



DBB Enhancement Functional Design Document



Revision History

Revision	Date Created	Created / Updated By	Update Reason	Reviewed By	Review Date
V1.0	09 May 2025	Capgemini	Initial Version		

Release History

Project code		Release date	Created / Updated By	User Stories	Reviewed By
Project DSB		09-May-2025	Capgemini	DBB-2614,DBB-2732,DBB-614,DBB-1120,DBB-2636,DBB-611	
Project DSB	09-May-2025	Capgemini	DBB-2614,DBB-2732,DBB-2976,DBB-614,DBB-1120,DBB-2636,DBB-2349,DBB-611		

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1. Introduction

Digital Board Book is a Mobile (supported on Smartphone/Tablet as well) and Web Application that allows an Operator to report issues / anomalies experienced whilst in Commercial use and allows a Maintainer to handover a train post Maintenance into Commercial service and obtain a signature of acceptance from the Driver / Train Manager.

The DBB solution is interfaced with the Alstom ERP System (SAP GSI - Global Single Instance) to transmit DBB failures to maintenance operators in real time and receive the maintainer's feedback.

1.1 Purpose

This document explains the high-level functional design description related to all customers standard Alstom solution to digitalize the driver logbook. This solution is called DBB (Digital Board Book). We need to enhance Alstom DBB for all projects in Back office using service cloud, community cloud features and Mobile Application for iOS and Android platform with existing functionality and provides traceability on the process steps and user stories. Included in this document will be process flows, roles, detailed functional requirements, acceptance criteria, and sample screenshots (as applicable). In addition, it will also serve as a reference guide for all DBB stakeholders, who will be responsible for future maintenance.

1.2 Audience

This table lists the users of this document, together with the reason for their use.

User	Use
Business Functional Stakeholders	To provide a detailed understanding of the solution
Functional and Technical SMEs	
Developers and Supporting resources	

1.3 Abbreviations & References

Abbreviations

For the purposes of this document, the following abbreviations are considered:

- TD Train Driver
- TM Train Manager
- SH Shunter
- AT Alstom Transport
- Cab Cabin
- ERP Enterprise Resource Planning
- GPS Global Positioning System
- HW Hardware
- SW Software



- LdB Paper Board Book
- DBB Alstom Digital Board Book
- RS Requirement Specification
- SO Service Order
- TBC To Be Confirmed
- TBD To Be Defined
- US User Stories
- AC Acceptance Criteria
- FCRM Fleet Control Room Maintainer
- FCRO Fleet Control Room Operator
- ECM3 Fleet Control Room Maintainer
- ECM4 Person On Charge
- BAWU Baden-Wurttemberg
- POC Person On Charge

References

The following documents present a reference to the technical specifications document:

Alstom DBB BAWU Phase III Technical Specification Document

Figma Reference:

<https://www.figma.com/design/W5QxRGxDL5OpPjQfCPcW/Alstom-Project?node-id=1333-57990&t=lNaaF8vKEWhWWi7-0>

(You can preview all the Figma screen by switching between US available in left sidebar)

2 DBB-2614: Level of the LBS to create an issue

2.1 Business Process Description

Provide a provision for all users to create an issue with any DBB LBS Level bigger than specific number

2.2 Detailed Process Requirements

- To maintain the LBS level parameter for all project in DBB Project Level.
- To predefine DBB project LBS level for Dosto as level 2 and DSB as level -3.
- To provide the validation if user selects improper asset which is not defined to his LBS level

2.3 Process Owners

- DBB - Maintainer



- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB – Integration
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on charge

2.4 Solution Approach

AC00[Mobile+SF]: Allow to the user only create an issue only for LBS with a DBB LBS Level bigger than specific number/parameter

SF Solution:

- When any user attempts to create a Request for LBS, the system will identify the assigned project based on the logged-in user
- Under the DBB projects object, a new field called "LBS Level" will be created to store the LBS value for all projects. Only admin maintainer users should have access to update the LBS level for any project
- All users can create a DBB issue at any LBS level, if the parameter on DBB LBS level is "0" or "empty".
- To create new Request, upon selection of DBB Request record type the "Functional location, car Impacted and Asset" selection window will be displayed
- The logic will first verify the DBB project and associated LBS level number in it and then allow users to create a Request. First user needs to enter the value in "Functional location", only then Car Impacted and Asset field will be enabled to make further selection into it. Although car Impacted field is optional-hence, User can opt to select value in Car Impacted or directly jump for Asset selection without any value being selected in "Car Impacted" field. However, user needs to select value in the Asset field mandatorily. Here the validation will run and check if users DBB project has any LBS level defined and whether it is equal or smaller than entered LBS level parameter ,if Yes then User will be restricted to enter any data on Asset field with an error validation message pop up on asset field saying "Please select the LBS level greater than n(1.2.3)". Because only assets greater than defined LBS level in DBB project will be allowed to select in Asset field.
- User after selection of valid Functional location, Car Impacted(Optional) and Asset will click on "Next" button to go to Request creation page where the already selected values



will be displayed. Although with another button “Close”, user can go back to Request record type selection page.

- The logic will be built to compare the LBS level field from the DBB project to the asset (LBS level) field of the request. This logic is to run during the selection of LBS levels and not on any action on “Next” button.
- Also, Once valid Functional location is selected or entered value manually ,the associated Car Impacted and Asset should be displayed in a tree format (Hierarchical format).
-
- Upon selection of all three valid values, user will be allowed to go to Request Creation page layout with the “Next Button” where selected Functional location, car impacted, and Asset value will be displayed automatically .

Mobile Solution:

- If the LBS level selected on the mobile device is higher than the LBS level in the asset object , the 'Create Event' button will be enabled else disabled state.
"will be displayed if user selects lbs below assigned lbs level
“Please select the lbs greater than n(1,2,3) value to create an event” will be displayed if user selects the lbslevel less than the response param lbslevel

AC01 [Mobile+SF]: This parameter should be customizable for each project. For Dosto: Level 2 and for DSB Level 3. This parameter can be changed at any point of the time

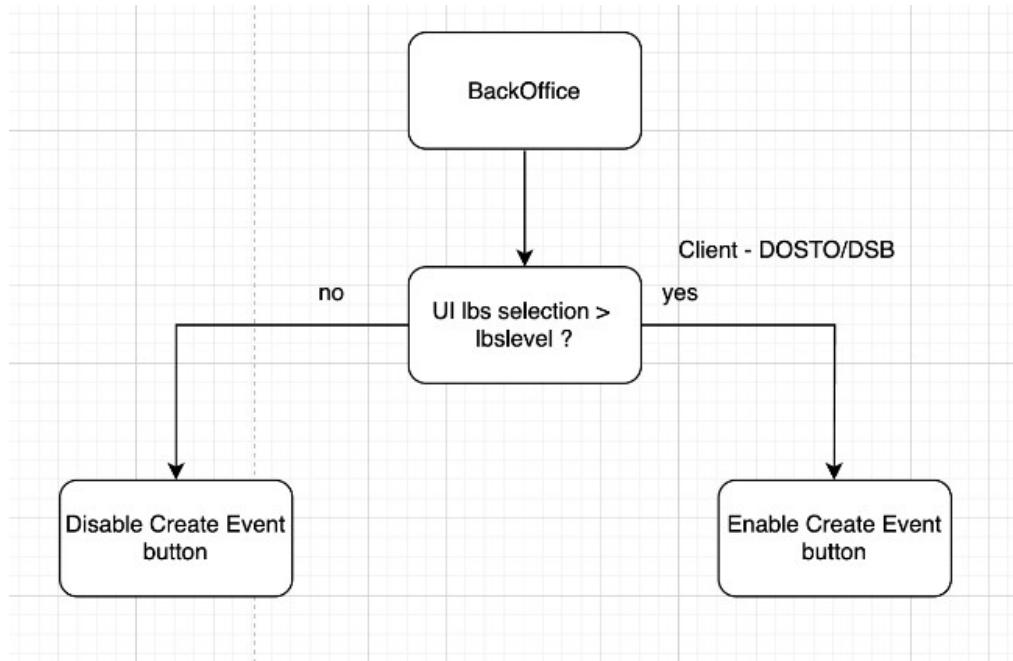
Example: if DSB the parameter is 3 , users can create an issue at level, 4, 5, 6, 7 greater Parameter to be editable by Admin Maintainer

SF Solution:

- This LBS Level information will be saved in DBB project. Logic will identify which Logged in User is active and which validation is applied to him, however this LBS parameter is not constant and can be changed whenever required
- For example the below Project is assigned to specified LBS levels as requested, but these LBS levels can be changed at any given point.
>DSB Users can create a request with LBS level bigger than 3.
>Dosto users can create a request with LBS level bigger than 2
- The solution build for restricting request creation based on DBB LBS level should be dynamic and can be changed any time in future by Admin maintainer only.

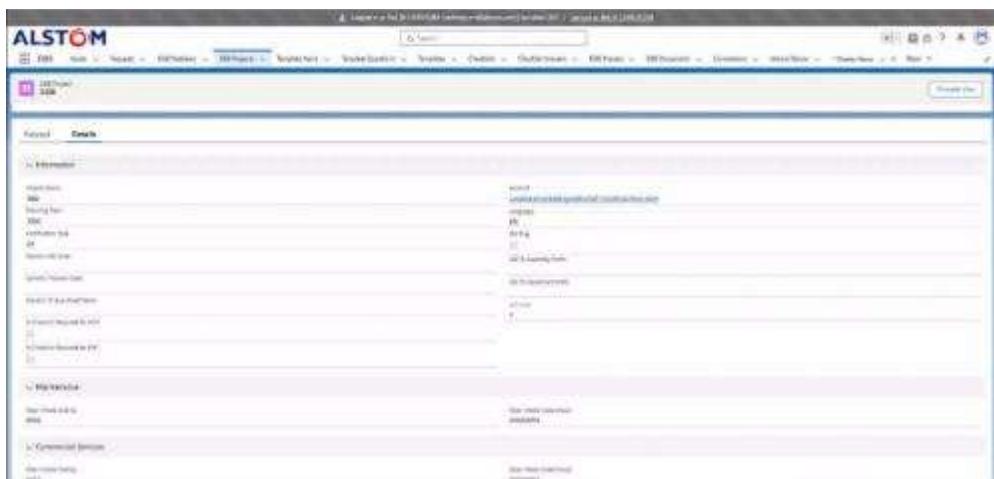
Mobile Solution:

- The LBS level value or parameter should be customizable for each project and is provided as a field in the response asset object from the back office



2.5 Screenshots (Samples)

- For any DSB project: In the DBB Salesforce app, if the new field "LBS Level" under the "DBB Project" records is defined as 3 then DSB user will be allowed to create a request with LBS level greater than 3 only.





- For any Dosto user: In the DBB Salesforce app, if the new field "LBS Level" under "DBB Project" records is defined as 2, then DOSTO user will be allowed to create a request for LBS level greater than 2 only.

The screenshot shows a Salesforce page for a DBB Project record. The 'Details' tab is selected. On the left, there's a sidebar with sections like 'Information', 'Attachments', 'Comments', and 'Changelog'. The main area displays various fields: 'Project Name' (LNGV), 'Planning Start Date' (1990-01-01), 'Completion Date' (2018-01-01), 'Current Status' (Open), 'Last Update Date' (2018-01-01), 'Last Update User' (System Administrator), 'Last Update Reason' (Initial Creation), and 'Last Update Details' (Initial Creation). A note on the right says 'User can't create requests' because 'LBS Level' is 2. At the bottom, there are tabs for 'General' and 'Advanced'.

- As shown in below screenshot for all other projects e.g., LNGV,RMV,ENNO,etc ,the new field "LBS Level" under "DBB Project" record defines the values that determine whether a request can be created with following logic as :
If the LBS Level is 0 or empty, a request can be created without validation.
However, if it has defined value (e.g., 1, 2, or 3), then the project will only allow to create a request if the LBS Level is greater than the defined value .

This screenshot shows a similar view of the DBB Project record. The 'Details' tab is selected. The 'Information' section includes fields like 'Project Name' (RMV), 'Planning Start Date' (1990-01-01), 'Completion Date' (2018-01-01), 'Current Status' (Open), and 'Last Update Date' (2018-01-01). A note on the right says 'User can create requests' because 'LBS Level' is 1. The bottom tabs show 'General' and 'Advanced'.

In DBB SF -the issue creation Validation message to be displayed as shown below:



Select LBS Levels

Functional Location

DELNVGH554001



Functional Location Description

E-I-002



Car Impacted

DELNVGX554001B

Asset

LINT-I-L-05

Please select the LBS level greater than 3

Name	Car Description	LBS Description	Asset code
✓ DELNVOX0054001	Description of the car is here	VORM ADRHE	LNVO 03
✓ DELNVOX1554008	Description of the car is here	DELNVOX1554008	-----
✓ LINT-I-L-01	Description of the car is here	FAHREZUGKASTEN	-----
✓ LINT-I-L-02	Description of the car is here	FAHREZUG	-----
✓ LINT-I-L-03	Description of the car is here	ENTSCHIEBERSORU	-----
✓ LINT-I-L-04	Description of the car is here	BREKESYSTEM	-----
✓ LINT-I-L-05	Description of the car is here	KUCHLAUF	-----

Close

Next

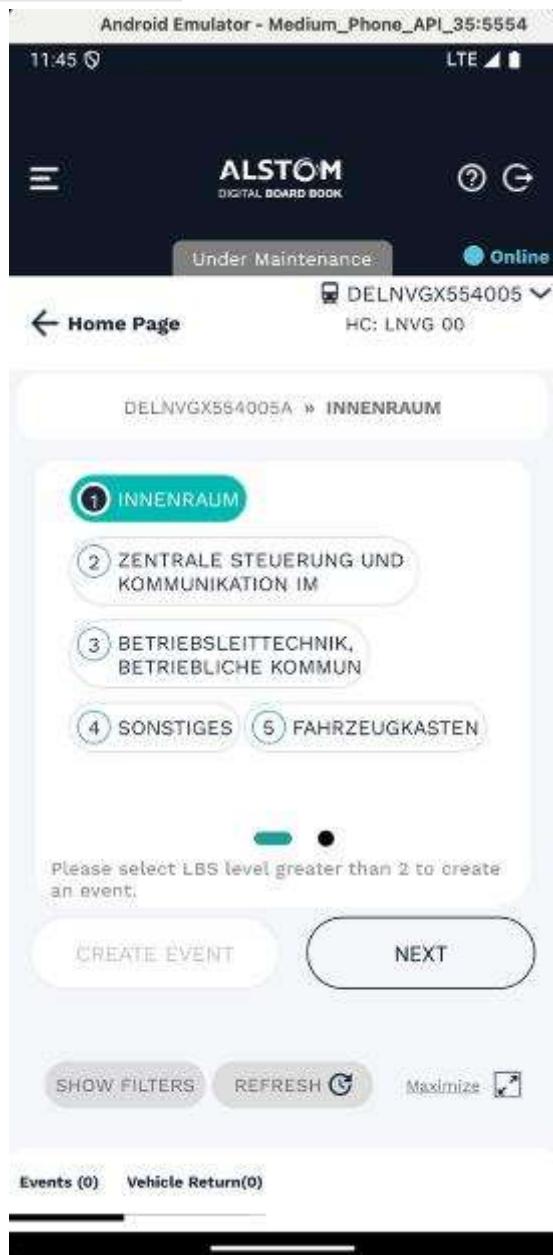
- For the mobile app, validation will be applied only for DSB and Dosto users. However, the LBS Level can be changed at any time.
- DSB and Dosto users will view all Assets but able to select only LBS whose LBS level is greater than 3 and 2, respectively.
- For all other users, the flow follows the existing process as shown below:
For example, an LNVG user must first select the Asset, and then select the Car to create an issue.

The screenshot shows the ALSTOM Digital Work Book interface. At the top, there are two logos: Capgemini and ALSTOM. The ALSTOM logo is on the right, with the word "ALSTOM" in blue and red and a blue train icon.

The main screen displays a digital form titled "DELNVGDX554002B = FAHRZEUGKASTEN". Below the title is a horizontal bar with numbered categories: 1 FAHRZEUGKASTEN, 2 FAHRWERK, 3 ENERGIEVERSORGUNG, 4 TRAKTIONSAUFLÖSUNG, 5 BREMSSYSTEM, 6 HILFS- UND NEBENBETRIEBSVERSORGUNG, 7 INNENRAUM, 8 ZENTRALE STEUERUNG UND KOMMUNIKATION IM, 9 BETRIEBSLEITTECHNIK, BETRIEBLICHE KOMMUNIKATION, and 10 SONSTIGES. The first category, "FAHRZEUGKASTEN", is highlighted with a blue border.

Below the categories are three buttons: "BACK", "CREATE EVENT", and "NEXT". The "CREATE EVENT" button is highlighted with a blue background.

The interface includes a navigation bar at the bottom with icons for "Documents", "Tech", "Tool Box", "Home Page", "My Profile", "Messenger", "Checklist", and "Help Desk".





2:20 PM · Wed May 7

ALSTOM

Last update: 07/05/25 14:20

Under Commercial Services
Light Maintenance

Home Page

DELNVGX554002
Loc: Ningbo
FDW: E-2007

LNVG Train... Online Train Manager ? Power

Select Create Review Confirmation

DELNVGX554002

1 DELNVGX554002-LNT-IL 2 FAHRZEUGKASTEN 3 FAHRWERK 4 ENERGIEVERSORGUNG 5 TRAKTIONSAUSRÜSTUNG
6 BREMSSYSTEM 7 HILFS- UND NECONDECTEDSVERSORGUNG 8 INNENRAUM
9 ZENTRALE STEUERUNG UND KOMMUNIKATION IM 10 BETRIEBSLEITTECHNIK, BETRIEBLICHE KOMMUN 11 SONSTIGES

BACK CREATE EVENT NEXT

Please select EDS (level) greater than 0 to create an event.

Events (0) **Vehicle Return (0)**

Show Filters Refresh Versions

Event	ID	Created By	Car Equipment	Title	Severity	Created On	Status
Empty list No data to display							

Documents Tags Tag-List Home Page Search Maintenance Checklist Recent Select



2.6 Assumptions/Risks

3 DBB-2732: Restriction linked with concession

3.1 Business Process Description

Generated document for fleet management doc 03 Part B should have restriction Closed date on the expected Close date and Time.

3.2 Detailed Process Requirements

- For fleet management document 03 Part B, "Expected Closure Date/Time on Restriction Table" will be referred to as "Restriction Close Date."
- For fleet management document 04 Part B, "Expected Closure Date/Time on Restriction Table" is already considered as "Restriction Close Date." Therefore, no additional development is required.
- For fleet management document 05 Part B, "Expected Closure Date/Time on Restriction Table" is already considered as "Restriction Close Date." Therefore, no additional development is required.

3.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB – Integration
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on charge

3.4 Solution Approach

Existing Scenario:"Expected Clouser Date/Time on Restriction Table in the doc Is Required End date & Time from Concession for Fleet Management Document 03 Part B (discussed and agreed with Olivier). For Fleet Management Document 04 Part B and Fleet Management Document 05 Part B document it will be Close Date of restriction.

To be implemented: and come back on the solution". (page 162 FDD)

as this should be: Expected Clouser Date/Time on Restriction Table will be Close Date of restriction in Fleet Management Document 03 Part B , Fleet Management Document 04 Part B and Fleet Management Document 05 Part B

SF solution:



1. In DBB, for fleet management document 03 Part B, "Expected Closure Date/Time on Restriction Table" will be referred to as "Restriction Close Date."
2. In DBB, for fleet management documents 04 Part B and 05 Part B, "Expected Closure Date/Time on Restriction Table" is already considered as "Restriction Close Date." Therefore, no additional development is required for these documents.

Mobile Solution: No dev update required in mobile app as documents are not displayed in it.

3.5 Screenshots (Samples)

Below two Screenshots is the existing logic for activation of checkbox on Fleet document:

1. In below document 1 the "X" represent the top checkbox which is activated when there is no concession linked to VR



Fleet Management Document 03 PART B

Subject	Release to Service
Functional Location	DELNVGX554001
Service Order List	16178399191 - 1234 467727282 - 67271881881
Vehicle Return ID	VR-0006252
The term of the maintenance activities and the availability at the return in service of the rolling stock according to the indications of the ECM	

x	The indicated rolling stock has performed maintenance in accordance with the Vehicle return, received and can be returned	THE ROLLING STOCK MAY BE RETURNED TO SERVICE
	The indicated rolling stock has only partially performed the maintenance according to the Vehicle return, received for the following reasons	THE ROLLING STOCK MAY BE RETURNED TO SERVICE SUBJECT TO THE FOLLOWING RESTRICTIONS

The Maintenance Manager (or his delegate)

Date

New FCRM LNVG

27/03/2025 18:14

Annex 3 to Vehicle Return Procedure

2.In below document 2 the "X" Bottom checkbox is activated when ONE or more than one concession is linked to VR



Fleet Management Document 03 PART B

Subject	Release to Service																						
Functional Location	DELNVGX554001																						
Service Order List	16178399191 - 1234 467727282 - 67271881881																						
Vehicle Return ID	VR-0006251																						
The term of the maintenance activities and the availability at the return in service of the rolling stock according to the indications of the ECM																							
The indicated rolling stock has performed maintenance in accordance with the Vehicle return, received and can be returned	THE ROLLING STOCK MAY BE RETURNED TO SERVICE																						
The indicated rolling stock has only partially performed the maintenance according to the Vehicle return, received for the following reasons	THE ROLLING STOCK MAY BE RETURNED TO SERVICE SUBJECT TO THE FOLLOWING RESTRICTIONS																						
<p>Concessions</p> <table border="1"> <thead> <tr> <th>Number</th> <th>Concession Description</th> <th>Required End date & time</th> </tr> </thead> <tbody> <tr> <td>00000114</td> <td>Test Concession</td> <td>31/03/2025 12:00</td> </tr> </tbody> </table> <p>Restrictions</p> <table border="1"> <thead> <tr> <th>Concession Number</th> <th>Restriction Number</th> <th>Impacted car</th> <th>Impacted Equipment</th> <th>Restriction Type</th> <th>Title</th> <th>Created Date</th> <th>Expected Closure Date & Time</th> </tr> </thead> <tbody> <tr> <td>00000114</td> <td>00094526</td> <td>DELNVGX554001B</td> <td>TRAKTIONSAUSRÜSTUNG</td> <td>Speed</td> <td>Test Restriction</td> <td>27/03/2025 16:02</td> <td>27/03/2025 16:01</td> </tr> </tbody> </table>		Number	Concession Description	Required End date & time	00000114	Test Concession	31/03/2025 12:00	Concession Number	Restriction Number	Impacted car	Impacted Equipment	Restriction Type	Title	Created Date	Expected Closure Date & Time	00000114	00094526	DELNVGX554001B	TRAKTIONSAUSRÜSTUNG	Speed	Test Restriction	27/03/2025 16:02	27/03/2025 16:01
Number	Concession Description	Required End date & time																					
00000114	Test Concession	31/03/2025 12:00																					
Concession Number	Restriction Number	Impacted car	Impacted Equipment	Restriction Type	Title	Created Date	Expected Closure Date & Time																
00000114	00094526	DELNVGX554001B	TRAKTIONSAUSRÜSTUNG	Speed	Test Restriction	27/03/2025 16:02	27/03/2025 16:01																

The Maintenance Manager (or his delegate)

Date

New FCRM LNNG

27/03/2025 16:11

3.6 Assumptions/Risks



4 DBB-614: Improvement for LBS selection for Issue creation in the Back Office

4.1 Business Process Description

To provide proper LBS level sequence selection process for Issue Creation

4.2 Detailed Process Requirements

- User to input LBS level data in proper sequence where system will enter Functional location first and then Asset or Car impacted field will be enabled to select the values.
- To provide the sequential view to customers on creation page layout for selected Functional location, Car Impacted and Asset

4.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- Person on Charge
- Admin Maintainer
- Admin Operator

4.4 Solution Approach

AC00: The functional location, Functional location Description, Equipment input should be displayed before the asset

SF solution:

For service cloud users and Community cloud users the issue creation /edit page will display the LBS level as below:
Functional location
Functional location Description (read only field)
Car Impacted
Asset



Initially, only the Functional Location field is enabled for value selection, while all other fields remain disabled. Once a Functional Location is selected, the Car Impacted and Asset fields will be enabled for further selection.

Mobile Solution: No dev update required

AC01: All the assets' options should be displayed according to the functional location, equipment selected before

SF solution:

- This requirement applies to all four DBB-request record types. When the user clicks the 'New' button in the Request object and selects any of the following request types, the new LBS selection window will open:
 - DBB – Issue
 - DBB – Infrastructure
 - DBB – Operational Information
 - DBB – Restriction
- To create an any type of issue, User will first need to enter or select Functional location on the pop-up window
- The Functional location will be displayed for selection according to the Logged in User. Once Functional location is selected, the associated Functional location description should be populated automatically.
- Next Step is that User will be able to view associated Car impacted data and associated asset in Tree format
- On further expansion of Tree (With Expand and collapse icon next to each Car Impacted and Asset in tree structure) will open the details of all Car impacted and all asset associated to the selected functional location (see attached Screenshot below for detailed view)
- Car impacted is an optional picklist field . So, if the user chooses not to select any value in the Car Impacted , the User will need to select the associated asset mandatorily. If the user selects an Asset without first selecting a Car Impacted value, the associated Car Impacted value linked to the selected Asset should automatically populate the 'Car Impacted' and 'Asset' fields. Please note that if the selected Asset is not linked to any Car Impacted value, the 'Car Impacted' field will remain empty both in the LBS selection window and on the Request record
- Once the user selects a valid functional location, car impacted and Asset, the user will click on the “Next” button to confirm the LBS level and land on the



issue creation page. If user click on “Close” button, he will navigate back to the Request Record page selection.

- .
- The user must select the required fields, such as Functional Location and Asset, before clicking the 'Next' button; otherwise, a validation error message will appear. Once all required data is entered, the user will be directed to the Issue Creation page, where the selected Functional Location, Car Impacted (if any), and Asset values will be automatically populated.
- On the Request Creation page, if the user chooses to change any pre-selected value, they can click on any of the three fields. This action will navigate them back to the LBS Selection window, where all three fields can be modified.
- Post Creation of request, if any user chooses to update the Functional location, car impacted or Asset then he will allow to do so on an LBS selection window. This is existing functionality where all backoffice users can modify the above three fields.

Mobile Solution: No dev update required

AC02: The asset order displayed should be according to the level of LBS; LBS Description should be displayed as well to have user friendly selection tab in hierarchical way

SF solution:

- The Asset search box will provide the ability to view the entire asset hierarchy.
- This hierarchy will be displayed in a tree format, allowing the user to see all associated Assets along with their corresponding Car Impacted (if any) and Functional Location, based on the selection made in the Functional Location search box.
- If the user changes the Functional location, the hierarchical tree will update automatically to reflect the newly added Train associated Car Impacted and Assets accordingly.
- Similarly, if the user selects an Asset that is linked to a different Car Impacted value, the Car Impacted field will automatically update to reflect the new association.
- If the user changes the Car Impacted value, they must also select a new associated Asset

Mobile Solution: No dev update required

AC03: An structure of train as it is on the mobile should be displayed in the back office to have an interface more user friendly

SF solution: update in AC00

Mobile Solution: No dev update required

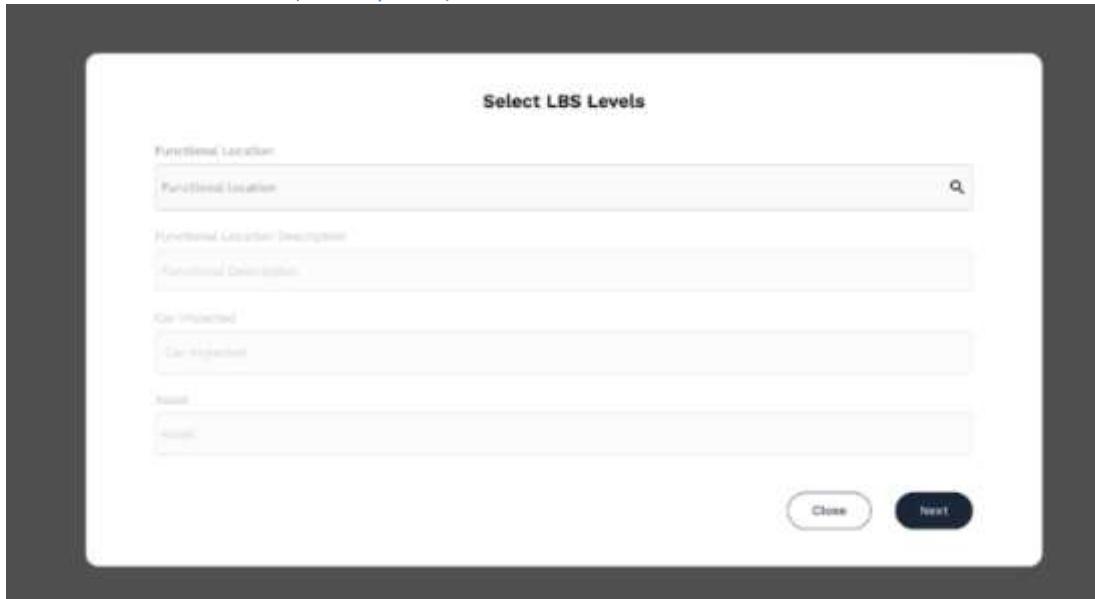
AC04: This should be applied for any Request type in DBB

SF solution:

- The below four request types will display the same LBS sequence and follow the same search pattern as described in above ACs:
DBB-Issue
DBB-Operation Information
DBB-Infrastructure and
DBB-Restriction
-

Mobile Solution: No dev update required

4.5 Screenshots (Samples)



Select LBS Levels

Functional Location
DEUNVOX54001

Functional Location Description
E-1.001

Car Impacted
Car Impacted

Asset
Asset

Select LBS Levels

Functional Location
DEUNVOX554001

Functional Location Description
E-1.002

Car Impacted
Car Impacted

Asset
Asset

Name	Car Description	LBS Description	Asset Level
DEUNVOX54001	Description of the car is here	voRM Admin	1
DEUNVOX554001A	Description of the car is here	DEUNVOX554001A	2
DEUNVOX554001B	Description of the car is here	DEUNVOX554001B	2
E-1.0-01	Description of the car is here	FAHRZEUGKASTEN	3
E-1.0-02	Description of the car is here	FAHRZEUG	3
E-1.0-03	Description of the car is here	ENERGIEVERSORGE	3
E-1.0-04	Description of the car is here	BREMSESYSTEM	4
E-1.0-05	Description of the car is here	ISCHENKALUM	5

Select LBS Levels

Commercial location: DCLNVA554001

Functional Location Description: S-1-0001

Car identifier: DCLNVA5540018

Asset: UNIT-A-05

Name	Car description	Alt description	Item code
✓ DCLNVA554002	Description of the car is here	00004_Admn	00004
✗ DCLNVA554003	Description of the car is here	DCLNVA554004	—
✓ DCLNVA554005	Description of the car is here	DCLNVA554005	—
✓ 180716-01	Description of the car is here	F4H002000000	—
✓ 180716-02	Description of the car is here	F4H002000001	—
✓ 180716-03	Description of the car is here	F4H002000002	—
✓ 180716-04	Description of the car is here	F4H002000003	—
✓ 180716-05	Description of the car is here	F4H002000004	—

Close **Next**

Search...

[Template Questions](#) ▾ [Templates](#) ▾ [Checklists](#) ▾ [Checklist Answers](#) ▾ [DBB Process](#) ▾ [Know](#)

New Request: DBB - Issue

ISSUE INFORMATION

Status

 --None-- ▾

Request Record Type

DBB - Issue

Functional Location

 DELNVGX554001

Functional Location Description

 E-1.002

Car Impacted

 DELNVGX554001B

Asset

LINT-IL-05

ISSUE DESCRIPTION

Title

Issue

Safety Affecting



ISSUE IMPACTS

Issue Type

 --None-- ▾

* DBB Problem

 Inf

GPS Location

 --None--

Information

Headcode

 --None-- ▾

 --None-- ▾

Symptom nicht in der Liste



4.6 Assumptions/Risks

5 DBB-2976 Updates API Name

5.1 Business Process Description

API names to be updated into DBB and map the same with DIB

5.2 Detailed Process Requirements

- API names to be updated into DBB for “Category Values” in request.
- API names to be updated into DBB for “Depot Picklist Values” in request.
- API names to be updated into DBB for “Impact On Service” in request.
- .
- Map all these new DBB API names with DIB system .

5.3 Process Owners

- DBB – Maintainer
- DBB - FCR Maintainer
- DBB- Admin Maintainer
- DBB- Integration
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB- Admin operator
- Person on Charge

5.4 Solution Approach

Salesforce Backoffice Solution:

AC01: API Names in DBB to be update as in the excel file attached

The file attached has input for Impact on service, Category and Depot Picklist values assigned project.



AC02: for category there is a restriction for 30 characters in GSI. In order to have the same pick list values than in DBB, this restriction should be overpassed or the API names should be cut only with the first 30 characters without spaces (in the prefix)

Map the correct category as per sheet provided in request object and verify the GSI mapping with same value. also limit the character length=30

AC03: Impact on service API names should be updated as on the excel file for BaWU 1& 2 and Dosto (for wrong values highlighted in Red)

Salesforce backoffice will update API name in request object manually in DBB for BAWU1, BAWU 2 and LNVG DOSTO2 as per attached sheet.

AC04: for Depot pick list api names for Request object should be reviewed, as in GSI also there is a restriction of 30 characters

Depot picklist to be mapped correctly with DBB and verify with GSI team, character length to be limited to 30 characters

Note- These newly added DBB API names to be updated and aligned with DIB, the DIB to send these API values to GSI where it will map the values between DBB-DIB-GSI and vice versa

5.5 Screenshots (Samples)

5.6 Assumptions/Risks

- Assuming the data provided in the sheet is updated and informed to DIB team. Mapping will be done on the basis on the input in the mapping sheet provided. DIB will send this updated data to GSI. GSI to map correct data and store in GSI system. All API data between three systems should be mapped correctly according to the sheet provided.
- There is no impact of this requirement on mobile app, hence no mobile solution is added.

6 DBB-1120 Add a new field to Vehicle return called "Comment" as free text

6.1 Business Process Description

In Vehicle Return will track Comment and its history



6.2 Detailed Process Requirements

In DBB-Vehicle return, a new provision to be made available for user to add VR free text comments in the "Comments" field and track the history in a "Comment History" read only field

6.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- Person on Charge

6.4 Solution Approach

AC00[Mobile + Salesforce]/ Add a new field to Vehicle return called "Comment" as free text. This field is to add information about place of handover and general vehicle return details

SF solution:

The Vehicle Return record to have a new free text "Comment" custom editable field(Long text area DBB)

Users should be allowed to update comments any number of times until the VR status is marked as 'Closed'.

Mobile Solution:

- VR Creation is Not Applicable for Mobile
- New comment text field will be added to the existing vehicle return record, user can modify and enter the comment text related to vehicle return with max limit of 100 characters and validated by showing message to user.
ex: you have exceeded max 100 character limit
- This field should allow users to enter details about the handover location and general information related to the vehicle return
- Comment Hint text inside box "please enter the text here on Vehicle Return"

AC01 [Mobile + Salesforce]/ [Mobile + Salesforce]/ This field should be able to editable in mobile and back office. Train driver[Mobile], maintainer[Mobile & Back Office], FCRO [Mobile & Back Office], FCRM [Mobile & Back Office] , person on charge [Mobile & Back Office], crew member [Mobile]



SF solution:

- The “Comment” field will be editable post creation of VR by maintainer, FCRO , FCRM , person on charge.
- Although,only FCRM should be able to enter data in Comment field during VR creation.

Mobile Solution:

- The Comment field will be editable by Train Drivers, Maintainers, FCROs, FCRMs, POCs, and Crew Member(all user) till VR Closure.

AC02 A [Mobile + Salesforce]/ The changes on this field should be tracked in the history of the vehicle return

SF solution:

- . A new customfield named 'Comment History' will be added in the VR to track all history entries made in the comments section.

Mobile Solution:

- All changes to the Comment field will be recorded in the Vehicle Return over Comment history section and to be displayed in mobile.

AC02 B [Mobile + Salesforce]/ : All values that are written and saved in the "Comment" field must appear one after the other in the field "Comment History" with following design "Philipp Engelmann (FCRM), 01.12.2025, 13:05 ("CET") : Maintenance tasks delayed.". The "Comment History" should not be editable.

SF solution+Mobile Solution:

- "Comment History" field will be read only for all
- Comment History will follow this format as " Profile name timestamp(CET zone timestamp) : comments." As shown in screenshot below.
ex: "Philipp Engelmann , 01.12.2025 13:05 : Maintenance tasks delayed."
- User can track and view the history of Comments in the “Comment History” field.
- Comment History will display max 50 comments data



AC03 [Mobile + Salesforce]: In case of multiples updates the comments in the field "Comment History" has to be displayed in a new line.

SF solution+Mobile Solution:

- For each new update in comment field, the Comment history will be displayed in new field instance/line
- Comment History Section will be shown max of 50 Record items, Each item will be shown in new line

AC04 [Mobile + Salesforce]: Comments field is optional , Comments fields should be editable for all VR status except "Closed "

SF solution+Mobile Solution:

- Already covered in above Solution explanation

6.5 Screenshots (Samples)

The screenshot shows the ALSTOM Vehicle Return (VR) management system interface. The top navigation bar includes links for Capgemini, Time Card Manage..., Leave Management..., India Intranet Home..., Alstom DBB BSWU..., Alstom Region - EMU..., Ended!, partial, New Job, and Logout. The main menu on the left includes DBB, Assets, Requests, Accounts, Contacts, DBB Problems, DBB Projects, Template Items, Template Questions, Templates, Vehicle Returns, and More. The current page is Vehicle Returns. The main content area displays a vehicle return record for VR-0000296. The record includes fields such as Return W Updation date (07/10/2024 14:13), No Complaint (checkbox), Rejection counter (0), Customer Status, Client (SBW1), Operator/Company (Operator 1), and Created By (test.CP1.SF.FCRM). The right side of the screen shows a detailed view of the vehicle return record, including Functional location (DESFIRW447007), POLO Username/Who Approved (test.CP1.SF.FCRM), Depot (Tübingen), Person On Charge (test.CP1.SF.FCRM), and a comments section. The comments section contains multiple entries from different users, showing how comments are displayed in a new line for each update.

4:41PM · Wed Apr 30

Under Commercial Service

DELNVGX554001
ZU-00000000
100% X

Vehicle Return

ID: VR-0007143

Approved

Planned Start Date	Planned End Date	Real Start Date	Real End Date
29/04/2025, 10:21:00	30/04/2025, 10:21:00	-	-
Return to Operation Date	Confirmation by FCRO	Confirmation on Depot	-
-	-	-	-

Notification or Preventative Maintenance List Object:

Not Complaint: Notification or Corrective Maintenance Order Object: 123456789

Rejection Counter	Reset Number	Depot	FCRO User Name
-	DELNVGX554006	FVB, Am Bahnhof Süd 3, 27439 Bremen	-

Sub Status (VR): Maintenance initiated

Vehicle Ready for Operation Timestamp:

Comment:

Comment history:

- From: Bremen (FCRO)
Maintenance initiated
- From: Bremen (FCRO)
Maintenance ready

Buttons: Bearbeiten, Speichern, Abbrechen



0:41PM Wed Apr 30 Under Commercial Service DELNVGX554001
ALSTOM 100% X

Vehicle Return

ID: VR-0007143

Approved

Planned Start Date	Planned End Date	Real Start Date	Real End Date
2023-04-26 13:21:00	2023-04-26 13:21:00	-	-
Return to Operation Date	Confirmation by FCRO	Confirmation on Depot	
-	-	-	

Notification or Preventative Maintenance List Object

Not Complaint: **Notification or Corrective Maintenance Order Object**
123456789

Rejection Counter	Header Number:	Dept:	FCRO User Name:
-	DELVGX554001	EVB, Am Bahnhof 80d 3, 97430 Bremerhaven	-

Sub Status (VR)
Maintenance function initiated

Vehicle Ready for Operation Timestamp

Comment

None - No comments have been added yet.

Comment History

Philip Gugelmann (FCRO)
Maintenance function initiated
2023-04-26 13:21:00
Maintenance tasks delayed

Next Step



12:41PM (Wed Apr 20)

ALSTOM

Vehicle Return
ID: VR-0007H3

Approved

Maintain Start Date: 20/04/2025, 13:21:00 Maintained End Date: 30/04/2025, 13:21:00 Next Start Date: Next End Date:

Return to Operation Date: Confirmation by FCPO: Confirmation on Deposit:

Notification or Presentative Maintenance List Object

Not Compliant: Notification or Comment ID: 1234567890

Violation Counter: Asset Number: DEINV0X654001 AD User Route:

Safe Status (Info): Vehicle Ready for Operation Timestamp:

Maintainer handover initiated

Comment:
Any message about a completed work which has finished and is now ready.

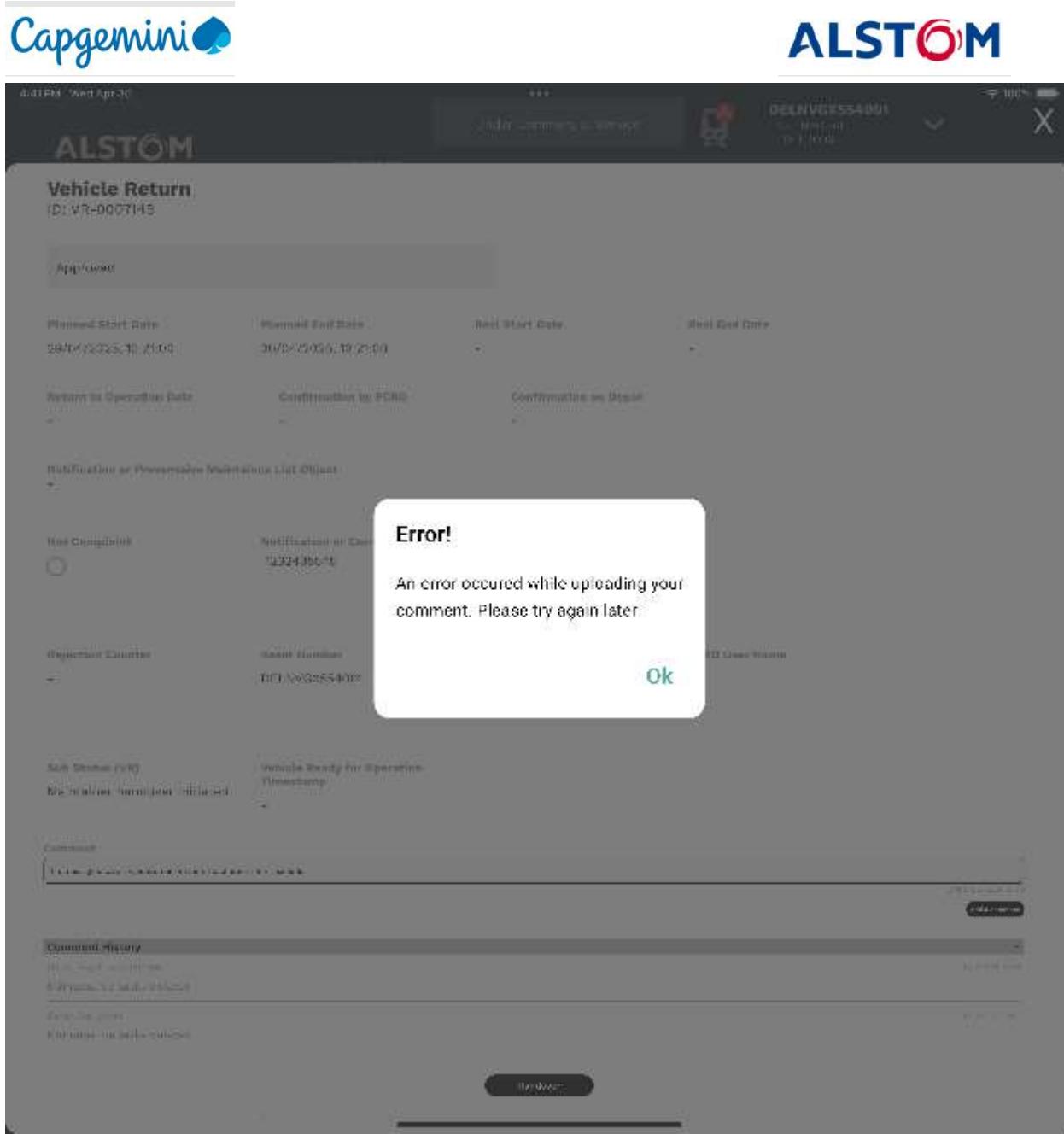
Comment history:

- 2023-04-20 13:21:00 Maintenance tasks assigned
- 2023-04-20 13:21:00 Maintenance tasks resolved

Handover

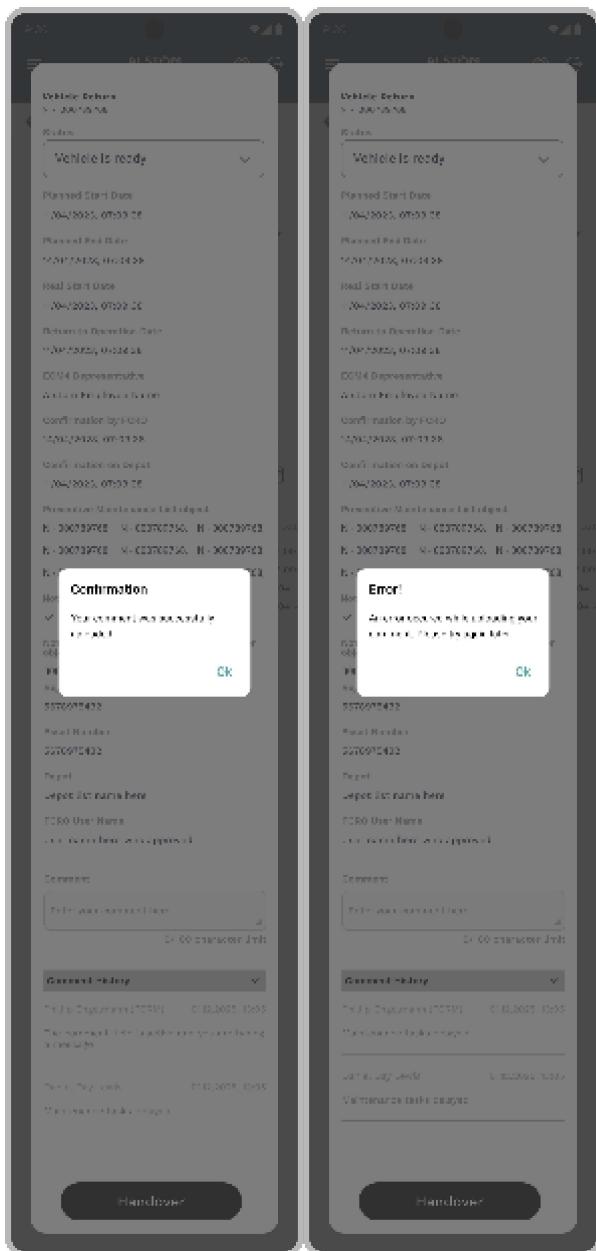
Confirmation
Your comment was successfully uploaded.

Ok





<p>Vehicle Returns N° 10000002</p> <p>Vehicle</p> <p>Vehicle is ready</p> <p>Planned Start Date 2023-05-05 09:00</p> <p>Planned End Date 2023-05-05 09:45</p> <p>Real Start Date 2023-05-05 09:00</p> <p>Returns to Operation Date 2023-05-05 09:45</p> <p>DDM4 Dispatchments Without Dispatches</p> <p>Confirmation by user 2023-05-05 09:15:28</p> <p>Confirmation on input 2023-05-05 09:15:28</p> <p>Promotion Maintenance Schedule N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763</p> <p>Not Compliant <input checked="" type="checkbox"/></p> <p>Not Return or cancellation of real resources under object H044014 Request Counter 576697432</p> <p>Read Number 2270972422</p> <p>Report Report for return item</p> <p>Report for cancellation Cancel item name The item has been approved</p> <p>Comment The item has been approved 0155 character limit <input type="button" value="Add comment"/></p> <p>Current ledger</p> <p>Netting factor (NETS) 0.000000 0.00</p> <p>Customer ledger entry</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Handover</p>	<p>Vehicle Returns N° 10000002</p> <p>Vehicle</p> <p>Vehicle is ready</p> <p>Planned Start Date 2023-05-05 09:00</p> <p>Planned End Date 2023-05-05 09:45</p> <p>Real Start Date 2023-05-05 09:00</p> <p>Returns to Operation Date 2023-05-05 09:45</p> <p>DDM4 Dispatchments Without Dispatches</p> <p>Confirmation by user 2023-05-05 09:15:28</p> <p>Confirmation on input 2023-05-05 09:15:28</p> <p>Promotion Maintenance Schedule N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763</p> <p>Not Compliant <input checked="" type="checkbox"/></p> <p>Not Return or cancellation of real resources under object H044014 Request Counter 576697432</p> <p>Read Number 2270972422</p> <p>Report Report for return item</p> <p>Report for cancellation Cancel item name The item has been approved</p> <p>Comment The item has been approved 0155 character limit <input type="button" value="Add comment"/></p> <p>Current ledger</p> <p>Netting factor (NETS) 0.000000 0.00</p> <p>Customer ledger entry</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Handover</p>	<p>Vehicle Returns N° 10000002</p> <p>Vehicle</p> <p>Vehicle is ready</p> <p>Planned Start Date 2023-05-05 09:00</p> <p>Planned End Date 2023-05-05 09:45</p> <p>Real Start Date 2023-05-05 09:00</p> <p>Returns to Operation Date 2023-05-05 09:45</p> <p>DDM4 Dispatchments Without Dispatches</p> <p>Confirmation by user 2023-05-05 09:15:28</p> <p>Confirmation on input 2023-05-05 09:15:28</p> <p>Promotion Maintenance Schedule N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763</p> <p>Not Compliant <input checked="" type="checkbox"/></p> <p>Not Return or cancellation of real resources under object H044014 Request Counter 576697432</p> <p>Read Number 2270972422</p> <p>Report Report for return item</p> <p>Report for cancellation Cancel item name The item has been approved</p> <p>Comment The item has been approved 0155 character limit <input type="button" value="Add comment"/></p> <p>Current ledger</p> <p>Netting factor (NETS) 0.000000 0.00</p> <p>Customer ledger entry</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Handover</p>	<p>Vehicle Returns N° 10000002</p> <p>Vehicle</p> <p>Vehicle is ready</p> <p>Planned Start Date 2023-05-05 09:00</p> <p>Planned End Date 2023-05-05 09:45</p> <p>Real Start Date 2023-05-05 09:00</p> <p>Returns to Operation Date 2023-05-05 09:45</p> <p>DDM4 Dispatchments Without Dispatches</p> <p>Confirmation by user 2023-05-05 09:15:28</p> <p>Confirmation on input 2023-05-05 09:15:28</p> <p>Promotion Maintenance Schedule N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763 N° 30039762 N-C2707250, H-30039763</p> <p>Not Compliant <input checked="" type="checkbox"/></p> <p>Not Return or cancellation of real resources under object H044014 Request Counter 576697432</p> <p>Read Number 2270972422</p> <p>Report Report for return item</p> <p>Report for cancellation Cancel item name The item has been approved</p> <p>Comment The item has been approved 0155 character limit <input type="button" value="Add comment"/></p> <p>Current ledger</p> <p>Netting factor (NETS) 0.000000 0.00</p> <p>Customer ledger entry</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Delivery date 01.05.2023 Return date 01.05.2023</p> <p>Handover</p>
--	--	--	--



6.6 Assumptions/Risks

7 DBB-2636 Save filter values for each user individually

7.1 Business Process Description

The filter value can be changed and saved for every individual user over mobile app.

7.2 Detailed Process Requirements

- In the mobile app, the filter value can be changed and saved for each individual user.
- Once the changes are saved, they are available to all Devices which user is logged in with.
- If the user logged in another device with the same credentials, then the user should be able to see all saved filters.
- User needs to manually force the change again to modify the filters
- However, this feature is already available in salesforce with personalized list views and hence cannot modify this requirement it in Salesforce backoffice

7.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- Person on Charge
- DBB- Admin Maintainer
- DBB- Admin Operator

7.4 Solution Approach

Mobile Solution:

AC01: Save applied filter changes for every individual user after a change.

- Users can open and make any changes applicable to them using the Toggle switch provided in the mobile app.
- The changes can be saved and remain saved unless manually changed again with the tapping on "Save" button in the toggle filter section
- User filter changes will be saved on tapping the “Save” button, which will be saved in Backoffice
- A feature “Set as Default” ON/OFF button will be displayed on mobile app. (as shown in Screenshot below)



AC02: This should take effect even when the user closed the app and reopened

- Once the Custom filter changes are saved it will remain same even if the user close and reopens the application.

AC03: This should take effect even when the user uses another device

- if the user logs in onto another device with the same credentials, they should be able to view all the saved filters.
- User can verify that the save feature will keep their filter change request saved, even after they open the DBB app in another device

AC04: This should take effect on every toggle-based filter in the app

- Users can toggle the switch multiple time and can make changes according to their requirement
-
- Filter Screen: Event, Operator Handover, Maintainer Handover, VR, Tag In, Tag Out

Default Value should be maintained in SF database ,user can reset his changed value any time to default value.

Points mentioned for understanding the flow

1) Set a default toggle button ON

Data will be loaded from DBB_Mobile_Configuration_mdt, toggleConfig_c and vrToggleConfig_c

2) Set a default toggle button OFF

Data will be loaded from new table and fields respectively user_toggleConfig_c user_vrToggleConfig_c and user can modify checklist toggle buttons

3) Set a default toggle button ON and save button press

Default configuration data will be posted to new tables accordingly, such as user_toggleConfig_c and user_vrToggleConfig_c

4) Set a default toggle button OFF and save button press

The user can modify the checklist of toggle buttons and press the save button. The modified data will then be posted to new tables accordingly, such as user_toggleConfig_c and user_vrToggleConfig_c.



- 5) When the user presses the Save button, they should receive a confirmation message to either continue/yes or cancel/no for the Event, MH, OH, and VR Filter flows.
- 6) Pressing Continue/Yes will trigger a post or update API to store data in Salesforce tables, such as user_toggleConfig__c and user_vrToggleConfig__c.
- 7) Pressing Cancel/No will close the popup and remain on the previous screen without calling the API
- 8) DBB_Mobile_Configuration__mdt, toggleConfig__c, and vrToggleConfig__c are used solely to read the default values, which can be modified in the Salesforce UI or metadata.
- 9) user_toggleConfig__c and user_vrToggleConfig__c will be used to save user-specific data checklists. Users can modify these and see the changes upon relogin or on another device
- 10) close button press will close the popup
- .

Solution approach for Salesforce backoffice:

1. "Set as Default" Action on Filter
 - When enabled: Filter values will be retrieved from the existing Config Metadata (specifically from the `profiles-base`), and users will not be able to modify this data.
 - When disabled: If the user manually selects a filter, Salesforce will store and retrieve the filter values from a custom object.
2. Filter Save Action from Mobile (Backoffice Perspective)
 - In the backoffice, when a user saves a filter from the mobile app, the data will be stored in a single object that handles filters related to different objects.
 - The system will use a custom field to associate each filter with its corresponding object, ensuring proper differentiation and organization.
3. Real-Time Filter Save
 - Every time a filter is saved from the mobile app, the update will occur in real time.



- A standard Salesforce API will be invoked to store the record immediately upon saving.

4. Concurrent Updates Across Devices

- If a user updates the same record multiple times from different devices simultaneously, the system will update the existing record rather than creating a new one.

5. Performance Considerations

- With an estimated 1,000 users, and frequent API calls between Salesforce and the mobile app each time a filter is saved, the system must be designed to handle high load efficiently
- It is expected that the architecture will support this scale without performance degradation.

7.5 Screenshots (Samples)



3:34 PM · Wed Apr 20

ALSTOM

DIGITAL BOARD BOOK 12.7 (3)

Last Update: SG/04/25 15:34

Under Commercial Service

DELNVGX554001

100%

Home Page

LNVS Train... Online Main Manager ? ⚡

Select all the ASSET to CREATE an EVENT

Or select a CARRIAGE

NEXT

Filters Set to default

My Locomo only Events Locations Operator Handover Restrictions Past Events Yesterday's Events

Characteristics Operations Information Train-Car Maintenance Handover Connections Today's Events

ECMIS by ECR4+ ECMIS by ECR4+ Locomotives

Are you sure you want to confirm the changes you made?

Events (3) Vehicle Return (1)

Name	ID	Country	Car Equipment	Date	Safety	Created On	Status
alarm detect	I-00085107	TRAI	DELNVGX554001	Test	<input checked="" type="radio"/>	28/04/2025 15:37:19	Open
Request operation	I-00085106	TRAI	DELNVGX554001	Test	<input checked="" type="radio"/>	28/04/2025 15:36:36	Open

Documents Tag-in Tag-out Home Page Dispatching Maintenance Tickets Incident Select



3:36 PM Wed Apr 30

ALSTOM

DIGITAL BOARD BOOK 12.7 (2)

Last update: 30/04/2025 15:34

Under Commercial Service

DELNVGX554001

LNVS Train... Online Train Monitor ? Power

Select Create Review Confirmation

Select all the ASSET to CREATE an EVENT

Or select a CARRIAGE

NEXT

Filters Default

Approved

In Progress

Closed

Events (3) Vehicle Return (1)

Event ID Status Planned Start Date Planned End Date Real Start Date Real End Date Refer to Operational Data

VR-0007643 Approved 16/04/2025, 10:21:00 30/04/2025, 10:21:00

Documents Tag Top Home Page Notifications Information Calendar Next Select



3:36 PM Wed Apr 30

ALSTOM

DIGITAL BOARD BOOK 12.7 (3)

Last Update: 2024/04/25 16:34

Under Commercial Service

DELNVGX554001

100%

Home Page

LNVS Train... Online Train Manager ? Power

Select Create Review Confirmation

Select all the ASSET to CREATE an EVENT

Or select a CARRIAGE

NEXT

Filters set to default

Approved In Progress Closed

Events (3) Vehicle Return (1)

REFRESH

ID	Status	Planned Start Date	Planned End Date	Actual Start Date	Actual End Date	Refers to Operation Date
VR 0007643	Approved	20/04/2024, 10:21:00	30/04/2024, 18:21:00			

Documents Tickets Top Bar Home Page Dispatch Information Cancelling Next Select



3:36 PM Wed Apr 30

ALSTOM

DIGITAL BOARD BOOK 1.2.7 (3)

Last Update: SG/04/25 15:34

Under Commercial Service

DELNVGX554001

100%

Home Page

LNVS Train... Online Train Manager ? Power

Select Create Review Confirmation

Select all the ASSET to CREATE an EVENT

Or select a CARRIER

NEXT

Filters set as default

Approved In Progress Pending

Are you sure you want to confirm the changes you made?

Events (3) Vehicle Return (1)

ID	Status	Planed Start Date	Planed End Date	Real Start Date	Return to Operator Date
9B_0007143	Approved	20/04/2025, 02:00	20/04/2026, 02:00		

DOCUMENTS MGR Top Home Page Maintenance Information Overview Search Select



3:36 PM Wed Apr 30

ALSTOM

DIGITAL BOARD BOOK 12.7 (3)

Last update 20/04/25 05:34

Under Commercial Service

DELNVGX554001

LNVS Train... Online

Train Manager

Home Page

?

Power

Select Create Review Confirmation

Select all the ASSET to CREATE an EVENT

Or select a CARRIAGE

NEXT

Events (3) Vehicle Return (1)

Show filters Refresh Details

ID	Status	Planned Start Date	Planned End Date	Real Start Date	Real End Date	Refers to Operation Date
VR 0007143	Approved	20/04/2025, 10:21:00	20/04/2026, 10:21:00			

Your changes were saved successfully.

Documents Edit Train Log-in Home Page Contracts Information Calendar Alert/Select

3:36 PM Wed Apr 30

ALSTOM

DIGITAL BOARD BOOK 12.7 (3)

Last update 20/04/25 05:34

Under Commercial Service

DELNVGX554001

LNVS Train... Online

Train Manager

Home Page

?

Power

Select Create Review Confirmation

Select all the ASSET to CREATE an EVENT

Or select a CARRIAGE

NEXT

Events (3) Vehicle Return (1)

Show filters Refresh Details

ID	Status	Planned Start Date	Planned End Date	Real Start Date	Real End Date	Refers to Operation Date
VR 0007143	Approved	20/04/2025, 10:21:00	20/04/2026, 10:21:00			

An error occurred while saving changes. Try again.

Documents Edit Train Log-in Home Page Contracts Information Calendar Alert/Select



3:36 PM Wed Apr 30

Under Commercial Service

DEINVGX554001

DIGITAL BOARD BOOK 12.7 (3)

Last Update 30/04/25 15:34

Operator Handover

LNWS Train... Online

Train Manager

?

Power

Filters Set as default

My Events only Issues Tag In Operator Handover Restrictions Past Events

Checklist Driverless Information Tag Out Member Handover Concessions Today's Events Only

PCMS to PCMS Handover PCMS to PCMS Handover

No Operator Handover to confirm

REFRESH

Documents Tag In Tag Out Home Page Operator H. Maintenance H. Checklist Asset Select



3:36 PM Wed Apr 30

Under Commercial Service

DELMVGX554001

100%

ALSTOM

DIGITAL BOARD BOOK 12.7 (3)

Last Update 20/04/25 16:34

Operator Handover

LNWS Train... Online Train Manager ? Power

Filters Set as default

My Events only Issues Tag in Operator Handover Restrictions Past Events

Unread Downtime Information Tag Out Maintenance Handover Compensation Today's Events Only

FCMS to FCMS Handover FCMS to FOMS Handover

Are you sure you want to confirm the changes you made?

REFRESH

DOCUMENTS Task List Tag Out Home Page Operator H. Maintenance H. Checklist Asset Select



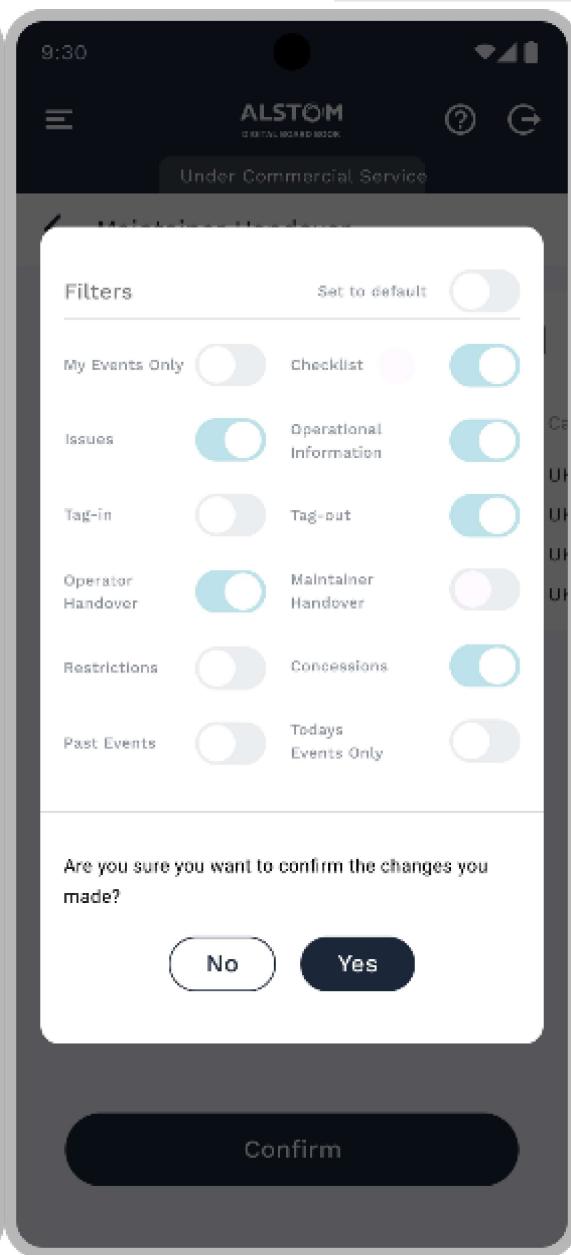
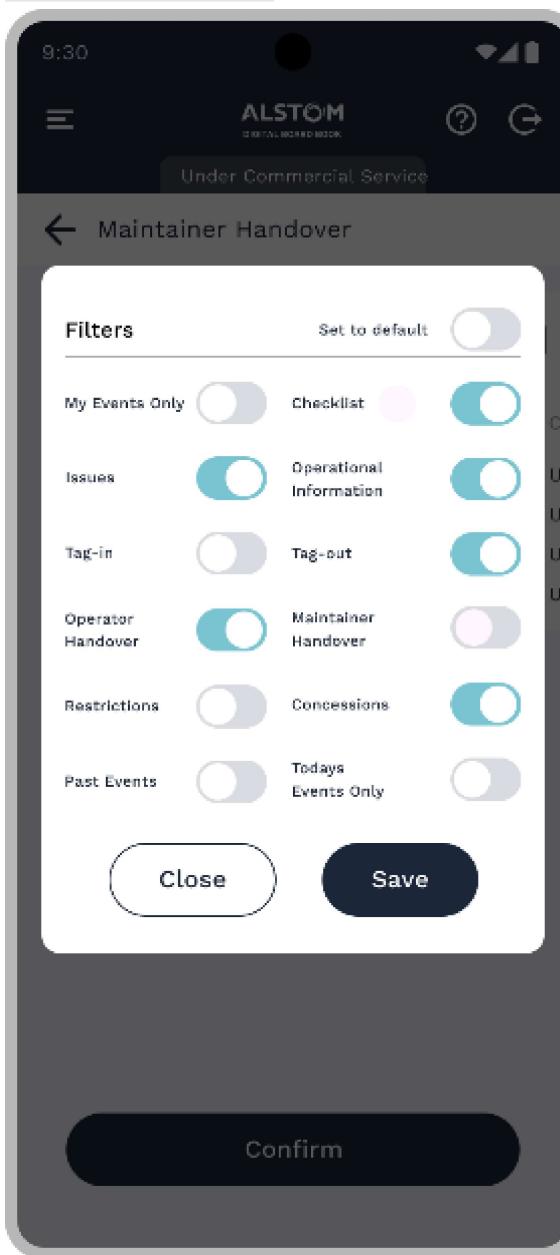
The image displays two side-by-side screenshots of the ALSTOM DIGITAL BOARD BOOK application running on an Android emulator. Both screens show the same basic layout with minor differences in the filter settings.

Left Screen (Initial State):

- Header:** "ALSTOM DIGITAL BOARD BOOK" at the top center.
- Top Bar:** Shows "Under Commercial Service" and "Online".
- Vehicle Info:** "DELNVGX554002", "HC: LNVG 00", and "FLD: E-2.001".
- Filters Overlay:** A white modal window titled "Filters" with a "Set to default" toggle switch. It includes three toggle switches: "Approved" (on), "In-Progress" (on), and "Closed" (off). Below the filters is a confirmation message: "Are you sure you want to confirm the changes you made?".
- Buttons:** "No" (outline) and "Yes" (solid dark blue).
- Table Headers:** "ID", "Status", "Planned Start Date", "Planned End Date", "Actions".
- Table Content:** "Empty List" and "No data to display."

Right Screen (After Save):

- Header:** "ALSTOM DIGITAL BOARD BOOK" at the top center.
- Top Bar:** Shows "Under Commercial Service" and "Online".
- Vehicle Info:** "DELNVGX554002", "HC: LNVG 00", and "FLD: E-2.001".
- Filters Overlay:** A white modal window titled "Filters" with a "Set to default" toggle switch. It includes three toggle switches: "Approved" (on), "In-Progress" (off), and "Closed" (off). Below the filters are two buttons: "Close" (outline) and "Save" (solid dark blue).
- Table Headers:** "Events (7)", "Vehicle Returns (0)".
- Table Content:** "Empty List" and "No data to display."





ALSTOM

9:30

ALSTOM
DIGITAL BOARD BOOK

Under Commercial Service

← Maintainer Handover

SHOW FILTERS REFRESH Maximize

Event	ID	Created by	Ca
Checklist	C - 00000622	dmana	UH
Maintainer H	P - 0000680	dmana	UH
Maintainer H	P - 0000679	dmana	UH
⚠️ Maintainer H	I - 00056845	dmana	UH

An error occurred while saving changes.

9:30

ALSTOM
DIGITAL BOARD BOOK

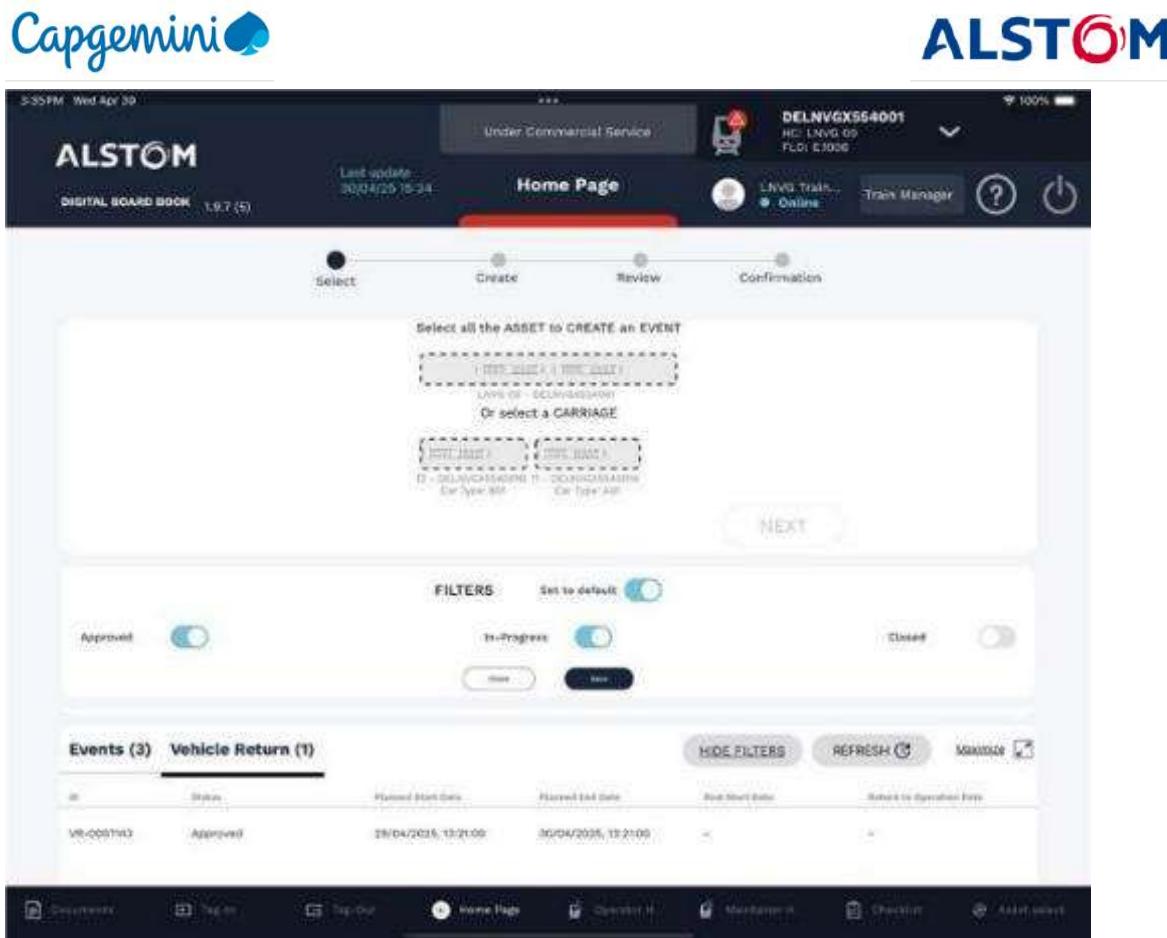
Under Commercial Service

← Maintainer Handover

SHOW FILTERS REFRESH Maximize

Event	ID	Created by	Ca
Checklist	C - 00000622	dmana	UH
Maintainer H	P - 0000680	dmana	UH
Maintainer H	P - 0000679	dmana	UH
⚠️ Maintainer H	I - 00056845	dmana	UH

Changes were saved successfully.



7.6 Assumptions/Risks

This feature is already available in salesforce with personalized list views hence no modification required in salesforce backoffice

8 DBB-2632 Delete the information of the DIB integration in the description field /*Solution not approved yet- please do not review this US */

8.1 Business Process Description

Different field update on request record

8.2 Detailed Process Requirements

All the attachment link for each issue records to be migrated from DBB to GSI.



- In request verify the DIB as updated the issue description field which is mapped with DBB system.
- If request is created in GSI, the requested by field will be updated by "Alstom". Otherwise, if the request is created in DBB, it will be "DBB- created by user profile role".
- Controlled visibility for different users.
- Maintain time format and time zone for three different systems

8.3 Process Owners

- DBB – Maintainer
- DBB - FCR Maintainer
- DBB- Admin Maintainer
- DBB- Integration
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB- Admin operator
- Person on Charge

8.4 Solution Approach

AC00: delete the information (date, time and text) from the DIB integration in the field "issue description".

Salesforce backoffice solution:

> DIB to remove description and at Salesforce end we need to verify the date time removal changes done in Issue description field.

Mobile solution:

DIB to remove description and at Salesforce end we need to verify the date time removal changes done in Issue description field.

AC01: Should be deleted the label " GSI-DIB-DBB" if the comment was done in DBB

Salesforce backoffice solution:

> DIB to remove description label "GSI-DIB-DBB" if the Comments are coming from GSI or DBB.

>In Salesforce end we need to verify the "GSI-DIB-DBB" value removal changes done in Issue description field.

Mobile solution:



DIB to remove description and at Salesforce end we need to verify the date time removal changes done in Issue description field, if issue is created in DBB or in GSI.

AC02[Mobile + Back Office]: if the comments were updated in GSI or SES system should display "Comment updated by Maintenance Staff " + Timestamp of the change + Comment updated, or lines of comment added. Field "Issue" screenshot attached "Issue description.png"

Salesforce backoffice solution:

>Issue field to be updated with below data by DIB team:

>Hardcoded data as ("Comment updated by Maintenance Staff " + Timestamp of the change (user timezone)) + any value of Comment updated, or lines of comment added."

>"Issue" field to be Editable in DBB Salesforce during Creation and post creation.

Mobile solution:

the data should be sent from DIB as below

Hardcoded data as "Comment updated by Maintenance Staff " + Timestamp of the change (user timezone) + Comment updated, or lines of comment added."

created issue will not be editable in mobile

AC03: "Reported on", "Reported at" should be displayed in the correct Date format (dd-mm-YYYY If the field is date) and if the field is time should be displayed as hh:mm:ss format. Those fields should be displayed only for Admin Maintainer, Maintainer, POC in back office. No needed for FCRO, FCRM, Train driver, Crew Member, Tech Rider nor Admin Operator (community users). For "Reported By" is equal to Alstom if the notification is created in GSI, otherwise should be "DBB" & "-& Profile name who created the issue (for example: DBB-FCR Maintainer) in this case the reported by field is not sent to GSI

Salesforce Backoffice solution:

- "Reported on" and "Reported at" date field is a free text field in DBB should follow the timestamp format as dd-mm-YYYY hh:mm:ss in SF backoffice as UTC, however for DBB front end it will be displayed as User timezone. Once we send the data to DIB - DIB will convert into CET and send it to GSI. Similarly, when DIB receives CET date data from GSI, DIB will send the CET data to DBB and DBB will convert the date data into UTC (SF backoffice), however for DBB front end it will be displayed as User timezone.
- POC, Admin Maintainer, Maintainer should be allowed to view the "Reported on", "Reported at" and "Reported by" fields.
- FCRM, FCRO, Train driver, Crew Member and Admin Operator users should not display the field as mentioned.



- The "Reported By" field will be displayed as "Alstom", if the notification is created in GSI and if the notification is not created in GSI then the value in the "Reported by" field to be updated as "DBB- " + Profile name of logged in user.

Mobile solution:

- On the mobile Create Issue/Event screen, the fields 'Reported on' and 'Reported at' are the same; however, only 'Reported on' will be displayed in the UI with the user's time zone format dd-mm-YYYY hh:mm:ss
- The 'Reported by' field will display 'DBB-Profile Name,' and all the mentioned fields should be included in the case request object creation

AC04: Notification creation timestamp is different in GSI compared with issue creation in DBB INC4814292 -. The issue should be fixed for all timestamp between GSI-DBB: Required start/End date, Malfunction start /Malfunction End, "Reported on", "Reported at", etc

Salesforce Backoffice solution:

- Please note that the incident is created and it is to be implemented by RUN time.
- Timestamp to be mapped and maintain the Users timezone for viewing purpose.
- The format should be maintained as dd-mm-YYYY hh:mm:ss for all the date fields required start/End date, Malfunction start /Malfunction End, "Reported on", "Reported at", etc.
- If the request creation happens in GSI - GSI will track the user timezone, however CET timezone will be shared with DIB

(Below information to be updated as the topic is TBD)

(DIB will send the CET time zone to DBB

Here, DBB will receive data in CET and convert it into UTC however, DBB will show user timezone on frontend

Ex: if issue is created by CET user in GSI and user in DBB from BST timezone views this issue, the issue date time value should reflect in BST timezone.

During issue creation DBB should be aligned with timezone of user, DBB will convert into UTC and send it to DIB

DIB will convert UTC into CET and send it to GSI

GSI will store back as CET and show frontend user the users timezone.)

Mobile solution:

AC04[Mobile]



GSI and DBB should be aligned for time stamp required Malfunction start /Malfunction End date, "Reported on" etc.

DBB will show Users timezone format for viewing purpose.

The format should be maintained as dd-mm-YYYY hh:mm:ss for all the date fields required start/End date, Malfunction start /Malfunction End, "Reported on" ,etc

Flow 1: DBB will keep track of the user's time zone and send it to SF BackOffice, which will convert it to UTC and forward it to DIB. DIB will change it to CET and send it to GSI.

Flow 2: GSI creates an issue in User timezone, converts it into CET to send it to DIB.

DIB will send the CET to SF Backoffice and DBB Backoffice will convert CET into UTC.

However, This DBB frontend App will convert UTC format to user time zone with dd-mm-YYYY hh:mm:ss

AC05: If the malfunction start is empty in DBB then this should be empty in GSI (bidirectional interface)

Salesforce Backoffice solution:

Issue Creation Scenario: In DBB-When any ISSUE is created with malfunction start date empty, GSI will update the date as Creation date. hence Malfunction start date will be issue creation date in DBB and in GSI also and vice versa.

Update Scenario: Data updated in "Malfunction start date" in DBB salesforce should update back in the GSI system. If the date is entered manually in DBB then GSI should be updated with the new date. If date is made empty manually in DBB, then in GSI Malfunction the start date should be empty. If the date is entered from GSI, then DBB should display that date. The last update in this field should be determined by the latest date and time.

Mobile solution:

Issue Creation Scenario: In DBB-When any ISSUE is created with malfunction start date empty, GSI will update the date as Creation date. hence Malfunction start date will be issue creation date in DBB and in GSI also and vice versa.

Update Scenario: Data updated in "Malfunction start date" in DBB salesforce should update back in the GSI system. If the date is entered manually in DBB then GSI should be updated with the new date. If date is made empty manually in DBB, then in GSI Malfunction the start date should be



empty. If the date is entered from GSI, then DBB should display that date. The last update in this field should be determined by the latest date and time.

Updates made to the Malfunction Start field in DBB will be reflected in GSI.

Updates made to the Malfunction Start field in GSI will be reflected in DBB.

8.5 Screenshots (Samples)

The screenshot shows the ALSTOM Digital Board Book (DBB) interface. At the top, there is a header with the ALSTOM logo, the text "Under Maintenance", a train icon, and a dropdown menu showing "DELNVGX554005 - C_LNNG 00". Below the header, there are several input fields for creating a new event:

- GPS location:** 37.7858, -22.4064
- Priority***: Operator
- Impact On Service***: Select
- Station or section list:** Apensen
- Problem***: Error Empty List
- Safety affecting**:
- Malfunction Start**: 26-05-2025, 12:58:02 pm
- Malfunction End**: 26-05-2025, 12:58:02 pm
- Error Code Train Display**: Enter will come here
- Support Hours**: Support hours number will come here
- KM Repair**: KM repair number will come here
- Maintenance feedback**: Enter feedback

At the bottom right of the form, there is a "Save" button.



12:58 PM Mon May 26

Under Maintenance

DEINVGX554005

100%

ALSTOM

DIGITAL BOARD BOOK 1.0.7 (2)

Last update 26/05/26 12:57

New Event

LNVG Mainta... Online Maintenance ? Power

GPS location: 37.7658, -122.4066
Priority: **Awareness:**
Operator: Problem **Station or section:** Test
Impact On Service: Safety affecting **Withdrawal at Next Station:**

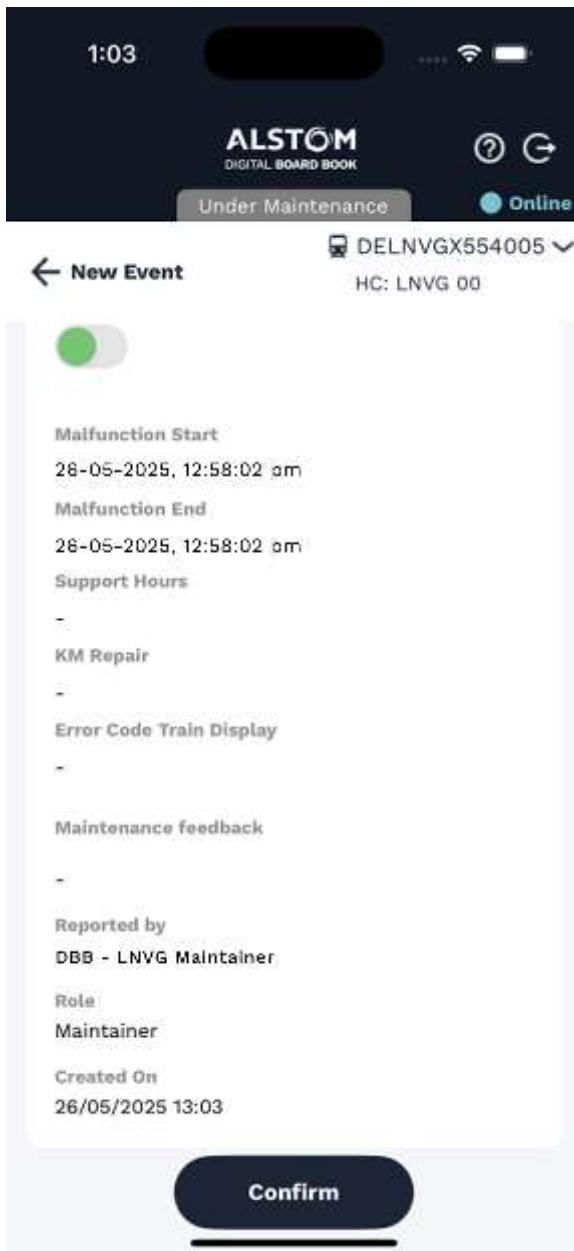
Malfunction Start: 26-05-2025 12:58:02 pm **Malfunction End:** 26-05-2025 12:58:02 pm **Error Code Train Display:**

KM Repair:

Maintenance feedback:

Reported by: DBE - LNVG Maintenance **Role:** Maintainer **Created On:** 26/05/2025 12:59

Confirm



8.6 Assumptions/Risks

9 DBB-611 Field "Oper. Mode Coding" to be updated in DBB

9.1 Business Process Description

New Picklist values added with Description on “Oper mode Coding field” on request depending on open mode code group on DBB projects



9.2 Detailed Process Requirements

- The “Oper mode coding” field should display list of code with description for user to select any values
- During Request creation if the “Oper mode Coding” picklist field left empty, then picklist value should be defaulted on issue creation action based on oper mode code group defined on Project level and train status on asset.
- However, if any value is selected on “Oper mode Coding” picklist field during Request creation, the selected picklist value should be displayed on issue created layout irrespective of any oper mode code group defined on DBB project level and any train status on asset.
- The user will view the “Oper mode coding” picklist value according to the locale of the logged in user.
- In Mobile app, same feature to be expected as above in the field called “Oper mode”

9.3 Process Owners

- DBB - Maintainer
- DBB - FCR Maintainer
- DBB - Admin Maintainer
- DBB - Integration
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on Charge

9.4 Solution Approach

AC00 [Mobile + Back office]/ This field should be displayed on the issue creation page in DBB with all values listed in GSI with code + Description and translation need to applied

For a request from GSI , the field "oper mode coding " in DBB should have the same format as listed below

Salesforce solution:



- On the Issue creation page, the "Oper mode coding" field will display the following picklist values for Rolling Stock Group ATRSMP01 (Code + description):
 - 0010 Inservice - Autodriving
 - 0015 Inservice - Manual driving
 - 0020 Takeover by Driver
 - 0030 Shunting
 - 0040 Maintenance
 - 0050 Stabled
 - 0060 Tests
 - 0070 Modification
 - 0080 Before Acceptance
- For Infrastructure Group ATINFMP1, the "Oper mode coding" field will contain these values:
 - 0010 In Service Operation
 - 0020 Alstom Corrective
 - 0030 Alstom Preventive
 - 0040 Alstom Test
 - 0050 Project Work
- DBB will display translated values for users based on their respective language settings (user profile and locale)
- .
- GSI values will synchronize with DBB values in all translated versions, as per the attached translation sheet.

For correct mapping:

- GSI will receive the "Oper mode code group" (Rolling Stock or Infrastructure) and only code from picklist value of "Oper mode coding" from DBB (without description).
- DBB Salesforce will also receive the "oper mode Code group" and only code picklist value from "Oper mode coding" in DBB (without description).



- DBB Salesforce will retrieve the code + description and display it in the front-end request layout (code + description together).
- The DIB team will not transform data within the DIB system. No logic updates will be maintained in DIB. It will only facilitate data transmission between GSI-DIB-DBB and DBB-DIB-GSI (Oper mode code group and code without description).
- Since "Oper mode coding" is optional field during Issue creation, users will not be required to select a picklist value; however, the system will default the value based on the train status.

Mobile solution:

- On the event creation page, the "Oper mode " field will display picklist values (Code + Description) for Rolling Stock Group (ATRSMP01) and Infrastructure Group (ATINMP01) as explained above in AC04.
- Since "Oper mode " is optional, users will not need to select a value during event creation.

AC001: [Mobile + Back office]/ a bidirectional interface should be remain as requested in DBB-512

Salesforce Backoffice +Mobile Solution:

- If "Oper mode coding" value is selected during Issue creation or update in DBB, it will automatically update in GSI.
- Similarly, if the value is selected in GSI, it will reflect in DBB under the "Oper mode coding" field according to the latest update.

AC02: [Mobile + Back office]: This field should be populated automatically based on the train status (operation code mode group) during the issue creation, and editable after issue creation by FCRM

If the train Status Operation Mode code group is Under Maintenance or Vehicle Ready then the values is automatically populated for Request Object during Issue creation only with the value/ code Operation Mode coding for Maintenance in the DBB project

If the train Status Operation Mode code group Vehicle Ready for Operation then the values is automatically populated for Request Object during Issue creation only with the value 0030 Shunting if the Mode code group is ATRSMP01 and 0030 Alstom Preventive IF

Mode code group is ATINMP01 Infrastructure Operation Mode



If the train Status Operation Mode code group is Under Commercial Service then the values is automatically populated for Request Object during Issue creation only with the value/ code Operation Mode coding for Commercial Services in the DBB project

However, can be change the value pick list during issue creation by any user creating the issue and after issue creation, the value can be editable only by FCRM

Salesforce Backoffice Solution:

- If a user selects a picklist value in "Oper mode coding" during Issue creation, the system will display the Issue record with the selected value.
- However, if no value is manually selected during Issue creation, the "Oper mode coding" field will display a value post Issue submission based on train asset status and Oper mode code group-defined in DBB project.

For Rolling Stock (ATRSMP01):

Under Maintenance --> 0040

Vehicle Ready --> 0040

Vehicle Ready for Operation --> 0030

Under Commercial Service --> 0010 (For all other projects) or 0015(For DSB)
according to DBB project defined data

For Infrastructure (ATINFMP1):

Under Maintenance --> 0040 Alstom Test

Vehicle Ready --> 0040 Alstom Test

Vehicle Ready for Operation --> 0030 Alstom Preventive

Under Commercial Service --> 0010 or 0020 or anything according to DBB project defined value

- Only FCRM will be allowed to edit the "Oper mode coding" field after Issue creation, with the following permitted values:

For Rolling Stock (ATRSMP01):



0010 Inservice - Autodriving

0015 Inservice - Manual driving

0020 Takeover by Driver

0030 Shunting

0040 Maintenance

0050 Stabled

0060 Tests

0070 Modification

0080 Before Acceptance

For Infrastructure (ATINFMP1):

0010 In Service Operation

0020 Alstom Corrective

0030 Alstom Preventive

0040 Alstom Test

0050 Project Work

Mobile Solution:

- If user did not select any oper mode picklist value manually, then post event submission the "Oper mode " field will display data according to asset status and oper mode code group. These values (code +Description) will be fetched from SF Backoffice.
- During issue creation -if a user selects a picklist value in "Oper mode ", then the selected value (Code+ description) will be displayed in event list post creation. t

For Rolling Stock (ATRSMP01):

Under Maintenance --> 0040

Vehicle Ready --> 0040

Vehicle Ready for Operation --> 0030



Under Commercial Service --> 0010 (for all other projects) or 0015(For DSB project)
according to DBB defined data

For Infrastructure (ATINFMP1):

Under Maintenance --> 0040 Alstom Test

Vehicle Ready --> 0040 Alstom Test

Vehicle Ready for Operation --> 0030 Alstom Preventive

Under Commercial Service --> 0010 or 0020or anything according to DBB project
defined value

- None of the users can edit the value once the issue is created in mobile

AC03: "Operation mode coding" on Issues created previous a change on the Oper Mode Code Group in the Asset should NOT be updated

Salesforce Backoffice + Mobile Solution:

- Once an Issue is created, the already selected "Oper mode coding" values will be saved on issue record and it will not update automatically, even if the asset status changes or anyone update the values in "Under maintenance"field and "Under Commercial service"field of DBB project post issue creation
- Changes of values on "Under maintenance"field and "Under Commercial service"field in DBB project or asset status will only impact newly created Issues and will not affect existing Issues.

AC04: [Mobile + Back office]:System to show values based on the Oper Mode Code group defined for the project, like this:

ATRSMP01 Rolling Stock Operation Mode:

Oper. Mode Coding & Description :

For group ATRSMP01 : Oper. Mode Coding should have values used by current projects as LNVG, RMV, BaWu, Dosto...

0010 Inservice -Autodriving

0015 Inservice- Manual driving



0020 Takeover by Driver
 0030 Shunting
 0040 Maintenance
 0050 Stabled
 0060 Tests
 0070 Modification
 0080 Before Acceptanceas in screenshot attached

For group ATINFMP1 : Oper. Mode Coding should have values

ATINFMP1 Infrastructure Operation Mode

0010 In Service Operation
 0020 Alstom Corrective
 0030 Alstom Preventive
 0040 Alstom Test
 0050 Project work

Salesforce Backoffice + Mobile Solution:

- All users will display with all picklist values for “oper mode coding” selection during issue creation only.
- . In the update scenario, all values will be visible only to the FCRM user, allowing him to update the 'Oper Mode Coding' field based on the predefined Oper Mode Code Group
- If FCRM makes changes on issue record, the updated values will be displayed to all users(with view-only permission) in the "Oper mode coding" field
- During Issue creation, the system will show values based on the Oper Mode Code group for the project.

For Rolling Stock (ATRSMP01):

0010 Inservice - Autodriving
 0015 Inservice - Manual driving



0020 Takeover by Driver

0030 Shunting

0040 Maintenance

0050 Stabled

0060 Tests

0070 Modification

0080 Before Acceptance

For Infrastructure (ATINFMP1):

0010 In Service Operation

0020 Alstom Corrective

0030 Alstom Preventive

0040 Alstom Test

0050 Project Work

- All users will see the translated values as per the Translation Excel Sheet according to logged in user profile and locale.

AC05: FCRO, Train Driver, Maintainer, FCRM should be able to see this field in Mobile(all users)

Salesforce Backoffice Solution:

This is only for mobile scope as stated below.

Mobile Solution:

- "Oper mode" will be visible to all users on mobile.
- Currently "Oper mode" is visible only for Operator

9.5 Screenshots (Samples)



10:28 Under Commercial Service TM11 - UKCS01
 ALSTOM Last Update 11/04/23, 15:08 1528 - UKCS02
 DIGITAL BOARD BOOK 1.4.3 (4) 1916 - UKCS03
 Train Manager D. Manager online ? Power

New Event

Select Create Review Confirmation

Create Issue
 (*) mandatory fields

Type* LBS*
 Select UKCS01 > CS MKV - Sleeping Car > En Suite Berth > Access Door > Coat Hooks

Take/Upload a Photo or Video*
 Select

GPS Location
 19.4693, 72.8003

Description
 Enter a title

Priority* Station or section list Station or section
 Select Select Enter station/section name

Impact On Service* Problem* Safety Affecting
 Select Select On

Malfunction Start Malfunction End Error Code Train Display
 23-06-21, 03:41 PM 23-06-21, 03:41 PM Error code will come here

Category Open Mode
 Select 0010 Inservice - Autorevive

Save as Draft & Exit **Next**



12:14

ALSTOM DIGITAL BOARD BOOK

Under Commercial Service Online

DKEMUIC5-01 HC: HC01

New Event

Malfunction Start

Malfunction End

Oper Mode

0010 Inservice - Autodriving

Error Code Train Display

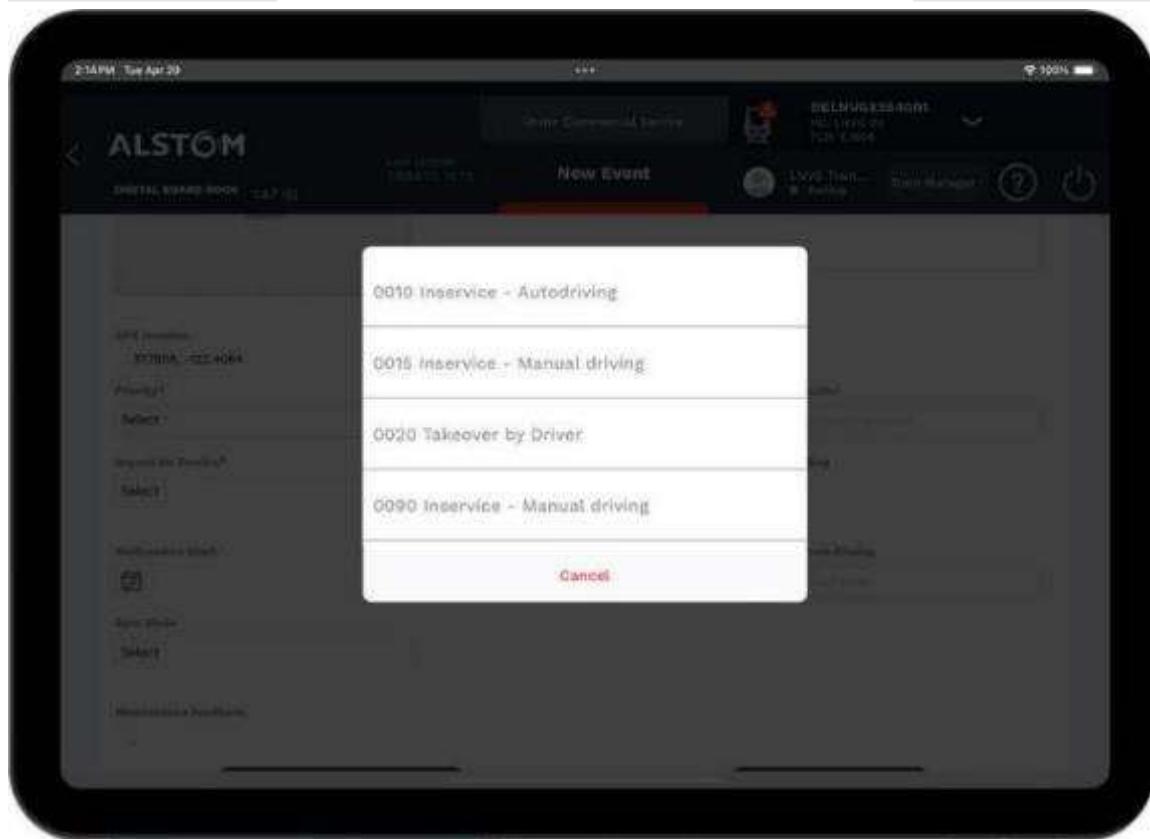
Error will come here

Maintenance feedback

Save as draft and Exit

NEXT





Salesforce Backoffice :

DBB Project LNVG	
▼ Maintenance	
Oper. Mode Coding 0040	✎ Oper. Mode Code Group ATRSMP01
▼ Commercial Services	
Oper. Mode Coding 0010	✎ Oper. Mode Code Group ATRSMP01

New Request: DBB - Issue

ISSUE INFORMATION

Status

--None--

Request Record Type

DBB - Issue

Asset

Search Assets...



Functional Location

Functional Location Description

Car Impacted

None

0010 Inservice - Autodriving

0015 Inservice - Manual driving

0020 Takeover by Driver

0030 Shunting

0040 Maintenance

0050 Stabled

0060 Tests

0070 Modification

0080 Before Acceptance

Date	Time
<input type="button" value=""/>	<input type="button" value=""/>

End Deviation

Date Time

Date	Time
<input type="button" value=""/>	<input type="button" value=""/>

Repair End Date

Date Time

Date	Time
<input type="button" value=""/>	<input type="button" value=""/>

Master Ticket

Search Requests...	<input type="button" value=""/>
--------------------	---------------------------------

KM Repair

--

Support Hours

--

Contractual Checkbox

9.6 Assumptions/Risks

10 DBB-2338: Colors for specific columns in request list

10.1 Business Process Description

New “Status Color” field to be added in Request to display different color based on different combination of status, etc.

10.2 Detailed Process Requirements

- For Community and Service cloud Users New “Status Color” field to be added in Request to display different color based on different combination of request status, Tech Status, Impact on Service, Safety affecting, etc.
- For any case if the combination does not match with defined values, the user will be shown as no color in the status color

10.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB - Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on charge

10.4 Solution Approach

AC00: Alstom color pallet should be used (attachment ALSTOM_COLOURREFERENCES_CMYK for print)

AC01: Possibility to add a color column " Status Color" on the Request List View for community and Service Cloud users, color logic based on the following logic (all the conditions with the logic "AND")

request status "open", Tech Status "approved", Impact on Service "Rescue", Safety affecting "ticked"-> RED (C 0 – M 95 – Y 100 – K 0)



request status "open", Tech Status "approved", Impact on Service "Withdrawal at next station" -> (C 0 – M 57 – Y 48 – K 0)

request status "open", Tech Status "approved", Impact on Service "Withdrawal at end of commercial day" -> (C 0 – M 22 – Y 12 – K 0)

request status "open", Tech Status "approved", Impact on Service "Comfort affected" -> GREEN (C 90 – M 0 – Y 90 – K 0)

request status "open", Tech Status "approved", Impact on Service "No impact" -> No color

request status "closed" or Tech Status "confirmed">> No color

For any case not fitting on the logics above > No color

Salesforce Backoffice Solution:

- A new "Status Color" field will be created to display the colored image on Request record.
- Request List View for community and Service Cloud users will display the new column on List view as "Status Color".
So the columns to be displayed for DBB DSB Alle Ereignisse list view are: Train Name, Car Equipment, date /Time opened, Title, Serial Number, Request Number, Notification Number, Service Order number, Status , Reliability Status, Impact on service, Operational Hours, Real Mileage , Oper mode coding, Status Color
Note other Alle Ereignisse list view for different project will be different according to current existing settings.
- Using Formula field where respective color will be displayed in "Status Color" as per the defined validation below:

Request Status	Tech Status	Impact on Service	Safety Affecting	Status Color	CMYK Code
Open	Approved	Rescue	Ticked	Red	C 0 – M 95 – Y 100 – K 0
Open	Approved	Withdrawal at next station	—	—	C 0 – M 57 – Y 48 – K 0

Open	Approved	Withdrawal at end of commercial day	—	—	C 0 – M 22 – Y 12 – K 0
Open	Approved	Comfort affected	—	Green	C 90 – M 0 – Y 90 – K 0
Open	Approved	No impact	—	No color	—
Closed	Any	Any	—	No color	—
Any	Confirmed	Any	—	No color	—
Any	Any	Not matching above conditions	—	No color	—

AC02: Add the Status color to the view Alle Ereignisse, however this field should be available to be selected to added in the view for any view

- In the Request list view labelled as “Alle Ereignisse” will only add the column with “Status colour”
- User will be allowed to add the column “Status Colour” to any request list view

10.5 Screenshots (Samples)

ID	Type	Status	Status Colour	Request Owner Color
00001101	DBB-Demo-Feld-Ereignisse-Offen	Test	Approved	DBB - Test-Demoprojekt (DBB)
00001102	DBB-Integration	Open	Approved	DBB - Integration
00001103	DBB-Integration	Open	Approved	DBB - TCR-Demoprojekt (TCR)
00001104	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001105	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001106	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001107	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001108	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001109	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001110	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001111	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001112	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001113	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001114	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001115	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001116	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001117	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001118	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001119	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001120	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001121	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001122	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001123	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001124	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)
00001125	DBB-Integration	Open	Approved	DBB - PGR-Demoprojekt (PGR)

10.6 Assumptions/Risks

11 DBB-1852: message to make the handover without VR

11.1 Business Process Description

Warning message for user if Handover process is complete without VR.

11.2 Detailed Process Requirements

- For Mobile User the Maintainer Handover process and Operator Handover process if used in Hamburger view then the warning message to pop up indicating the “are you sure? You are making a Handover without link with any Vehicle Stop” on tapping of Drawer/Bottom navigator item Operator Handover and Maintainer Handover . This warning message to be displayed only if VR is not added, if VR is already available in Handover record the warning message should not be displayed to mobile users.
- In Salesforce DBB- only helptext to be added next to Vehicle Return field for Maintainer Handover and Operator Handover DBB process as “Add a VR Id to link with this Handover” This helptext will be displayed even if VR is added or not added in the Handover record.

11.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB – Integration
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on charge

11.4 Solution Approach

AC00: Once the driver is initiating Maintenance Handover without VR, the user should be notified " are you sure? You are making a Handover without link with any Vehicle Stop"

SF Solution:



- This requirement to display the confirmation message which is not Feasible on Salesforce on “Save” button action, however when user will initiate the Maintenance Handover- DBB process, DBB SF will add a helptext next to the Vehicle Return field as “Add a VR Id to link with this Handover” as shown below.
- This helptext will be displayed on the Vehicle Return field in DBB process under Operator Handover and Maintainer Handover page layout
- This helptext will be displayed even if VR is added or not added in the above two Handover process record.

Mobile Solution

- If mobile users using Hamburger Menu tapping Maintainer Handover option and continue without VR, the Alert popup will be displayed once the operator initiating Maintenance Handover without VR the user should be notified " are you sure? You are making a Handover without link with any Vehicle Stop"
- This warning message to be displayed only if VR is not added, if VR is already available in Handover record the warning message will not be displayed to mobile users.

AC01: Once the Maintainer is initiating Operator Handover without VR for Operator Handover Process, the user should be notified “are you sure? You are making a Handover without link with any Vehicle Stop”

SF Solution:

- This requirement to display the confirmation message is not Feasible on Salesforce , However in Handover- DBB process, SF will be adding a helptext next to the Vehicle Return field as “Add a VR Id to link with this Handover” as shown below.

Mobile Solution

- If mobile user using the Hamburger Menu tapping Operator Handover option and continue without VR, the Alert popup should be shown once the Maintainer initiating Operator Handover without VR the user should be notified " are you sure? You are making a Handover without link with any Vehicle Stop"

AC02 Help text for back office solution is needed

Already added above in AC00 and AC01 to cover this requirement.

11.5 Screenshots (Samples)



The screenshot shows the ALSTOM Digital Board Book software interface. At the top, there is a header bar with the ALSTOM logo, the text "Under Commercial Service", and various status indicators like "Last update 20/04/25 15:34", "Maintainer Handover", and "Train Manager". A battery icon shows 100%. Below the header, a large central area displays the text "No Maintainer Handover to confirm". Overlaid on this is a smaller "Warning" dialog box containing the message: "Are you sure? You are making a Handover without link with any Vehicle stop." At the bottom of the dialog are two buttons: "No" and "Yes". In the background, there are several UI elements: a "Select Depot" dropdown set to "EVB Am Bahnhof Süd 3 27432 Bremervörde", a "REFRESH" button, and a navigation bar with icons for "Documents", "Tag In", "Tag Out", "Home Page", "Operator H.", "Maintainer H.", "Checklist", and "Passenger".



The screenshot shows a mobile application interface for ALSTOM's Digital Board Book. At the top, there is a header bar with the ALSTOM logo, the text "Under Commercial Service", and a battery icon indicating 100% charge. Below the header, the main screen displays a "Maintainer Handover" section. A prominent warning dialog box is overlaid on the screen, containing the following text:

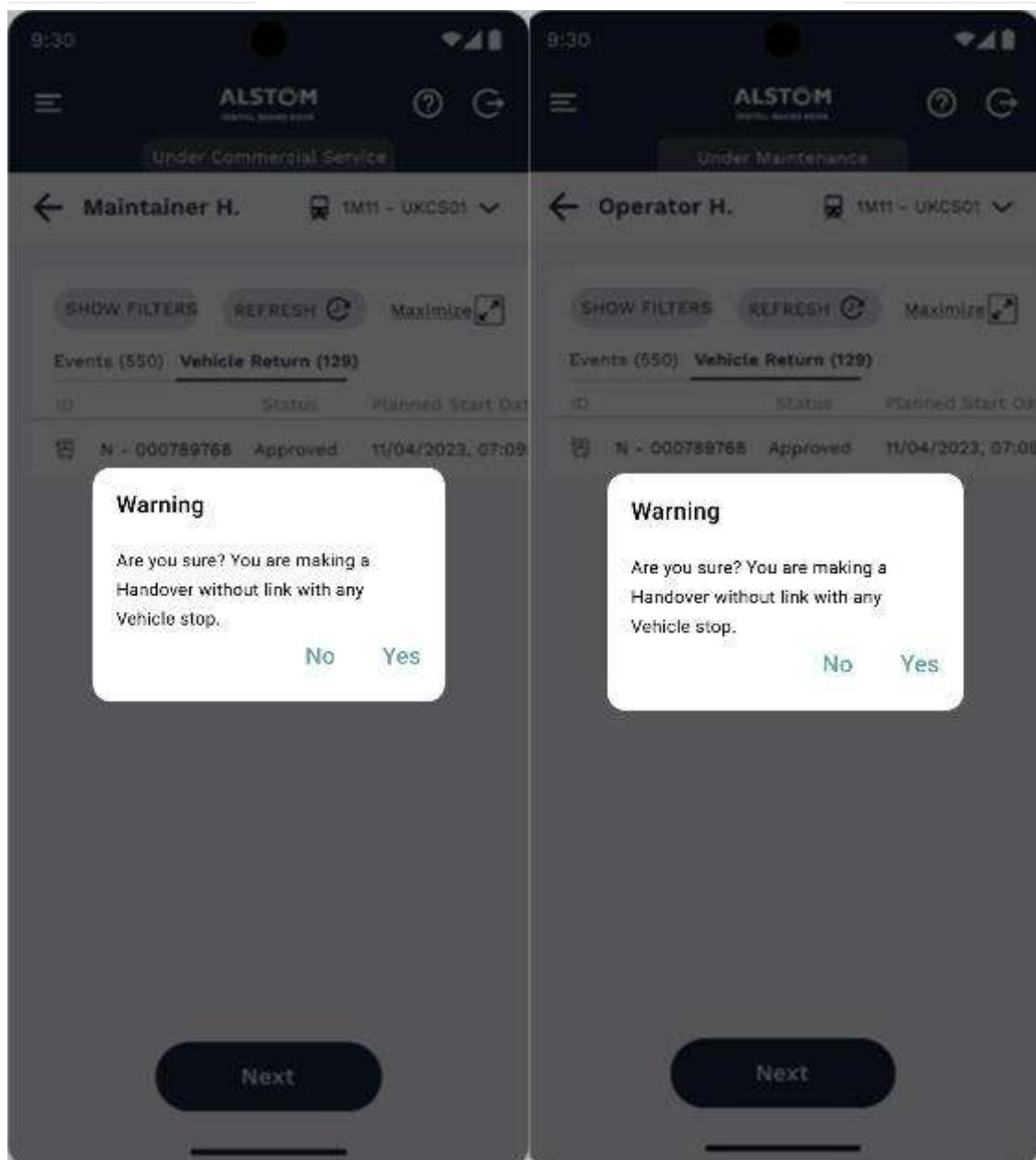
No Operator assigned to confirm

Warning

Are you sure you are asking the Maintainer to take over with no operator assigned?

[No](#) [Yes](#)

Below the dialog, there is a "Select Depot" dropdown set to "DVB Am Bahnhof Süd 3 27432 BremerVörde". A large "REFRESH" button is centered at the bottom of the screen. At the very bottom, there is a navigation bar with several icons: Documents, File, Help, Log Out, Settings, Download, Information, Overview, and Logout.



Please note -Attached above is Mobile Warning Message is “are you sure ? You are making an Handover without link with any Vehicle Stop”

and shown below is the backoffice Salesforce helptext content as “Add a VR Id to link with this Handover” which will be displayed for DBB process:

- Operator Handover
- Maintainer Handover

Energy Consumption (Unit : kWh)

Total Mileage

Energy Recovery (Unit : kWh)

DBB Process Client

LNVG

[View all dependences](#)

Depot

--None--

[View all dependences](#)

Operator(Company)

EVB Elbe Weser

[View all dependences](#)

Add a VR Id to link with this Handover

Vehicle Return





Cancel
Save & New
Save

11.6 Assumptions/Risks

12 DBB-2728: default value for pick list in mobile and Backoffice + Priority by client no mandatory field

12.1 Business Process Description

For all users, Priority by client, impact on service and category fields to be made optional for request object.



12.2 Detailed Process Requirements

- For all users the "Priority by Client", "Impact on Service" and "Category" field will be optional for Request object and can editable during or post Issue Creation.
- These three fields will be mapped with GSI system, if DBB adds any value in the above three fields, that value will be updated in GSI also. Although If DBB has empty value then GSI will also be empty for these fields.

12.3 Process Owners

- DBB - Maintainers
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB- Integration
- DBB- Crew Member
- DBB - Train Manager/Driver
- DBB - FCR Operator
- DBB - Admin Operator
- Person on charge

12.4 Solution Approach

AC01: [In mobile] For all users "Priority By Client", "Impact On Service" "Category" should be non-mandatory. neither mandatory to create a notification in GSI (including the logic for CS to auto-approve issues) (for DBB issue type + Operational Information)

Solution Approach for SF Backoffice:

- SF solution part is available in AC02

Mobile Solution

- Category field will be visible only for FCRM/FCRO and will be non-mandatory during issue creation
- For all mobile users "Priority By Client", "Impact On Service" are non-mandatory during request creation of record type- DBB- Issue and DBB-Operational Information
- These above three fields will be updated as non-mandatory on GSI side so GSI-DIB-DBB should be aligned and vice versa as data on these three fields if updated in DBB should be aligned between three systems also as DBB-DIB-GSI

AC02: [Backoffice] For ALL roles (Train Driver, crew member POC Maintainer "tech rider" FCRO FCRM ...): "Priority By Client" and "Impact On Service" and "Category" should be non-mandatory(for DBB issue type + Operational Information)



Salesforce Backoffice Solution:

- During Issue creation these three fields: "Priority By Client", "Impact On Service" and "Category" will be non-mandatory, and it will be controlled by Page layout level in SF for all profiles as mentioned in Process owner section.
- This is applicable only for two request types: DBB-Issue and DBB-Operational Information
- These above three fields will be updated as non-mandatory on GSI side so GSI-DIB-DBB should be aligned. Similarly for DBB system, all three fields should be non mandatory and when data is saved in DBB all three system should be aligned DBB-DIB-GSI.

AC03: for updates the rights should be kept as today

Salesforce Backoffice + Mobile Solution:

- All the existing rights for making updates should be retained, hence post Issue creation the "Priority By Client", "Impact On Service" and "Category" fields will be non-mandatory and editable to SF for all profiles as mentioned in Process owner section.

Profile for Backoffice	Impact On Service	Category	DBB Priority By Client
DBB-Admin Maintainer	Editable	Editable	Editable
DBB - Admin Operator	Editable	Editable	Editable
DBB - Crew Member	Editable	Editable	Editable
DBB - FCR Maintainer	Editable	Editable	Editable
DBB - FCR Operator	Editable	Editable	Editable
DBB - Kestrel	Editable	Editable	Editable
DBB - Maintainer	Editable	Editable	Editable
DBB - Person on Charge	Editable	Editable	Editable
DBB - Tech Rider	Editable	Editable	Editable
DBB - Train Manager Driver	Editable	Editable	Editable

Profile for Mobile	Impact on Service	Category	Priority by Client
DBB-FCRM	Editable	Editable	Editable
DBB FCRO	Editable	Editable	Editable
DBB ADM Maintainer	NA	NA	NA



POC	Editable	Not Visible	Editable
DBB ADM Operator	NA	NA	NA
DBB Maintainer	Editable	Not Visible	Editable
DBB Tech Rider	Editable	Not Visible	Editable
DBB Train Manager Driver	Editable	Not Visible	Editable
DBB Crew Member	Editable	Not Visible	Editable

AC04: DBB-1756 test cases should be still validated :

Salesforce Backoffice Solution:

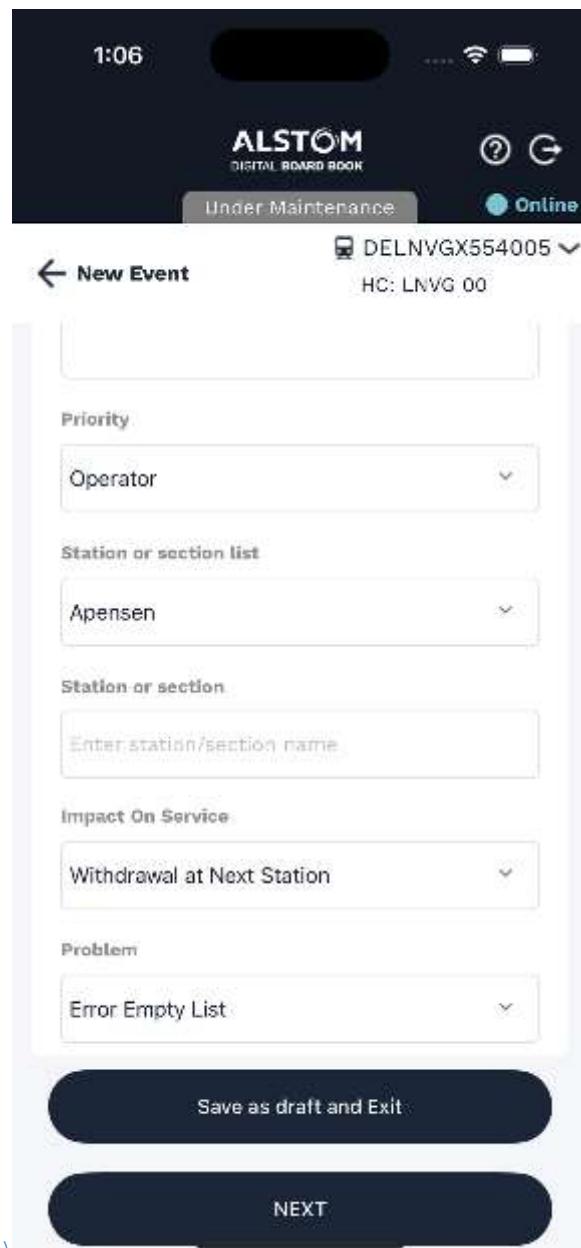
- For DSB projects -Existing scenario when Request is created in DBB, the DBB problem and Category picklist should follow the same behavior as earlier which is when the DBB problem has a default Category mapped then the category is populated automatically, and issue is created. However, if the DBB problem does NOT have any mapped category to it then even if the category is empty user still will be allowed to save the issue.
This information of DBB problem is mapped with default category is mentioned in object named- DBB default category.
This saved DBB request will be send to GSI()when Tech_status is approved) and map all the field value from DBB –DIB- GSI as described above
- For other projects -: DBB problem does not have any Category mapping according to the existing functionality. So user should be able to create a request with DBB problem(Mandatory) but without Category value.Hence only DBB problem will go to GSI without Category.

Mobile Solution:

- Category Field will be visible but not editable for FCRO/FCRM and flow remains same as 1756 category field will be mapped with problem field
- Category value will be non-mandatory for FCRM/FCRO will be able to create an issue

Added Test scenarios when GSI send the Request notification to DBB as shown below:

Scenario If Notification is created in GSI	GSI		DBB		Comments
	DBB problem	Category	DBB problem	Category	
GSI notification sending Both DBB Problem and Category	Prob 1	Category 1	Prob 1	Category 1	Existing Scenario working as expected where GSI sent values both DBB problem and Category are mapped in Request of DBB Salesforce
GSI notification sending only DBB Problem and not Category	Prob 1	Not sent	Prob 1	No category	Scenario 1: when GSI sends only DBB problem and if DBB problem does not have any existing mapped Category then Category in Request will be empty in DBB Salesforce.
			Prob 1	any DBB mapped Category	Scenario 2: when GSI sends only DBB problem and if DBB problem have any existing mapping with Category then that mapped Category in Request will be displayed in DBB Salesforce.
GSI notification sending only Category without DBB problem	Not sent	Category 1	NA	NA	This will not generate any Request in DBB.(This part of story will be handled in 1806)



12.5 Screenshots (Samples)



11:10 PM, Mon May 25

Under Maintenance

DELNVGX554005
LOC: LNVC 00

New Event

DIGITAL BOARD BOOK 1.2.7 (5)

Type: Incorrect operation Status: Draft LBS: DELNVGX554005 + DELNVGX554005-LINT-IL

Take/upload a photo or a video.

Title: test

Description:

GPS location: 37.7858, -122.4064

Priority: Unknown **Station or section list:** Herschel **Station or section:** -

Impact On Service: Problem **Safety affecting:** Safety affecting

Comfort Affected: -

Malfunction Start: 26-05-2025, 12:58:02 pm **Malfunction End:** 26-05-2025, 12:58:03 pm **Error Code Train Display:** -

Support Hours: KM Repair

11:10 PM, Mon May 25

Under Maintenance

DELNVGX554005
LOC: LNVC 00

New Event

DIGITAL BOARD BOOK 1.2.7 (5)

GPS location: 37.7858, -122.4064

Priority: Operator **Station or section list:** Apensen **Station or section:** Test

Impact On Service: Select **Safety affecting:** Error Empty List

Malfunction Start: 26-05-2025, 12:58:02 pm **Malfunction End:** 26-05-2025, 12:58:03 pm **Error Code Train Display:** Error will come here

Support Hours: KM Repair **KM repair number will come here:** KM repair number will come here

Maintenance feedback:

Enter feedback:

12.6 Assumptions/Risks

13. DBB-1615: Functional Location Update Process

13.1 Business Process Description

The system will manage the functional location updates for vehicle orders (VO) based on the status of the vehicle return (VR).

13.2 Detailed Process Requirements

- Vehicle Order Management:
 - If the functional location is updated in draft status, the previous VO must be manually deleted by the user.
 - A new VO relevant to the updated functional location must be selected.
- Validation and Error Handling:
 - If the functional location is modified in any status other than draft, an error message should be displayed: "Functional location cannot be modified at this stage."
 - A validation named Funcational_Location_Not_Change will be implemented to enforce this rule.

13.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB - Admin Operator
- Person on Charge

13.4 Solution Approach

- AC00: Functional location should be read-only for all statuses except draft.
- AC01: In draft status, if the functional location is updated, the previous VO must be manually deleted by the user, and a new VO relevant to the updated functional location must be selected.
- AC02: For all statuses except draft, if the functional location is modified, an error message should be displayed: "Functional location cannot be modified at this stage."



- This will be enforced by the validation named Functional_Location_Not_Change

13.5 Screenshots (Samples)

1. When the status value is Closed, attempting to edit the functional location value and then clicking the save button results in an error message. This is because the functional location value can only be updated when the status is in Draft.

The screenshot shows a vehicle return form for VR-0000538. The status is set to 'Closed'. A modal dialog box titled 'We hit a snag.' appears, stating 'Review the following fields' and highlighting 'Functional Location'. The functional location field contains 'DELVNGD054003' and has a red error message below it: 'Functional location cannot be modified at this stage'. Other fields visible include 'Confirmation by FCRO' (date 06/03/2025, time 13:21), 'Vehicle Ready for Operation Timestamp' (date 06/03/2025, time 13:24), 'Return-to-Operation date' (date 06/03/2025, time 13:37), 'No Complaint' (checkbox checked), 'Rejection counter' (value 0), 'Sub Status' (operator handover accepted), and 'FCRO Username Who Approved' (lheinrich). Buttons for 'Cancel' and 'Save' are present at the bottom of the modal.

2. When the status value is Approved, attempting to edit the functional location value and then clicking the save button results in an error message. This is because the functional location value can only be updated when the status is in Draft.

The screenshot shows a vehicle return form for VR-0000486. The status is set to 'Approved'. A modal dialog box titled 'We hit a snag.' appears, stating 'Review the following fields' and highlighting 'Functional Location'. The functional location field contains 'DELVNGD054004' and has a red error message below it: 'Functional location cannot be modified at this stage'. Other fields visible include 'Confirmation by FCRO' (date 03/01/2025, time 06:34), 'Vehicle Ready for Operation Timestamp' (date 03/01/2025, time 06:34), 'Return-to-Operation date' (date 03/01/2025, time 06:34), 'No Complaint' (checkbox checked), 'Rejection counter' (value 0), 'Sub Status' (N/A), and 'FCRO Username Who Approved' (empty). Buttons for 'Cancel' and 'Save' are present at the bottom of the modal.

3. If the status value is Draft, the user can change the functional location value, and it will be updated.

Before updating the functional location value,

14. DBB-1231: End date must be after start date.

14.1 Business Process Description

This process ensures data integrity by validating that end dates (for malfunction, repair, and restriction requests) are not earlier than their corresponding start or creation dates.

14.2 Detailed Process Requirements

- Validation Rules:
 - Malfunction and Repair Requests:
 - End Date/Hour must be after the Start Date/Hour.
 - Error Messages:
 - Malfunction: "Malfunction end date cannot be earlier than Start date."
 - Repair: "Repair end date cannot be earlier than Start date."
 - Restriction Requests:
 - Closed Date must be after the Created Date.
 - Error Message: "Closed date cannot be earlier than Start date."

14.3 Process Owners

- DBB - Maintainer
- DBB - FCRM Maintainer
- DBB - Admin Maintainer
- DBB - Admin Operator
- Person on Charge

14.4 Solution Approach

AC00: For a request DBB Issue: Malfunction and Repair end date/hour fields must be Post the respective field start date/hour. It cannot be prior to the start date/hour.



Error Message for Malfunction Dates: "Malfunction end date cannot be earlier than Start date."

Error Message for Repair Dates: "Repair end date cannot be earlier than Start date."

AC01: For a Restriction Request, Closed date cannot be earlier than created date.

Error msg: " Closed date cannot be earlier than Start date "

14.5 Screenshots (Samples)

14.6 Assumptions/Risks

15. CHG0089079: Concessions created in GSI should flow to DBB for DSB plant.

15.1 Business Process Description

The system should allow ZC notifications to flow from GSI to DBB for DSB plant.

15.2 Detailed Process Requirements

Currently, the system is not facilitating the flow of ZC notifications from GSI to DBB. As part of CHG0089079, the system must be adjusted to allow these notifications to flow correctly. This requirement applies exclusively to the DSB project, and modifications should be implemented in DIB to restrict the functionality to DSB concessions only.

15.3 Solution Approach

DIB will utilize a standard REST API to transmit the ZC notifications to DBB.

Once the notification is received, DBB will return the concession number to GSI via the existing platform event.

An additional condition needs to be incorporated into the current process builder: if a concession is created by DIB and the DBBPEsent flag is set to false, the platform event should then be triggered.



DIB will process these updates and relay the information back to GSI.

All update scenarios need to be designed and implemented in accordance with the original design specifications.

15.4 Screenshots (Samples)

The screenshot displays a software application window with the following details:

Concession: 00001008

Other

Total Mileage	Mileage Unit
Mileage Date	Mileage Time
Incremental Mileage	
Next Planned Maintenance Date	Next Planned Maintenance Description
Next Planned Maintenance SO Number	

System Information

DoBCTech_Present	TECH_Status
<input checked="" type="checkbox"/>	
Created By	Last Modified By
DIB Integration, 2025-06-11 12:09	DIB Integration, 2025-06-11 12:09



Create Service Notification: Concession

Notification: M00000000995 [C] test
Notify: OSNO PAIT

Concession: Defined

Start/End Dates:
 Required Start: 18.06.2025 09:22:31 Priority: 44ow
 Required End: 21.06.2025 09:22:31 Available
 Revision: 2002
 Maint Act Type:

Purchase Order- and Contact Data:
 Reported by: Date: 18.06.2025 09:21:31
 PO Number: Sales Doc:

Reference object:
 Functional loc: 200M/IC5_E1 Train for IC 01
 Equipment:
 Assembly:

Subject:
 Concession: Z00N055 FAIL: Failed test criteria
 Description: test
 18.06.2025 09:22:01 (ET_0000001) SH414H (200M4107)
 Long text test

Execute document according to priority. View details

Create Service Notification: Concession

Notification: M00000000995 [C] test
Notify: OSNO PAIT

Concession: Defined

Start/End Dates:
 Reported by: Date: 18.06.2025 09:22:31
 PO Number: Sales Doc:

Reference object:
 Functional loc: 200M/IC5_E1 Train for IC 01
 Equipment:
 Assembly:

Subject:
 Concession: Z00N055 FAIL: Failed test criteria
 Description: test
 18.06.2025 09:22:01 (ET_0000001) SH414H (200M4107)
 Long text test

Execute document according to priority. View details

