

WIP Automation System- Phase 1

IMI Norgren Herion Pvt. Ltd

Software Requirement Specification (SRS)

The document details the summary of solution architecture and approach for the development of Segment Management System for IMI Norgren Herion Pvt. Ltd. The document is based on the inputs, system study, discussions and meeting held between BCI & IMI Norgren Herion Pvt. Ltd Teams.

REVISION HISTORY

REVISION NO.	DATE	PREPARED BY	REVIEWED BY	COMMENT
1.0	05-06-2023	Omkar Gaonkar	Prateeksha Brajesh S	SRS Document for WIP Automation System
1.1	07-06-2023	Omkar Gaonkar	Brajesh S	Changes in Line Master Screen, Production Issuance Screen and PVG Assembly FG Screen and Reports screen added.
1.2	13-06-2023	Omkar Gaonkar	Brajesh S	BOM file shifted to Masters, MRR file and BOM file Sample format added. .

Abbreviations:

Name	Abbreviation
BCI	Bar Code India
QTY	Quantity
FG	Finished Goods
QR Code	Quick Response Code
REF	Reference

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1 SPECIFICATION ORGANIZATION

The objective of this document is to supply underlying concepts, procedures, and formats used in the design, development and installation of this software application. This specification consists of three sections organized as follows.

Section 1: Introduction

This section provides hardware requirements and documentation conventions.

Section 2: User Interface

This section depicts screen design and logic flow, and is categorized into two groups:

- Application Master Module
- Common Routine

Section 3: System Architecture

This section provides information of system architecture.

2 INTRODUCTION

2.1 INTENDED AUDIENCE AND READING SUGGESTIONS

The scope of the software would require the development of the front end application, client device application and to transfer data from application to server. The document lays down the specifications of the middleware application, its architecture and infrastructure requirements.

The entire solution consists of followings:

1. Desktop Application
2. Windows Tablet Application
3. Communication Server/API

2.2 PROJECT SCOPE

The objective of the project is to develop a web-based WIP Automation System application for Norgren. Its purpose is to streamline the monitoring of components utilized in the assembly line during the production of the final FG. Our application will transfer / download data to/ from JDA via excel files.

The application solution will generate barcode labels for the components their identification and tracking at the Assembly Line. These components will be scanned and verified. They will then undergo testing in a Part Testing machine, which will assign a unique Serial Number to each component. The application will link the Serial Numbers from the Part Testing output to the assembled components and generate barcode labels for the final FG.

The application will keep record of the components at every stage and update transaction data. MRR data will only be imported through excel files in the application.

The entire solution consists of followings:

- Desktop Application
- Communication Server Application (.NET 6.0)
- Windows Tablet Application

3 SOFTWARE/HARDWARE REQUIREMENTS

Below are the hardware and the software requirements of the application:

3.1 SERVER CONFIGURATION

Central Server Configuration/Database Servers

The solution would require the high performance server with minimum of following:

- Express Intel Xeon E3 (Quad Core) 3.2 GHz 8 MB 1600 MHz 64GB 2x1 TB SATA 7200 RPM 3.5" Simple-Swap
MULTI BURNER RAID 0, 1, 5 in built (SR C100)Windows 2012 & above server
- Windows 2012 & above server
- MS SQL 2019 STD or Above (Core Based License).
- VPN Connectivity to Central server and Plant Server as well.
- Optional backup
- Dot net Framework 6.0
- IIS V10.0 (Internet Information Service)

3.2 COMPUTERS

Desktop would require following specifications:-

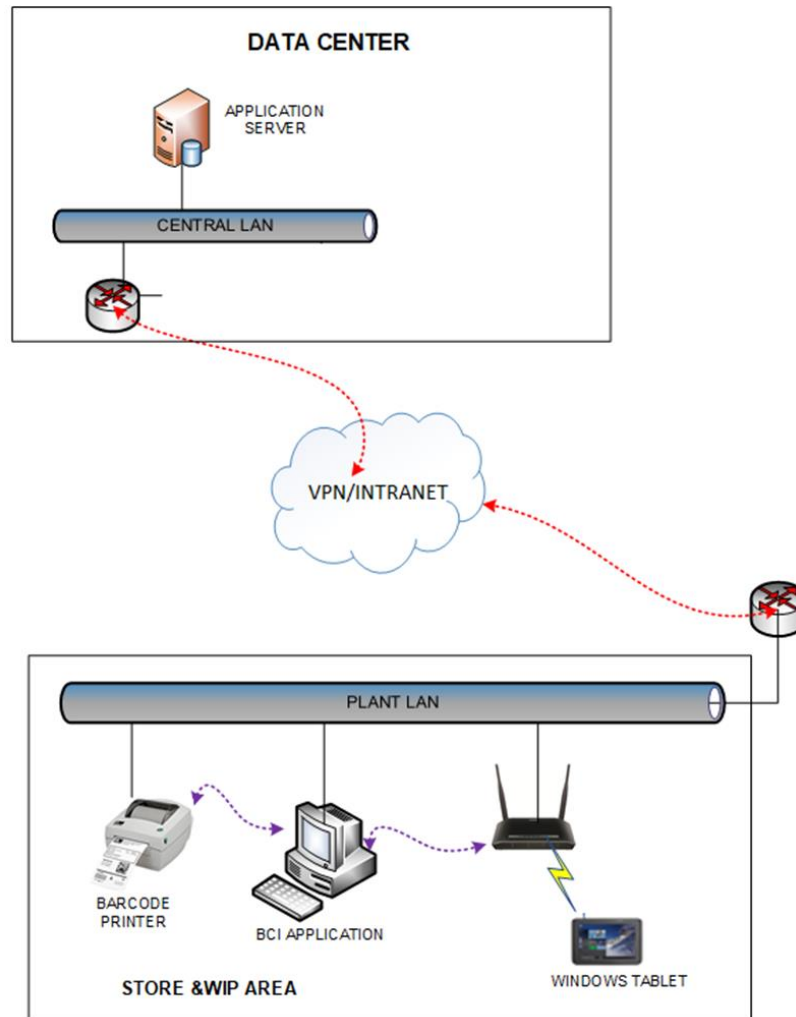
- I5/i7 Processor with Windows 10 Operating System
- 16 GB RAM
- 100GB HDD
- Dot net Framework 6.0

3.3 HARDWARE REQUIREMENTS

Hardware required for the application:

- Windows Tablet (Zebra tablet ET51AT-W12E-00IA)- 2 units
- Barcode Printer (ZT 230) already with Customer

4 SOLUTION ARCHITECTURE



SOLUTION ARCHITECTURE		
IMI NORGRN	JUN,2023	VER 1.0

- VPN/ INTERNET CONNECTION
- LOCAL LAN COMMUNICATION
- USB/SERIAL/PARALLEL

5 USER INTERFACE SPECIFICATION CONVENTIONS

This section specifies the user interface portion of the application.

Section Organization

The User Interface Specification presents screen displays or “**Dialogs**”.

Documentation Conventions

This section incorporates illustrations of the application user interface. Each screen display “Dialog” consists of the screen display image, a process name, a paragraph documenting the processing required for the dialog, a paragraph listing the navigation options, and a table listing for each variable field on the dialog, its database source or destination, format, and any instructions required to process the field.

The following section contains a sample dialog with each area identified.

6 SYSTEM LOG

System shall maintain internal logs for application.

6.1 ERROR LOGS

These logs will contain any errors encountered during runtime for faster resolution of any problem post deployment.

6.2 AUDIT LOGS

These logs will monitor the activities of user who accessed the application, made changes to File/ Document and the time stamp of these activities.

7 ARCHITECTURAL DESIGN

Overall System consists of:

- Desktop Application
- Device application
- Communication Server

7.1 DESKTOP APPLICATION

This application will include will be developed for performing transactions like User Master, Line Master, BOM File Master, Upload Rights Permission/Order, Day start, Component Label Printing, , MRR file Upload, Reprint.

7.2 DEVICE APPLICATION

Windows tablet Application including PVG Assembly Y-FG Barcode module.

7.3 COMMUNICATION SERVER/API

To GET and Post details into BCI Server.

8 APPLICATION MODULES

8.1 APPLICATION LOGIN- DESKTOP/DEVICE APPLICATION

This login module will provide access to the application modules. Here the admin/user needs to enter the login detail to enter in the application and to perform the desired actions.

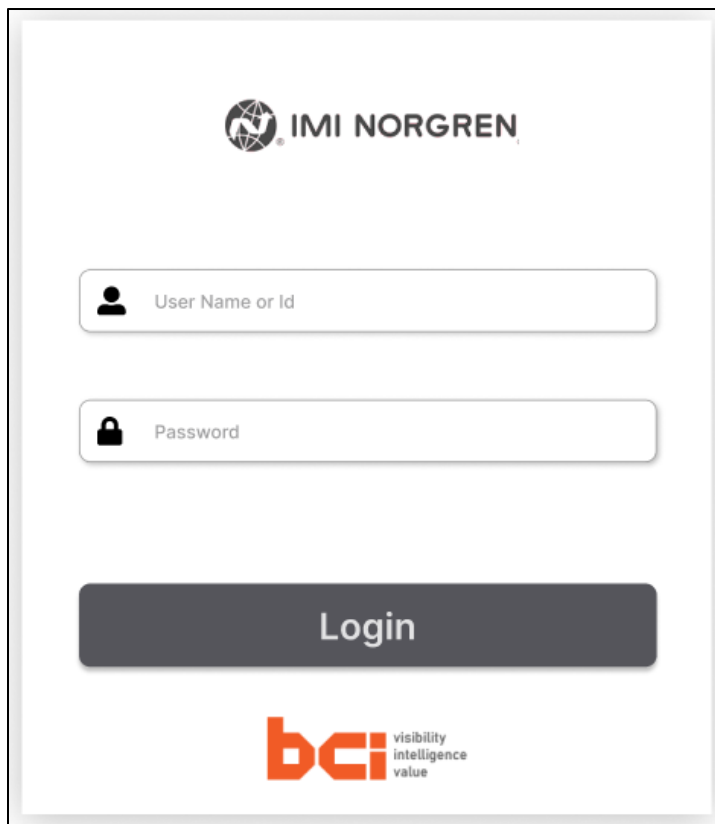
Process: User needs to enter the User Name/ID and Password in display fields and press the Login button. Application will validate the user credential.

User will be able to view only those screens/ modules of which he has been given access rights to.

Validation

- User Name/ ID will be unique for all users.
- User Name/ ID and Password length will be set.

After successful login application menu screen will appear; this screen will have the Master and Transaction options etc.



8.2 USER MANAGEMENT

The module will let application administrator to manage the Users, and the rights assigned to the same; the rights will define authorized application access of users.

The User Management & Master data will be created using **Desktop Application**.

8.2.1 USER MASTER

This module will let user to create application users who will access the application. The master will store the users' details in system.

Data Fields	<ol style="list-style-type: none"> 1. ID 2. Name 3. Password 4. Type 5. Contact No
Process Steps	<ol style="list-style-type: none"> 1. Enter required details i.e. User ID, User Name, Password in system 2. Select the type of the user from the list 3. Select the Location, Department from the list 4. Enter the Contact Number of user 5. Click on Save button to save details in database 6. Newly added user will appear in data grid
Functions	<ol style="list-style-type: none"> 1. Add, Edit/Update, Delete as per requirement 2. User ID and Password is used to access the application.
Role	Admin will create/ add user details via window application

**Sample
Screen**

User Master

User Id

User Name

Password

Type

Contact

Add

Save

Update

Clear

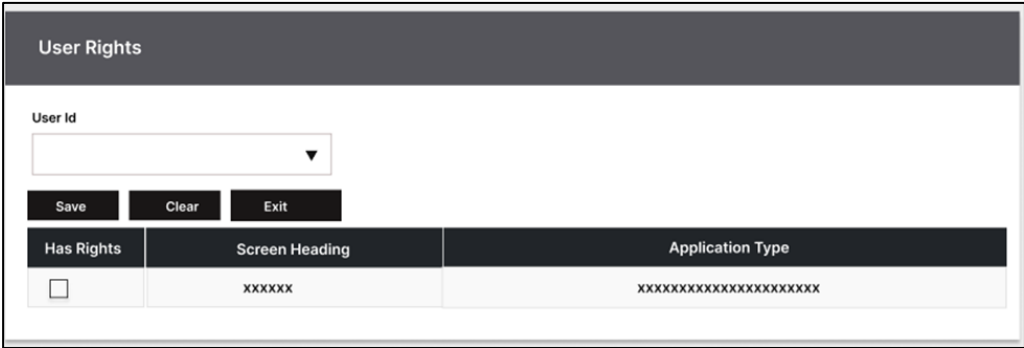
Exit

Import

Sr. No.	User Id	User Name	User Type	Contact
1	xxxxxx	xxxx	xxxx	xxxxxxxxxx

8.2.2 USER RIGHTS/ PERMISSION

This module will let admin to assign module / screen access rights to the application users. Once assigned, authorized users can access the application. Once permissions are assigned, user will be able to view only those screens/ modules of which he has been given access rights to by Admin.

Data Fields	<ol style="list-style-type: none"> 1. User ID/ Name 2. Module /Screen Names
Process Steps	<ol style="list-style-type: none"> 1. Admin will select User Name/ID. 2. Screen/ module names will appear in data grid along with checkbox. 3. Admin will check the checkbox against module/ screen to which selected User should be assigned access permissions. 4. Save and Update the details in database
Functions	Add, Edit/Update as per requirement
Role	Admin / Authorized User will assign access rights to the selected User
Sample Screen	

8.3 MASTERS

8.3.1 LINE MASTER

The Line Master contains the details of the assembly line working in the plant.

Data Fields	<div><div>1. Line Code</div><div>2. Line Name</div><div>3. Description</div><div>4. Active/ Inactive</div></div>										
Process Steps	<div><div>1. User will open Line Master screen</div><div>2. Select the Plant Code.</div><div>3. Enter required details i.e., Line Code, Name, Description etc.</div><div>4. Check the Active checkbox to make the line active</div><div>5. Click on save to store details in database</div><div>6. Newly added record will appear in data grid.</div><div>7. Details will get displayed in data grid on screen that is fetched from SAP.</div></div>										
Functions	<div>Add, Edit/Update, Delete as per requirement.</div>										
Sample Screens	<div><div><div>Line Master</div><div><div><div>Line Code</div><div></div></div><div><div>Line Name</div><div></div></div></div><div><div><div>Description</div><div></div></div><div><div><div><input type="checkbox"/> Active</div></div></div></div><div><div><div>Add</div><div>Save</div><div>Update</div><div>Delete</div><div>Clear</div><div>Exit</div></div></div><div><table><tr><th>Sr. No.</th><th>Line Code</th><th>Line Name</th><th>Description</th><th>Status</th></tr><tr><td>1</td><td>XXXXXX</td><td>XXXX</td><td>XXXXXXXXXXXXXXXXXXXX</td><td>XXXX</td></tr></table></div></div></div>	Sr. No.	Line Code	Line Name	Description	Status	1	XXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX
Sr. No.	Line Code	Line Name	Description	Status							
1	XXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX							

8.3.2 BOM FILE UPLOAD MASTER

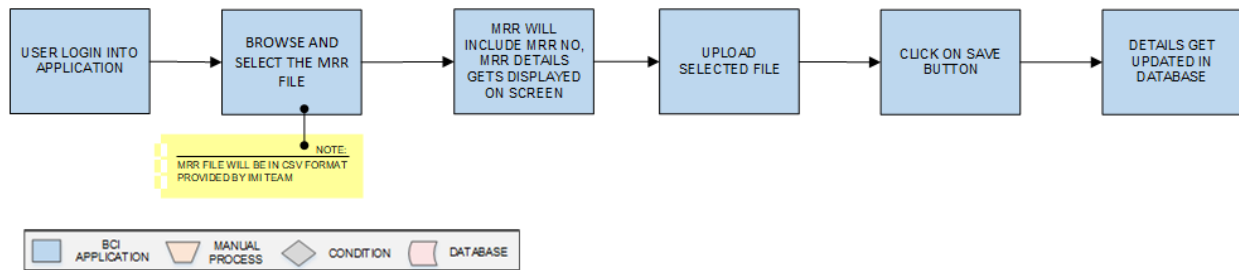
The BOM Master consist the BOM details of the FG Item.

Activities

Data fields	1. BOM file																										
Process Steps	<div>1. User login into the application.</div> <div>2. Browse and select the BOM file.</div> <div>*BOM file will be in CSV format and to be provided by IMI team.</div> <div>3. The BOM will include BOM number FG Item code and FG Component details</div> <div>4. Upload selected file</div> <div>5. Click on Save button</div> <div>6. Details get updated in the database.</div>																										
Functions	1. Add as per requirement.																										
Sample Screen	<div>Note: - The provided screens are samples; the actual screen may vary slightly.</div> <div><div><div>BOM File Upload</div><div><div>BOM File</div><div><div></div><div>Browse</div><div>Upload</div></div><div><table><tr><td>XXXXX</td><td>XXXX</td><td>XXXXX</td></tr><tr><td>XXXXXX</td><td>XXXXXX</td><td>XXXXXXXXXXXXXXXXXXXXX</td></tr></table></div><div><div>Save</div><div>Clear</div></div></div></div><div>Sample File Upload data Format</div><table><tr><th>FG Part Code</th><th>Child Part Code</th><th>Child Part Qty</th><th>UOM</th></tr><tr><td>2401103080002400</td><td>2401103000000000</td><td>1</td><td>EA</td></tr><tr><td>2401103080002400</td><td>0000000080002400</td><td>1</td><td>EA</td></tr><tr><td>2401103080002400</td><td>0570275000000000</td><td>1</td><td>EA</td></tr><tr><td>2401103080004800</td><td>2401103000000000</td><td>1</td><td>EA</td></tr></table></div>	XXXXX	XXXX	XXXXX	XXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXXX	FG Part Code	Child Part Code	Child Part Qty	UOM	2401103080002400	2401103000000000	1	EA	2401103080002400	0000000080002400	1	EA	2401103080002400	0570275000000000	1	EA	2401103080004800	2401103000000000	1	EA
XXXXX	XXXX	XXXXX																									
XXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXXX																									
FG Part Code	Child Part Code	Child Part Qty	UOM																								
2401103080002400	2401103000000000	1	EA																								
2401103080002400	0000000080002400	1	EA																								
2401103080002400	0570275000000000	1	EA																								
2401103080004800	2401103000000000	1	EA																								

8.4 TRANSACTIONS

8.4.1 MRR FILE UPLOAD



Activities

Module	The module will be used to upload the MRR details into the system Server.
Description	<i>*This activity will be done using Desktop Application.</i>
Pre-Conditions	<ol style="list-style-type: none"> 1. MRR details to be downloaded into system. 2. MRR to contain all details in the excel sheet.
Process Steps	<ol style="list-style-type: none"> 1. User login into the application. 2. Browse and select the MRR file. <i>*MRR file will be in CSV format and to be provided by IMI team.</i> 3. The MRR will include MRR number and MRR details. 4. Upload selected file 5. Click on Save button 6. Details get updated in the database.
Post-Conditions	<ol style="list-style-type: none"> 1. MRR file successfully message appears after completion.
Validations	<ol style="list-style-type: none"> 1. An alert should be displayed in case invalid details is entered. 2. An alert message is displayed in case of any error / invalid activity.

Sample Screen

Note: - The provided screens are samples; the actual screen may vary slightly.

MRR File Upload

MRR File

Browse

Upload

XXXXX

XXXXX

XXXXX

XXXXXX

XXXXXX

XXXXXXXXXXXXXXXXXXXXXX

Save

Clear

Sample File Upload data Format

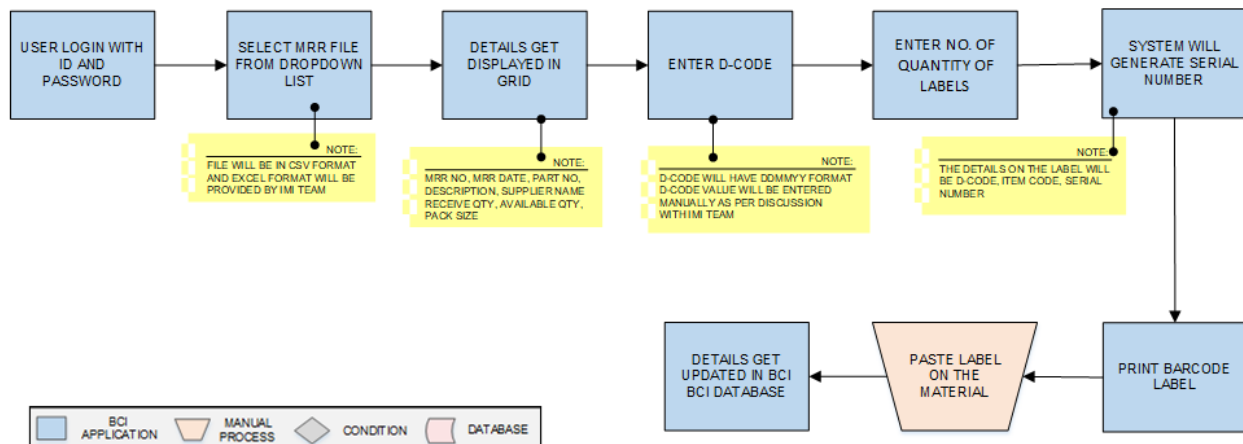
These MRR file will be downloaded with all the fields:-

MRR_File_Format - Excel																													
Document Number	Receipt Date	Supplier Number	Order Numbers	2nd Item Number	Quantity Received	Supplier Remark																							
31379307	18/05/23	4485913	70974120	120200600	50	10313704																							
31379310	26/04/23	4485921	70974144	K53A9ME	10	Invoice 1234																							
31379311	26/04/23	4485921	70974145	K53A9ME	10	Invoice 1234																							

Note: - The application is going to consider the yellow colored columns, these field will be picked and upload in the system.

Document Number	Receipt Date	Supplier Number	Order Numbers	2nd Item Number	Quantity Received	Supplier Remark
31379307	18/05/23	4485913	70974120	120200600	50	10313704
31379310	26/04/23	4485921	70974144	K53A9ME	10	Invoice 1234
31379311	26/04/23	4485921	70974145	K53A9ME	10	Invoice 1234

8.4.2 PART RECEIVING



Activities

Module Description	<p>During this process, barcode labels will be printed for each component using the MRR File. These labels will give each component a unique identification. The MRR File will be created in the JDA ERP system and shared by IMI Norgren as an Excel file.</p> <p><i>*This activity will be done using Desktop Application.</i></p>
---------------------------	---

Pre-Conditions	<ol style="list-style-type: none"> 1. Authorized access to the application. 2. MRR excel sheet data to be available in the system.
-----------------------	--

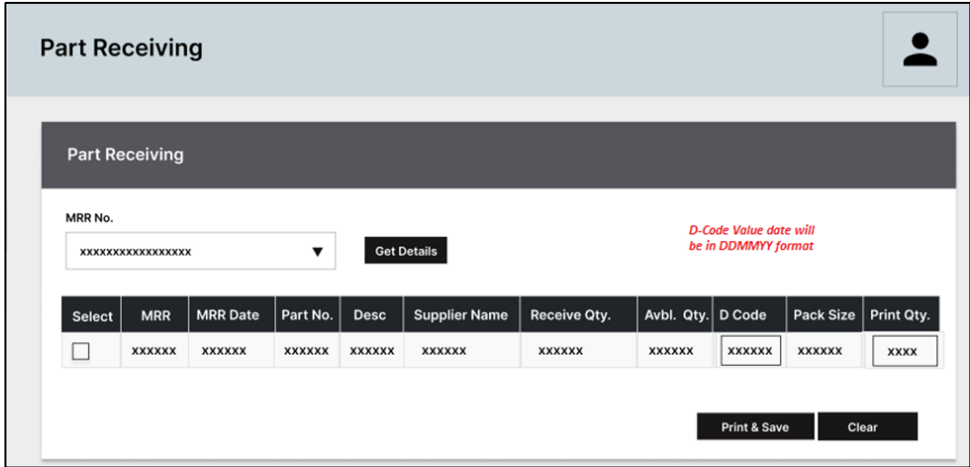
Process Steps	<ol style="list-style-type: none"> 1. User login with Login Id and Password. 2. Select the MRR file from the dropdown list. <i>*File will be in Csv Format and excel format will be Provided by IMI team</i> 3. The details of MRR no, MRR date, part no, Description, supplier name, Receive quantity, available quantity and Pack size will appear in table grid 4. Enter D-Code. <i>*D-Code value date will be accepted with the DDMMYY format.</i> <i>**D-Code will be entered manually as per discussion with IMI team.</i> 5. Enter No of Quantity of labels to be printed. 6. System will generate the Serial number details. <i>*The details on label will be D-code, Item code and Serial number.</i> 7. Click on Save and Print Barcode Label. 8. Paste the label on the material. 9. Details gets saved into database
----------------------	---

Post-Conditions	<ol style="list-style-type: none"> 1. All the component to be labelled. 2. The label component to be having serial number details.
------------------------	--


Validations	<ol style="list-style-type: none"> 1. An alert should be displayed in case invalid label number is entered. 2. An alert message is displayed in case of any error / invalid activity.
--------------------	---

Sample Screen

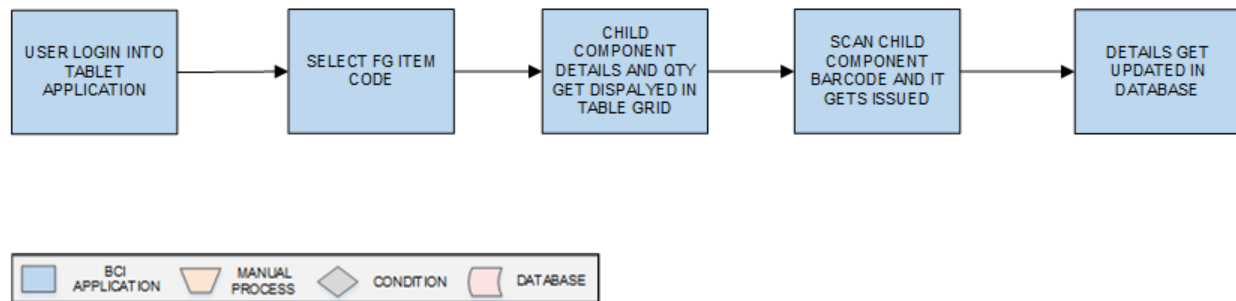
Note: - The provided label are samples; the actual label may vary slightly.



Barcode Label Contains:-



8.4.3 PRODUCTION ISSUANCE



Activities

Module Description	<p>The module will be used to upload the production Issuance of the child components as per selected FG item code.</p> <p><i>*This activity will be done using Desktop Application.</i></p>
Pre-Conditions	<ol style="list-style-type: none"> 1. FG item details to be available in database.
Process Steps	<ol style="list-style-type: none"> 1. User login into the application. 2. Select the FG Item Code. 3. The Child Component details and Quantity will get displayed in table grid. 4. Scan the Child component barcode. 5. The component gets issued into the system. 6. Details get updated in the database.
Post-Conditions	<ol style="list-style-type: none"> 1. FG details should get updated in database.
Validations	<ol style="list-style-type: none"> 1. An alert should be displayed in case invalid details is entered. 2. An alert message is displayed in case of any error / invalid activity.

Sample Screen

Note: - The provided screens are samples; the actual screen may vary slightly.

Production Issuance Module

FG Item Code

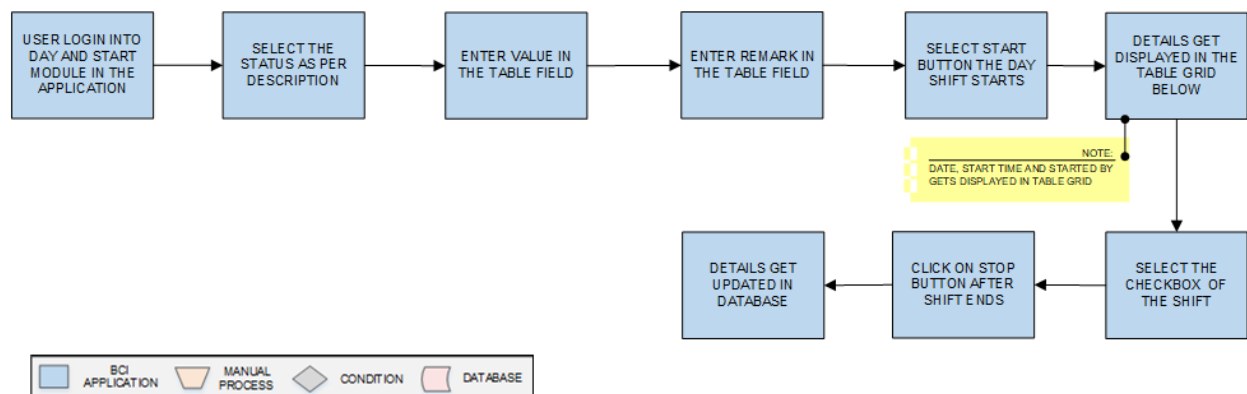
xxxxxx

▼

Child Component	Quantity
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxx

Scan Child Component Barcode

8.4.4 DAY START



Activities

Module Description	<p>The module will be used to save the production details in database. Start and Stop time will be captured.</p> <p><i>*This activity will be done using Desktop Application.</i></p>
Pre-Conditions	<ol style="list-style-type: none"> Shift to be started after checking all system working. All system to be checked by the user before production.
Process Steps	<ol style="list-style-type: none"> User login into the application. Select the Start Day module. Check the system pre-conditions and select the status accordingly. Enter the Value and Remark in the text fields. Select the start button to start the shift. The details of Start time, Start date and started by details get displayed in the table grid. Select the checkbox of the shift from table grid. Click on Stop button at the end of the shift. Details get updated in the database. Posted into BCI Server.
Post-Conditions	<ol style="list-style-type: none"> Shift Start and Stop details to be provided by IMI. Timing details to get updated if any changes in shifts.

Validations	<ol style="list-style-type: none"> 1. An alert should be displayed in case invalid details is entered. 2. An alert message is displayed in case of any error / invalid activity.
--------------------	--

Sample Screen

Note: - The provided screens are samples; the actual screen may vary slightly.

Date Start

Day Start

Day Stop

Start

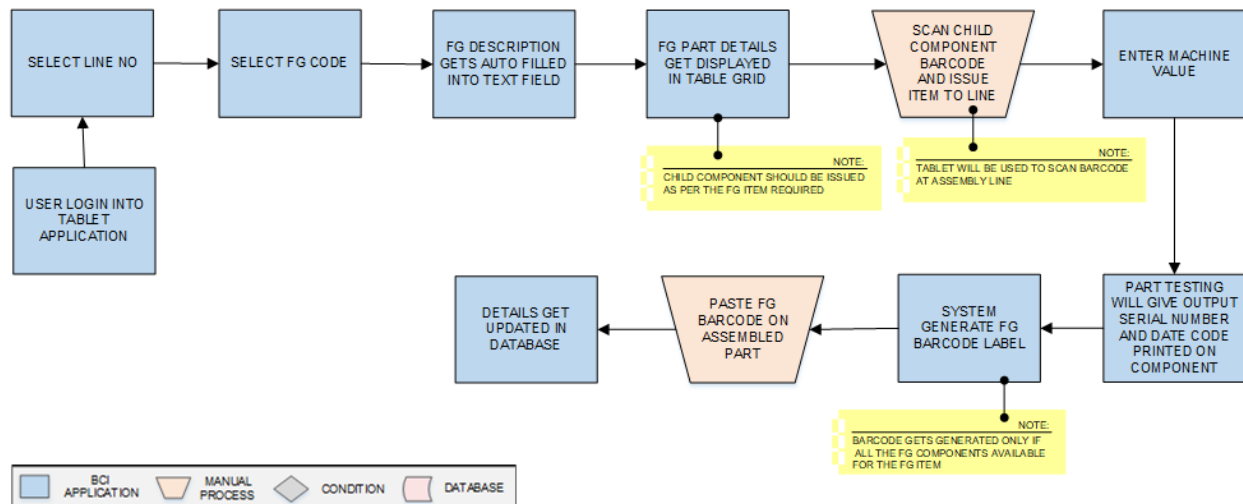
Stop

Description	Status	Value	Remarks
xxxxx	<div>xxxxxx</div>	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx

Date	Start Time	Started By	Stop Time
xxxxx	xxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx

Clear

8.4.5 PVG ASSEMBLY Y-FG BARCODE



Activities

Module Description	<p>In this module, the components issued at the assembly are scanned. After that, they are processed through the Part Testing Machine. The machine will give unique Serial Number to each component as an output which will be mapped with the previously scanned Serial Number. Once the mapping is complete, the application generates the barcode for the final product (FG).</p> <p><i>*This activity will be done using Windows Tablet Device Application</i></p>
---------------------------	---

Pre-Conditions	<ol style="list-style-type: none"> 1. FG details should be uploaded in BCI application.
-----------------------	--

Process Steps	<ol style="list-style-type: none"> 1. Select Line No. 2. Select FG Code Number. 3. The FG description gets auto filled in the text field. 4. FG Part details get displayed in the table field. <i>*FG component should be issued as per FG item requirement.</i> 5. Scan Child Component barcode and issue item to line. <i>*Windows Tablet will be used to scan item at assembly line.</i> 6. Enter Machine Value into the text field. 7. Part Testing will give output serial number and Date Code printed on component. 8. System generates the FG Barcode label. <i>*The barcode gets generated if all the child component is available for the FG item.</i> 9. Click on Print and paste barcode label on assembled part.
----------------------	---

	10. Details get updated in the database.
--	--

Post-Conditions	1. Barcode labelled items to be scanned properly.
------------------------	---

Validations	1. An alert should be displayed in case invalid details is entered. 2. An alert message is displayed in case of any error / invalid activity.
--------------------	--

Sample Screen

Note: - The provided screens are samples; the actual screen may vary slightly.

PV Assembly Component Issued To Line

Line Code

--select --

FG Code

--select--

FG Description

Sr. No.	Barcode label	FG Item No.	Serial Number	XXXXX	XXXXX
1	XXXXXX	XXXX	XXXX	XXXX	XXXX

Scan Child Component Barcode

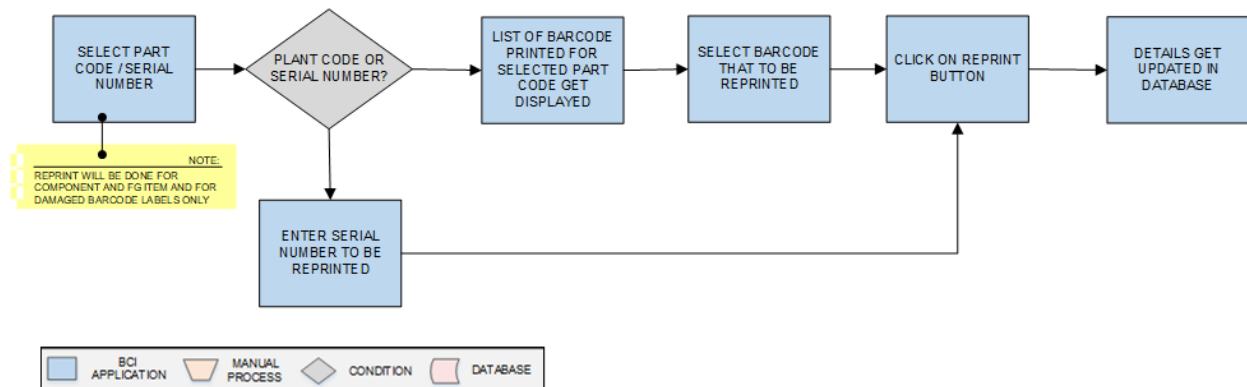
Machine Value

Print

Clear

Barcode label consist of	FG Item No	Serial Number
-----------------------------	------------	---------------

8.4.6 RE-PRINTING



Activities

Module Description	Barcode labels can be reprinted for components or finished goods (FG) items in case they are damaged or defaced. <i>*This activity will be done using Desktop Application.</i>
---------------------------	--

Pre-Conditions	<ol style="list-style-type: none"> 1. Authorized User to be given permission. 2. Barcode label to be damaged of the items.
-----------------------	--

Process Steps	<ol style="list-style-type: none"> 1. Enter/Select Part Code or Serial Number. 2. If Part Code is selected: <ol style="list-style-type: none"> i. Display all printed barcodes for the selected part code. ii. Select the desired barcode for reprinting. iii. Reprint the barcode. iv. Apply the reprint on the component. 3. If Serial Number is selected: <ol style="list-style-type: none"> i. Enter the Serial Number. ii. Reprint the barcode for the specified serial number. iii. Apply the reprint on the component 4. Details get updated in the database. 5. Posted into the BCI Server.
----------------------	---

Post-Conditions	<ol style="list-style-type: none"> 1. Repacked item to be updated into the system. 2. Repacked label to be saved into the database Server.
------------------------	--

Validations	<ol style="list-style-type: none"> 1. An alert should be displayed in case invalid details is entered. 2. An alert message is displayed in case of any error / invalid activity.
--------------------	--

Sample Screen	<p><i>Note: - The provided screens are samples; the actual screen may vary slightly.</i></p> <div data-bbox="440 380 1419 758"> </div>
----------------------	--

9 REPORTS

Reporting module will provide access to the data that will be helpful in making well-informed strategic decisions, reduces risk, and increases productivity. The reporting interface will be user-friendly, application users can easily generate, and view required data.

The application will generate customized reports based on required data fields and time interval selected / entered by users.

Note: - BCI will provide a maximum of 5 reports. Currently, 4 reports have been included in the document, and one additional report can be added once the application is developed.

9.1 SERIAL NUMBER REPORT

Serial No. Report

☒ Serial No.
 ☐ Part

Serial No.

xxxxxxx

Part

Search

Clear

FG Part No.	FG Desc.	Dispatched	Invoice No.	Customer Name	BOM No.	Part No.	Desc.	Barcode	MRR No.	D Code
xxxx	xxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	xxxxxxxxx	xxxx	xxxx	xxxxxxxxx	xxxxxxxxx

9.2 CONFORMITY REPORT

Conformity Report

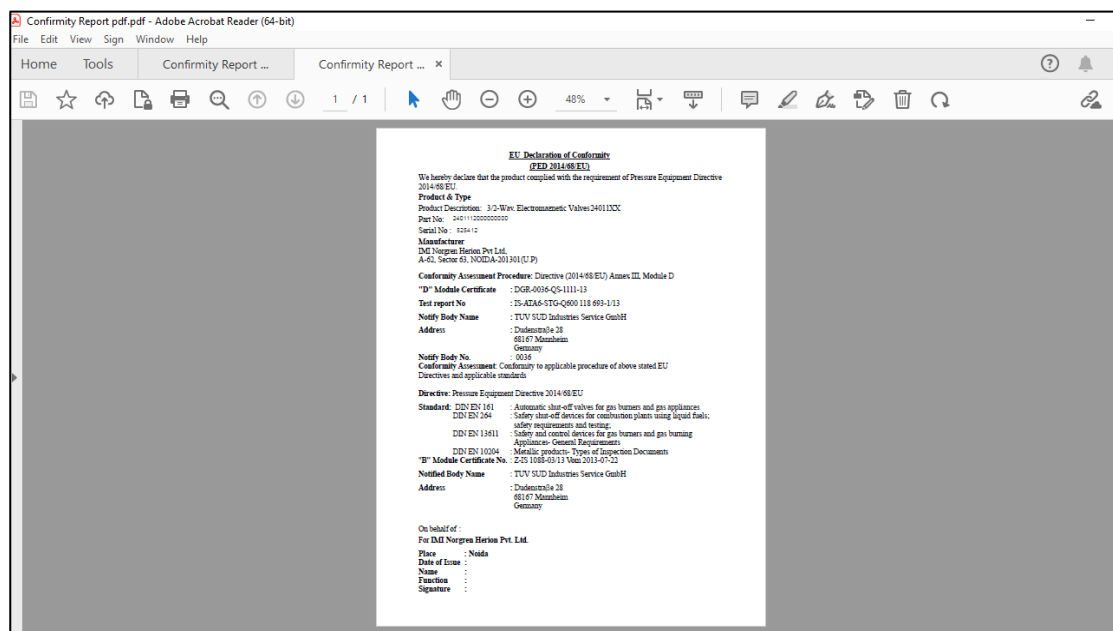
Serial No.

XXXXXX

Print

Clear

A Report PDF file will get downloaded.



9.3 CONFORMITY REPORT WITH COIL

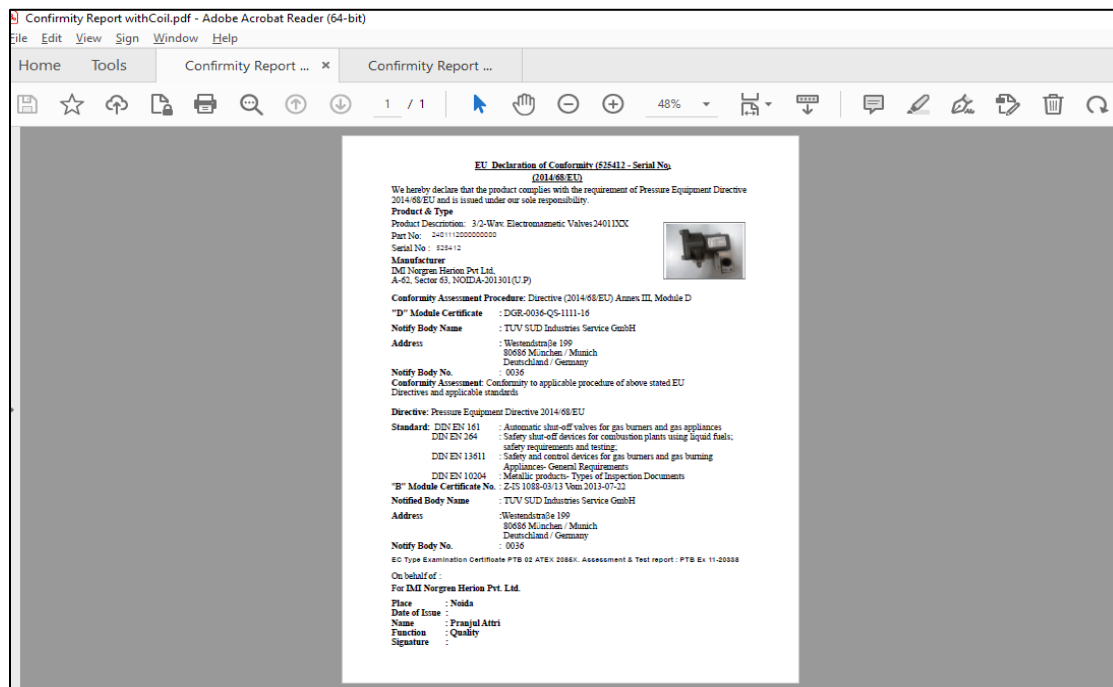
Conformity Report with Coil

Serial No.

XXXXXXXX

Print
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A Report PDF file will get downloaded.



9.4 CONFORMITY REPORT WITHOUT COIL

Conformity Report without Coil

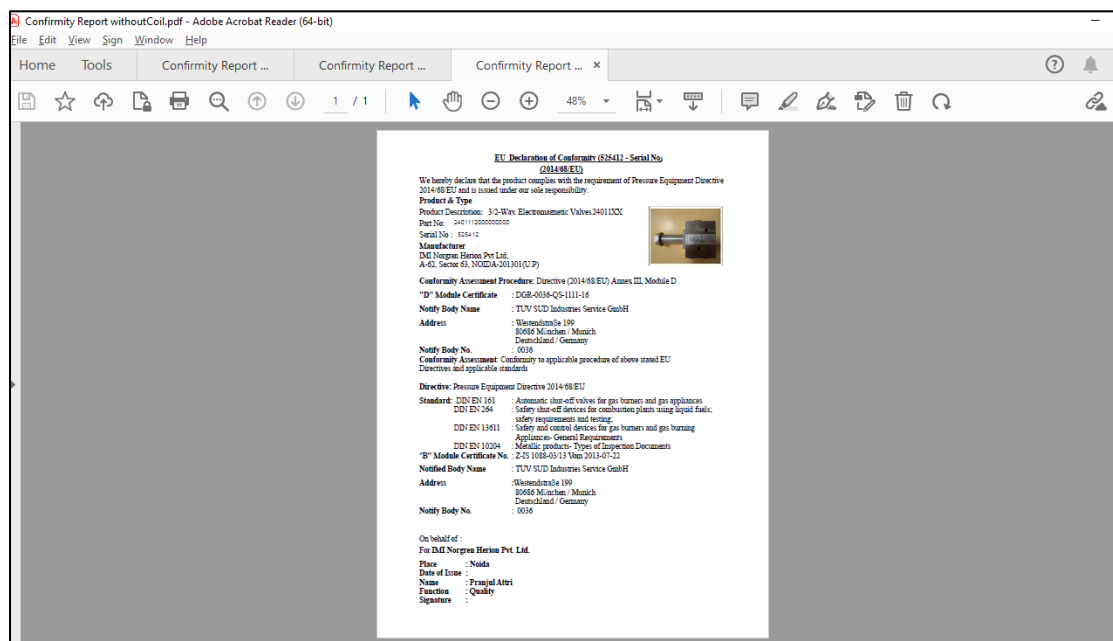
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10 SRS SCOPE CHANGE PROCESS

10.1 BEFORE SIGN OFF

Any changes in SRS need to be informed in writing by IMI Norgren Herion Pvt. Ltd. It will be incorporated / confirmed only after doing detailed feasibility study by BCI.

- If any change is out of scope then this would be done as a CR post feasibility and priority will be decided based on mutual agreement.
- Once the change is developed , any further change in the same would be considered as a CR

10.2 AFTER SIGN OFF

Any changes in proposed solution after approval of this document by IMI Norgren Herion Pvt. Ltd are subjected to confirmation from BCI, taking feasibility constraints into account. These changes will be incorporated (if any) into the solution only after delivering proposed solution & may be charged as extra.

- Any change in the proposed solution due to customer system design or process will be considered as CR
- Any process which is not mentioned in this document will not be considered as “mutual understanding or default presence or standard practice”.

The changes in proposed solution before & after acceptance will be mutually agreed and duly signed and accepted by IMI Norgren Herion Pvt. Ltd & BCI.

10.3 SRS ACCEPTANCE

Agreed and Accepted by IMI Norgren Herion Pvt. Ltd and Bar Code India

For IMI Norgren Herion Pvt. Ltd.

For Bar Code India (BCI)

Name:

Name:

Designation:

Designation:

Department:

Department: