



# Bug Release Notes

Version 5.11.29

## *Release Information*



Document: Force-5-11-29-Bug-  
Release-Notes.docx



Release date: 2022-04-22



Document version: 1



Author: Ali Egilmez

## Content

<b>General .....</b>	<b>4</b>
<b>Fixed Bugs .....</b>	<b>5</b>
FF-31804 – PDM: Element options not opening unless “edit packet” permission is assigned.....	5
FF-31839 – SFT: Booking quantity dialogue not working after updating from 5.10 to 5.11.27 .....	5
FF-31889 – ERP: IDocs not accepted if only one workplace in ERP Hierarchy with split.....	5
FF-31908 – DOS: Extended check box for sorting in the setup matrix editor.....	6
FF-31931 – PDM: Progress bar not available .....	6
FF-31934 – PDM: OPT transformation not reacting .....	6
FF-31936 – PDM: Wrong data update when transferring data to the machine.....	6
FF-31938 – PDM: Language-specific letters not displayed correctly.....	7
FF-31940 – PDM: NC Status Monitor not updated automatically .....	7
FF-31941 – PDM: Element table not displaying highest version elements .....	7
FF-31942 – PDM: Wrong display of creator and editor .....	7
FF-31955 – Rule Engine: Fails to start after updating to 5.11.27.1.....	8
FF-31988 – Workbench: Wrong notification about page being in use by another user .....	8
SD-7837 (FF-31506) – DCU: Unified logging not zipping the log files.....	8
SD-7963, SD-8438 (FF-31220) – OPC UA: Wrong signal quality from OPC UA plugin.....	8
SD-8112, SD-8512 (FF-31475) – Work Time Assignment: Several shift issues .....	9
SD-8249 (FF-31654) – DCU: Reconnection loop for Fanuc controller 31i-B5 .....	9
SD-8292 (FF-31669) – Rule Engine: Wrong order in Event Processing.....	9
SD-8299 (FF-31626) – Visualization: Additional Field not displayed correctly .....	9
SD-8373, (FF-31703) – Reporting: Operation Details not considering the open intervals .....	10
SD-8419 (FF-31824) – Report Editor: Wrong chart displayed.....	10
SD-8423, SD-8473 (FF-31749) – Rule Engine: FFRuntime not finding Ignite cache after server reboot .....	10
SD-8437 (FF-31783) – DACQ: Process deadlock .....	10
SD-8447 (FF-31825) – SFT: Timeout during maintenance request via EAM.....	11
SD-8460, SD-8603 (FF-31929) – Workbench: Cookie not deleted when browser is closed .....	11
SD-8476, SD-8508 (FF-31902) – ERP: Operation Block Number reset to NULL in some cases.....	11
SD-8484 (FF-31813) – SFT: Mnemonic of clamping not considered in tab title .....	11
SD-8523 (FF-31836) – Visualization: Query on Additional Fields causing exception.....	12
SD-8573 (FF-31993) – DOS: No current shift after shift import.....	12
SD-8580 (FF-31999) – DOS: Time fixed orders being moved.....	12

SD-8611 (FF-31961) – FFWebservice: Startup error .....12

SD-8624 (FF-31979) – DOS: No connection, stopped working .....13

**Appendix.....14**

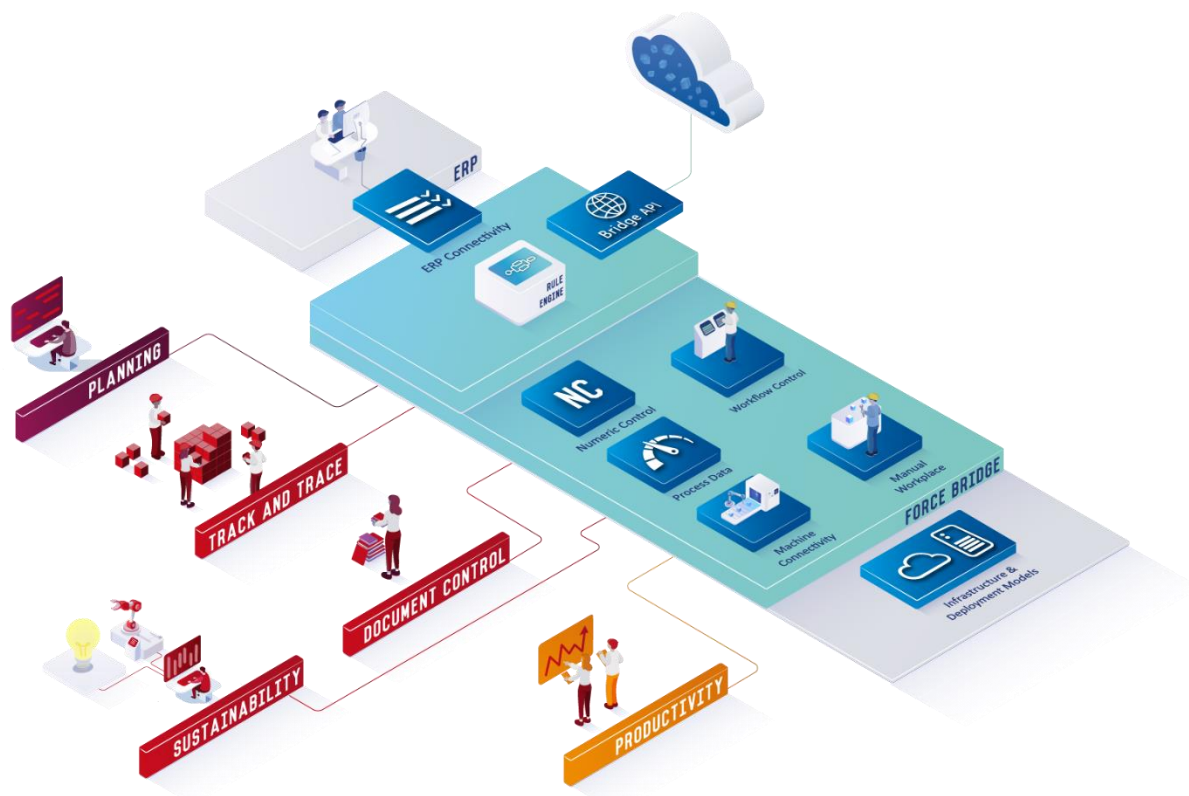
## General

FORCAM provides companies with all the information they need to control and optimize their production. The modular solution FORCAM FORCE IIOT 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 IIOT 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 **5.11.29** 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-31804 – PDM: Element options not opening unless “edit packet” permission is assigned

#### Description

If the edit element permission is given to a user without the edit packet permission, then the user could not edit both when looking at them through the Packet Search UI, but he could edit both when using the Element Search UI.

#### Fix

Changed the permission key for editing elements since packet and element were using the same key to avoid confusing both or getting the wrong one by accident.  
Removed the “setTableEditable” calls in “FdmPacketCreateConfiguratorUI”.

---

### FF-31839 – SFT: Booking quantity dialogue not working after updating from 5.10 to 5.11.27

#### Description

Some customer-specific use cases were not covered in the standard quantity type configuration migration which resulted in a wrong/incomplete migration.

#### Fix

Implemented a more generic approach to cover specific cases for the migration of quantity type configuration in addition to the previous migration.

---

### FF-31889 – ERP: IDocs not accepted if only one workplace in ERP Hierarchy with split

#### Description

A Null pointer exception came up when trying to receive the number of workplaces by “workplaceld”.

The issue occurred when a capacity group is configured in the workplace hierarchy with auto-split and with only one workplace which is not configured as manual workplace. In addition, when the workplace hierarchy group has the same name as the workplace

#### Fix

There is now a default value of 1 returned for the relation “workplaceld” – “NumberOfStations”. In both places where the “workplaceNumberOfStations” method is called, “getOrDefault()” is used with default value 1.

**FF-31908 – DOS: Extended check box for sorting in the setup matrix editor****Description**

In Detailed Order Scheduling, operations were sorted by the setup priority attribute value, but they should be only grouped by it instead.

**Fix**

Introduced an option whether operations should be sorted by the attribute or only grouped by it. Changed the master data configuration and the operation sorting algorithm accordingly.

---

**FF-31931 – PDM: Progress bar not available****Description**

The progress bar in the PDM transmission dialog was not visible.

**Fix**

Created a separate configuration for the progress bar component for it to be clearly visible.

---

**FF-31934 – PDM: OPT transformation not reacting****Description**

The OPT transformation in the Packet Search when editing a packet did not react.

**Fix**

The element was not transformed since some “else” branches were missing. Included the needed branches with the OPT transformation. Changed “FdmObjectHelper” accordingly.

---

**FF-31936 – PDM: Wrong data update when transferring data to the machine****Description**

An NC transfer from NC to PC changed the editor and change timestamp even though there were no changes in element data related fields.

**Fix**

File transfer is now not updating the editor and change timestamp fields for the element anymore. The last transfer information is still present in the PC to NC fields.

**FF-31938 – PDM: Language-specific letters not displayed correctly****Description**

FORCAM FORCE IIOT is using UTF-8 encoding for all strings which enables displaying a variety of language-specific letters. Element files in the PDM element tables were able to use non UTF-8 encoding which displayed language-specific letters incorrectly.

**Fix**

Added a new library “com.googlecode.juniversalchardet:universalchardet:1.0.3” to guess the character encoding and then convert that to UTF-8.

---

**FF-31940 – PDM: NC Status Monitor not updated automatically****Description**

When the JMX connection to FFDNC got lost, for example by a restart of FFDNC, then the NC Status Monitor was not updated automatically anymore.

**Fix**

Forced a reconnect when there was no notification received in the last 60 seconds.

---

**FF-31941 – PDM: Element table not displaying highest version elements****Description**

The element table sometimes did not display all the highest version elements when using the “Show max. Version” option, especially for elements in the state “New” or “Approved”.

**Fix**

Added another condition to the method that filters the elements depending on the version. Also extended logging to check whether it helped.

---

**FF-31942 – PDM: Wrong display of creator and editor****Description**

When receiving an element from the NC controller, the resulting OPT element was showing FFDNC as creator and editor.

**Fix**

Added the current user to “DncCommand” and parsed them correctly when unpacking. Replaced the FFDNC usages with the current user if one is available.

**FF-31955 – Rule Engine: Fails to start after updating to 5.11.27.1****Description**

A newly integrated module (library) into the Rule Engine application has a duplicate oracle version property defined with Oracle 11 which caused the Rule Engine to load an incorrect oracle driver.

**Fix**

Removed the duplicate oracle version property from the module and used the common oracle version property instead.

---

**FF-31988 – Workbench: Wrong notification about page being in use by another user****Description**

When trying to save a change in a Workbench page, the user was notified that the page is already in use by another user. This occurred during multiple Workbench sessions at the same time.

**Fix**

When a change is locked, the corresponding tab (dialog) information is now being kept. If the tab is closed, this information is removed and if there are no more tabs associated with the lock, it is opened.

---

**SD-7837 (FF-31506) – DCU: Unified logging not zipping the log files****Description**

At day change, the log file rotation with zipping the old files did not happen, leading to a risk of running out of disk space. This was relevant for every installation using native sources C++ apps.

**Fix**

Installed a new file zipper “ffzip.exe” in the log directory by Finster to be used by C++ apps. The log configuration can be modified in the file “logging.ini” which is located in the log directory.

---

**SD-7963, SD-8438 (FF-31220) – OPC UA: Wrong signal quality from OPC UA plugin****Description**

The OPC UA plugin returned good signal quality while in fact the signal quality was bad. This occurred when the connection to the OPC server was re-established and did not have connection to the physical PLC.

**Fix**

After reconnecting, the signal quality now is bad as long as no signal data are received. The change was made in the Java code of the OPC UA plugin.

---



**SD-8112, SD-8512 (FF-31475) – Work Time Assignment: Several shift issues****Description**

The inheritance of fixed shifts and non-working days was not working properly. A fixed shift was not overwritten by a non-working day from a lower node in the shift hierarchy tree. The correct behavior was shown in the UI but the generated shifts in the database still contained the fixed shifts. This led to shifts “reappearing” due to not being visible in the UI but still being generated in the background.

**Fix**

Adapted shift generation to correctly overwrite an inherited fixed shift by a non-working day defined on a lower node.

---

**SD-8249 (FF-31654) – DCU: Reconnection loop for Fanuc controller 31i-B5****Description**

The DCU reconnected when a macro variable did not exist, without solving the issue. Invalid macro variables or signals were configured for Fanuc controller 31i-B5.

**Fix**

The controller is now only reconnecting after a severe error (negative error code).

---

**SD-8292 (FF-31669) – Rule Engine: Wrong order in Event Processing****Description**

Reordering mechanism of the events in FFRuntime were reordering the “RemoveOperation” and “PersonOperationStatus” to place the “RemoveOperationEvent” before the “PersonOperationStatusEvent”. But that specific order was always necessary. Ideally, a person should be signed off before removing the operation.

**Fix**

Fixed the reordering of the mentioned parameters in the “EventGroupSorter”. The client sending the commands to FFRuntime now maintains the correct order and FFRuntime processes them as it is.

---

**SD-8299 (FF-31626) – Visualization: Additional Field not displayed correctly****Description**

Visualization formulas containing Additional Fields with the “Query independent of workplace” field checked were not correctly evaluated.

**Fix**

Fixed the formula to properly evaluate and retrieve the data, even if the Additional Field is independent of the workplace.

---

**SD-8373, (FF-31703) – Reporting: Operation Details not considering the open intervals****Description**

Open intervals were not considered for the aggregation of “base sum” view data.

**Fix**

Open intervals are now considered for the aggregation of “base sum” view data.

---

**SD-8419 (FF-31824) – Report Editor: Wrong chart displayed****Description**

Default value columns were set for a bar/column chart configuration even though a line column was defined.

**Fix**

Default value columns are not set for a bar/column chart configuration anymore when at least one line column is defined.

---

**SD-8423, SD-8473 (FF-31749) – Rule Engine: FFRuntime not finding Ignite cache after server reboot****Description**

FFRuntime tried to connect to an “In Progress” cache (i.e., prewarmed but not ready yet) and ran into an exception leading the runtime to crash.

**Fix**

Updated the Ignite cache client initialization to handle the “In Progress” cache better and retry until cache initialization is complete.

---

**SD-8437 (FF-31783) – DACQ: Process deadlock****Description**

The process in the DACQ ran into a deadlock.

**Fix**

Reorganized the thread synchronization in the DACQ messaging class.

---

---

**SD-8447 (FF-31825) – SFT: Timeout during maintenance request via EAM****Description**

The default timeout for an HTTP connection to the EAM service used to be 10 seconds. An issue occurred for some cases where the communication took more time (~ 15 seconds).

**Fix**

The default timeout for an HTTP connection to the EAM service is now increased to 30 seconds. In addition to it, the timeout duration is made configurable to respect individual requirements. The key to configure the timeout is “audieam.restclient.timeoutInSec” (in seconds).

---

**SD-8460, SD-8603 (FF-31929) – Workbench: Cookie not deleted when browser is closed****Description**

After logging in to the Workbench, when closing and reopening the browser, it was not possible to log out again.

**Fix**

Made sure that the cookie which stores the Workbench session is deleted when closing the browser.

---

**SD-8476, SD-8508 (FF-31902) – ERP: Operation Block Number reset to NULL in some cases****Description**

Block numbers set in FORCAM FORCE IIOT were overwritten by a new delivery via the ERP download.

**Fix**

Implemented the following rules:

- ERP Download will not delete block information if a block number has been set before.
  - ERP Download will not change block information during an active operation phase.
  - ERP Download will not change block information if the “planningFlag” is set (from any FORCAM FORCE IIOT planning tool).
  - ERP Download will delete the block information if the “targetWorkplace” is set to NULL (e.g., in case of SPLIT behavior PULL)
- 

**SD-8484 (FF-31813) – SFT: Mnemonic of clamping not considered in tab title****Description**

For the clamping assignment activity step (“Dialog for the pallet assignment”), the tab title of pallets was generated with static literals instead of the configured mnemonic of clamping (workplace configuration).

**Fix**

The tab title of pallets is now generated with the configured mnemonic of clamping.

---

#### **SD-8523 (FF-31836) – Visualization: Query on Additional Fields causing exception**

##### **Description**

Additional Fields with a query that returns only a single column caused a class cast exception, because the database service always expected a set of columns to be retrieved.

##### **Fix**

Differentiated between single and multi-column queries.

---

#### **SD-8573 (FF-31993) – DOS: No current shift after shift import**

##### **Description**

After defining a fixed shift for the next day in the Workbench and updating the shifts in Detailed Order Scheduling, the planning board did not show the current shift.

##### **Fix**

Changed the behavior of updating the planning board and the collection of shift data when updating the board.

---

#### **SD-8580 (FF-31999) – DOS: Time fixed orders being moved**

##### **Description**

In Detailed Order Scheduling, moving non-fixed operations in the front moved fixed operations behind them. Priority rules included “operation fixed” before “operation manually moved”.

##### **Fix**

Adjusted the priority sorting so that fixed operations are sorted before moved ones if configured like above. Additionally, changed the priority sorting class and the behavior during simulation after moving an operation.

---

#### **SD-8611 (FF-31961) – FFWebservice: Startup error**

##### **Description**

When setting the parameter in “ignite.configuration.igniteServerRequired” to “false”, FFwebservices did not start correctly.

##### **Fix**

Set “ignite.configuration.igniteServerRequired” to “true” for FFwebservices. Additionally, added a warning message in case of the parameter being on “false” indicating that this might lead to problems.

---

**SD-8624 (FF-31979) – DOS: No connection, stopped working**

**Description**

Detailed Order Scheduling faced connection problems with Ignite and froze.

**Fix**

Changed DOS not to use Ignite. It was previously only used in the piece time configuration. The piece time service now uses database access instead.

## Appendix

Abbreviation/Term	Description
<b>DACQ</b>	Data Acquisition (processes signals that are collected by the DCU)
<b>DCU</b>	Data Collection Unit
<b>DNC</b>	Distributed Numerical Control
<b>DOS</b>	Detailed Order Scheduling
<b>EAM</b>	Enterprise Architecture Management (Process for designing the IT application landscape)
<b>Finster</b>	FORCAM installer
<b>HTTP</b>	Hypertext Transfer Protocol (stateless protocol for transferring data at the application layer over a computer network)
<b>IDoc</b>	Intermediate Document (SAP document format)
<b>JMX</b>	Java Management Extensions (Java application management and monitoring specification)
<b>NC</b>	Numerical Control
<b>OPT</b>	Optimized program
<b>PC</b>	Personal computer
<b>PDM</b>	Product Data Management
<b>PLC</b>	Programmable Logical Control
<b>SFT</b>	Shopfloor Terminal (terminal at the shopfloor for data collection, operating and interaction with ERP systems)
<b>UI</b>	User interface
<b>UTF-8</b>	Encoding for Unicode characters