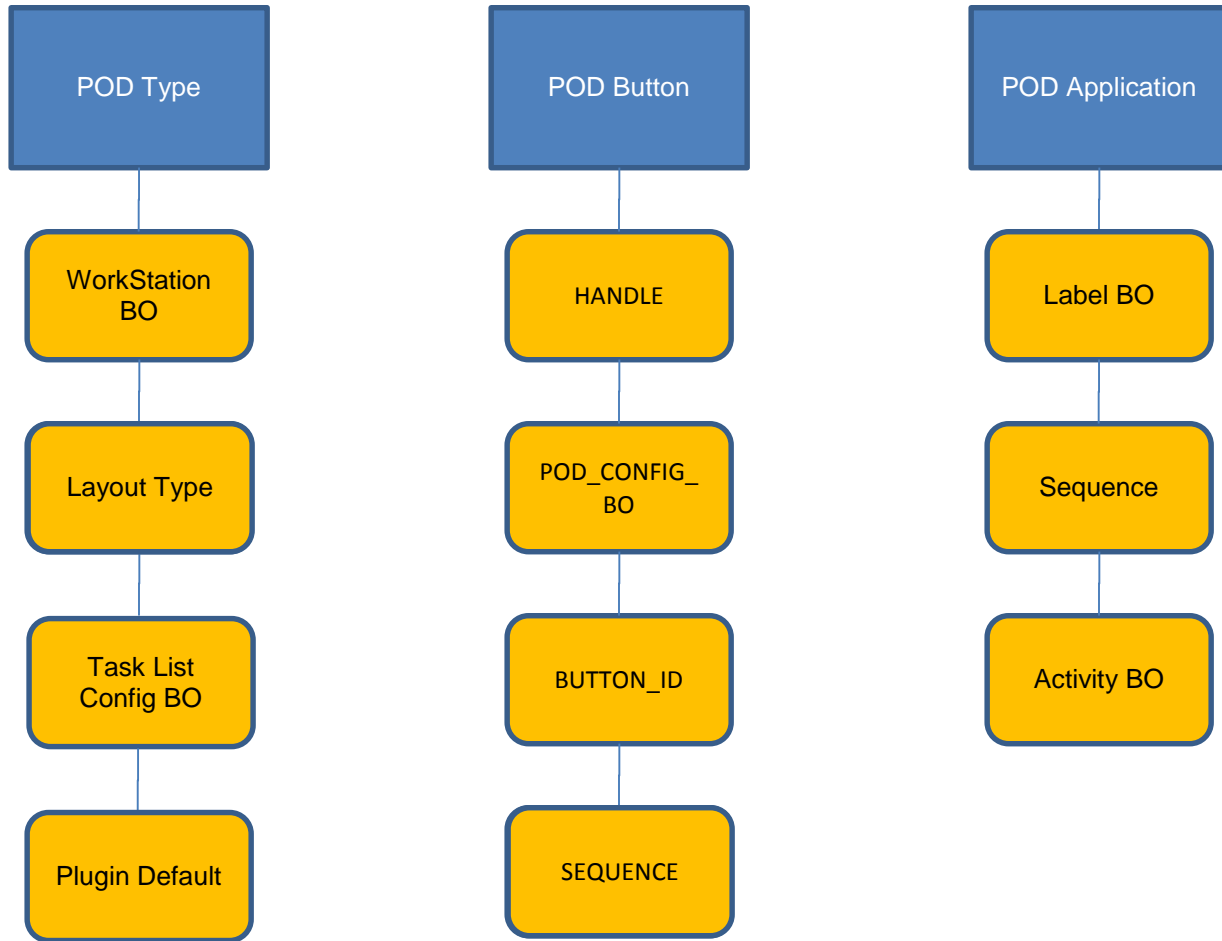


Figure 4 Configuration Options tab

3.1.1 Process Flow





3.1.2 Function Specific Setup

For setting up this function, select the TYPE of MOBILE. When the Mobile type is selected, the POD Maintenance screens will refresh to support the configuration of your ME Mobile app. Select a mobile POD; Retrieve the POD and modify/update the POD to the desired configuration. To use the POD retrieved as a base, modify the POD field value and “Save” before continuing with any modifications. This will ensure that the existing POD is not modified in the process, if it is intended to continue to use the existing POD as a guide in configuring any POD.

3.1.3 Best Practices

We recommend that you start with the predefined default POD for mobile, MOBILE_DEVICE, save it to a new POD name and modify it to suit your needs.

3.2 Default Mobile App Configuration

3.2.1 Main tab

The Main Tab contains three fields: Description, Status and NC Client. Description and Status describe the Mobile app and it's status (enabled, disabled). The NC Client is not in use at this time.

3.2.2 Application List tab

The Application List Tab contains a list of the apps included in the ME Mobile.

3.2.2.1.1 Application List Table - This table represents the available applications in ME Mobile.

ID	Button Label	Activity	Image Icon (.png)
WIPPROC	I18N[wip.default.BUTTON]	MOBILE_WIP	start.png
DCOLLECT	I18N[dcollect.default.BUTTON]	MOBILE_DC	data_col.png
ASSY	I18N[assemble.default.BUTTON]	MOBILE_ASSEMBLE	assemble.png
LOGNC	I18N[lognc.default.BUTTON]	MOBILE_LOG_NC	nonconformance.png
STATUS	I18N[statusInfo.default.BUTTON]	MOBILE_STATUS_INFO	information.png
CHANGEEQUIP	I18N[MOBILE_CHG_EQ_ST.activity.D ESC]	MOBILE_CHG_EQUIP_ST	change_equipment.png
		MOBILE_LAUNCH_DC	

3.2.3 Configuration Options tab

The Configuration Options tab allows for a default operation and resource to be defined.

3.3 Platform Certification

3.3.1 ME Mobile

Since ME Mobile is an SAP UI5 browser based app, it runs on the platforms supported by SAP UI5 mobile controls. In general, browser that can run html5 on devices running iOS (Safari) and Android (Chrome) are supported. For specific platform information see the following [link](#)

3.3.2 WIP Processing Lean app

WIP Processing Lean is app template that uses a leaner UI5 library that uses JQuery directly to generate HTML and does not use any UI5 controls so it will run on most scanning devices. The WIP Processing Lean app will run on browsers that can run HTML including Internet Explorer 8+, Chrome, Safari and Firefox. It will run on most browsers that come with either Android native scanning devices or Windows Mobile or CE scanning devices.

3.4 Integration

3.4.1 N/A

4 Application/Activity Configuration

4.1 Activity Maintenance

Application/activities have been configured and have a default set of data that is used in the ME Mobile.

4.1.1 Purpose / Effects

To provide a list of default apps/activities, in Activity Maintenance, that customers can use to create their own ME Mobile.

4.1.1.1 Settings/Examples

The activities listed below offer a default configuration out of the box, which may be used as is or may be used as a starting point or example for configuring a POD.

4.1.1.2 Mobile Apps

The mobile apps can be configured through Activity Maintenance. They have the *Type* of Mobile View.

The following apps can perform a transaction for an SFC, Shop Order or Process Lot.

- Mobile WIP Processing
 - Activity: MOBILE_WIP
 - Actions: Start, Signoff and Complete
 - Activity Rules:
 - Show Start
 - YES- Start button displayed
 - NO- Start button is not displayed
 - Show Signoff
 - YES- Signoff button displayed
 - NO- Signoff button is not displayed
 - Show Complete
 - YES- Complete button displayed
 - NO- Complete button is not displayed
 - START_NEXT_ACTION
 - Activity to execute after Mobile Start
 - SIGNOFF_NEXT_ACTION
 - Activity to execute after Mobile Signoff
 - COMPLETE_NEXT_ACTION
 - Activity to execute after Mobile Complete
 - Activity settings

The following are the activity rules are preset per the API for WIP Processing:

 - Start
 - CONFIRM_PROCESS_LOT_OPTIONS: CONTINUE
 - IGNORE_NOT_INQUEUE: YES

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- The following ones only apply when processing an item (material) which mobile does not do so they are really not applicable.
 - MAX_START_BY_ITEM_QTY
 - START_SORT_CRITERIA
 - START_BY_ITEM
 -
- Signoff
 - CONFIRM_PROCESS_LOT_OPTIONS: CONTINUE
 - IGNORE_NOT_ACTIVE: YES
- Complete
 - QUICK_COMPLETE: FALSE
 - IGNORE_COMPLETE: NO
 - CONFIRM_PROCESS_LOT_OPTIONS: CONTINUE
 - IGNORE_NOT_ACTIVE: YES
- Mobile Data Collection
 - Activity: MOBILE_DC
 - Action: Data Collection
 - Activity Rules:
 - The following rules mirror that activity rules for DC Group List and Data Collection Entry:
 - AUTO_NEXT
 - YES
 - NO
 - ENFORCE_GROUP_MODE
 - NO
 - YES
 - LOGNC_ID_ON_GROUP_FAILURE
 - NONE (only implemented option)
 - PROCESS_ALL_DC_GROUPS
 - FALSE
 - TRUE
 - SHOW_APPLY_TO_ALL
 - YES
 - NO
- Mobile Assemble
 - Activity: MOBILE_ASSEMBLE
 - Action: Assemble Components
 - Activity Rules:
 - The following rules mirror that activity rules for Component List and Assembly Point:
 - ALLOW_SKIP
 - NO
 - YES
 - ASSEMBLY_MODE
 - SEQUENCE
 - CHOOSE
 - CHOOSE_AUTO_NEXT

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- AUTO_ADD_ON_TABOUT
 - YES
 - NO
- DISPLAY_BARCODE
 - YES
 - NO
- ENFORCE_ASSY_STATES
 - FALSE
 - TRUE
- Mobile Log Non Conformance
 - Activity: MOBILE_LOG_NC
 - Actions: Log NC
 - Activity Rules: N/A

The Mobile Log NC app acts like a quick create for a started SFC to log a non conformance and does not facilitate the processing of the Non Conformance. That must be done in SAP ME.

- Note: The SFC must be in an Active state to log the nonconformance. If the SFC is either New or In Queue, a Start must be performed in WIP Processing before you can log a nonconformance in Mobile Log Non Conformance.

- Mobile Status Information
 - Activity: MOBILE_STATUS_INFO
 - Action: View status information about an SFC, Shop Order or Process Lot
 - Activity Rules:
 - PROCESS_LOT_LIST : <list name>
 - Default: PROCESS_LOT_DEFAULT
 - SFC_LIST: <list name>
 - Default: SFC_DEFAULT
 - SHOP_ORDER_LIST : <list name>
 - Default: ORDER_DEFAULT

Note: lists are defined in list maintenance under the Category of MOBILE_STATUS

Use this app to perform the following transaction:

- Mobile Change Equipment Status
 - Activity: MOBILE_CHG_EQUIP_ST
 - Action: Change the status of a resource, all resources in a work center, a tool group or a tool
 - Activity Rules:

The following rules mirror that activity rules for Change Equipment Status

 - COMMENT_REQUIRED
 - NO
 - YES

- DISPLAY_RESOURCE
 - YES
 - NO
- DISPLAY_TOOL_GROUP
 - YES
 - NO
- DISPLAY_TOOL_NUMBER
 - YES
 - NO
- DISPLAY_WORK_CENTER
 - YES
 - NO
- REASON_CODE_REQUIRED
 - YES
 - NO

4.1.2 Launching ME Mobile Default Mobile POD

Purpose / Effects – There is one out of the box ME Mobile POD called MOBILE_DEVICE which is configured for a manufacturing mobile barcode scanner.

You can launch ME Mobile using the following sample URL:

```
http://<host>:<port>/manufacturing-mobile/index.jsp?WORKSTATION=<POD Name>
```

The default theme for SAPUI5/ME Mobile is *Blue Crystal* theme. It can be displayed in the *Mobile Visual Identity* theme as well. To display ME Mobile in a different theme, include the follow command in the POD URL: `&sap-ui-theme= name of theme` For example:

```
http://<host>:<port>/manufacturing-mobile/index.jsp?&WORKSTATION=MOBILE_DEVICE&sap-ui-theme=SAP_mv
```

4.2 Maintenance Activities

4.2.1.1 List Maintenance

Purpose / Effects – List Maintenance includes a default number of List's available that have been preconfigured for use as templates for customers who wish to modify them for their own need and their custom POD's or use as is. The category defines what type of list. The Mobile_Status category supports the lists for the Mobile Status Information app. They define which fields are displayed for SFCs, Shop Orders and Process Lots in the Mobile Status Information app.

5 Usage Scenario Examples

5.1 ME Mobile from a mobile computer/scanner device

5.1.1 Purpose / Goal

The purpose of this scenario is to describe a common set of transaction performed with ME Mobile

5.1.2 Scenario Specific Settings

Out of the box configuration of MOBILE_DEVICE; SFC created that has Data Collection and Assemble data to collect. The mobile device is running a browser that supports html5.

The Data Collection Groups, defined in Data Collection Maintenance, should have the Collect Data At: defined in Data Col as Anytime as this is the only one supported by DC Mobile. The Collect Data At: Start, Complete and Start/Complete are not supported.

As a general note, ME Mobile is made to run on mobile scanning devices. It is assumed that many fields will receive input via a barcode scans. Some fields that are displayed in the Standard and Touch PODs plugins with browsers and auto populations are displayed and behave differently in ME Mobile as it is assumed that those fields will instead be input from barcode scans. This especially applies to Mobile Data Collection and Mobile Assemble Data Fields. For example, the *SFC* Data Field that can be defined to display in both DC500 and CT500 has a default setting of showing a browse when displayed in both the Standard and Touch POD plugins. It does not have a browse icon in ME Mobile as it is assumed that a value will be scanned into that field.

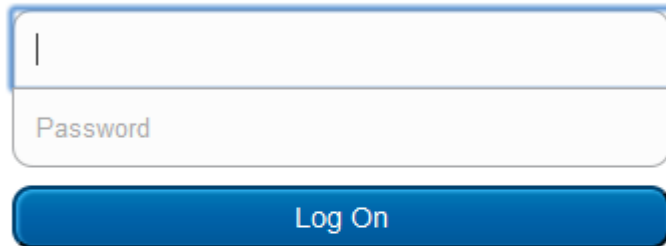
5.1.3 Scenario Steps

The following are examples of the steps that a user might perform in ME Mobile in order to perform transactions on a mobile computer/scanner device. This scenario assumes the transactions are performed for the same SFC.

5.1.3.1 Launch ME Mobile and login

1. Launch ME Mobile link in browser

SAP NetWeaver



The screenshot shows a mobile login interface. At the top, there is a white rectangular input field for the username. Below it is another white rectangular input field labeled 'Password'. At the bottom of the form is a blue button with the text 'Log On' in white.



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Figure 5 ME Mobile UME mobile Logon screen

2. Input username and password into UME
3. ME Mobile home screen displays with the list of apps

Note: The POD will open up in the site defined as the user's Default Site as assigned in UME. If you would like to go to another site, use the [Site Selection](#) app.

Note: The WORKSTATION=<POD Name that you define in the URL must exist in the users default site or an error will display.

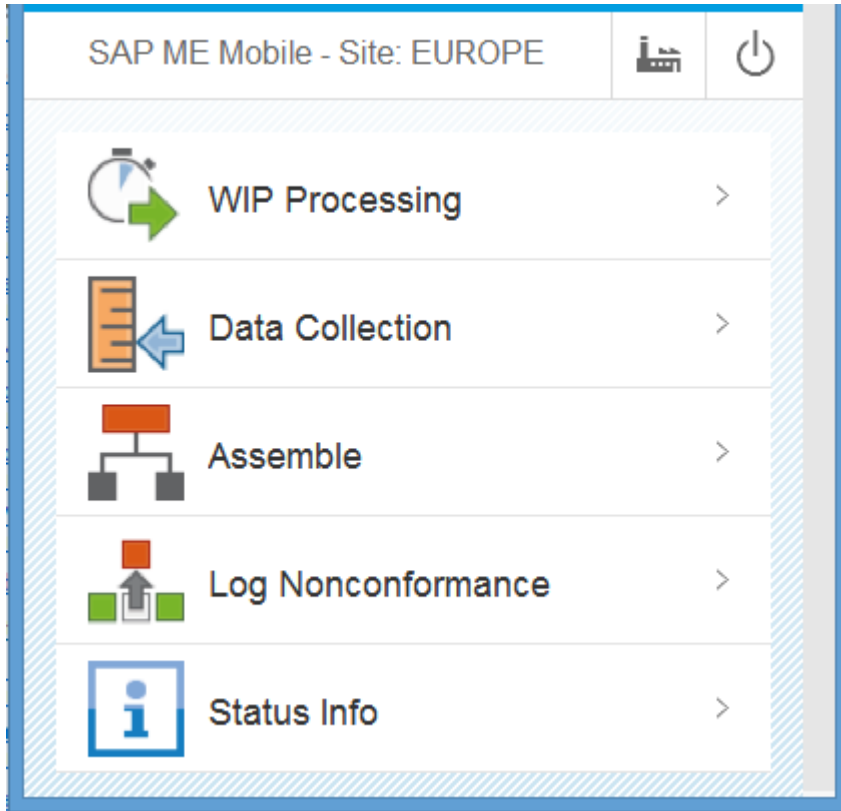


Figure 6 ME Mobile Home Screen

5.1.3.2 Start SFC and Collect Data

4. Select WIP Processing App

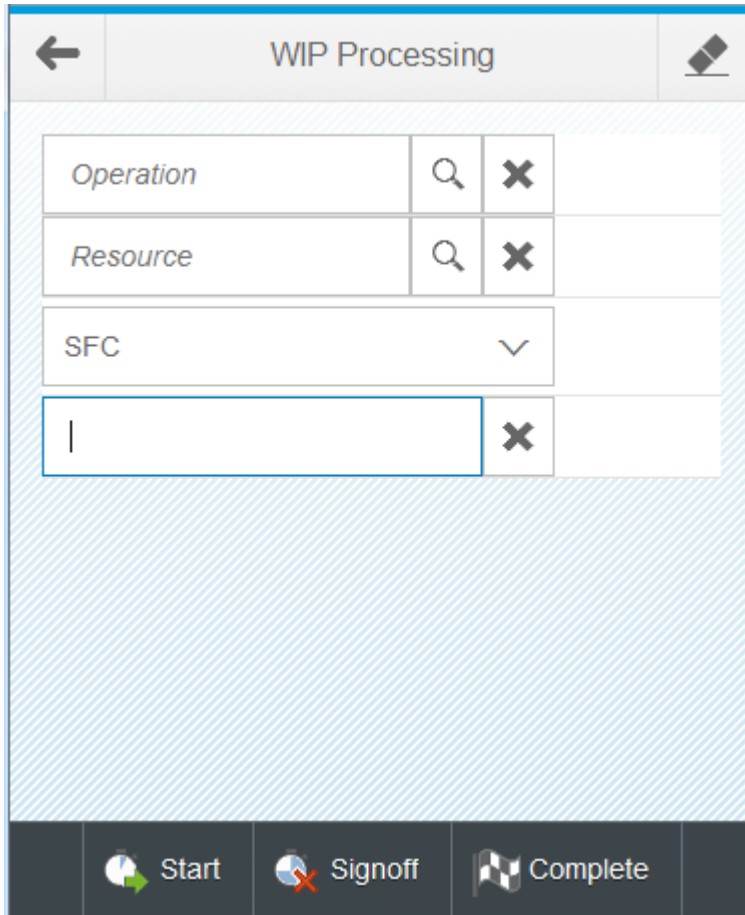


Figure 7 WIP Processing app

5. Select Operation browse
6. Select operation
7. Select resource browse
8. Select resource
9. Scan or input SFC
10. Click Start button
11. *SFCs Started* success message displays
12. Click back arrow button in top tool bar to return to home screen
13. Select Data Collection app
14. Click Collect button
15. Select DC Group

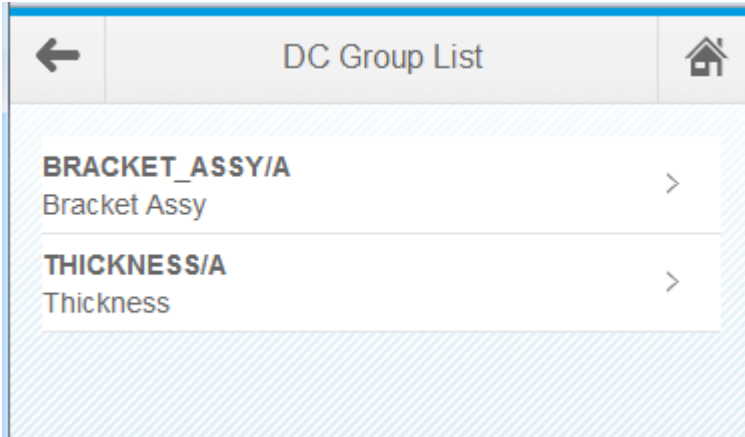


Figure 8 DC Group List screen

16. Enter data into Data Collection Entry screen

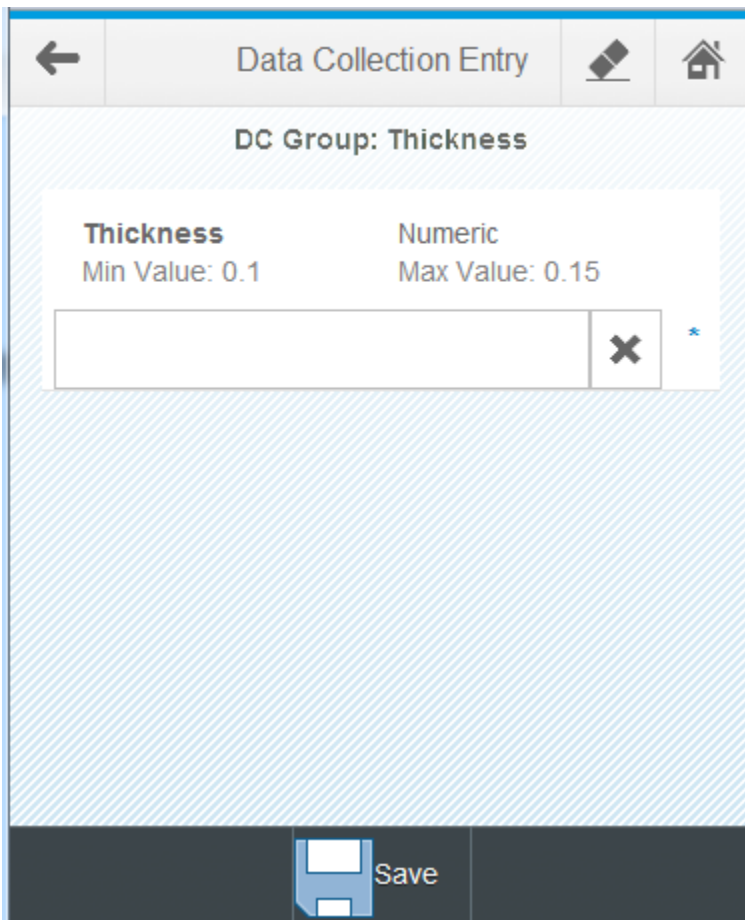


Figure 9 Data Collection Entry screen

17. Click Save button

18. *Data collected for SFC xxx* success message displays

19. Click back arrow button in top tool bar to return to home screen

5.1.3.3 Assemble Components

1. Select Assemble app
2. Click Assemble button
3. Enter data into Assemble screen

SFC: BASSY571 1 SFCs Selected

Component: BRACKET/A

Description: Bracket

Quantity: 1 X Rem Qty: 1

Barcode:

*External Serial

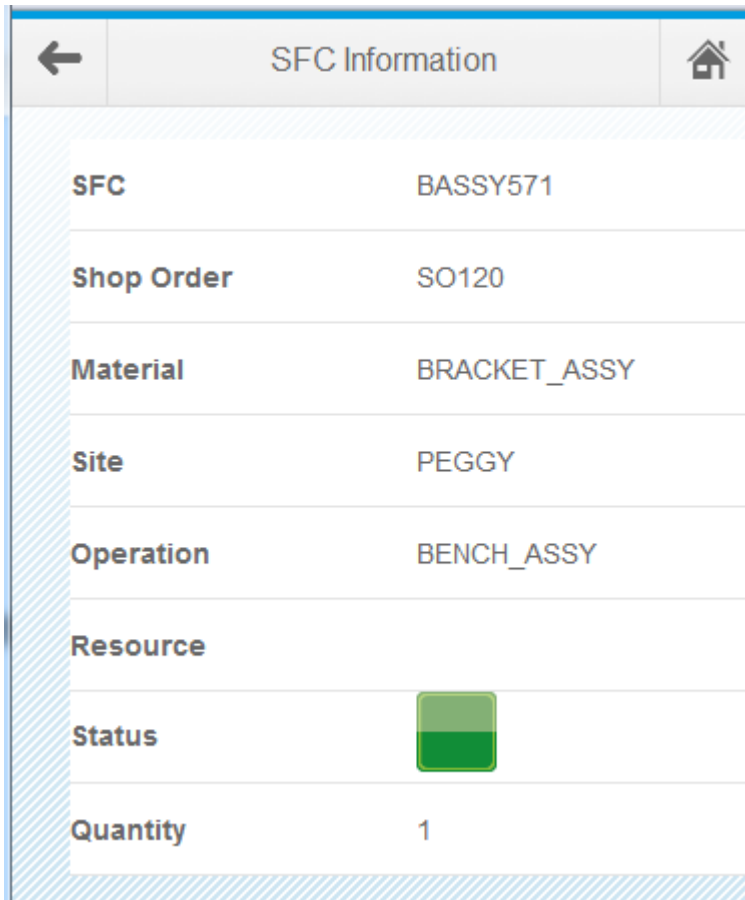
Add

Figure 10 Mobile Assemble for Component

4. Click Add button
5. *Component Assembled on ISFCs* success message displays
6. Continue to assemble any remaining components.
7. Upon Add of last component, *All component assembled at this operation* success message displays
8. Click back arrow button in top tool bar to return to home screen

5.1.3.4 View Status of an SFC

9. Select Status Information app
10. Click Next button
11. View SFC Information




Field	Value
SFC	BASSY571
Shop Order	SO120
Material	BRACKET_ASSY
Site	PEGGY
Operation	BENCH_ASSY
Resource	
Status	
Quantity	1


Figure 11 Status Information for an SFC

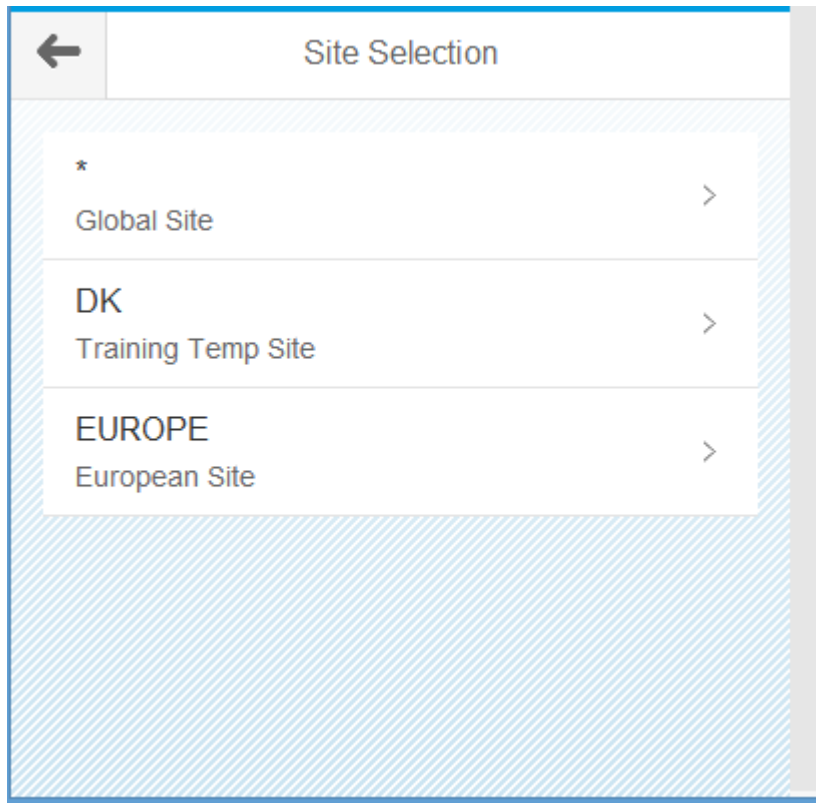
12. Click Home button in top tool bar to return to home screen

5.1.3.5 Complete SFC

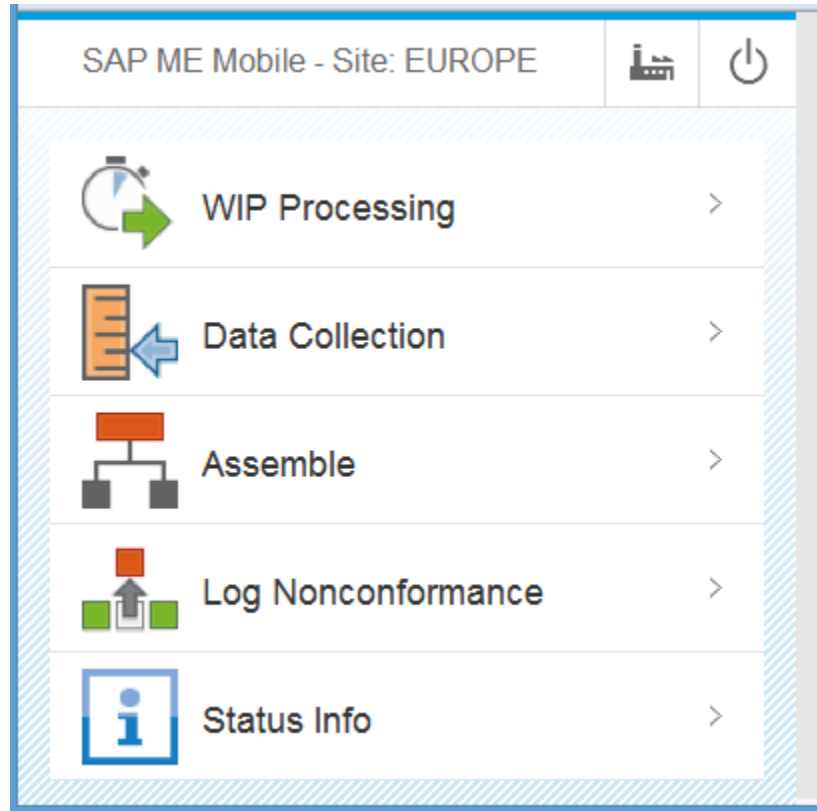
13. Click Complete button
14. *SFCs Completed* success message displays
15. Click back arrow button in top tool bar to return to home screen

5.1.3.6 Switch Sites

16. Click the  Site icon on the top of the tool bar of the home screen



17. The Site Selection app displays
18. Select a Site
19. The name of the selected site will display in the top of the tool bar of the home screen.



5.1.3.7 Logout of ME Mobile

20. Click Logout button in top tool bar of home screen

21. UME screen displays

5.2 More apps and configurations of ME Mobile

5.2.1 Purpose / Goal

The purpose of this scenario is to describe more ME Mobile app with various configurations

5.2.2 Scenario Specific Settings

Launch Mobile DC after Start scenario

- SFC created that has Data Collection data to collect.
- Make the following changes in Activity maintenance
 - Activity: MOBILE_WIP
 - Activity rule START_NEXT_ACTION is set to MOBILE_LAUNCH_DC

Activity Maintenance

Retrieve Save Clear Delete

* Activity: MOBILE_WIP

Main Rules Activity Groups

Insert New Remove Selected

Rule	Setting
COMPLETE_NEXT_ACTION	
SHOW_COMPLETE	YES
SHOW_SIGNOFF	YES
SHOW_START	YES
SIGNOFF_NEXT_ACTION	
START_NEXT_ACTION	MOBILE_LAUNCH_DC

Figure 12 Mobile WIP activity with MOBILE_LAUNCH_DC as START_NEXT_ACTION

- Activity: MOBILE_LAUNCH_DC
 - Activity rule DC_ACTIVITY is set to MOBILE_DC (or whatever Mobile DC app you would like to launch directly into from the WIP Processing Start transaction.
 - Note: this activity allows for the mobile start app to launch directly into Mobile DC the Data Collection Entry screen thus skipping the mobile DC entry screen (operation, resource and SFC) since it is being launched with that information from WIP Processing Start.

For Mobile Log NC scenario

- System Rule *Use NC Groups for Production Clients* is set to True
- Core NC Groups and NC Codes exist

5.2.3 Scenario Steps-

The following are examples of the steps that a user might perform in ME Mobile in order to perform transactions on a mobile computer/scanner device. This scenario assumes the transactions are performed for the same SFC.

5.2.3.1 Launch Mobile DC after Start

20. Select WIP Processing App
21. Select Operation browse
22. Select operation
23. Select resource browse
24. Select resource
25. Scan or input SFC
26. Click Start button
27. *SFCs Started* success message displays
28. After a few second delay, the Data Collection Entry screen displays with the DC parameters for the SFC
29. Enter data into Data Collection Entry screen
30. Click Save button
31. *Data collected for SFC xxx* success message displays
32. WIP Processing app displays

5.2.3.2 Log an NC

33. Select Log NC App
34. Click Erase button.
 - a. Erase button returns screen to default settings
35. Select Operation browse
36. Select operation
37. Select resource browse
38. Select resource
39. Scan or input SFC with Active status

The screenshot shows the 'Log Nonconformance' screen in SAP ME Mobile. The screen has a header with a back arrow, the title 'Log Nonconformance', and a pencil icon. Below the header is a list of input fields:

BENCH_ASSY	🔍	✖	
BENCH	🔍	✖	
SFC		▼	
BASSY571		✖	
NC Group	🔍	✖	

40. Click on NC Group browse

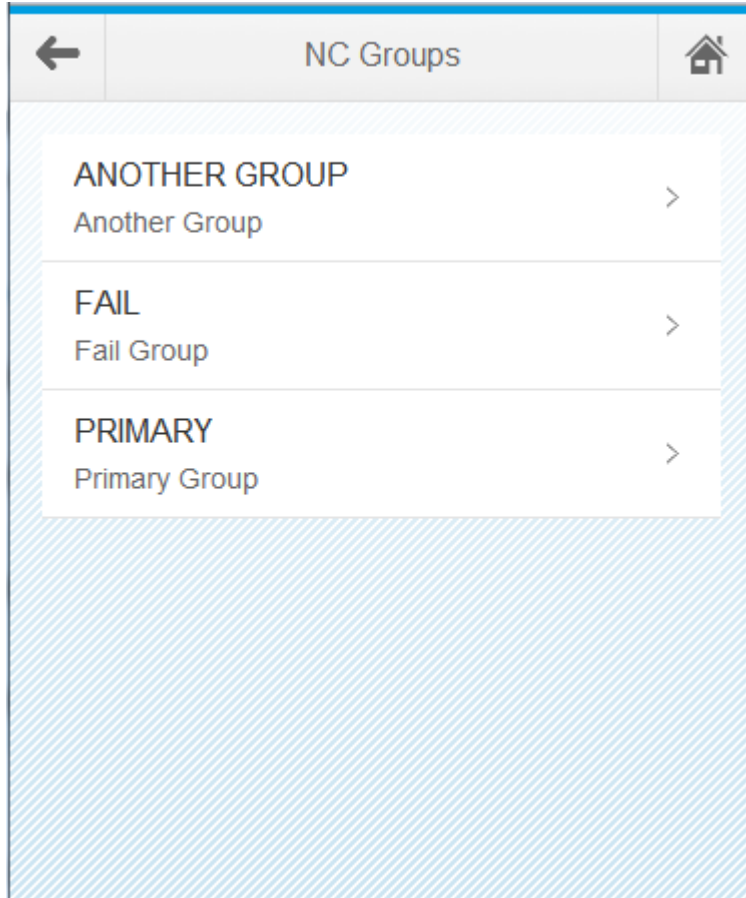


Figure 13 NC Groups List

41. Select *Primary* NC Group
42. Select *Fail* NC Code

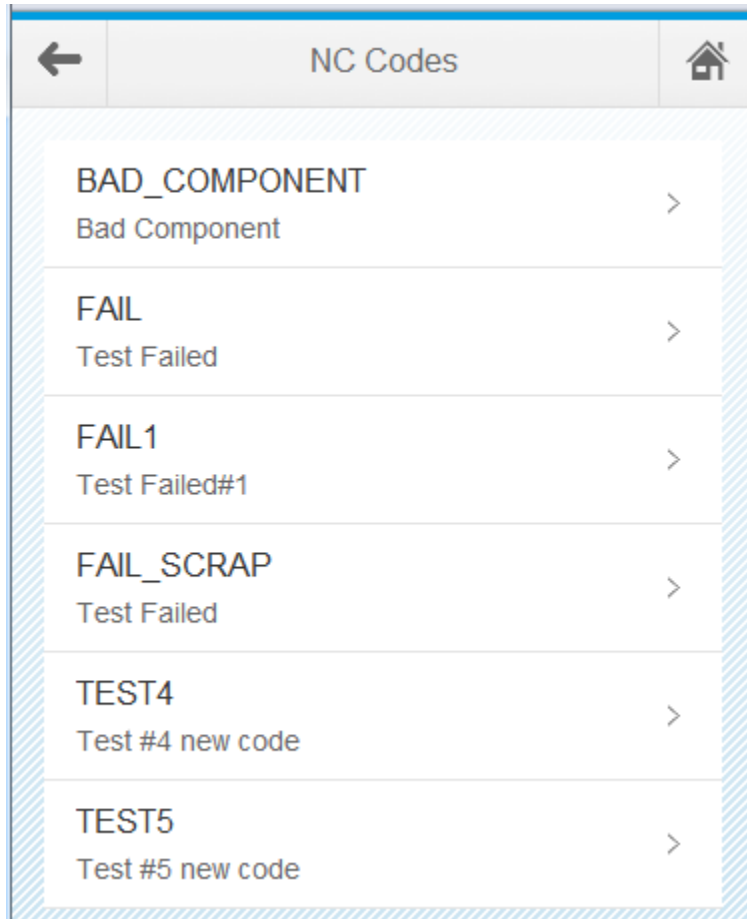


Figure 14 List of NC Codes

43. Click Add button
44. *NC Logged* success message
45. Click back arrow button in top tool bar to return to home screen

5.3 WIP Processing Lean

5.3.1 Purpose / Goal

The purpose of this scenario is to describe the WIP Processing Lean app template.

ME Mobile is an UI5 app which uses an HTML5 library therefore it must run on a browser that supports HTML5. Some mobile devices do not have browsers that support HTML5, for example mobile devices that run on Windows CE or Windows Mobile. WIP Processing Lean is app template that uses a leaner UI5 library that uses JQuery directly to generate HTML and does not use any UI5 controls so it will run on such devices. The WIP Processing Lean app was created

as a template that can be used as an example of how to create a lean app that will run on most browsers. It does not support all barcode scanning options (i.e. \$I, \$M) available in SAP ME. Recommend referring to mobile computer settings to incorporate these types of features into your app.

5.3.2 Scenario Specific Settings

The WIP Processing Lean app can be run from a browser by inputting the following URL:

`http://server/manufacturing-mobile/lean/wip.jsp?&sap-ui-theme=sap_mvi&size=size`

Note: *size* can be small, medium or large. Size will change the size of the buttons and font so as to make it adaptable to different types of devices with various resolutions. It is recommended that you view each of the device sizes on devices to see which one best suits it.

5.3.3 Scenario Steps

The following are examples of the steps that a user might perform in WIP Processing Lean in order to perform transactions on a mobile computer/scanner device.

5.3.3.1 WIP Processing Lean

To Start an operation of an SFC:

1. Launch the URL for WIP Processing Lean
2. UME screen will display
3. Input username and password
4. WIP Processing Lean app will display

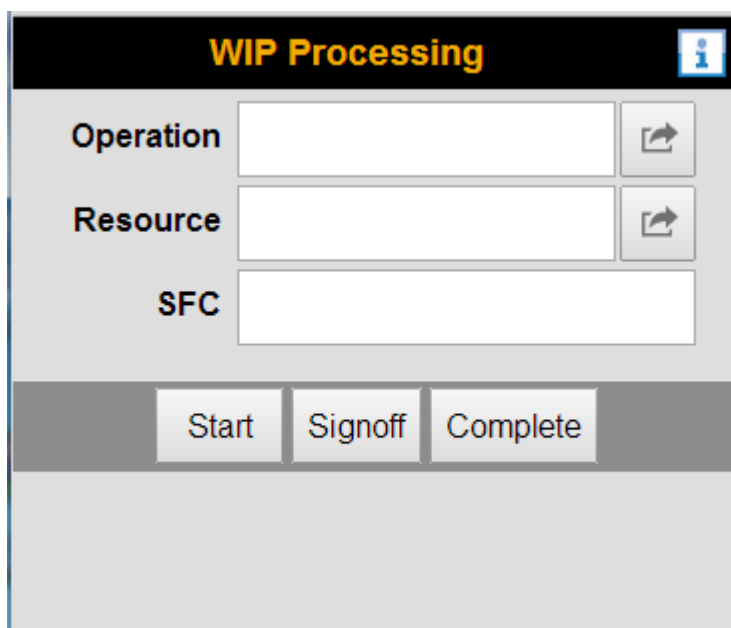


Figure 15 WIP Lean app

5. Select Operation browse
6. Select operation
7. Select resource browse
8. Select resource
9. Scan or input SFC
10. Click Start button
11. *SFCs Started* success message displays
12. To Signoff the operation of the above SFC, click the Signoff button.
13. *SFCs Signed off* success message displays
14. To Complete the operation of the above SFC, click the Complete button.
15. *SFCs Completed* success message displays

6 Links to Additional Information

See the following documents in the SAP ME [Installation & Upgrade Guides](#) :

- *SAP ME Mobile Developers Guide*
- *ME OData Service Feature Guide*
- *Developer Guide for NWDS Extensibility SAP ME 15.0*

7 Other Reference Material

None provided

8 Overview of Changes

Not applicable