1. User Registration

Business Rules

The System will identify if the user is logged in via WSL and show the appropriate form.

Ford Employee Registration Business Rules

1. WSL ID: The WSL ID used by the user to log in will be displayed in this field and it is a non-editable field and mandatory field.

2. First Name: First name should be retrieved from WSL ID details and this is non-editable field which is a mandatory field.

3. Last Name: Last name should be retrieved from WSL ID details and this is non-editable fields which is a mandatory field.

4. Email Id: This field is pulled in from WSL ID details (the users@ford.com e-mail address) and is a mandatory field.

5. Work Phone: This will be mandatory field if the Phone priority is selected as Landline. Landline if any available in WSL details will be automatically pulled. This will be a non-editable field and mandatory field.

6. Address 1: User WSL ID credentials to display the users address 1 data in this field and it is a mandatory field. This would be non-editable field.

7. Address 2: User WSL ID credentials to display the users address 2 data in this field and it is not a mandatory field. This is not a mandatory field.

8. City: User WSL ID credentials to display the City data in this field and is a mandatory field. This is an editable field.

9. State: User WSL ID to default the State/Province and is not a mandatory field.

10. Pin Code: User WSL ID to display the Postal Code and is not a mandatory field.

11. Country: User WSL ID will default to the Country of the User and is a mandatory field.

12. Language: System should allow the user to select from the languages that are listed (English & Chinese). English and other languages. Based on the language that is selected, the labels on all eSIP screens should be displayed. The Default language value will always be English.

13. Submit for Approval: The system should save the data entered after clicking the "Submit for Approval" and the request will be added to the appropriate regional Approval Queue.

Business Rules for New User Request Approval: This page will be displayed only if the user has access to this screen.

New user Request Approval QUEUE:

The new user request approval queue will show the list of requests with the following display only details along with approval/deny button.

1. WSL ID: The WSL ID used by the user to log in will be displayed in this field and it is a non-editable field

2. First Name: First name that was retrieved from WSL ID details and this is non-editable field

3. Last Name: Last name that was retrieved from WSL ID details and this is non-editable field

4. Email Id: Email Id that was retrieved from WSL ID details and this is non-editable field

5. Approve/Deny: This button will direct to the new user request approval page where the approver can approve or deny the requests

6. Refresh: Refresh button will refresh the new user request queue upon clicking the button.

New user Request Approval Page:

1. WSL ID: The WSL ID used by the user to log in will be displayed in this field and it is a non-editable field and mandatory field.

2. First Name: First name should be retrieved from WSL ID details and this is non-editable field which is a mandatory field.

3. Last Name: Last name should be retrieved from WSL ID details and this is non-editable fields which is a mandatory field.

4. Email Id: This field is pulled in from WSL ID details (the users@ford.com e-mail address) and is a mandatory field.

5. Work Phone: This will be mandatory field if the Phone priority is selected as Landline. Landline if any available in WSL details will be automatically pulled. This will be a non-editable field and mandatory field.

6. Address 1: User WSL ID credentials to display the users address 1 data in this field and it is a mandatory field. This would be non-editable field.

7. Address 2: User WSL ID credentials to display the users address 2 data in this field and it is not a mandatory field. This is not a mandatory field.

8. City: User WSL ID credentials to display the City data in this field and is a mandatory field. This is an editable field.

9. State: User WSL ID to default the State/Province and is not a mandatory field.

10. Pin Code: User WSL ID to display the Postal Code and is not a mandatory field.

11. Country: User WSL ID will default to the Country of the User and is a mandatory field.

12. Language: System should allow the user to select from the languages that are listed (English & Chinese). English and other languages. Based on the language that is selected, the labels on all eSIP screens should be displayed. The Default language value will always be English.

13. User Role: Approver can assign the appropriate role for the specific user.

14. <u>Comments</u>: If the request is denied, approver needs to enter the comments mandatorily mentioning the reason for rejection.

15. <u>Approve:</u> On clicking the approve button, the requests will be approved and selected role will be assigned. User will have access to eSIP application based on the role assigned.

16. <u>Deny:</u> On clicking the deny button, the requests will be rejected and the user will not have access to eSIP application. In case the same user wants to use the application user will have to register again.

17. <u>Back:</u> on clicking the back button, user will be redirected to the New user request approval Queue page.

During the time period between the registration and approval, if the user tries to login the eSIP application, user will be prompted with a message saying the "Your Request is in Pending for Approval status. You are not authorized to access the requested page."

2. Manager User Profile

<u>Business Rules for Updating User Profile</u>

The same set of Business rules will be used for Update Profile as well. However, the following fields will be only editable for Ford Employee.

1. <u>WSL ID</u>: The WSL ID used by the user to log in will be displayed in this field and it is a non-editable field and mandatory field.

2. <u>First Name</u>: First name should be retrieved from WSL ID details and this is non-editable field which is a mandatory field.

3. <u>Last Name</u>: Last name should be retrieved from WSL ID details and this is non-editable fields which is a mandatory field.

4. Email Id: This field is pulled in from WSL ID details (the users@ford.com e-mail address) and is a mandatory field.

5. Work Phone: This will be mandatory field if the Phone priority is selected as Landline. Landline if any available in WSL details will be automatically pulled. This will be a non-editable field and mandatory field.

6. Address 1: User WSL ID credentials to display the users address 1 data in this field and it is a mandatory field. This would be non-editable field.

7. Address 2: User WSL ID credentials to display the users address 2 data in this field and it is not a mandatory field. This is not a mandatory field.

8. City: User WSL ID credentials to display the City data in this field and is a mandatory field. This is an editable field.

9. State: User WSL ID to default the State/Province and is not a mandatory field.

10. Pin Code: User WSL ID to display the Postal Code and is not a mandatory field.

11. Country: User WSL ID will default to the Country of the User and is a mandatory field.

12. Language: System should allow the user to select from the languages that are listed (English & Chinese). English and other languages. Based on the language that is selected, the labels on all eSIP screens should be displayed. The Default language value will always be English.

13. Update: Also, instead of a Submit for approval button, an update button will be shown to save the modifications.

14. User Role: Also, eSIP user should be able to request User Role change/update. If the user changes the Role and clicks Submit for Approval, the updated form should be submitted for Approval.

Mange Users: This page will be displayed only if the user has access to this screen.

The new user request approval queue will show the list of requests with the following display only details along with approval/deny button.

1. WSL ID: By entering the WSL id, user can search the required user profile to be manage

2. First Name: By entering the First Name, user can search the required user profile to be manage

3. Last Name: By entering the Last Name, user can search the required user profile to be manage

4. Email Id: By entering the email id, user can search the required user profile to be manage

5. Role: By selecting the Role, user can search the required user profiles to be manage

6. Status: By selecting the active or inactive status, user can search the required profiles to manage.

Manage User Page:

1. <u>WSL ID</u>: The WSL ID used by the user to log in will be displayed in this field and it is a non-editable field and mandatory field.

2. <u>First Name</u>: First name should be retrieved from WSL ID details and this is non-editable field which is a mandatory field.

3. <u>Last Name</u>: Last name should be retrieved from WSL ID details and this is non-editable fields which is a mandatory field.

4. <u>Email Id</u>: This field is pulled in from WSL ID details (the users@ford.com e-mail address) and is a mandatory field.

5. <u>Work Phone:</u> This will be mandatory field if the Phone priority is selected as Landline. Landline if any available in WSL details will be automatically pulled. This will be a non-editable field and mandatory field.

6. <u>Address 1</u>: User WSL ID credentials to display the users address 1 data in this field and it is a mandatory field. This would be non-editable field.

7. <u>Address 2</u>: User WSL ID credentials to display the users address 2 data in this field and it is not a mandatory field. This is not a mandatory field.

8. <u>City</u>: User WSL ID credentials to display the City data in this field and is a mandatory field. This is an editable field.

9. <u>State</u>: User WSL ID to default the State/Province and is not a mandatory field.

10. <u>Pin Code</u>: User WSL ID to display the Postal Code and is not a mandatory field.

11. <u>Country</u>: User WSL ID will default to the Country of the User and is a mandatory field.

12. <u>Language:</u> System should allow the user to select from the languages that are listed (English & Chinese). English and other languages. Based on the language that is selected, the labels on all eSIP screens should be displayed. The Default language value will always be English.

13. <u>User Role</u>: Approver can assign the appropriate role for the specific user.

14. <u>Disable User:</u> This check box can be checked if the admin wishes to disable the user.

15. <u>Update</u>: Update button saves the changes that was done on the user profile.

16. <u>Back:</u> on clicking the back button, user will be redirected to the Manage user Page.

3. Role Maintenance:

Business Rules:

ADD ROLE:

1. ROLE CODE: User can enter a role code with "3" characters. This is a mandatory field and role code cannot be repeated.

2. ROLE Description: User can enter an alphabetic Role Description. This is a mandatory field.

3. ADD ROW: Add Row button allows the user to add new Role details. On click of the Add Row button, a new blank line gets added to enter the role details.

4. Status: The Roles will be created in Active Status. While updating the roles can be made to inactive status. While updating the record, status will be shown as single select dropdown.

5. SAVE: On clicking the save button the entered/modified role details will be saved.

6. REFRESH: On clicking the refresh button the screen gets refreshed.

7. EXPORT TO EXCEL: On clicking the export to excel button the data on the screens gets exported to excel.

MAP ROLE:

Search Section:

1. SCREEN NAME: User can select from the list of screen names in the single select dropdown for searching based on the Screen name.

2. FUNCTION: Function names will be loaded based on the selected screen name. This will be a multi select dropdown.

3. ROLE: Roles dropdown will be loaded based on the roles that are crated. This is a multi-select dropdown. Based on the role selected search results will be shown. Role code and role description will be shown in a concatenated form.

4. SEARCH: On clicking the search button, search results will be displayed based on the search criteria selected. If no search criteria are selected, all the records will be displayed.

Detail Section:

1. ADD ROW: Add Row button allows the user to add new Role Mappings. On click of the Add Row button, a new blank line gets added to enter the role details.

2. SCREEN NAME: User can select from the list of screen names in the single select dropdown for searching based on the Screen name. This is a mandatory field.

3. FUNCTION: Function names will be loaded based on the selected screen name. This will be a multi select dropdown. This is a mandatory field.

4. ROLE: Roles dropdown will be loaded based on the Roles created in the Role maitenance. This is a multi select dropdown. Based on the role selected search results will be shown. Role code and role description will be shown in a concatenated form. This is a mandatory field.

5. SAVE: On clicking the save button the entered/modified role mapping details will be saved.

6. REMOVE MAPPING: On clicking the remove mapping button, the selected mapping will be removed.

7. REFRESH: On clicking the refresh button the screen gets refreshed.

8. EXPORT TO EXCEL: On clicking the export to excel button the data on the screens gets exported to excel.

4. Data Source ID Maintenance:

Business Rules:

Search Section:

1. DSID: All the DSID that are available in the system will be listed along with operation in this multi select dropdown. User can select the DSID and click on search button to retrieve the required results.

2. Operation: User can enter the required operation in text box and click on search to retrieve the results.

3. Status: Active/Inactive will be loaded in the Status dropdown. User can select the required status and click on search button.

4. Search: User can click on the search button to display the search results.

Detail Section:

8. DSID: User can enter the DSID code with length of "6" numeric. This is a mandatory field. DSID Code cannot be repeated.

9. Operation: User can enter an operation for the value that has been entered against the DSID with length of "100" characters. This is a mandatory field.

10. Status: While creation of the DSID only Active status will be available and on saving the DSID will be saved in active status. While editing the DSID status can be modified to inactive also.

11. Select All: When the user clicks on this option the system should select all the records.

12. The system should keep the history of the changes in data base and created date and last updated field should show the system updated date (MM/DD/YYYY) and time (HH:MM).

13. Download Template: User can get the sample template by clicking on download template.

14. Import Excel: On clicking the Import Excel button the data gets saved in to the system. User should get logs for both success and failure scenario.

15. REFRESH: On clicking the refresh button the screen gets refreshed.

16. EXPORT TO EXCEL: On clicking the export to excel button the data on the screens gets exported to excel.

5. DEVICE OEM MAINTENANCE

5.1. OEM Maintenance

Search Section:

1. Device OEM Code: All the Device OEM Code that are available in the system will be listed in this multi select dropdown concatenated with Manufacturer Name. User can select the Device OEM Code and click on search button to retrieve the required results.

2. Manufacturer Name: User can enter the required Manufacturer Name in text box and click on search to retrieve the results.

3. Status: Active/Inactive will be loaded in the Status dropdown. User can select the required status and click on search button.

4. Search: User can click on the search button to display the search results.

Detail Section:

1. Device OEM Code: User can enter the Device OEM Code with maximum and minimum length of "3" numeric. This is a mandatory field. Device OEM Code cannot be repeated.

2. Manufacturer Name: User can enter a Manufacturer Name for the value that has been entered against the OEM with length of "100" characters. This is a mandatory field.

3. Comments: User can enter the comments about the Manufacturer in this field. The length is "200" Characters. This is not a mandatory field

4. Status: While creation of the Device OEM Code only Active status will be available and on saving the Device OEM Code will be saved in active status. While editing the OEM status can be modified to inactive also.

5. Select All: When the user clicks on this option the system should select all the records available in system and allow the user to customize to select the rows.

6. The system should keep the history of the changes in data base and created date and last updated field should show the system updated date (DD/MM /YYYY).

7. Download Template: User can get the sample template by clicking on download template.

8. Import Excel: On clicking the Import Excel button the data gets saved in to the system. User should get logs for both success and failure scenario.

9. REFRESH: On clicking the refresh button the screen gets refreshed.

10. EXPORT TO EXCEL: On clicking the export to excel button the data on the screens gets exported to excel.

5.2. **Device Type Maintenance**

Search Section:

1 Device Type Code: All the Device Type Code that are available in the system will be listed in this multi select dropdown. User can select the Device Type Code and click on search button to retrieve the required results.

2 Device Type Description: User can enter the required Device Type Description in text box and click on search to retrieve the results.

3 Device OEM Code: All the Device OEM Code that are available in the system will be listed in this dropdown. User can select the Device OEM Code and click on search button to retrieve the required results.

4 Manufacturer Name: User can enter the required Manufacturer Name in text box and click on search to retrieve the results.

5 Status: Active/Inactive will be loaded in the Status dropdown. User can select the required status and click on search button.

6 Search: User can click on the search button to display the search results.

Detail Section:

1 Device Type Code: User can enter the Device Type code with maximum and minimum length of "3" numeric. This is a mandatory field. Device Type code cannot be repeated.

2 Device Type Description: User can enter a Device Type Description for the value that has been entered against the Device Type code with length of "100" characters. This is a mandatory field.

3 Device OEM Code: All the Device OEM Code that are available in the system will be listed in this single select drop down. User can select the Device OEM Code against the Device Type Code

4   Status: While creation of the Device Type Code only Active status will be available and on saving the Device Type Code will be saved in active status. While editing the Device Type Code status can be modified to inactive also.

5   Upload Manual: The system should allow the user to upload the manual document. Supported formats would be Pdf, Chm. Word and excel documents would be converted to pdf by the user and then uploaded into the system. There is no file size restriction and number of files restriction as it is a POC.

6   Select All: When the user clicks on this option the system should select all the records available in system and allow the user to customize to select the rows.

7   The system should keep the history of the changes in data base and created date and last updated field should show the system updated date (DD/MM/YYYY)

8   Download Template: User can get the sample template by clicking on download template.

9   Import Excel: On clicking the Import Excel button the data gets saved in to the system. User should get logs for both success and failure scenario.

10 REFRESH: On clicking the refresh button the screen gets refreshed.

11 EXPORT TO EXCEL: On clicking the export to excel button the data on the screens gets exported to excel.

6. Maintenance Fault/Warning Maintenance:

Business Rules

Dependencies:

- The login user should have appropriate access to setup/edit or view the content.
- Primary users should have Admin access, Ref "Manage Users" and "Role Maintenance" doc.
- Secondary users should have Browse and View access, Ref "Manage Users" and "Role Maintenance" doc.
- Before configure the Warning and Fault details, the system should ensure <plant – Area - Line – Machine> is configured in the system.

Input Fault and Warning Details – Primary User

- System should ensure the mapping between plant, area, line and machine.
   - o It is mandatory to get input for plant, area, line and machine.
   - o An error should display if the plant, area, line or machine is not mapped.
- Plant Code
   - o User could select the plant code from the list.
   - o If the plant code is not available, user should be informed to maintain the plant code to proceed further.
- Machine Code
   - o User could select the Machine code from the list.
   - o If the Machine code is not found in the list, user should be informed to maintain the Machine code to proceed further.
- Fault and Warning codes need to be configured with unique identification.
   - o Fault/Warning codes
      - Should have 15 chars in length and split-up should be as below
         - 3 numeric – OEM
         - 3 numeric - Device Type Code
         - 3 numeric – Device Code
         - 6 alphanumeric – Fault/Warning Code. Example: <222 333 444 ABC123>
      - It should be the key identifier in diagnosis and reports.
   - o Fault/Warning descriptions
      - Short description about the fault code.

- It should allow 100 alphanumeric characters and special chars.
  - o Create date
    - System date should be captured during new fault/warning codes
    - No manual intervention required.
  - o Last update date
    - Capture the system date during successive updates
    - No manual intervention required.
    - The date would be update automatically updated whenever the fault code is modified using edit mode.
  - o Status
    - Manual intervention required, default would be "Active".
    - Should be in dropdown list.
- Fault/Warning Code Update:
  - o The Primary user is allowed to update the Fault/Warning description for the existing records.
  - o Last updated date would be updated against the particular record. No manual intervention required.
- The system should allow to SAVE the content in end of the successful configuration.
- Excel Upload functionality:
  - o Primary User is allowed to upload the Process Fault and Warning details in eSIP.
  - o Overwriting the existing fault using excel upload is required.
  - o eSIP should allow to overwrite the exiting faults, and new faults would be added using excel.
  - o If fault codes are not included in between (If 100 faults codes are already in eSIP and missed fault code 95 and 96 in excel upload) and it would be retained in eSIP. The missed faults codes which are already in DB would be retained in eSIP.

  View Fault and Warning Details – Secondary User
- System should ensure the mapping between plant, area, line and machine.
- It is not mandatory to get input for plant, area, line and machine.
- An error should display if the plant, area, line or machine is not mapped.
- Provision to view the process Fault and Warning details against the machine.
- Provision to download the fault and warning details in excel.

Fault ○ Warning

Plant Code	Area Code	Line Code	Machine Code
Please Select ▼	Please Select ▼	Please Select ▼	Please Select ▼

Fault Code	Fault Description	Status	
Please Select ▼		Please Select ▼	

Q Search   **↻ Refresh**

	Line No.	Fault Code	Fault Description	Plant Code	Machine Code	Status	Created Date	Last Updated Date
☐	1	012015	Siemens error	FKARE	1M15	Active	2018-06-01	2018-06-01
☐	2	F01001	Driver-2	FKARE	1055_1A	Active	2018-06-01	2018-06-01
☐	3	F01000	Driver fault	FKARE	1055_1A	Active	2018-06-01	2018-06-01

○ Fault   **Warning**

Plant Code	Area Code	Line Code	Machine Code
Please Select ▼	Please Select ▼	Please Select ▼	Values Selected ▼

Warning Code	Warning Description	Status	
10 ▼		Please Select ▼	

Q Search   **↻ Refresh**

	Line No.	Warning Type	Warning Code	Warning Description	Plant Code	Machine Code	Status	Created Date	Last Updated Date
☐	1	CW1	10	Chip Container Full Pre-Warning	FKARD	MB1n0100n5	Active	07/09/2018	07/09/2018
☐	2	SW	10	Tool Life Nearly Expired	FKARD	MB1n0100n1G	Active	07/09/2018	07/09/2018
☐	3	SW	10	Tool Life Nearly Expired	FKARD	MB1n0100n5	Active	07/09/2018	07/09/2018

Total No of Records : 3