




# Bug Release Notes

Version 5.12.20

## *Release Information*

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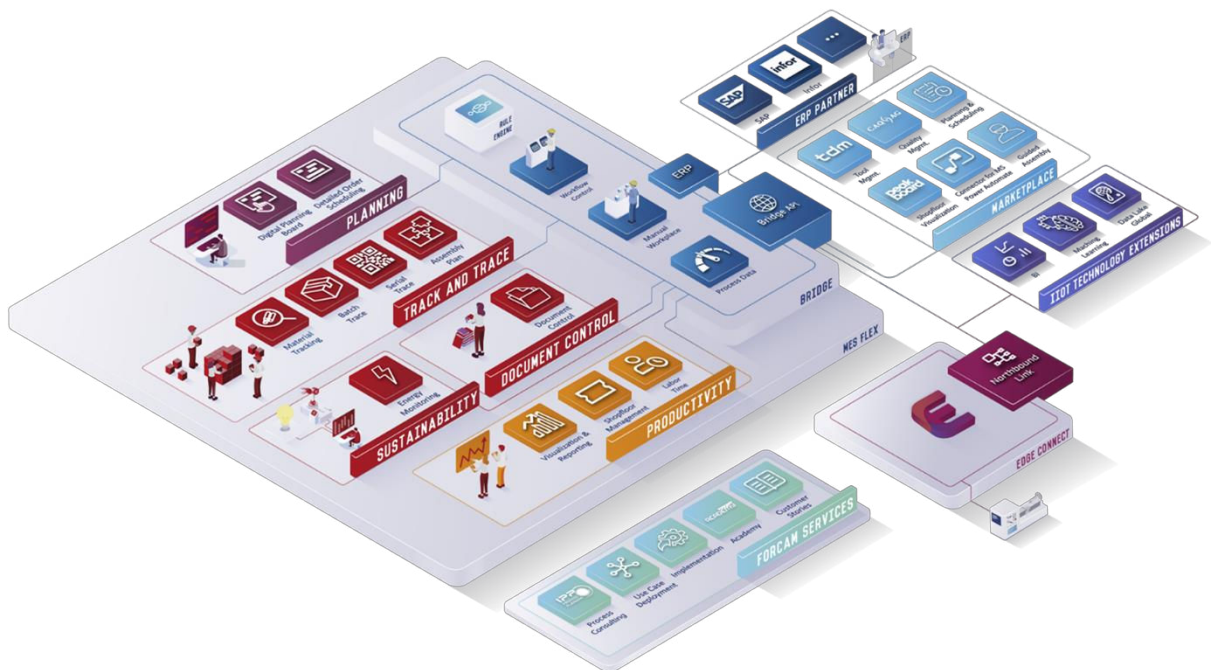
## General

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 **5.12.20** 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

### FF-33132, TC-4704, FF-33815, SD-10450, SD-10482 (FF-33939) – SFT: No Automatic Refresh in Operation Table at Phase Change

#### Description

In SFT Terminals, sometimes (randomly) the polling connection responsible for processing server-side events was disconnected, resulting in stale state of UI information. It occurred at workplace & operation tables at Operation View basepage.

#### Fix

The issue occurred because of connection issue with third party framework CaptainCasa which is now fixed with the newer version of CaptainCasa, i.e.,20230502.

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### FF-33897 – Too Many Unclosed Connections

#### Description

Plugin failed to consistently close the connection in all cases.

#### Fix

Now, the connection is attempted to be closed in all cases (in the destructor of the machine object).

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### FF-33929 – SMTP Password Encryption Issue

#### Description

The ffsetup installer stored the SMTP password for e-mail notifications as encrypted part of the configuration but the ffnewoffice reporting component using this configuration was not able to decrypt this information.

#### Fix

The ffnewoffice component was extended to properly process the encrypted SMTP password from the product configuration. The ffnewoffice component was extended to properly process the encrypted SMTP password from the product configuration.

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### FF-33937 – Direct Manipulation of Element Requires ‘Edit Element Information’ Permission Linked with ‘Edit Element Immediately’

#### Description

The permission “Edit Element Immediately” was linked with “Edit Element Information” permission. It was not possible to do a direct manipulation of an element without the permission “Edit Element Information”.

#### Fix

Both permissions are decoupled.

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**FF-33978 – EnergyControlling: Different Results in Reporting for kW Usage****Description**

The reports: **Energy consumption per Workplace** and **Load curve** report give different results of the kW consumption. If the reports are used with the table: FT\_PROCESS\_DATA\_WORKPLACE, the value is correct. This was checked on the machine by user. Reports with the table FT\_ENERGY\_DATA\_WP\_TL are incorrect as higher values are being displayed.

**Fix**

This issue is fixed by using the real energy consumption as it is being used in process data.

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**FF-34000 – New Office Dashboards: Report with ‘Process Data’ Filter Could Not be Displayed (NullPointerException)****Description**

A **NullPointerException** is triggered when adding the report to the dashboard, and the same exception occurs when attempting to display a report with a **Process Data** filter in New Office Dashboards.

**Fix**

This issue is fixed by managing the trace filter for Dashboards.

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**FF-34001, IS-144, TC-4704, SD-10761 (FF-33875) – Javis DACQ: Data Persistence Failure on Script Stop and Restart****Description**

The persisting of variable values in DACQ did not work properly.

**Fix**

The problem was that two modules used the same persistence file and “stole” the data from each other. The first measure was to change the configuration. This fixed the problem without programming. Additionally, new parameter names were introduced for the persistence files of DACQ scripts and Messaging: “scriptDataFile” for DACQ script and “messagingDataFile” for Messaging. When using the old “file” parameter, a warning message is issued in the log.

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**IS-171, SD-10325 (FF-33856) – Process Data Charts Not Displaying Latest STEP-NUMBER Values****Description**

The process data only triggered once it receives additional data. This problem occurred specifically in Trace Acquisition.

**Fix**

The issue was fixed by triggering the data based on the flush delay.

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## Fixed Bugs

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### IS-233, IS-268 (FF-33984) – FFWorker Memory Utilization Hits Maximum

#### Description

Memory utilization of FFWorker reached maximum capacity. The bug occurred due to System Thread Pool Starvation bug from Apache Ignite.

#### Fix

Updated Apache Ignite from version 2.11.1 to version 2.14.

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### IS-258 (FF-33926) – Recoding Blocked After Language Switch

#### Description

Further recoding is blocked after switching the language.

#### Fix

Recoding input is reset in case of language switch.

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### IS-260, SD-10567, SD-10660 (FF-33975) – Alias Undefined: Error When Selecting Material in Internal Order Creation

#### Description

SQL Query used an alias but the alias was not defined. An error message is displayed when attempting to select a material during the creation of an internal order.

#### Fix

SQL Query is fixed to not have any alias anymore as it is a very simple/one-liner SQL query.

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### IS-278, SD-10670 (FF-33991) – Different Timezones Due to DST

#### Description

Timezone offset is calculated without taking DST into account in the workbench.

#### Fix

Timezone offset is calculated with DST for workbench instead of just using the raw offset.

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### IS-295, SD-10786 (FF-34034) – FFScheduling is Not Able to Work Up its Queues

#### Description

FFScheduling did not handle the new operation and deleted operation messages fast enough to work up the queue.

#### Fix

The handling of deleted operation has been made more efficient by removing unnecessary insert and delete operations in the database table. The FFScheduling source had to be changed.

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**IS-333 (FF-34079) – Missing Employee Information in Tack and Trace Report****Description**

Added an activity step to add operator context in tracing after the operation phase change activity step. So now Runtime sends **Operation Change** command to trace and background activity step also sends the **Operator Add** command to trace. These two different commands are not in sync, which caused an error to add operator context.

**Fix**

The call-in is synchronized to ensure that operation and operator context were added to the trace cache.

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**IS-334, SD-10893 (FF-34080) – PDF Export Failed****Description**

Error during PDF export due to negative height of an image.

**Fix**

Skipped images which could not be rendered. Added more log output to get more details about the problem.

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**PM-1823 (FF-34073) – Energy Aggregation Unable to Handle Counter Outliers and Resets****Description**

Currently energy aggregation only considers incremental values of energy. It does not consider the spikes of energy value which causes misunderstanding in energy reports.

**Fix**

Added a new configuration under the energy aggregation view to configure the maximum energy delta for a single slot so that its energy aggregation consumption can be calculated accordingly.

---

**SD-10228 (FF-33724) – Workplace Status Inconsistency After Correction****Description**

Quantity correction just after the MachineStatus correction resets the machine status correction flag for the machine status interval which leads to the shift to govern the workplace status.

**Fix**

Logic is changed so that any correction at the same time (UTC) as machine status correction should not reset the machine status correction flag.



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**SD-10245 (FF-33925) – Missing ‘Max Strokes over 5 Minutes’ for Interrupted OP**

**Description**

Values were not shown for interrupted OP in actual data mode. Some operations did not display the “max strokes over 5 minutes” value in the operation table.

**Fix**

Suitable renderer is set which is capable to handle requested data format.

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**SD-10337 (FF-33762) – Operation End/Interrupted Uses Wrong Operation Text**

**Description**

Different attributes shown in workbench & SFT.

**Fix**

Added additional table column in workbench.

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**SD-10423 (FF-33820) – AttributeCriteria Could Not be Selected**

**Description**

In the activity step to display the ticket associated to the workplace, it was not possible to filter the list of tickets with any given ticket attribute criterion. The feature of filtering tickets by attribute criterion was missing from the start in the specification of the activity step.

**Fix**

The missing feature of filtering ticket by attribute criterion is implemented.

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**SD-10485 (FF-33894) – Recoding Error**

**Description**

Recoding led to an error when using Oracle database. Retrieval of Compressed Data Binary Stream was not possible.

**Fix**

Ensured that the transaction is still open while reading the cache snapshot blob.

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**SD-10656 (FF-33949) – Missing Data after Splitting Operation**

**Description**

Production Resource Tools and Operation Components were not splitted when using the CreateOperationSplitActivity.

**Fix**

Production Resource Tools and Operation Components are cloned/splitted when using the CreateOperationSplitActivity. Component Quantities are splitted according to the split of the target quantities.

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**SD-10686, TC-5187 (FF-33992) – Noon (12 PM) Interpreted Incorrectly**

**Description**

Noon displayed as 12 AM instead of 12 PM.

**Fix**

DB timestamps are converted to milliseconds since the UNIX epoch which can be directly parsed back as date.

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**SD-10744, SD-10857, TC-4704, SD-10726 (FF-33924) – Newoffice Application Freezing Due to NullPointerException**

**Description**

There was a NullPointerException while accessing addon links which caused the application to freeze.

**Fix**

To address the issue, potential NullPointerException (NPEs) were fixed in the SecurityManager and SecurityService to prevent NPEs, as the issue could not be reproduced and the complete stack trace was not logged. It is expected that this resolution will prevent the issue from recurring.

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**SD-10756 (FF-34002) – Wrong Shift ID in Ticket**

**Description**

Wrong shift id was found in the ticket.

**Fix**

Correct shift is found.

**Fixed Bugs**

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**SD-10767, SD-10538, SD-10639, IS-229 (FF-33907) – OPC UA Lost Signal**

**Description**

OPC UA signals are not delivered from a machine when it is restarted. This happens mainly when the machine was off during the weekend and is switched on again.

**Fix**

The plugin now handles a special error: Bad\_ConnectionClosed returned from the machine on a subscription. The Java and C source of the OPC UA plugin had to be changed.

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**SD-10789 (FF-34032) – Missing Automated Stop Functionality in ffstartup**

**Description**

During server shutdown, ffstartup lacks automated stop functionality. ffsetup registered scheduled tasks for ffstartup.

**Fix**

ffsetup will not register scheduled task for ffstartup anymore.

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**SD-10821, FF-33934(FF-34037) – Report Could Not be Accessed After Filter Error**

**Description**

SQL Error when resetting filter via cancel button.

**Fix**

Fixed SQL query in ProductService, which is executed when resetting the filter via the cancel button.

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**SD-10846 (FF-34044) – FFWorkbench Crashed and Ran Out of Memory**

**Description**

FFWorkbench crashed due to memory exhaustion. DashboardFrameUI was not terminated when the user closes FFWorkbench tab/window which led to a memory leak.

**Fix**

DashboardFrameUI is also terminated with other UIs when the user closes a workbench tab/window.

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**TC-4704 (FF-33890) – Resetting Zoom Changes Timeline**

**Description**

After zooming into a report at a more precise timeframe and then resetting the zoom, the time periods are moved depending on the selected time zone in Operating State Timeline.

**Fix**

Report is refreshed/re-rendered instead of recalculating and resetting the view.

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**TC-4704 (FF-33910) – Quantity Log Displays Date in European/German Format**

**Description**

The Online Log/Summary report for Quantity Log displays the date of the field “Booking Time” in a German format.

**Fix**

Changed the datatype format of CHANGE\_TS (Booking Time) from Custom to Date Medium & Time Medium.

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**TC-4704, TC-5120 (FF-33950) – ERP Upload Failure: fferp Does Not Utilize Java Trust-Store Cacerts**

**Description**

Java certificates in Cacerts were not in the trust store of ERP and were not used for uploading messages.

**Fix**

It is ensured that java cacerts are used in ERP by initializing the SSLContextManager.

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**TC-4724, SD-10796 (FF-34068) – DNC for FTP (Force DNC) not Transferring File**

**Description**

The DNC for FTP (Force DNC) failed to transfer the file.

**Fix**

FTP active mode is now supported in addition to the default FTP passive mode.

**Fixed Bugs**

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**TC-4923, IS-189 (FF-33821) – Data Capturing Issue in SFT Activity Step with Null Values****Description**

This issue revolves around data capturing from the worker's SFT Activity Step. The problem occurs specifically during the data capturing process from the SFT activity step. One precondition or special environment for this issue is the presence of a data capture item that allows null values.

**Fix**

The issue was fixed by setting the value to null instead of an empty string when no value was entered.

## Appendix

Abbreviation/Term	Description
DACQ	Data Acquisition
DNC	Distributed Number Control
DST	Daylight Saving Time
ERP	Enterprise Resource Planning
FTP	File Transfer Protocol
OP	operation
OPC UA	Open Platform Communications Unified Architecture
SFT	Shopfloor Terminal
SQL	Structured Query Language