ENISCO | FORCAM
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MES FLEX FORCE

Bug Release Notes
Version 5.11.45

Release Information

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Content

General

FORCAM provides companies with all the information they need to control and optimize their production. The modular solution FORCAM FORCE MES FLEX is as flexible as the needs of customers. With a variety of production apps, FORCAM helps companies to make their processes more transparent and improve their workflows. In this way, companies create the basis for optimization measures and sustainable success, thereby ensuring their competitiveness.

FORCAM is always endeavored to optimize the FORCAM FORCE MES FLEX solution further, eliminate errors and ensure the best possible experience with full usage for customers. For this purpose, several patches are published throughout the year.

This document lists bugs that have occurred during customer use and that have been fixed during the **5.11.45** release. It gives a brief description of the bug as well as its fix for you to retrace and understand the procedure in the best possible way.

Detailed descriptions of the individual functions can be found in the respective product documentation.

Fixed Bugs

EDGE-1518, FF-33611, SD-9867 (FF-33379) – WAGO Machines Disconnected After DCU Restart

Description

WAGO machines stopped collecting data after a DCU restart. This issue occurs in DCU. A network outage while initializing the WAGO plugin. The issue requires a specific environment where a network outage occurs during the initialization of the WAGO plugin.

Fix

During initialization, if an initialization call to the machine fails due to a network outage or other reasons, the retry threads will still be allowed to start up, which may successfully connect the plugin once the problem is sorted out.

FF-32761, SD-10296 (FF-33754) – HDH Machine Lost Connection After 00:00 hrs. for a Short Period

Description

The configuration file hdhsktprop.ini got lost after an application update by the customer. The Installer (Finster) had problems in handling configuration files. These problems were encountered with the default settings.

Fix

Configuration file is restored to fix this issue.

FF-33456 – Translation of Status Detail Descriptions Slows Loading Times

Description

Translating the status detail descriptions caused long loading times.

Fix

The translations of the status details are provided by a view.

FF-33480 – Change Date and Editor Not Updated

Description

When an element's status for a packet is updated or when an element in edit mode is being uploaded after new data is saved, the change date and editor weren't updated for that element. It occurs in element table for a packet. This issue involves a packet that contains certain elements.

Fix

In case of missing updates for change time or editor, they are updated initially when an element status is changed and subsequently when a file is uploaded after being in edit mode.

FF-33630 – Duplicate Booking Type Codes

Description

The user was able to create duplicate booking type codes in *Project Editor>Booking Type Codes*.

Fix

The booking Type Code UI in Project Editor has been updated so that it has additional validation for unique booking type codes.

FF-33663 – Filter Criteria in Activity Step Dialog to Report Workplace Malfunction Does Not Work

Description

Configured attribute filter is not working in the step **Dialog for report Workplace malfunction** and for other steps which are using **SingleLevelRecodingControlUI**.

Fix

Configured values were not used previously, now they are used so that the function works.

IS-143, SD-10330 (FF-33780) – Unnecessary Delay in Planning Second Operation

Description

Using transport amounts, the second operation was unnecessarily delayed in its planning. There was a transport amount of one piece in the workplace of the first operation. The second operation ran significantly shorter than the first one.

Fix

Improved handling of transport amounts during the simulation process. The source of FFScheduling had to be changed to fix this issue.

IS-178, SD-10402 (FF-33829) – Oracle SQL Error 17266 SQL State 99999

Description

Update and reading of the large BLOBs led to thread contention which eventually caused the transactions to fail.

Fix

The issue was only related to the update of the BLOBs, so the SQL update has been replaced with SQL delete and save.

IS-46, SD-10053 (FF-33750) – Queries Stuck in Database

Description

Query in the material filter had a bad performance.

Fix

The performance of the material filter query is improved.

IS-62, SD-10134 (FF-33593) – Crashing Prioritized Operation UI in SFT

Description

The prioritized operation UI was crashing in SFT. FF_SFT_PRIORITIZED_OPERATION table having active prioritized operations which do not exist/are not active in the current system might cause this issue.

Fix

Fixed the map issue and copied the found operation into an editable map before usage.

IS-81, SD-10066 (FF-33687) – Operating State Correction Not Possible in The Workbench

Description

The correction of operating state was not possible because user could not select an entry of the list. It is not working when the workplace has an empty Status Detail Tree configured that leads to the problem to load the Status Levels.

Fix

When an empty Status Detail Tree is configured for a workplace, a fallback is done and the Single Levels will be loaded.

SD-10057 (FF-33532) – Endless Planning Loop in FFScheduling

Description

FFScheduling occasionally experiences an infinite loop on planning operations.

Fix

Fixed an error on looping through the operations. The FFScheduling server code had to be changed for the fix.

SD-10058 (FF-33512) – SSO Login with Deleted User Leads to Empty Page in Workbench

Description

Login for a non existant user with **remote_user** header leads to an empty page in Workbench.

Fix

Handled corresponding "user could not be found" exception to make sure that the fallback to the internal login page is triggered.

SD-10060, IS-48 (FF-33569) – Timestamps in Mongo-DB Export Not Unique

Description

In Trace Process Data Report, export shows the milliseconds same for different time.

Fix

Using the correct time format to convert the time as per milliseconds.

SD-10069, SD-10203, SD-9611, SD-10111 (FF-33135) – Operation Started after Incorrect Barcode Scan

Description

On processing the scanned barcode result, validation of found operation for assigned workplace was missing. It resulted in a rare scenario where a workgroup operation is found but the assigned workplace is not part of terminal workplaces.

Fix

Validation of found operation for assigned workplace is added before processing the found operation.

SD-10073, FF-28525 (FF-33543) – Password Change Not Saved in FO_MD_USER_PWD_HIST

Description

The password history was not updated after a forced password change due to password policy.

Fix

Password history is updated when changing the password also when the password policy forces a password change.

SD-10122 (FF-33566) – Security Hole in The Dashboard Link

Description

If an authorized link is not valid, it is not parsed correctly and the dashboard view does not switch into the and-on mode.

Fix

If an authorized link is not valid, the page is not shown and a message pops up.

SD-10125 (FF-33573) – Terminals Inoperable Due to Incorrect Phase in AVO Background

Description

After closing an operation and issuing a command to insert an operation phase (e.g., production) into a timeframe preceding its closure, the operation was reactivated in the realtime cache and caused terminal blockages.

Fix

Inside the logic component check if operation was already closed before putting new values in the realtime cache while doing the correction/replay.

ⓘ Operations that are already closed cannot be put back into processing.

SD-10144 (FF-33608) – Ignite Connection Lost in FFRuntime

Description

Snapshot archiving could find a big number of records deleted which it could not delete and timed out after 2.5 hours and caused the FFRuntime crash.

Fix

Snapshot archiving query changed and controller monitoring default time is changed to 5 mins from 20 secs. The affected data system was cleaned up manually for extra entries.

SD-10159 (FF-33615) – Workplace Could Not be Deleted

Description

A workplace referred to a non-existing machine that caused the whole workplace configuration UI to be blocked from any changes to any of the workplaces.

Fix

Code is adapted to not block the UI for other workplaces in case a workplace refers to a non-existent machine.

SD-10284 (FF-33708) – FFScheduler – Error Shifting Order

Description

In some cases, during simulation, shifting an order could not be performed and this error message was shown: "Error shifting order. java.lang.IllegalArgumentException: Comparison method violates its general contract".

Fix

Inconsistency in a comparator class was fixed. The FFScheduling server code had to be changed to fix this issue.

SD-10291, SD-10296 (FF-33714) – OPC UA Signals Not Read

Description

OPC UA signals could not be read if the signal name contained quotation marks.

Fix

The plugin is enabled to handle signal names containing quotation marks. The change was in the native sources (C sources) of the OPC UA plugin.

SD-10349, IS-132, SD-10314, IS-127, SD-10292, FF-33676 (FF-33713) – Shift Correction Throws SQL Error

Description

In shift correction and shift deletion service, when a shift is deleted which has a non-working shift previously, a SQL error was shown in the runtime log and the shift was not deleted.

Fix

If a non-working shift is marked as deleted and adjusted at the same time. For e.g., this happens when deleting the following shift as described. Then the non-working shift is not deleted and adjusted in the same transaction. Only the adjustment makes sense in this case.

SD-10424, IS-70, SD-10163 (FF-33606) – Barcode Scan Not Working Correctly

Description

There were two different issues which resulted in the bug:

 – Issue 1: When SFT browser connect to CSC for accessing the local resources from SFT, CSC connection to the browser was not stable sometimes.
 – Issue 2: UDP scanning from CSC was not working correctly even if the CSC was connected to browser properly.

Fix

There below are the solution to these different issues:

 – Fix for issue 1: CSC application was made more configurable so that the customer specific use case can be handled better.
 – Fix for issue 2: This issue occurred because of newer security policies adapted by Chrome (and other browsers) to handle private networks. Since CSC is based on private networks communication, the browsers started to block the communication to CSC. Browser send now Preflight requests to identify whether the private network is trustworthy. CSC was extended to respond these Preflight requests with a successful response according to the browser expectations.

The configurations below are newly introduced:

 – For issue 1: The configurations below need to be done at each terminal locally where the CSC is used in order to handle the customer specific use case.

```
csc.passivateStrictSessionMatch=true
csc.watchdogDisabled=true
```

 – For issue 2: The below configuration needs to be done at Worker tomcat in order to allow the private network CSC to communicate to browsers. The location of the file where the configuration needs to be added is: *..\ffworker-tomcat\webapps\ffworker\eclntjsfserver\config\system.xml*
 add *http://localhost:15090/_* as value of content-security-policy.

SD-9079, TC-4638 (FF-32925) – DBOM Aggregation Rule

Description

Aggregation on DBOM was not working as per customer expectation which differs from the specification. This issue occurs in the DBOM.

Fix

Changed the Aggregation as mentioned in the defect.

SD-9514, FF-33632 (FF-33431) – Shift Filter Returns Incorrect Values

Description

An issue occurred in Support Shift Filter functionality in the Shopfloor Connectivity module. Shift Filter returned incorrect values.

Fix

Implemented support for the Shift Filter in the Shopfloor Connectivity module.

SD-9589 (FF-33015) – Deletion of DCU Template in Workbench

Description

Handling the existing Javis template as a new template leads to deletion of template if the Workplace-Javis controller configuration is removed/deleted.

Fix

AddWorkplace mechanism is adapted to simply link the workplace to the existing template instead of considering/adding the template as a new configuration. Considering the existing template as a new configuration leads the system to delete the configuration in case of workplace-Javis configuration is de-assigned.

SD-9867 (FF-33376) – HDH Machine Connection Worked Only After Restart of Its DCU6

Description

When restarting the DACQ, the Heidenhain plugin could not reconnect in some cases.

Fix

Added an additional check for leftover processes. The change is in the C++ code of the Heidenhain wrapper DLL.

TC-4704, IS-77, TC-5000, SD-10209, SD-10193 (FF-33628) – Reports in The Worker Client are No Longer Opened

Description

It was not possible to open any report in SFT since 5.11.42 and 5.12.16 releases.

Fix

Added in the content-security-property value for iframe-src. Content-security-property is now part of the properties file and is configurable via FFSetup.

TC-4979 (FF-33535) – Filehandler Based on Data Basis Does Not Work for Larger Programs

Description

When trying to transfer a large NC program from a machine to the Workbench, the content is corrupted.

Fix

The files will now be read in smaller portions instead of being processed in a single read cycle. The loading functionality for FileHanlderSamba is changed.

Appendix

Abbreviation/Term	Description
DACQ	Data Acquisition
DCU	Data Collection Unit
NC	Numerical Control
OPC UA	Open Platform Communications Unified Architecture
SFT	Shopfloor Terminal
SQL	Structured Query Language
UI	User Interface