



AXIN Software

Release Notes

Manufacturing Execution

Version: 6.2.0

Publication Date: 24 January 2025

Highlights

This release contains selected products and modules available for new installations. This is a major version release that delivers breaking changes with the release of the Base module version 7.1.3, including a new name and branding, customizable WinUI layouts, the introduction of workstations and an overhaul of the Criteria Framework, as well as bug fixes, feature improvements and newly available modules and products.

All available modules were upgraded to support Base 7.1.3.

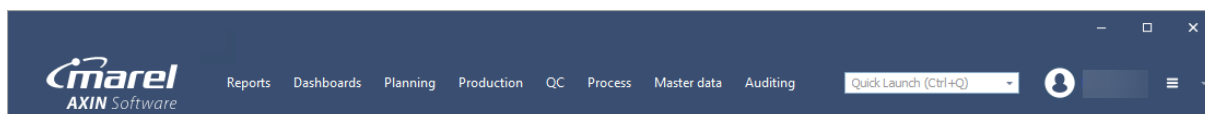
NOTE: This version requires the **Installation Manager version 2.0.2** to install properly. Older versions of the Installation Manager will wrongly report compatibility issues with some modules.

Introducing AXIN Software Manufacturing Execution

Marel software adopted a new name and structure to signal our commitment to leading the industry with transformative software solutions. All software solutions at Marel embody the core values of providing actionable insights into production processes that improve our customers' operations and margins. Our new name, AXIN Software, combines “actionable” and “insights”, to reflect these principles.

AXIN Software solutions are organized into Machine, Process and Business solutions, which interconnect and integrate with each other for full processing control.

As part of the AXIN Software Process Solutions portfolio, Innova is now called AXIN Software Manufacturing Execution. The Manufacturing Execution system delivers the same products and quality as before, now under a new name and more unified branding.



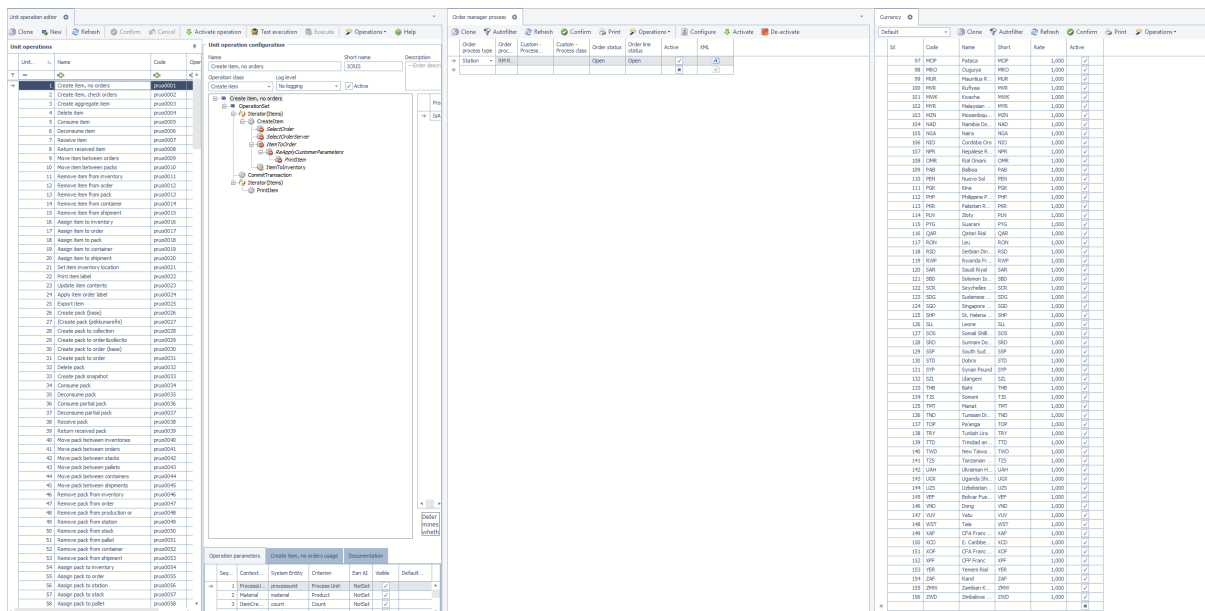
For more information:

- See Base

Customize layouts in the office interface

The tab system in the WinUI office interface was overhauled to provide greater flexibility, allowing you to create and save your own layouts.

Now you can drag and drop to open multiple tabs side-by-side or stack them vertically. In addition, you can save layouts and select which layout to load on startup.



For more information:

- See Base

Introducing workstations

WinUI, IPC and PDA clients can now be started without startup parameters. Instead, the computer name or IP address in the new **Workstations** view is used to look up which workstation to open.

Workstations														
Devices														
Clone Autofilter Refresh Confirm Print Operations Configure														
	Id	Name	Code	Short	Type	Address	Department	Job	Logout station	Active timeout (sec)	Active	Locking	Multiple employees	XML
	10	Lina - Stæð 11	prst0010	Lina A - 6	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	11	Lina - Stæð 12	prst0011	Lina B - 6	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	12	Lina - Stæð 13	prst0012	Lina A - 7	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	13	Lina - Stæð 14	prst0013	Lina B - 7	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	14	Lina - Stæð 15	prst0014	Lina A - 8	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	15	Lina - Stæð 16	prst0015	Lina B - 8	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	16	Lina - Stæð 17	prst0016	Lina A - 9	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	17	Lina - Stæð 18	prst0017	Lina B - 9	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	18	Lina - Stæð 09	prst0018	Lina A - 5	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	19	Gæðskoðun L1 H	prst0019	Gæðskoðun	IPC	GRBPC4698	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	20	Ráðstöfun	prst0020	Ráðstöfun	PDA	localhost	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	21	Compact - Flokkari	prst0021	Compact	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	22	Samvæðflokkari gamli vinstri	prst0022	Samvæðflo	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	23	M6000 - Þökkunarstöð 1	prst0023	M6000 - Þö	IPC	192.168.3.200	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	24	M6000 - Þökkunarstöð 2	prst0024	M6000 - Þö	IPC	192.168.3.63	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	25	Blokkarpökkun	prst0025	Blokkarpök	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	26	Sporðskurðavel	prst0026	Sporðskurð	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	27	Bitaskurðavel	prst0027	Bitaskurð	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	28	Bitaflokkari	prst0028	Bitaflokk	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	29	Gæðskoðun	prst0029	Gæðskoðun	IPC	localhost	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a
	30	IPAD LYFTARI	prst0030	IPAD LYFTA	IPC	localhost	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a

Workstation devices			
Type	Device	Default	XML
Scale	Virtual scale	<input checked="" type="checkbox"/>	a
→		<input type="checkbox"/>	

This change includes an improved database structure that provides a better overview of workstation capabilities, both for users and for systems outside of the WinUI. Previously these capabilities were hidden in XML in the **System programs** table.

Note that with this change, **stations** can no longer be created. Instead, you must create workstations and then extend them in the **Stations** view.

For more information:

- See Base
- See Process

New and improved Criteria Framework

The **Criteria Framework** enables the uniform filtering of data across Manufacturing Execution modules and products by using a set of standard controls. In this version, the old framework was overhauled to remove errors and redundant classes, fix bugs and simplify the overall framework for improved functionality and ease of use.

For more information:

- See Base

QC Scanner now available

The **QC Scanner** module is now available as part of this release. See New in this release. It includes several new features and improvements, including:

Improved WinUI features

In the office WinUI there are now buttons to enable a filter panel to filter based on measurement values for the registrations. With this filter it is possible to combine various conditions with operators such as AND and OR (see the left panel of the screenshot below).

There is also a button to open an image viewer, which automatically loads any selected record. You can save a selected image by right-clicking in the image viewer.

In addition, it's now possible to export a large selection by selecting multiple records and selecting **Add image to zip**.

The screenshot displays the QC Scanner WinUI interface. At the top, there are tabs for 'System program interfaces', 'QC Scanner systems', and 'Individual data'. Below the tabs is a toolbar with buttons: Clone, Autofilter, Refresh, Confirm, Print, Operations, Show/hide filter panel, Show/hide image viewer, Add image to zip, Save zip, and Clear zip. The main area is divided into three sections:

- Filter Panel (Left):** Contains logical operators 'And' and 'Or'. Under 'And', there are three filter conditions: '[weight (g)] is greater than or equal to 2.000,0 g', '[Blood (mm²)] is greater than or equal to 80 mm²', and '[Melanin (mm²)] is greater than or equal to 70 mm²'.
- Data Table (Center):** A table with columns: Station, Product, Process period, Sub-process period, Purchase order, Lot, Shift, Batch, Lane id, Production day, and Registration time. The table contains multiple rows of data for 'Salmon filet'.
- Image Viewer (Right):** Displays a simulated image of a salmon filet. A 'Save' button and a 'Zoom' dropdown are visible over the image. The word 'SIMULATED' is printed at the bottom of the image.

Below the data table, there is a 'Measurement values' section with a table:

Name	Measurement value	Unit
Belly5	22,9	%
BellyLoon	2,3	%
BellyBone	0	On/Off
Front1	0,1	%
Front2	3,5	%
Color	31	Color Grade
Blood	80	Millimeters²
Melanin	1	Millimeters²
CenterCart...	0	%

Backend features

A new system program was added, *QCScanImageImport.exe*, which can import image files to a locally accessible folder. To connect the new system program to a QC Scanner system, select it

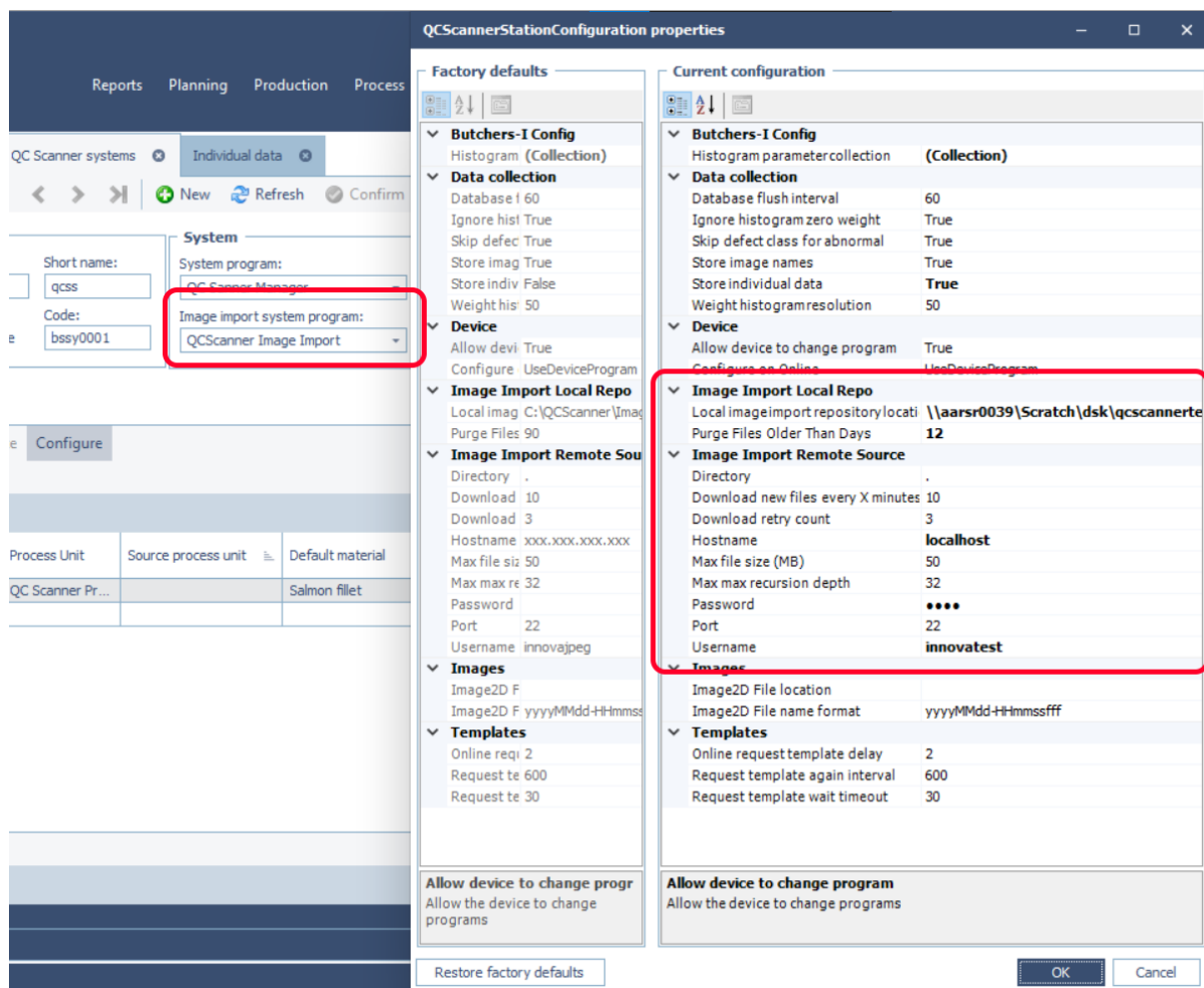
in the **Image import system program** drop-down menu.

Two new sections were added to the QC Scanner Station configuration that must also be configured:

- Image Import Local Repo
- Image Import Remote Source

These include the following properties:

Property	Description
Local image import repository	<p>The location that files are downloaded to on the local Manufacturing Execution installation. It can be a path to a local folder or a shared folder. This is a required property that must be set.</p> <p>Note: Previously there was a property that pointed to a local folder, from which files could be loaded into the office WinUI. You can set Local image import repository to the same path and everything will work as before.</p>
Hostname	<p>The hostname or IP address of the QC Scanner device to automatically download pictures from. When pictures are downloaded, they are written to the Local image import repository path. This is a required property that must be set.</p> <p>Note: This is not the same as the PLC address used in the Devices view but rather the address to the vision computer in the QC Scanner. Refer to the hardware manual for details about how to find the correct address.</p>
Password	Should be correctly set by default.
Username	Should be correctly set by default.
Purge files older than days	Whenever files in the local image import repository path gets older than this number of days, they will be deleted, and will not be downloaded again.
Download new files every X minutes	The image importer system program will try to look for new files to download every 10 minutes by default. That means that images might not be visible in the office WinUI until up to 10 minutes have passed. This setting can be adjusted down to 1 minute for quicker updates.



Other improvements

- Improved the individual (single fillet) view:
 - Data filters can be saved and recalled
 - Easier to select fillets for export using checkboxes

- Image export can now automatically create a details report covering the exported fillets
- New dashboard component for showing parameter data over time

Included in this release

The following AXIN Software Manufacturing Execution modules and products are included in this release from version 6.1.3:

Manufacturing Execution module	Module version	Product name	Disclaimer
Base	7.1.3	Not a sold product	
Data Visualization	4.0.1	Not a sold product	Dependency with WebUI 4.0.1 Note that the URL of the reverse proxy has changed from innov-aweb to axin . Be sure to change your bookmarks to this URL.
Process	6.2.3	Final Goods Manager	
		Inventory	
		Labeling	
		Line Profiler	
		Order Manager	
		Time Registration	
Web UI	4.0.1	Not a sold product	Dependency with Data Visualization 4.0.0 Note that the URL of the reverse proxy has changed from innov-aweb to axin . Be sure to change your bookmarks to this URL.
Carrier View	5.0.3	Not a sold product	Included to support the CLS and SIS (IPPS) modules
CLS	4.0.2	Chiller Logistics System	
Deboning	4.0.2	Meat StreamLine	
		StreamLine Trimming	

Decision Matrix	3.0.2	Not a sold product	
FLS	3.0.1	Crate and Box Distribution Solution	
Grading	4.0.3	RoboBatcher	
		Accuro	
		Grader	
		Compact Grader	
		Dynamic Order Control (see SPacker)	
		FleXisort	
		SmartSort	
		Takeaway with Integrated Checkweigher	
		Takeaway with Terminal	
IMPAQT	4.0.2	IMPAQT	Not available without first contacting Engineering
Integration	4.0.2	Integration Services	
IRIS	4.0.2	Intelligent Reporting, Inspection and Selection (IRIS)	Not available without first contacting Engineering
Monitoring	4.0.2	Equipment Monitoring	Not available without first contacting Engineering
OEE	5.0.4	OEE	Included only to support IMPAQT, MCheck2, WPL and the A600 Grader. This release includes support for selected products only on request.
OptiPack	4.2.2	Packing	Support for OEE in this release of OptiPack is available only on request.
		Box Management System (BMS)	Solution not sold as a standard product

		Mcheck2	
		Multihead Weigher	
		Packing Scale License	
		SpeedBatcher	
		TargetBatcher	
PDC	4.0.3		Not available without first contacting Engineering
PDS	5.0.1	PDS	Included to support the PDS functionality needed for IRIS, SmartWeigher (Abstraction module)
Portioning	3.0.1	FleXicut	
		I-Cut (dual lane)	
		I-Cut (single lane)	
Prepared Foods	2.0.0	Convenience Line Software Central Equipment Control	Not available without first contacting Engineering
QC	3.1.1	Quality Control	
SensorX	4.0.1	SensorX Poultry	
SIS	4.0.2	Primary Processing Software (IPPS) - Beef	
		Primary Processing Software (IPPS) - Pork	
SmartWeigher	4.0.2	SmartWeigher	Not available without first contacting Engineering
Sol.BoxSorter	3.0.2	Not a sold product	
Sol.Fish	4.0.1	Purchase Order Reweighing (Not a formal product)	
Sol.Hopper Distribution	2.0.0		

Sol.WFExport	3.0.0	Not a sold product	
Sol.SPacker	3.0.2		
Stork Solution	2.0.2	Not a sold product	
Recipe	4.0.0		
Trimming	5.0.2	Trimming	
		Manual Trimming	
		Fish Streamline 900	
		Poultry Streamline 900	
		Poultry Streamline 1100	
Unit Operations	4.0.1	Unit Operation Station	
VID	4.0.1	Fillet Distribution	Required dependency to support PDC.
Web	4.0.1	Web	Included to support other modules
Weighbridge	4.0.1	Not a sold product	
WPL	3.1.3	Weigh Price Labeler	
		Inline OCM 9500	
Yield Control	4.0.1	Yield Control	
		Flowscale	
		Yield Registration Device	

New in this release

The following application modules were also added as part of AXIN Software Manufacturing Execution in version 6.2.0:

Manufacturing Execution module	Module version	Product name	Disclaimer
QC Scanner	2.0.3	QC Scanner	

Base

Module: 7.1.3

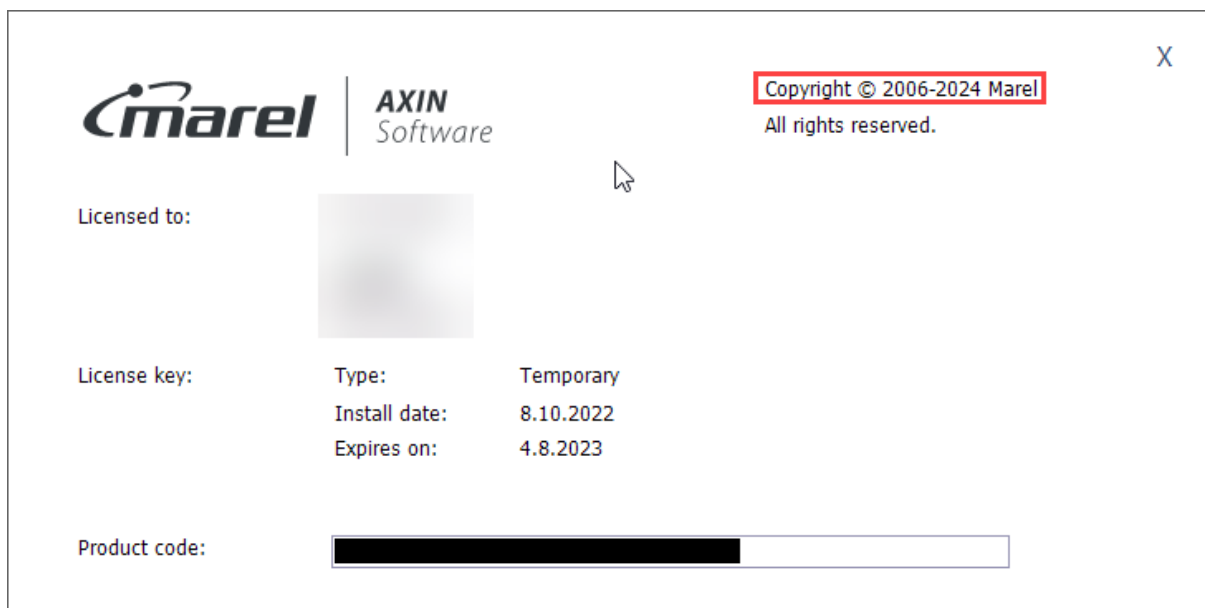
Changes in this release are from module version 6.4.3 to 7.1.3.

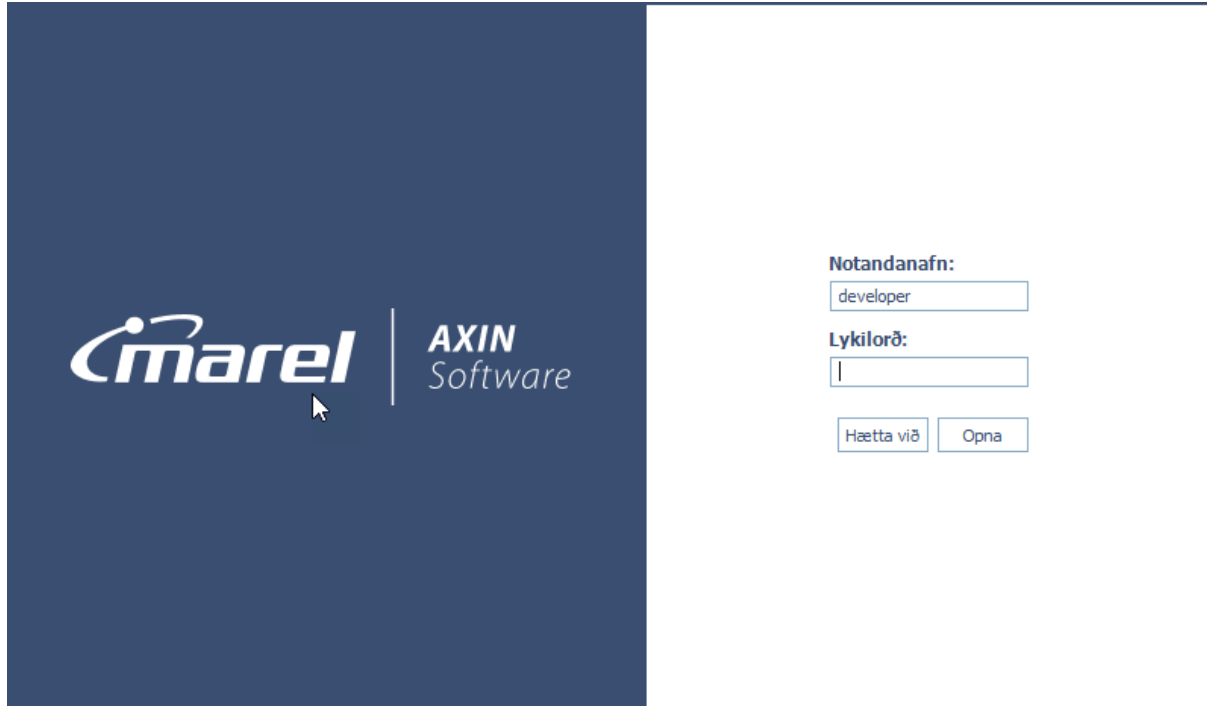
New features and improvements

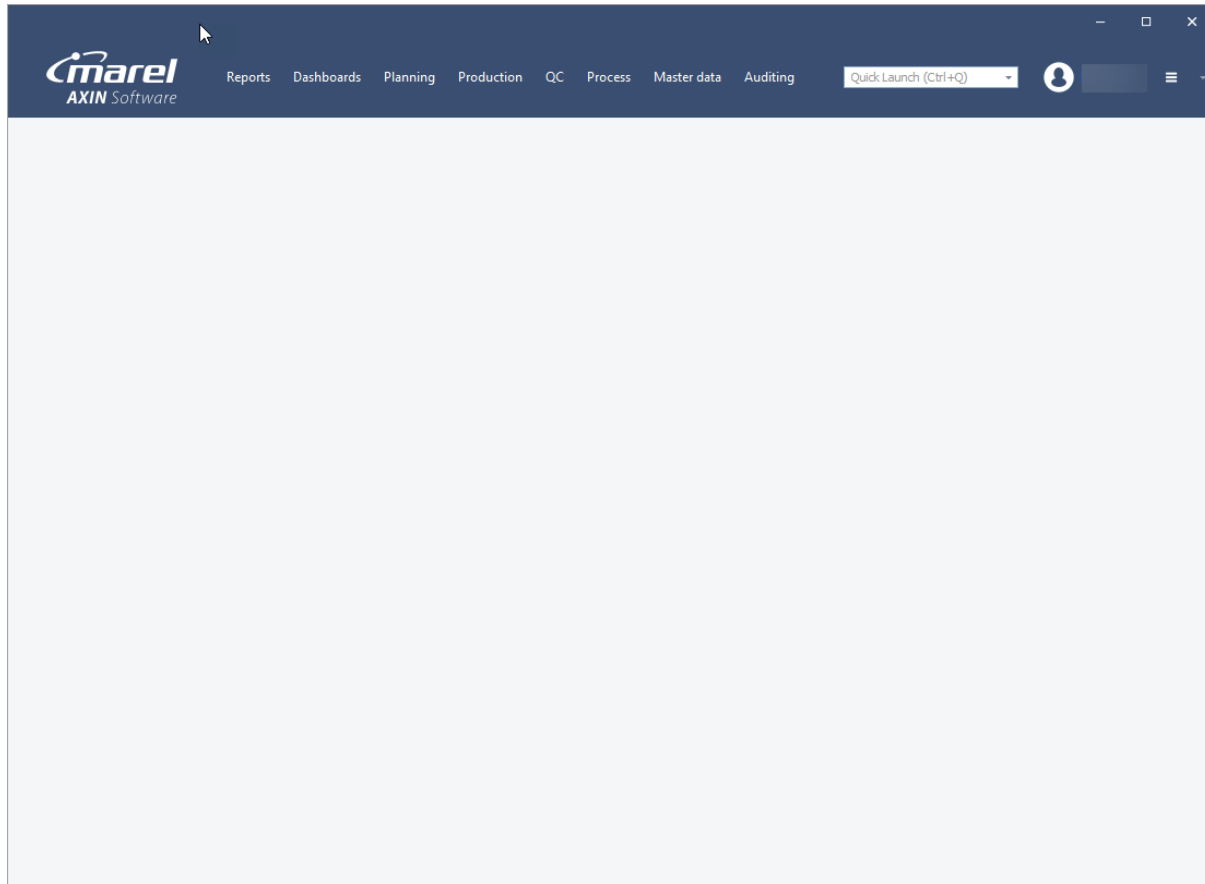
The following new features and improvements to functionality were added:

Innova is now AXIN Software Manufacturing Execution

Branding was updated across the system and in the WinUI to reflect the new name of Marel's software solutions portfolio, AXIN Software. In addition, the copyright notice was updated and the new logo icon appears in the Windows taskbar button for the application.



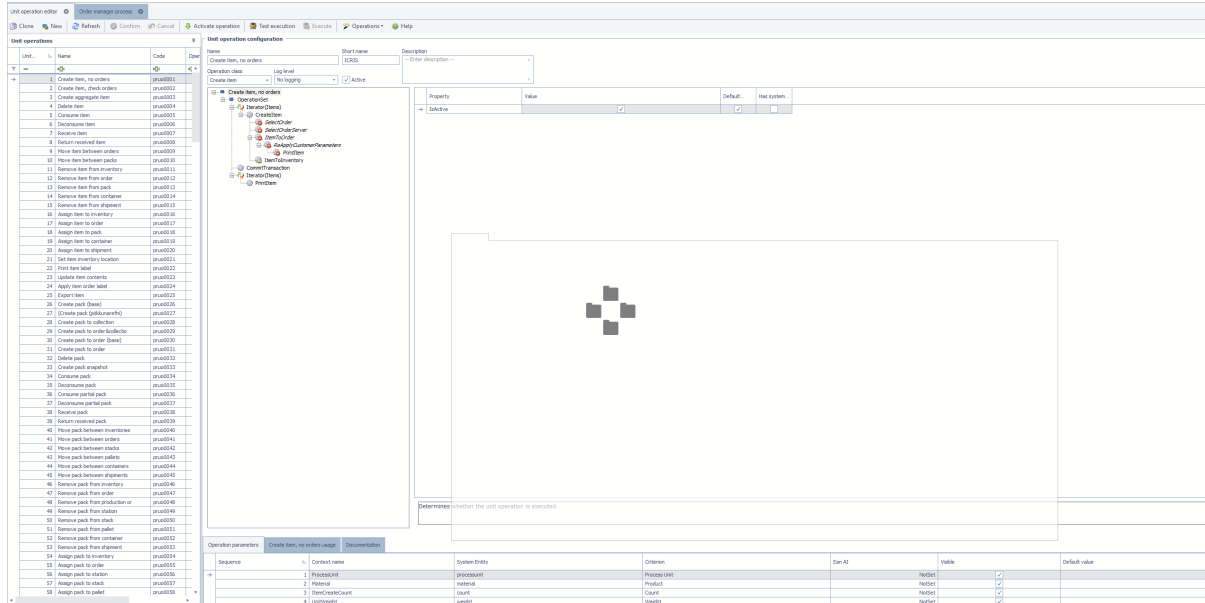




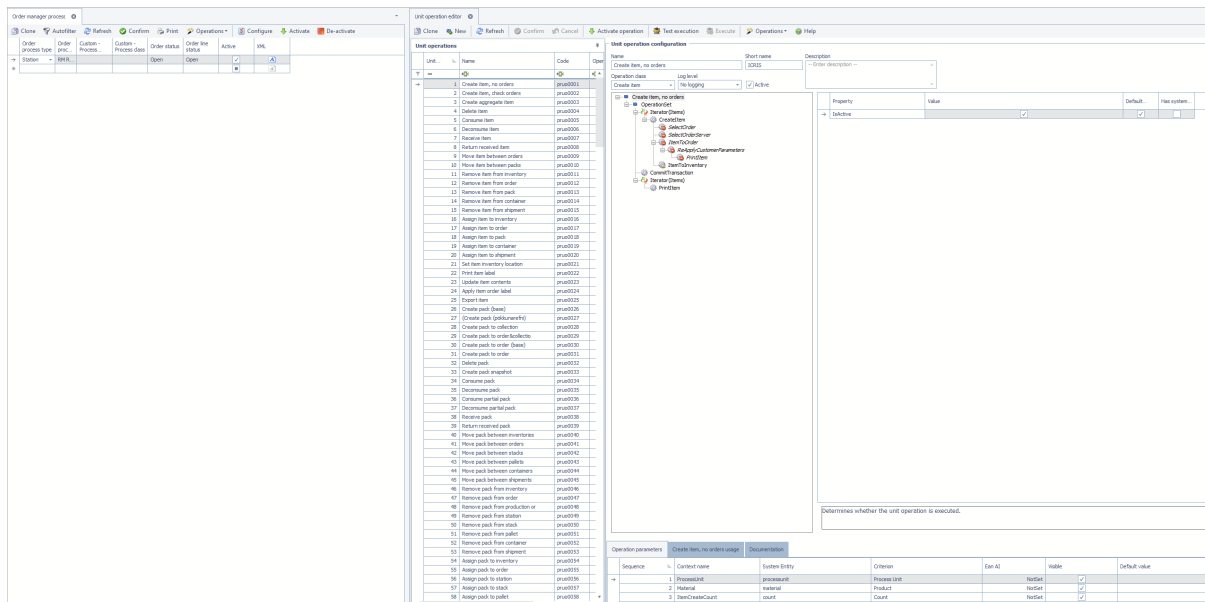
Customize layouts in the WinUI

The tab system in the WinUI office interface was overhauled to provide greater flexibility, allowing you to create and save your own layouts.

To create a new layout, drag and drop tabs to the folder icons in the middle of the screen to dock multiple tabs side-by-side or stack them vertically.



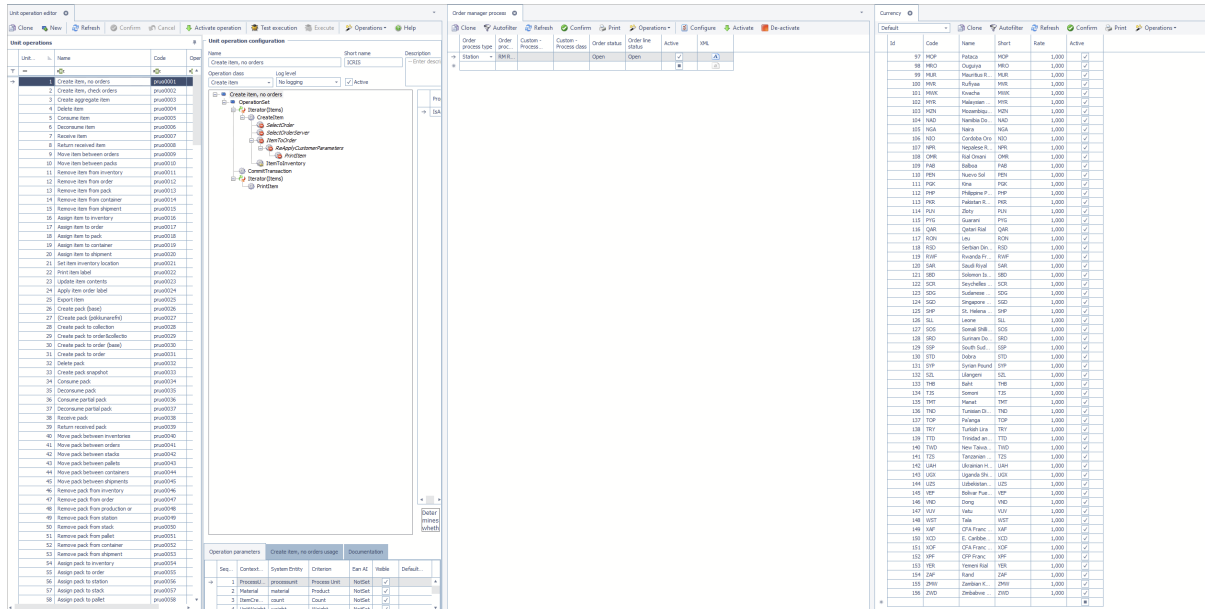
Example of two tabs open side-by-side:



Example of three tabs open side-by-side:

Manufacturing Execution 6.2.0 Release Notes

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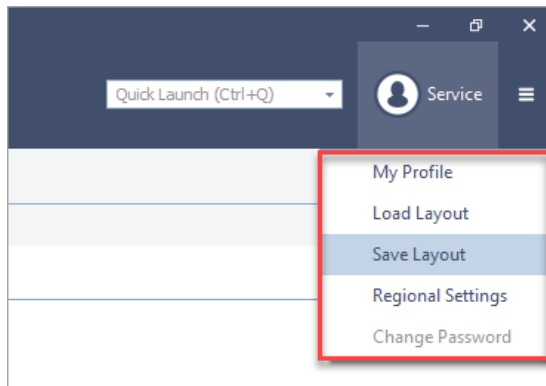
Example of tabs stacked vertically:



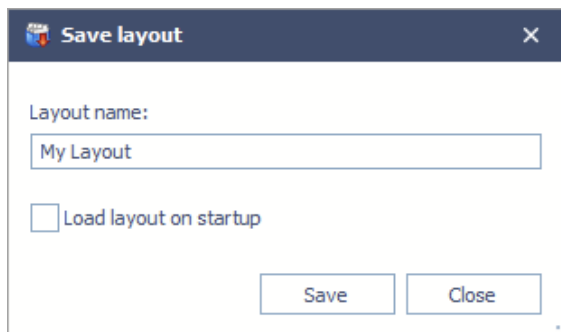
In addition, you can save layouts and select which layout to load on startup.

To save a layout

1. Select your username at the top of screen to open the drop-down menu and select **Save Layout**.

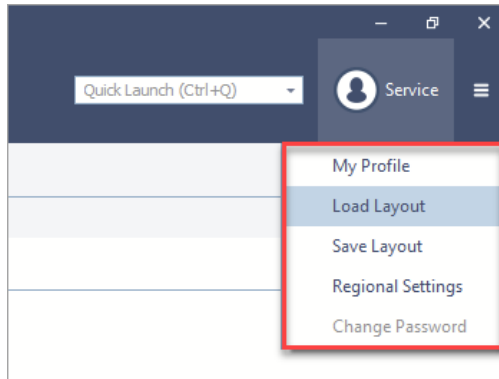


2. Enter a name for the layout. If you want to load the layout on startup, select the checkbox.

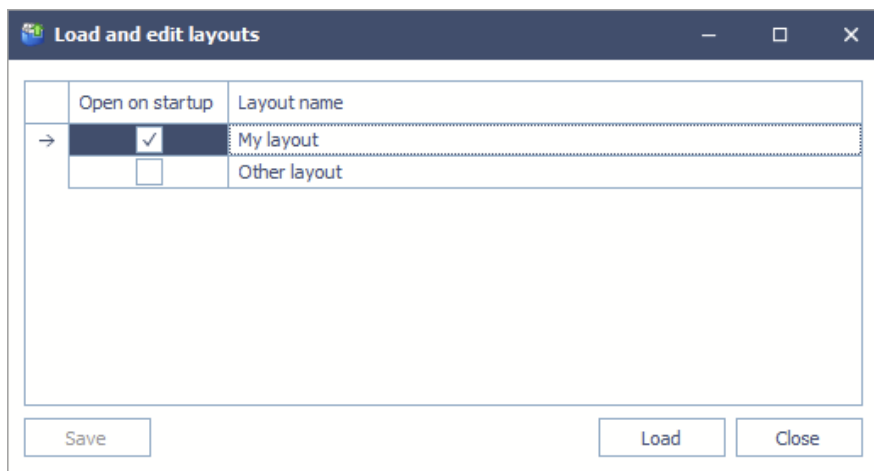


To select another saved layout to open on startup

1. Select your username at the top of the screen and select **Load Layout**.



2. In the **Load and edit layouts** dialog, select the layout you want to open on startup.



Workstations

WinUI, IPC and PDA clients can now be started without startup parameters. Instead, the computer name or IP address in the new **Workstations** view is used to look up which workstation to open. This requires that only one entry in the **Workstations** view has the computer name or the IP address of the computer in the *Address* column.

- If none is found, an error is displayed.
- If more than one is found, an error is displayed.

This behavior can be overridden with the new `-w` parameter, which refers to the ID of the workstation in the **Workstations** view.

Workstations														
Devices														
Clone Autofilter Refresh Confirm Print Operations Configure														
Id	Name	Code	Short	Type	Address	Department	Job	Logout station	Active timeout (sec)	Active	Locking	Multiple employees	XML	
10	Lina - Stæð 11	prst0010	Lina A - 6	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11	Lina - Stæð 12	prst0011	Lina B - 6	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12	Lina - Stæð 13	prst0012	Lina A - 7	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13	Lina - Stæð 14	prst0013	Lina B - 7	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14	Lina - Stæð 15	prst0014	Lina A - 8	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15	Lina - Stæð 16	prst0015	Lina B - 8	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16	Lina - Stæð 17	prst0016	Lina A - 9	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17	Lina - Stæð 18	prst0017	Lina B - 9	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18	Lina - Stæð 09	prst0018	Lina A - 5	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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24	M6000 - Þökkunarstöð 2	prst0024	M6000 - Þö	IPC	192.168.3.63	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
25	Blokkarpökkun	prst0025	Blokkarpök	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
26	Sporðaskurðavel	prst0026	Sporðaskurð	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
27	Bitaskurðavel	prst0027	Bitaskurð	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
28	Bitaflokkari	prst0028	Bitaflokka	Not set		Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
29	Gæðskoðun	prst0029	Gæðskoðun	IPC	localhost	Vinnsla			300	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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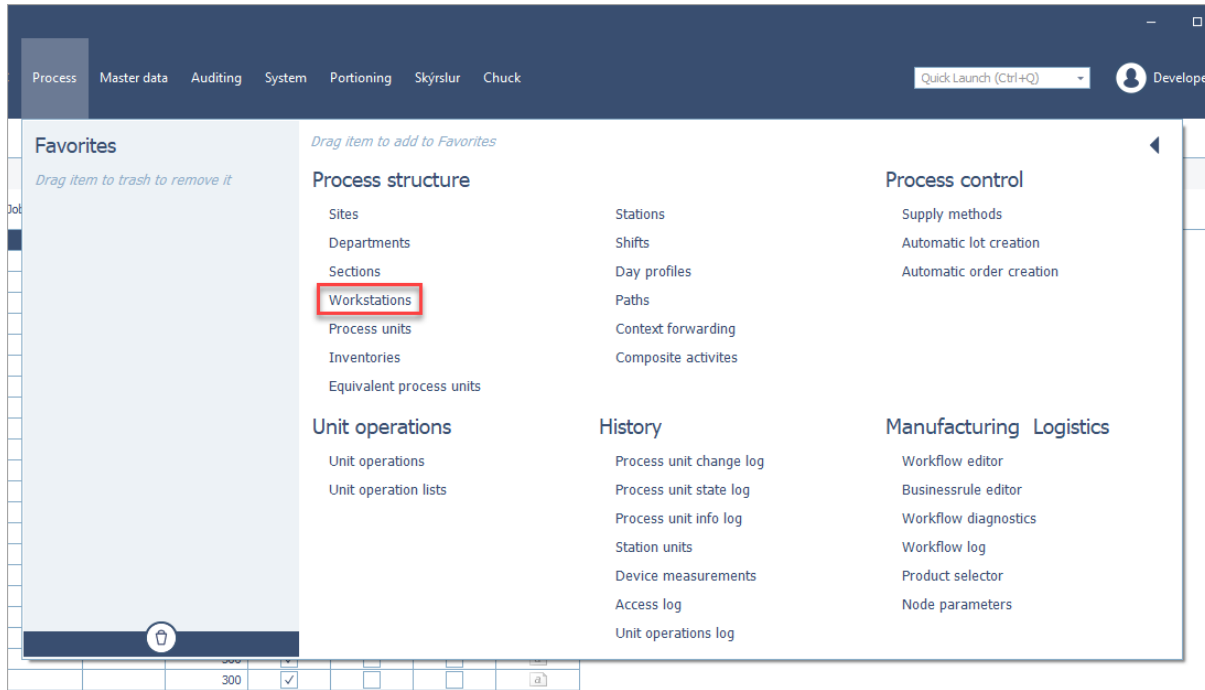
Workstation devices			
Type	Device	Default	XML
Scale	Virtual scale	<input checked="" type="checkbox"/>	
→		<input type="checkbox"/>	

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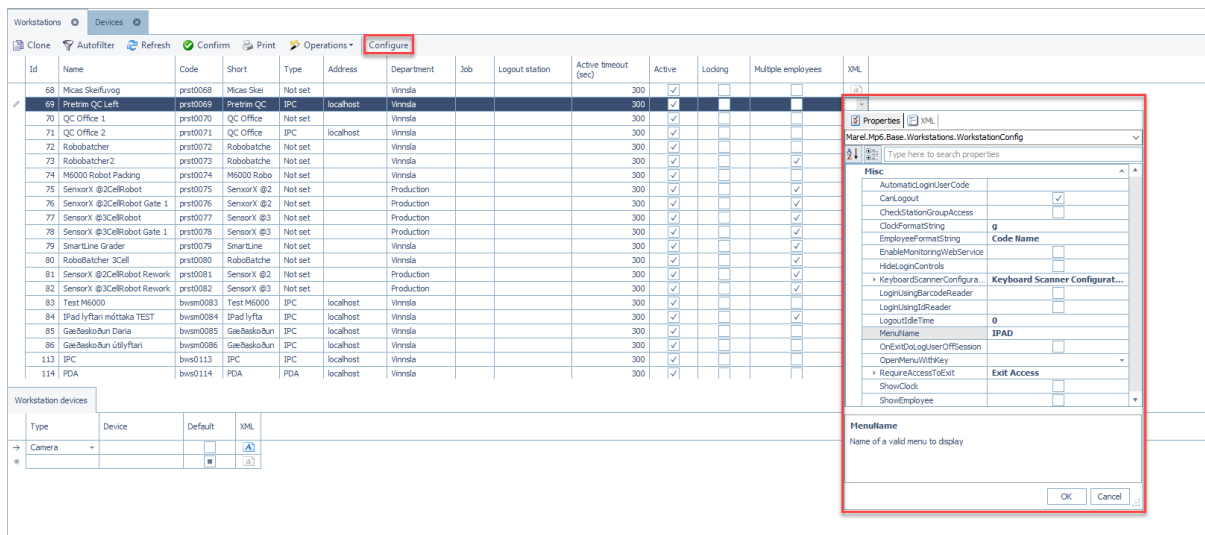
Note that with this change, stations can no longer be created. Instead, you must create workstations and then extend them in the **Stations** view.

Configuration

When the Base menu package is installed, the **Workstations** view is added to **Process > Process structure** in the main menu. The view can also be added from the Menu Editor using the **Marel.Mp6.Base.UI.UserForms.Workstations.Workstations** view type.



Workstations are configured on IPCs, PDAs or Billboards from this view. Select **Configure** in the toolbar or open the Properties dialog in the **XML** column.



All device-specific configuration (e.g. scales, barcode readers, cameras, etc.) was moved to a **Workstation devices** detail tab for each workstation.

Workstations														
Devices														
Clone Autofilter Refresh Confirm Print Operations Configure														
	Id	Name	Code	Short	Type	Address	Department	Job	Logout station	Active timeout (sec)	Active	Locking	Multiple employees	XML
	25	Blökkarpökkun	prst0025	Blökkarpök	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	26	Sporðskurðavél	prst0026	Sporðskurð	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	27	Bitaskurðavél	prst0027	Bitaskurð	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	28	Bitaflokkari	prst0028	Bitaflokk	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	29	Gæðaskoðun	prst0029	Gæðaskoðun	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
→	30	IPAD LYFTARI	prst0030	IPAD LYFTA	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	31	Pökkunarstöð - Fersk 1	prst0031	Pökkunarst	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	32	Flexicut 1- Snæld	prst0032	Flexicut	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	33	Hnakkaflokkari	prst0033	Hnakkaflok	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	34	Flexicut 2 - Snúður	prst0034	Flexicut 2	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	35	Samvalsflokkari gamli hægri	prst0035	Samvalsflo	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	36	IQF Flokkari nýi hægri	prst0036	IQF Flokk	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	37	Gæðaskoðun L1 V	prst0037	Gæðaskoðun	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	38	Pökkunarstöð - Fersk 2	prst0038	Pökkunarstö	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	39	Mök Pökkun Flug	prst0039	Mök Pökkun	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	41	iPad Flug	prst0041	iPad Flug	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	42	iPad Gæðaskráning	prst0042	iPad Gæðas	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	43	iPad Pantanir	prst0043	Pantanir	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A
	44	iPad Test	prst0044	iPad Test	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A
	45	iPad Lyftari móttaka	prst0045	iPad Lyfta	IPC	localhost	Vinnsla			300	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A
	46	Samvalsflokkari nýi vinstri	prst0046	Samvalsflo	Not set		Vinnsla			300	✓	<input type="checkbox"/>	<input type="checkbox"/>	A

Workstation devices				
Type	Device	Default	XML	
Camera		<input type="checkbox"/>	A	
Scale	MU1 Compact Pökk...	<input type="checkbox"/>	A	
→		<input checked="" type="checkbox"/>		

Note that the **Camera** workstation device is the only workstation device type that should NOT have the device selected in the **Default** column on the detail tab and is the only device type that contains configuration in the **XML** column.

Workstation devices				
Type	Device	Default	XML	
Scale	Móttaka - M2200 V...	<input checked="" type="checkbox"/>	A	
* Camera		<input type="checkbox"/>	A	

Properties XML	
Marel.Mp6.Base.Workstations.WorkstationCameraConfig	
Type here to search properties	
Misc	
CameraImageFormat	Jpeg
CameraImageQuality	Low
CameraIndex	0
ResolutionIndex	0
Rotate180	<input type="checkbox"/>
CameraIndex	Index of the camera.
OK Cancel	

For more information about configuring workstations, see the *System Administration Manual*.

Virtual scale

A new device type was added for the virtual scale, which is used in the interactive scale component on IPCs. The scale can now go to 999.99 instead of just 99.99. It is no longer supported to add the device ID -99 to the IPC configuration to get a virtual scale.

To add a virtual scale

1. In the **Devices** view, create a device with the **Virtual scale** device type.
2. In the **Workstations** view, add the virtual scale device to the list on the **Workstation devices** detail tab.

For more information, see the *System Administration Manual*.

Upgrades and migrations

When upgrading a system, the stations defined in the **Stations** view are migrated to the new **Workstations** view, and stations become an extension of workstations. Most migrations are handled automatically, but stations that can't be migrated will still appear in the **System programs** view and require manual action.

After a system is updated, WinUI.exe entries in the **System programs** view that do not have a *stationId* in the configuration (or the *stationId* doesn't exist) cannot be migrated. These entries must be manually moved to the **Workstations** view.

System programs										
Default										
		Clone	Autofilter	Refresh	Confirm	Print	Operations	Open Control Form	Trace	Log
Id	Name	Short	Executable	Executable type	Directory	Sequence	Start delay (sec)	Parameters	Computer	Program type
77	CIE M6000	CIE	WinUI.exe	Standalone executable					localhost	Control program
83	M6000 Pikkun IQF Lättsal	M6000 Pikk	WinUI.exe	Standalone executable					192.168.3.82	Control program
90	M6000 Pad Plug	Pad Plug	WinUI.exe	Standalone executable					localhost	Control program
92	IPAD3	IPAD3	WinUI.exe	Standalone executable					GRBPC4698	Control program
112	Packing IPC	Packing IP	WinUI.exe	Standalone executable					localhost	Control program
150	Roljarieli 1	Roljarieli	WinUI.exe	Standalone executable					GRBPC4698	Control program
152	Roljarieli 2	Roljarieli	WinUI.exe	Standalone executable					GRBPC4698	Control program
170	M6000 Pikkunestö IQF - Test	M6000 Pikk	WinUI.exe	Standalone executable					GRBPC4698	Control program
22	M6000 - Afur BaskoJun 2	Blokkariko	WinUI.exe	Standalone executable		21	2		localhost	Control program
60	M6000 Pikkunestö fersk 1	Pikkunest	WinUI.exe	Standalone executable		99	2		192.168.3.36	Control program
79	M6000 Pikkunestö fersk 1	M 6000 Pikk	WinUI.exe	Standalone executable		99	2		192.168.3.81	Control program
80	M6000 Pikkunestö IQF	M 6000	WinUI.exe	Standalone executable		99	2		192.168.3.69	Control program
82	M6000 Pikkunestö fersk 2	M6000 Pikk	WinUI.exe	Standalone executable		99	2		localhost	Control program
126	M6000 compact Pikkun	M6000 Robo	WinUI.exe	Standalone executable		99	2		192.168.3.171	Control program
136	M6000 Robot Pikkun	M6000 Robo	WinUI.exe	Standalone executable		99	2		192.168.3.47	Control program
144	M6000 QC ahan Robot	M6000 QC a	winui.exe	Standalone executable		99	2		192.168.3.107	Control program
102	Pre_trim line - Billboard	Pre_trim l	WinUI.exe	Standalone executable		1002	2		localhost	Control program

To move a WinUI.exe entry to the **Workstations** view

1. In the **Workstations** view, create a new entry and either configure it again or move the XML configuration from the system program to the workstation. Note that the configuration class has changed (See Configuration).
2. On the **Workstation devices** detail tab, select the devices from the old configuration. You must also add the **Camera** device configuration to the XML column for all camera workstation devices.
3. After updating, there should be no WinUI.exe entries in the **System programs** view.

NOTE: Before updating, you can use the following SQL query to identify all WinUI.exe entries in the **System programs** view that must be manually migrated to the **Workstations** view.

```
select * from
  (select (xmldata.value('(DataRoot/WinUI.Platforms.M6000.M6000UIAppConfig/StationId/node())[1]', 'int')) as stationId, *
   from base_sysprograms
   where executable like '%WinUI.exe%') noStationWinUIs
where stationId = 0
or stationId not in (select station from proc_stations)
```

Shortcuts

Preferably, the address for a workstation in the **Workstations** view should be the **IP Address/Computer Name** of the IPC client. If the address is not set correctly in the Workstations view, then you must set the -w parameter to the workstation ID found in the Workstations view.

Criteria Framework improvements

The **Criteria Framework** enables the uniform filtering of data across Manufacturing Execution modules and products by using a set of standard controls. In this version, the old framework was overhauled to remove errors and redundant classes, fix bugs and simplify the overall framework for improved functionality and ease of use.

Key changes include the following:

- The **Editor** function is no longer shown for uneditable columns.
- The **F8** keyboard function can now be disabled for read-only columns.
- Default values were added for Boolean column table descriptions.
- In the Lookup popup, *TotalDataRows* was updated to be "Null" at first and set only when all data is retrieved in the beginning.
- **Date/time** criteria is now set as "Required" by default.
- In reports with a breakdown, the **Breakdown** criteria value is no longer displayed in the header of the report. Filtered criteria values are shown in the caption.
- Improvements to criteria filtering:
 - **Default criteria values** can be used to preset a default criteria value when the selected criteria is available and visible in the Criteria panel, i.e. it is a criteria parameter for the view and is visible when setting the appropriate **Display by** value. For example, in the *Marel.Mp6.Process.UI.Windows.Data.Pallets* view, a default value for **prunit** can be preset when you select **Display by = Proc.unit and status**. Select **Refresh**, to only display data for that **prunit**. You can select different prunits to filter the data accordingly.
 - **Fixed criteria values** can be used for filtering the data in the view when the selected criteria is available, i.e. is a criteria parameter for the view, independent of what is selected for **Display by**, meaning it does not have to be visible. For example, in *Marel.Mp6.Process.UI.Windows.Data.Packs* view, setting a fixed value for **prunit** filters the data in the view because **prunit** is available, i.e. it is a criteria parameter for the view, even if it is not visible in the Criteria panel.

☒ Active
Display name: ☐ Can open multiple instances
 ☐ Is Private
System name:

View #122
View type:
Component:
View object:
Template:
Resource name:

Criteria

Parameter	Control	Edit	Visible	Default value	Fixed	Value
8. lot	<input type="text" value="Lot"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
9. plot	<input type="text" value="Lot"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
10. station	<input type="text" value="Station"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
11. shipment	<input type="text" value="Shipment"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
12. regtime	<input type="text" value="Registration time (range)"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
13. department	<input type="text" value="Department lookup"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
14. prunit	<input type="text" value="Process Unit"/>	<input type="button" value="Edit"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="ProcessUnit 3"/> <input type="button" value="Clear"/>
15. stackbysiteandnumber	<input type="text" value="Stack"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		

- You can select other criteria than the fixed values selecting **Autofilter** in the toolbar, but rows are not displayed for those process units.

Menu editor: ☒ Pallets - Fixed prunit ☒ Packs - Fixed single prunit ☒

default

Display by:

Site	Prod. day	Production day	Process unit	Process period	Order	Order line	Weight (kg)	Nominal weight
	Inventory and day							
	Order and day							
	Shift and day							
NewCrt	PO and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Batch and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Lot and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Prod.lot and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Station and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Department and day	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Stack	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Pallet	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Container	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Shipment	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Registration time	t 1	ProcessUnit 3	73			111,000	111
NewCrt	Pack	t 2	ProcessUnit 3	79			100,000	100

Improved email support

A new, improved **Email Service** was implemented to provide a more reliable authentication method for multiple email providers. This service must be used if sending emails is required. The *EmailNotificationPlugin* was also updated to use the new service.

Email server program

To use the Email Service, the email server program *EmailServices.exe* must be configured in the **System Programs** view and run by a program manager. The server program has a Web API interface and sends emails to the configured provider. It supports simple SMTP, Microsoft Office 365 and Google Mail. Only one instance of the email server program should be running in the system at a time.

Email server configuration

In the XML configuration for the server, enter configuration parameters for the selected email provider. After a provider is selected, all emails are sent using that provider. The server does not support multiple providers at the same time.

The screenshot shows the 'Email Services' configuration window. The 'Properties' tab is active, displaying the 'EmailServiceConfiguration' for 'Marel.Mp6.Base.Notifications.EmailServices.EmailServiceConfiguration'. The configuration is organized into several sections:

- Service type:** A dropdown menu with 'Microsoft' selected.
- Email server:** Fields for 'Server server:', 'Port no.:', 'Login name:', and 'Password:'. The 'Port no.' field contains '587'.
- Authentication:** Fields for 'Tenant id:', 'App id (Client id):', 'App Secret:', and 'Authentication scope:'.
- Email:** A field for 'Email sender:'.

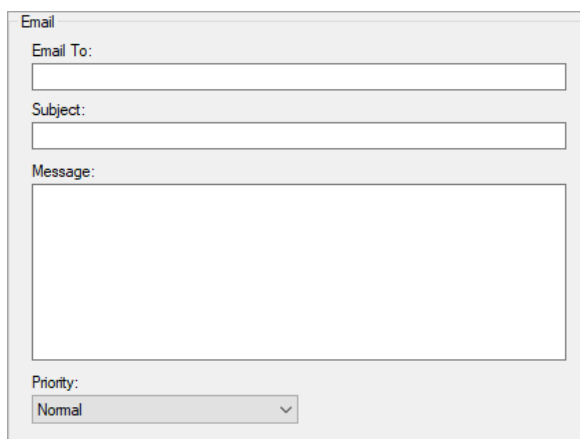
At the bottom right, there are 'OK' and 'Cancel' buttons.

Email client

To use the Email Service, an email client named *EmailServiceClient* is provided.

To use it, open the *EmailServiceClient* and then call the *SendEmailMail* (*EmailSendData* data) function and provide the email data to be sent in the *EmailSendData* object.

Below is an example *EmailSendData* form to get data from the email. The Email Service validates the data and if required data is missing, then an exception is thrown by the server program.

A screenshot of an email form interface. The form is titled "Email" and contains four main sections: "Email To:" with a text input field, "Subject:" with a text input field, "Message:" with a large text area, and "Priority:" with a dropdown menu currently set to "Normal".

Email	
Email To:	<input type="text"/>
Subject:	<input type="text"/>
Message:	<div></div>
Priority:	<div>Normal</div>

Toolbox changes

In this version, **Toolbox** tasks are significantly more visible to users, reflecting their increased importance within the Manufacturing Execution platform. Changes and improvements made to the Toolbox include the following:

- Improved database creation
- Updated Pending Migrations view
- License Key Installer added to Toolbox
- System Log improvements

Improved database creation

The **Create new database** option received a UI upgrade and some back-end hardening. These changes match the options available in the **Installation Manager**, like creating an *innova.config* system entry for an existing database.

Toolbox **Create new database**

Tools

- Common
- Innova system
- System log
- Database
 - Create new database**
 - Database maintenance
- License
- Migrations
- Quick config

Tool

Operation

- ☒ Create a new database and innova.config entry
- ☐ Create innova.config entry for existing database

Database settings

Database server: GRBPC4673\SQLSERVER19 Authentication mode: SQL Server Authentication

Database name: <enter value> User name: <enter value>

Database collation: SQL_Latin1_General_CP1_CI_... Password: <enter value>

☐ Expand database to 10GB Base port: 7000

☒ Verbose output

Create

System settings

Company name: <enter value>

Site name: <enter value>

Serial Shipping Container Code (SSCC) prefix: <enter value>

Product code: <enter value>

Measurement unit: SI units (metric)

Culture: English (United States)

Create Database Version: 7.0.1.0

Log

- 28.10.2024 14:54:40 Selected Innova system: (84) Innova_EmslandV8Demo, Database Server: GRBPC4673, Database: Innova_EmslandV8Demo
- 28.10.2024 14:55:10 Loading data from system log.
- 28.10.2024 14:55:11 Data from system log loaded.
- 28.10.2024 14:57:50 Loading data from system log.
- 28.10.2024 14:57:57 Data from system log loaded.

Updated Pending Migrations view

The **Pending Migrations** view in the Toolbox was updated to display both the list of pending migrations and the migration tasks. You can also see the output log for each task separately. This update required changes to how **Migration Tasks** are defined and used.

Toolbox

Tools

Common

Innova system

System log

Database

Create new database

Database maintenance

License

Install license key

Migrations

Compare

Migrations setup

Pending migrations

Quick config

Pending migrations

Run Options

☒ All

☐ Up to Selected

☐ Selected Only

☒ Commit after each migration

☒ Play sound on error/success

☒ Run dependencies check

Migrating all

Count

13

Verify

Run

Refresh

Cancel

Marel.Mp6.Base	Validate dependencies before migrations	Executed	00:00:03
Marel.Mp6.Base	Run baseop.exe -o install_system after migrations	Executed	00:00:26
Marel.Mp6.Base	Run baseop.exe -o update_db_constants after migrations	Executing	
Marel.Mp6.Base	Run baseop.exe -o create_stored_procedures after migrations	Task	
Marel.Mp6.Base	Run baseop.exe -o populate_viewtypes after migrations	Task	
Marel.Mp6.Base	Run baseop.exe -o populate_tablerecordtypes after migrations	Task	

Log

28.10.2024 15:29:23 Generate criteria.

28.10.2024 15:29:23 Reading Data Source Types.

28.10.2024 15:29:23 Add/update 11 criteria from Marel.Mp6.YieldControl.DataModels

28.10.2024 15:29:23 Total: 1 criterion. Added: 0, updated: 1, errors: 0.

28.10.2024 15:29:23 Generate criteria completed.

28.10.2024 15:29:23 Generate criteria complete

28.10.2024 15:29:23 Total: 201 added: 2, updated: 199, errors: 0.

28.10.2024 15:29:23 Generate criteria completed.

28.10.2024 15:29:23 Generate templates.

28.10.2024 15:29:23 Found 4 data model assemblies.

28.10.2024 15:29:23 Reading 'Marel.Mp6.Base.DataModels, Version=7.0.1.0, Culture=neutral, PublicKeyToken=1db5b2bf8165boda'. Found 71 types and 21 interfaces.

28.10.2024 15:29:23 Update

28.10.2024 15:29:23 Reading 'Marel.Mp6.Process.DataModels, Version=6.0.0.0, Culture=neutral, PublicKeyToken=1db5b2bf8165boda'. Found 87 types and 5 interfaces.

28.10.2024 15:29:23 Update

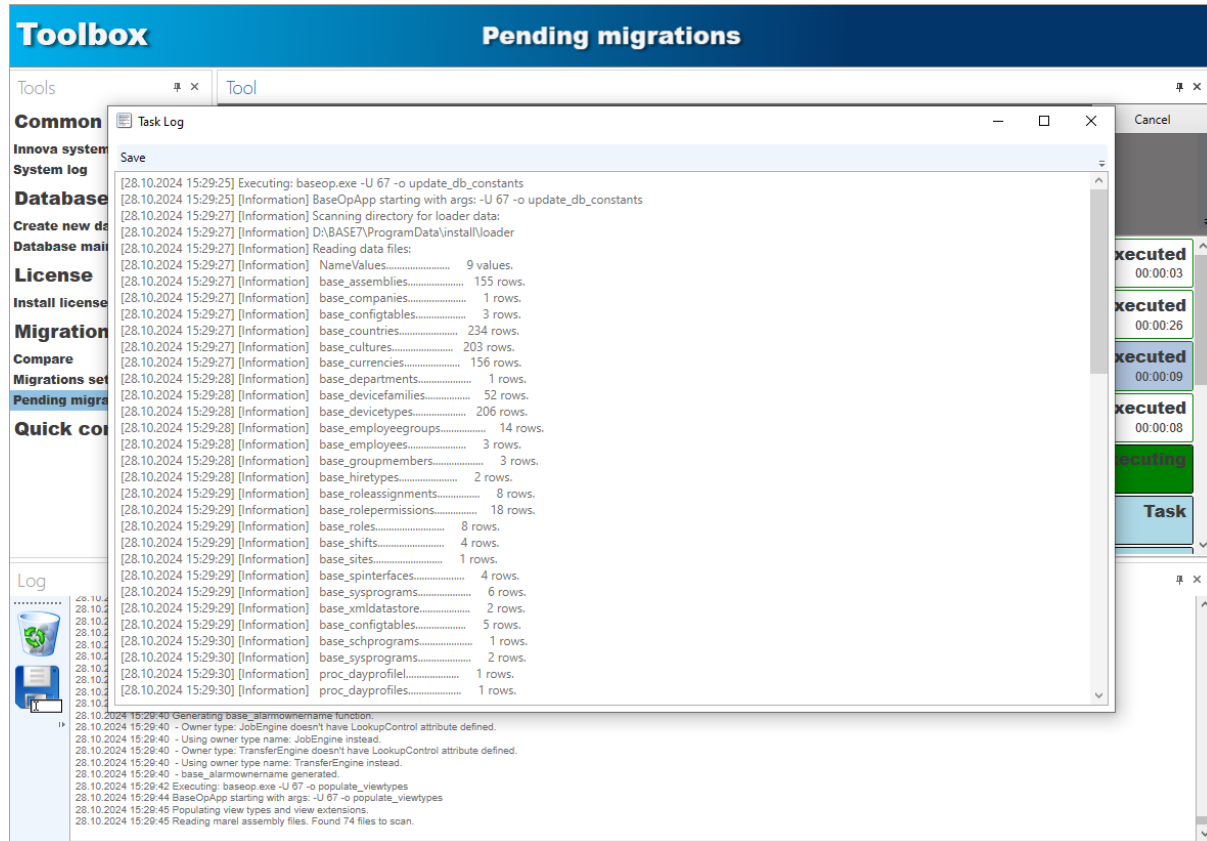
28.10.2024 15:29:23 Reading 'Marel.Mp6.QC.DataModels, Version=3.0.0.0, Culture=neutral, PublicKeyToken=1db5b2bf8165boda'. Found 8 types and 0 interfaces.

28.10.2024 15:29:23 Reading 'Marel.Mp6.YieldControl.DataModels, Version=4.0.0.0, Culture=neutral, PublicKeyToken=1db5b2bf8165boda'. Found 3 types and 0 interfaces.

28.10.2024 15:29:23 Generating templates completed.

28.10.2024 15:29:25 Executing: baseop.exe -U 67 -o update_db_constants

28.10.2024 15:29:25 BaseOpApp starting with args: -U 67 -o update_db_constants



License Key Installer added to Toolbox

The **License Key Installer** application was simplified and moved to the Toolbox to make it easier to request and install a license key. Now you can:

- Change the product code
- Request a license key from CLM or by email
- Install a license key from a file
- Show the server ID

Toolbox

Install license key

Tools

Common

Database

License

Install license key

Migrations

Quick config

Tool

Load Paste Compare Install Request license from CLM Request license via email Store request data Server ID Change product code

License key

License info

Current license: No license key installed.

License codes

License code	Item code	Description	Max instances	Current max instances
inn-base-c13			9999	9999
inn-fing-m10				
inn-grad-c11			9999	9999
inn-grad-c40			9999	9999
inn-grad-c44			9999	9999
inn-inve-c10			9999	9999

Added/increased feature Deleted/decreased feature Unchanged

Log

28.10.2024 14:54:40 Selected Innova system: (84) Innova_EmslandV6Demo, Database Server: GRBPC4673, Database: Innova_EmslandV6Demo

28.10.2024 14:55:10 Loading data from system log.

28.10.2024 14:55:11 Data from system log loaded.

28.10.2024 14:57:59 Loading data from system log.

28.10.2024 14:57:57 Data from system log loaded.

28.10.2024 15:11:52 Comparing license key...

28.10.2024 15:11:52 License keys compared successfully.

Go to start menu

Select your licensing task:

Request License Key from CLM

Request License Key

Install License Key

Show the Server ID

This system already has a License Key installed.

System Log improvements

Now the Toolbox **System Log** allows the copying of multiple lines and details. You can copy data from individual cells, lines, multiple lines and details:

- Selected rows are highlighted. They are unhighlighted when selected again.
- Select or deselect all rows using Ctrl+A.
- When you select Refresh, only the first row is highlighted.
- Right-click on an individual cell to copy the data in the selected cell.
- Right-clicking on a row indicator to the left of the selected row to copy the data in the whole row. Copying multiple rows is also supported in this way or you can use Ctrl+C.

The screenshot displays the 'Toolbox' window with the 'System log' tab selected. The interface includes a sidebar with navigation options: Common, Innova system, System log, Database, License, Migrations, and Quick config. The main area shows a table of log entries. The selected entry is a warning from 19.10.2024 14:10:56, GRBPC4673, hreidar.palsson, PCHOST-BplGraphQLService/53 2.0.0.0. The details pane shows the exception type as System.IO.FileNotFoundException and provides a stack trace. Below the log table, there is a 'Log' section with a list of recent log events and their timestamps.

Log time	Log line	Error level	Computer	User	Program	Component
19.10.2024 14:10:56	1	Warning	GRBPC4673	hreidar.palsson	PCHOST-BplGraphQLService/53 2.0.0.0	

Exception type is System.IO.FileNotFoundException

Error stack:

- 1) Failed to load assembly 'Marel.Mp6.Process.GraphQL, Version=6.0.0.0, Culture=neutral, PublicKeyToken=1db5b2bf8165bcda'
- 2) Could not load file or assembly 'Marel.Mp6.Process.GraphQL, Version=6.0.0.0, Culture=neutral, PublicKeyToken=1db5b2bf8165bcda'. The system cannot find the file specified.

Stack trace:

- 1) at Marel.Mp6.Core.Assemblies.AssemblyLoader.LoadAssembly(String name) in F:\src\Marel.Mp6.Core.Assemblies\AssemblyLoader.cs:line 119
at GraphQLService.Setup.Bootstrapper.LoadGraphQLModules() in F:\Innova_work\1591\src\Server\BplGraphQLService\Setup\Bootstrapper.cs:line 45
- 2) at System.Reflection.RuntimeAssembly.nLoad(AssemblyName fileName, String codeBase, RuntimeAssembly assemblyContext, StackCrawlMark& stackMark, Boolean throwOnFileNotFound, AssemblyLoadContext assemblyLoadContext)
at System.Reflection.RuntimeAssembly.InternalLoadAssemblyName(AssemblyName assemblyRef, StackCrawlMark& stackMark, AssemblyLoadContext assemblyLoadContext)
at System.Reflection.Assembly.Load(String assemblyString)
at Marel.Mp6.Core.Assemblies.AssemblyLoader.LoadAssembly(String name) in F:\src\Marel.Mp6.Core.Assemblies\AssemblyLoader.cs:line 106

19.10.2024 14:10:56 1 Warning GRBPC4673 hreidar.palsson PCHOST-BplGraphQLService/53 2.0.0.0

Exception type is System.IO.FileNotFoundException

Log

- 28.10.2024 14:54:48 Selected Innova system: (64) Innova_EmslandV8Demo, Database Server: GRBPC4673, Database: Innova_EmslandV8Demo
- 28.10.2024 14:55:10 Loading data from system log.
- 28.10.2024 14:55:11 Data from system log loaded.
- 28.10.2024 14:57:56 Loading data from system log.
- 28.10.2024 14:57:57 Data from system log loaded.

RBAC access empty resource handling

Default role access behavior when the resource group is empty has changed. Previously, if a resource name was empty, then all users had access. Now no users have access except those

who have access to everything with the wildcard role resource ("*"). **NOTE:** This is a breaking change.

Build - sign binaries

Binaries can now be signed on all Manufacturing Execution modules and products deployed, which is the first step towards becoming NIS2 compliant.

New message type for signal handler exceptions

A new message type, *MsgBplSignalHandlerExceptionOccurred*, was added to send messages from the BPL engine to the client to provide a message to users when an exception occurs while running the signal handler.

View configuration visibility can now be configured

It's now possible to configure which view configurations are visible for a selected view.

This is done by combining the resource name of the desired view with the name of the desired view configuration into a single resource, and then adding an "Exclude" role permission on that resource in the **Roles** grid. For example:

1. Find the resource name of the desired view.

General

☒ Active

Display name: ?? ☐ Can open multiple instances ☐ Is Private

System name:

View #114

View type:

Component:

View object:

Template:

Resource name:

▾

2. Select the desired view configuration and add an "Exclude" role permission. In this example, the "Default" one is selected. Use "Read" for the **Action Type**.

Role Permissions				
	Id	Grant Type	Action Type	Resource
	1	Allow	All	*
	1023	Allow	All	BoningHall.Data.CuttingPlanTemplate.InstantiatePlan
	1031	Exclude	All	Production.Data.Logistics.Packs.Default
→				

3. Now the view configuration is excluded from the selected view. In the example, the **Default** view configuration is excluded from the **Packs** view.

Roles ☒ Menu editor ☒ Packs ☒

grid

26.11.2024

Site	Number	SSCC	Product	Production day	Process period	Order	Order line	Weight (kg)	Nominal weight
------	--------	------	---------	----------------	----------------	-------	------------	-------------	----------------

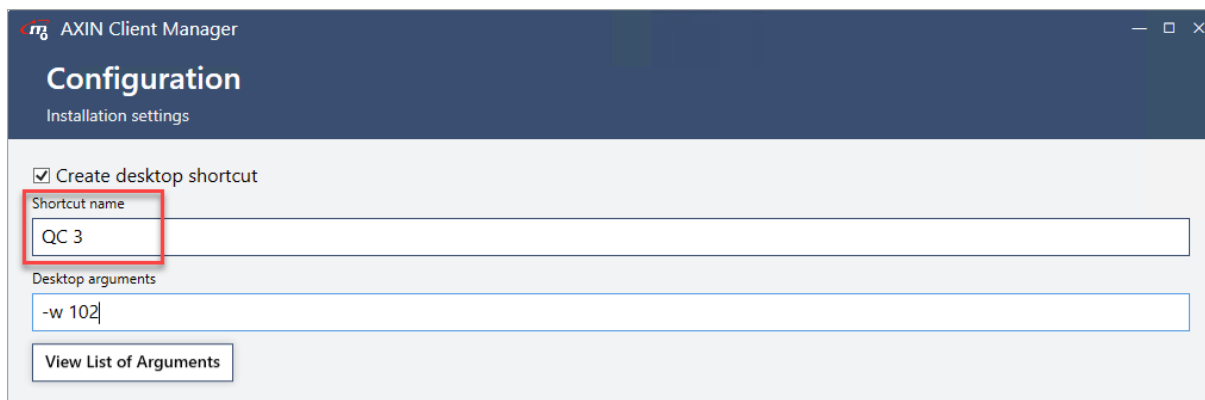
Allow clients to download customer files from server on startup

This functionality was already in place, but it relied on the **Deployment** module. The functionality has been moved into **Base**.

Update Base Installer to be compatible with Installation Manager 2.0

Support was for defining the shortcut name when installing Manufacturing Execution with Installation Manager 2.0.2.

Installation Manager:



Desktop:



Support for show and configure Exposed Options in Menu Editor

A new table was added, **base_view_exposedoptions**, to hold configuration data for **Exposed Options**, mostly used in reports. This configuration is set in the **Menu Editor**.

In addition, *CriteriaControlFactory* was updated to support the exposed option control and reading configuration for it from the new table.

Support was also added for loading and saving data for the new table in DataShell classes, which are used by the Criteria and Menu Editor.

The *ExposedOption* worker was updated to set the exposed option enum name as the assembly qualified name because the full name and the module name of the enum must be included. Other code settings for this property were also updated.

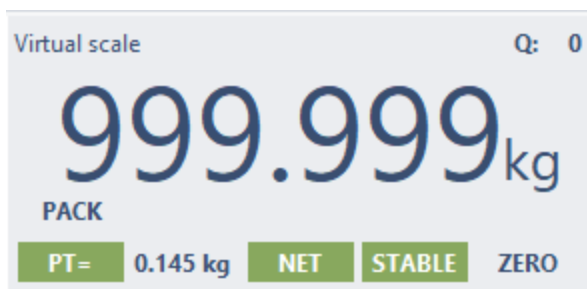
The following errors were also fixed:

- An error in the *CriteriaPanel* **Initialize** function to identify it as not a toolbar panel.
- An error in the *M6000LookupForm* **SetSelection** function which was incorrectly clearing the value instead of setting it, which caused default values not to be applied.

Finally, the Menu Editor was updated to read, display and configure the **Exposed Options** property for views.

Increase virtual scale max weight

The virtual scale can now go up to 999.999kg.



CriteriaDialog is opened directly in Report CE instead of letting the framework do it

By letting the **Report CE** open the *CriteriaDialog* itself, there is no longer the need for a round trip to the framework just to open the dialog.

This change makes opening the dialog faster and more responsive.

Improvements to pivot reports

To improve pivot reports, the following changes were made:

- PivotGrid and PivotGridExtension were removed.
- PivotGridCeEx and PivotGridEx were updated to fix how parameters are exposed and how views are initialized and disposed.
- The use of panels was simplified. Previously there were too many layers and suitable splitter components were not used.

Mu1 moved to Base

Mu1 is no longer embedded in the Installation Manager and is now a utility module under the Base module. This is required for IPC clients using Mu1.

Bug fixes

With this release, more than 117 bugs were fixed in the Base module, including the following highlights:

Can't write straight into datetime filters in grids

DateTimeControl was updated to split the range into two controls. DevExpress DateTime controls are now used and *TimeControl* was updated to remove input for seconds.

Data from parameters not being shown in SQL fields

Replaced *@paramName* with the actual value when creating SQL queries for custom reports.

ttreaders - Very large numbers fail to scan

When *trreaders* is used with a Logiflex system, Logiflex listens to the physical ID readers and sends an *IdReaderData* message to the system for each read.

The unique ID of the card is sent as an integer value in the "serial" field:

```
MSG UP: {"cmd":"newState","data":{"name":"msg.IdReaderData","value":{"readerId":1,"serial":4600942028,"deviceId":2},"tick":1705676881558}}
```

Previously the system read this field as an unsigned 32-bit value. Some ID cards can contain up to 64 bits of data, resulting in failed processing of this message. Now this can be read as an unsigned 64-bit integer instead.

Inactive users can log into the WinUI.

Now active users are selected by code when login is negotiated using numeric login.

Add persisting order of tabs when WinUI is opened

This was fixed with the following changes:

- Fixed an error in *MenuDataHandler* where the view table was not loaded and added to the views when it was opened on startup.
- Moved functions from *OpenOnStartupViewRecord* to *OpenOnStartupViewRecordType*, where they belong.
- Added functions to *TabManager* to store and restore layout settings.
- Updated a function in *MainFrame* to persist the layout settings for tabs.

NOTE : There are limitations on how the persisting of tab order works in the current setup:

- Views marked as "Open" on startup will be opened in random order when the WinUI starts.
- Users can order the view tabs as desired or create new tabs in the new tab manager.
- When the WinUI is closed, the view tabs order and tab groups are persisted. The next time the WinUI is opened, the tabs are restored to the same order.
- If a user closes all the views and closes the WinUI, then the state of the tab manager is persisted, i.e., the persisted data is "empty".
- If a user opens the WinUI after closing all views and closing the WinUI, then item 1 is back at the start in the list and forms are opened in "random" order with no tab groups shown.

Layout saver for tabbed document control

Support was added to save and load user layouts for the new tabbed control in WinUI *MainForm*. See Customize layouts in the WinUI.

Date picker clear button inconsistent with prior/expected behavior

The **Clear** button for *DateTime* criteria controls now sets the default value if set instead of "null". If the default value is not set, then "today" is set. In addition, *DateTime* criteria now

allows either "only to" or "only from" to be set, and support was added to control what the **Clear** button in does in the calender popup.

MU1 driver doesn't set ScaleCapabilities

An issue was fixed where no MU1 devices got *ScaleCapabilites* in the device table like other scales.

Collation issue in L2R

A collation bug in the database layer was fixed.

Menu favorites reordered when reloading menu or logging in again

An issue was fixed where the sequence of menu favorites set by a user was not saved and favorites were reordered when reloading the menu or logging in again.

Toolbox - Prevent Toolbox from freezing when doing migrations with custom views

An issue was fixed where the Toolbox would freeze when doing migrations with custom views.

Dependent criteria does not filter on initially set values

An issue was fixed in the Criteria Data Manager where dependent criteria did not filter on initially set values.

Unhandled exception in MultiSelectLookupViewExtension

An error was fixed that occurred when using *MultiSelectLookupViewExtension*.

Toolbox won't open when there is no innova.config

Toolbox can now be opened without *innova.config*.

Toolbox create innova.config does not populate InnovaServer attribute

Toolbox now populates the *innovaserver* attribute as the computer's hostname when adding new entry to *innova.config*.

Quick launch just looks at the translated name

Quick launch now also searches by class name.

Criteria Installer doesn't set the correct configuration type for the filter

An issue was fixed where lookup criteria was not being filtered correctly when dependant on another lookup criteria.

For report "Order packaging" user can select Many orders, not single as in current installation

The *SupportMultipleValues* column on query entities can now override whether input controls allows single or multi value selection.

Systemprograms with executable winui only not converted Workstations

Workstation migration was fixed in order to handle WinUI system programs that are missing the .exe in the executable column.

Migrations - Errors on no default criterion found for system entity Active

The **Active** criterion is now the default criterion for the **Active** system entity.

Menu editor criteria affecting the unit op dialog

An issue was fixed where external criteria dialogs, such as the unit operation dialog, were affected by view criteria.

Queries - Revert list change for now

Support was added again for query parameters to handle lists of int/decimal/strings represented as comma separated strings.

At the dashboards IPPS is still called SIS

The data source type category name is now updated on the baseop -o gdst command.

Database Maintenance: Missing base_log and its criteria

DBM criteria was added for *base_log*.

Prevent reports from being converted from a legacy report to an expression binding report

If the conversion has happened and you want to go back to *BindingMode*, then the following script can be used. Note that the binding to data will be cleared and those need to be set manually afterwards.

```
update base_enduserreports set reportdata =  
replace(convert(nvarchar(max),reportdata),  
'ExpressionBindings',  
'DataBindings')  
where name like '%PoGradingOverview_v5 20231101%'
```

Use the "where" if updating specific report.

Message service interface is not installed /// Not able to start Innova WinUI after a successful installation

A hint was added to indicate that the license key might be missing if the message service is not running after a successful installation.

Exporting from reportdesigner does not work with reports with subreports and parameters

An error was fixed where exporting from Report Designer did not work with reports that had sub-reports and parameters.

baseop.exe Populating enum values throws exception

When running *populate enum values* (plev) baseop, an error occurred when there was both a language and a country-specific translation. This was fixed.

Fix cleanup of PivotGridEx

Now objects are properly disposed in *PivotGridEx*.

BaseOp ValidateAssemblyDependancy doesn't discover dependency issues from executables

Now BaseOp *ValidateAssemblyDependencies* (vad) also validates executables.

Check Access function in Users tab does not work correctly

The **Check Access** form was fixed and now correctly displays the employee groups that have access to a given resource.

QC - Inspection buttons are small and not fit for IPC

An issue with IPC buttons being too small was fixed.

Module update modified Role Assignments

A bug was fixed where role assignments and role permissions had their loader data loaded multiple times overriding changes.

Workstations multiple login not working as expected

A bug was fixed where all users were logged out of a workstation when only one user should have been logged out. This fix also prevents users having to log in twice when the station doesn't support multiple users because the newly logged-in user is no longer also logged out.

Fix message subscription in TapDriver and TapClient

Previously all incoming messages were sent to all clients. This was fixed and now messages are sent only to clients that subscribe to the incoming message.

When importing a prday this is set to singleprday default

Support was added for using the *UseParamAndSystemEntityNameToSelectCriterion* property in **Query Entities**.

By using the *UseParamAndSystemEntityNameToSelectCriterion* property, you can now override using default criteria for the system entity for query entities.

When this parameter is set, the parameter name and system entity name is used to select the criterion for the query entity. This can be overridden in the Menu Editor configuration for the respective view item.

Support was also added for exporting and importing reports based on query parameters.

Test & Fix OEEIO (OEE Generic Line / GROA)

RecIntro messages are no longer sent from PI8Driver and IO device clients were updated.

PF Dashboard - Data not correct but is correct in preview

A dashboard issue was fixed where controls did not update values if the dashboard settings had *LoadAllPages=true*.

MenuEditor crash when saving data

An issue was fixed where the Menu Editor crashed when saving data.

Must answer yes to close every tab when closing all other tabs

Previously, users had to select "Yes" to close every tab when trying to close all other tabs except one. Custom buttons and handling for the popup menu were added, which now displays **Close all tabs** and **Close all tabs except this** dialogs. Views are now closed without asking for confirmation, except for views that need to save data. If a view has unsaved data, then users are prompted to save the data before closing the view. Selecting **Cancel** leaves the view open.

In Query Editor, Get Query Schema does not give SchemaTable

The query used to get the schema for the Query Editor was fixed.

Error when refreshing DeviceConfigUC view

An error was fixed that occurred when refreshing the **DeviceConfigUC** view and there were no devices available.

Error when using autofilter in unitoperation criteria

Lookup by IDs in the lookup popup and date range filtering in the auto-filter were fixed.

Fix incorrect default value in criteria controls BaseControl

An error was fixed in the BaseControl criteria component.

Lookup columns with more than one join doesn't work

An issue with lookup columns with more than one join was fixed.

Opening a form explorer sometimes takes me to first tab opened or just want select tab

The Tab page manager was updated to handle tab selection properly by using *BeginInvoke* to activate the page.

Fixed the reload GUI Item crashing the WinUI

- Fixed the GUI Item reload command issue which crashed WinUI when run.
- Simplified how document closing is handled in MainForm and TabPageManager.
- Update the TabPageManager how document data is handled and stored.
- Removed outdated code from TabPageManager.

Fix recipe editor error "Column 'proc_lots_lot' does not belong to table mpr_recipes."

A bug was fixed in GridControl function *InvalidateCacheForDataRow*, which was using invalid parameter.

DataProviderDialog should not use ControlFactoryData directly

The view ID is no longer needed for creating a criteria control in DataProviderDialog.

Tabs fail to open

An issue was fixed where tabs failed to open.

Creating custom Criterias through Queries does not populate correct XML in datasource type

An issue was fixed where queries were populating data source types with schema columns instead of query columns.

Error when trying to open linked Backward/Forward trace reports

An issue was fixed with opening drillthrough reports for inactive objects where criteria would be applied to the selected values, causing them to be filtered out.

Indexing of report parameters fails when adding in custom paramters for query

A bug was fixed where criteria parameters had the same index on reload.

Updated processunits device list contains all devices

A migration was removed that moved all base_appdevices into proc_prunitdevices because they were creating unnecessary prunit device connections. This migration was initially created to transition from the old access system to the new one, but it is no longer necessary. It was removed because it was adding all devices to prunit devices that shared applications.

PDA view for Salmon depalletizer does npt populate config

An issue was fixed where the default view page config was not set when configuring the PDA view page in the designer.

Tabs could not prevent the main window from closing

An issue was fixed where tabs could not prevent the main window from closing. This caused the application to close even if the user canceled the close action of a view in a popup.

Slow insert/save changes in user grids

An issue was fixed where access system-related grids were slow when editing.

Fix validate dependencies task

A validation error was fixed in Toolbox migrations. Toolbox validation was failing for projects dependent on Deployment and Tools.Common, which are not installed anymore but are projects that are referenced.

Installation Manager - Progman not started on clients

A bug was fixed where the progman service was not started on clients when Base was updated.

Installation Manager - Shortcut not updated

Shortcuts are now only created on fresh install or if no shortcut exists on the desktop.

RoboPacker - Implement new device

The missing *DeviceType* and *MessageType* were added for RoboPacker.

Unitop Station does not allow VirtualScale to record with a double click

The double click functionality on the *VirtualScale* was fixed and now works.

Persistent data not working for some views

An issue was fixed where persistent data was not being stored correctly for some views, such as the **Process unit control** view.

Access to a specific grid does not give access to the Default view configuration

Users that have access to a view now also have access to the Default view configuration.

MOD - Cannot update UI package

An issue with importing a menu package when *ParameterConfig* is missing was fixed.

User interface not opening

Some users experienced an issue where the WinUI was not able to locate the menu. This was fixed by removing *Linq2Record* from *MenuCreator*.

Toolbox - The count of executed tasks does not decrease

A bug was fixed where the migrations count displayed under **Pending Migrations** in the Toolbox was incorrect. Now tasks are no longer included in the count.

Unable to set default value for Exposed option in Menu editor

An issue was fixed where default values for Boolean Exposed Options could not be set in the Menu Editor.

Migrations - Errors on no default criterion found for system entity Active

An issue was fixed where Active criterion was not being created before being used.

CarrierView

Module version: [[[Undefined variable Module_versions.CarrierView]]]

Changes in this release are from module version 3.0.1 to 5.0.3

New features and improvements

The following new features and improvements to functionality were added:

CarrierView module independence

The **CarrierView** module is now fully independent and has its own menu package. Make sure you remove any menus that reference the old Carrier View Designer and configuration grids and import the new menu package.

Bug fixes

The following bugs were fixed:

Carrier View Designer Drag errors

Issues with drag-and-drop functionality in the Carrier View Designer were fixed.

CLS

Module version: 4.0.2

Changes in this release are from module version 2.0.2 to 4.0.2.

New features and improvements

The following new features and improvements to functionality were added:

Change order handling to support multiple PLC devices

The CLS Order system now supports multiple PLC devices.

CLS Terminal - hide page buttons in rail overview

Page buttons on the **CLS Terminal** are now hidden when there are fewer than two overview pages to show.

Add support for HEC in CLS

CLS IPCs now support high-resolution HEC-compliant terminals.

Add "Sort on supplier"

The **Sort on supplier** column was added to the **Sorting settings** view to enable sorting on supplier, in addition to slaughter day and slaughter house.

The item's supplier is taken from the referenced purchase order.

Printvalues for CLS Terminal, railorders

printvalue was added to the **CLS Terminal** for rail orders.

Bug fixes

The following bugs were fixed:

Installation of module fails because of Core 4.0.0 reference

An issue was fixed where the CLS module failed to install because of a reference to Core 4.0.0 in the Unit Operation project and *packages.props*, which has now been removed.

Action terminal

An issue with the action terminal was fixed.

Drip loss report

An issue with the Drip loss report was fixed.

Trace in transaction services

An issue with trace in transaction services was fixed.

BreakupCorrectionTerminalCe and Unknown issue

An issue was fixed where the ITEM (quarter) on *BreakupCorrectionTerminalCe* was not identified correctly.

Data Visualization

Module version: 4.0.1

Changes in this release are from module version 3.3.4 to 4.0.1.

New features and improvements

The following new features and improvements to functionality were added:

Base URL changed from innovaweb to axin

The URL of the reverse proxy has changed from **innovaweb** to **axin**. Be sure to change your bookmarks to this URL. For example:

If you start WebUI with this URL: **http://inndev02188015/innovaweb/web-ui**

Then change it to this URL: **http://inndev02188015/axin/web-ui**

Data Visualization Criteria Framework improvements

For Data Visualization and WebUI to support the new Criteria Framework changes, a complete refactoring of the Data Visualization Criteria Framework was done in this release. In addition, the look and feel and behavior of the UI is now more aligned with the WinUI.

Custom queries with criteria

If you are using queries with criteria in dashboards that are created using the **Query editor**, then you must change the way the query handles criteria. For more information, see the *Data Visualization User Manual*.

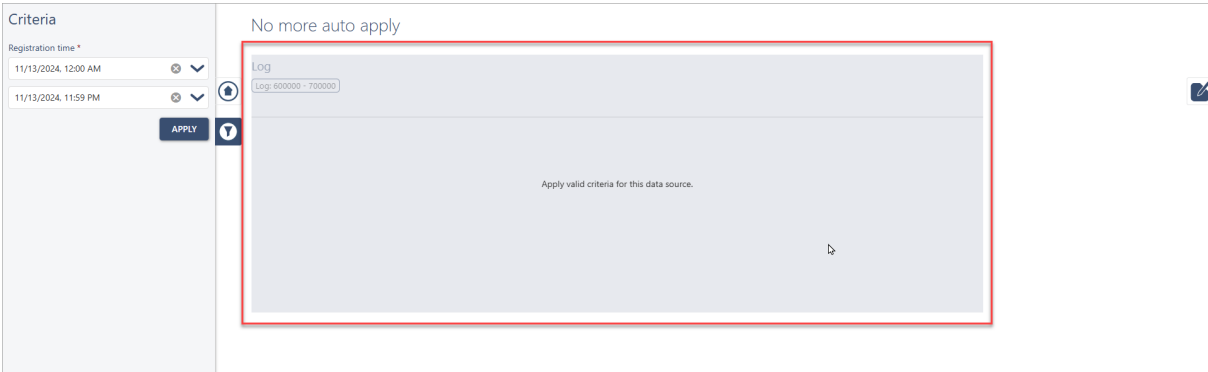
No more auto apply on data sources with required parameters

If you have a dashboard component with a fixed value and the same component also has a required parameter, then you must manually select the **Apply** button to apply valid criteria for

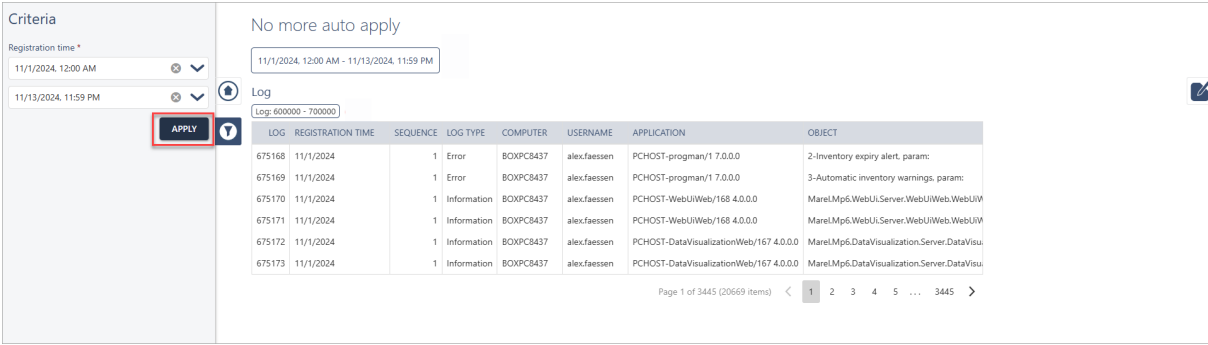
the data source.

The following example is a log data source type that has a required parameter for registration time with fixed log values:

- Before selecting **Apply**, an overlay message appears:



- After selecting **Apply**, the data appears:



Bug fixes

The following bugs were fixed:

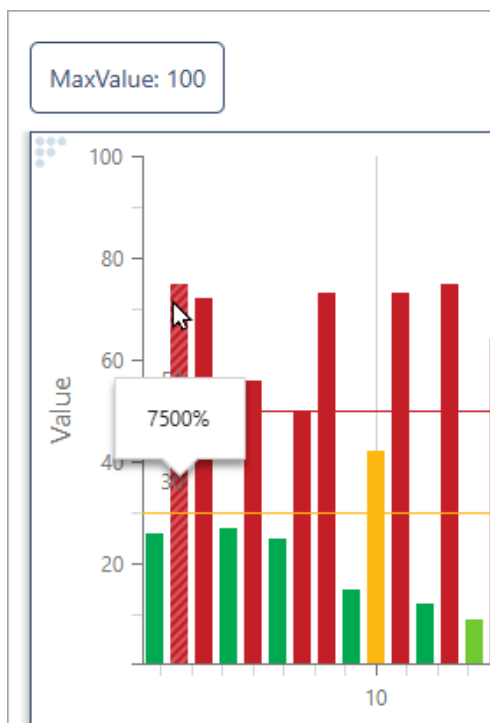
Charts Point label format % is not working as expected

- The **Point label format** with "%" is working as expected. "%" will multiply a value by 100 and add a "%".

A Point label format of "%"

Point label format

Will give you a label of "7500%" if the value is 75 (this is normally used to convert values between 0 and 1 to percentages):



- The **Legends** tab was renamed **Appearance**, and the constraint that required a Y-axis group was removed.

Edit axes and series

X axis

Y axis

Series

Constant lines

Appearance

Edit points colors and legend labels

Use reg. expr.

Value or expression

Text

Color

☒

^([5-9]\d\d\d(3,))\$

No

Red 100%

☒

^([0-3]\d\d\d(3,))\$

Yes

Green 100%

☒

^([3-4]\d\d\d(3,))\$

Maybe

Yellow 100%

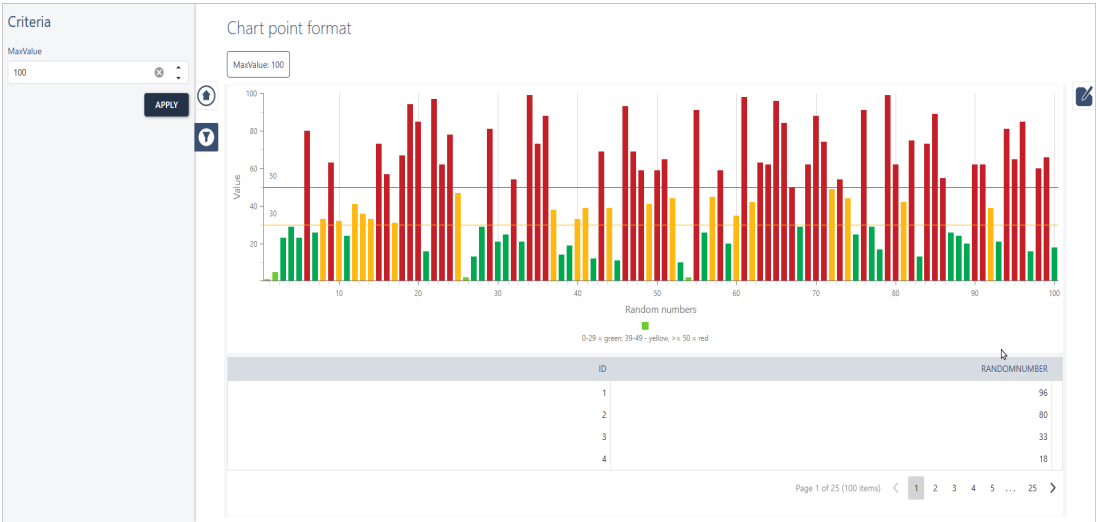
+

Set a group Y axis field under edit series to change legends labels.

CANCEL

SAVE

To change the appearance of the legend labels, you still need a group Y-axis field on the series. Without a group Y-axis group, the value will now be checked on the Y-axis value instead of the Y-axis group name. For example, you can create this type of chart:



By using these settings on the **Appearance** tab:

Dialog box: Edit axes and series

Tab: Appearance

Section: Edit points colors and legend labels

Use reg. expr.	Value or expression	Text	Color
<input checked="" type="checkbox"/>	$^{\{5-9\}}d\{3\}$	No	Red 100%
<input checked="" type="checkbox"/>	$^{\{0-3\}}d\{3\}$	Yes	Green 100%
<input checked="" type="checkbox"/>	$^{\{3-4\}}d\{3\}$	Maybe	Yellow 100%

Set a group Y axis field under edit series to change legends labels.

Buttons: CANCEL, SAVE

In this example, the color is changed to the following:

- Green is the value < 30
- Yellow if the value < 50
- Red is the value >= 50

Dashboard with hidden criteria not working

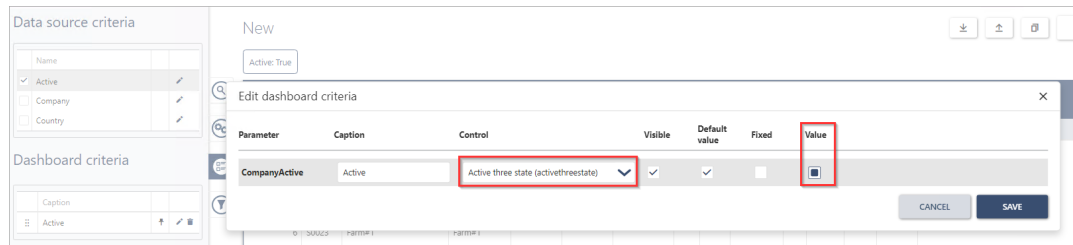
An issue was fixed where dashboards would only refresh after selecting Apply when they contained dashboard criteria, which didn't work for dashboard monitors without keyboards.

Known issues

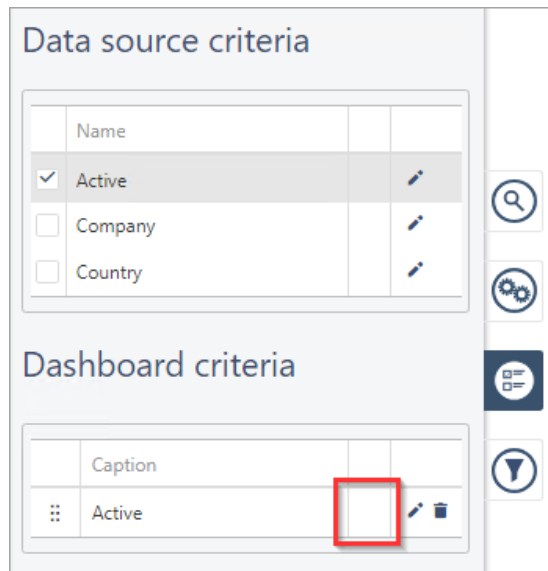
The following are known issues in this release:

The null/default value of the three-state control is not handled properly for dashboard criteria

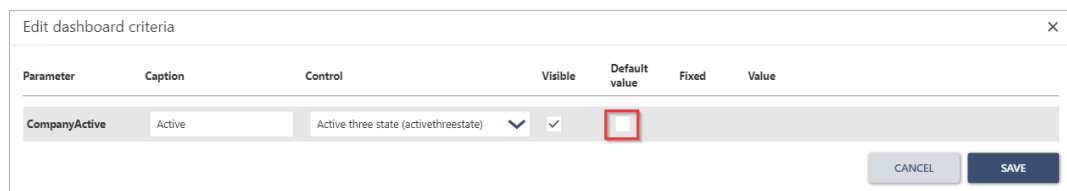
1. You cannot store an undefined value as a default or fixed criteria value in dashboards.
 - a. For example, the following dashboard value (using "Company Active" as an example) is saved.



- b. However, after saving, the default value is shown as not set (there is no visible).



- c. If you edit the criteria again, then the **Default value** is not active anymore.



2. If you use three-state Boolean criteria in the **Criteria** panel and toggle the criteria value to the undefined state, then you must select **Apply** twice state before you can view the data.

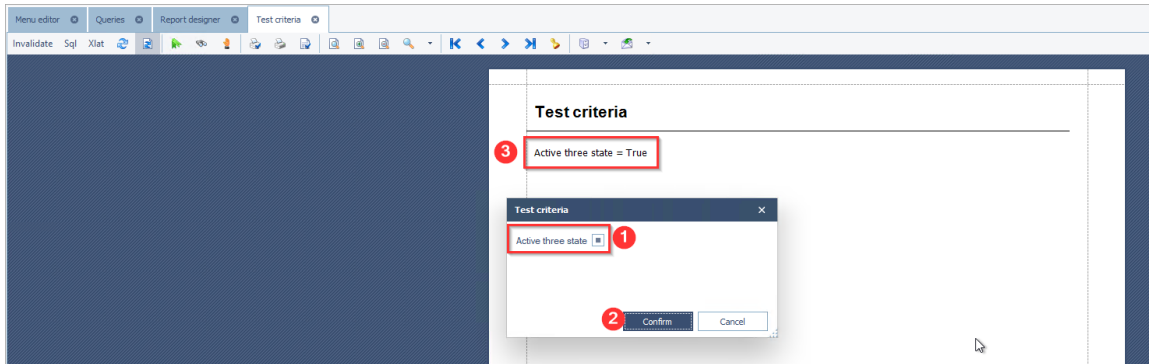
- a. Select **Apply** once (1) with an undefined value and no data is shown (2).



- b. Select **Apply** a second time (1) with an undefined value and the data appears (2).



3. The Criteria Manager does not support three-state Boolean values. If an undefined value (1) is confirmed as set (2), then the value that is used is always "True" (3).



Deboning

Module version: 4.0.2

Changes in this release are from module version 3.5.0 to 4.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

Programs View error

An error on the Deboning Programs view was fixed.

Deboning Module Views - Station Name Exception

This issue was fixed by updating the Deboning module to the Workstation changes introduced in the Base module.

NOTE: Two lookups are missing a process station record converter, and are currently using standard record converter on the base workstation instead.

Server programs not running

Missing references were added to Deboning server programs to fix this issue.

Grading

Module version: 4.0.3

Changes in this release are from module version 3.2.1 to 4.0.3.

New features and improvements

The following new features and improvements to functionality were added:

Accuro - Add version attribute to batch info for infeed screen

Version information was added to batch data in *ClBatchStatus*.

Bug fixes

The following bugs were fixed:

Robobatcher Flex: Starting new process period drops the activity on the robot

To fix this issue, a new **Grading systems** configuration setting was added to terminate batches on a process period change: *TerminateBatchesOnPrPeriodSameActivity*.

This property should be set to "False" to prevent active programs from being reset on the RoboBatcher Flex when a new process period is started.

Accuro - Infeed screen product information suspect

This was fixed by adding a version attribute to the batch data for the Accuro infeed screen.

RoboBatcher - Robot export recipe

An issue was fixed where the **Recipe quick export** button image would remain after the recipe was successfully exported to the RoboBatcher.

An issue was also fixed where recipe validation errors would not be displayed when using the **Recipe quick export** button.

Missing SQL query in standard Throughput report in Grading

An issue was fixed where an error occurred when opening the **Throughput** report (*Marel.Mp6.Grading.Reports.Throughput.Throughput*).

Grading programs tab not visible and view overlaps another view and an unhandled exception when closing

An issue was fixed where the **Grading programs** view did not display correctly when opened, and an exception occurred when the view was closed.

Issues after upgrading on a VirtualBox VM

An issue was fixed where CL Batch reports failed during initialization.

Grading Overview report tab in the Graders windows form

A bug was fixed in the **Grading Overview** report tab in the Graders view.

IMPAQT

Module version: 4.0.2

Changes in this release are from module version 3.2.3 to 4.0.2.

New features and improvements

The following new features and improvements to functionality were added:

PDT logger on 1 minute resolution

The PDT logger plugin now has a database storage resolution of 1 minute instead of 5 minutes.

Moved IMPAQT reasons to the IMPAQT module

The following IMPAQT stop, performance and quality reasons were moved from the OEE module to the IMPAQT module:

Stop reasons:

- FlockChange
- LineStopped
- TapDeviceOffline
- OEE plugin not started
- Break too long
- Break outside schedule
- GP device offline
- CAS device offline
- Atlas system offline
- Production disturbance

Performance reasons:

- LineSpeed
- HangInLoss
- PluckerLoss
- PacksNotTransferred
- ProcessingLoss
- PGILoss
- BadShackle
- VeterinarianRejection
- Congestion
- ByRecipeDroppedAtLineLinkDE

Quality reasons:

- ScaldingDamage
- NoScalding
- NoElectroStimulation
- ShortElectroStimulation
- NoNeckSkinCutting
- VeterinarianDowngrade
- NoVentCuttingVacuum
- NoFinalInspectionVacuum
- CropperNotCleaned
- VisualDefects
- OneLeggedProduct
- NoVacGallBladder
- NoGizzardPeeling
- NoHeartLungSeparation
- OneLeggedPlucker
- OneLeggedTRDE
- NoWeightRecieved
- ProductNotAssigned
- DropstationFailure
- OneLeggedDrop
- DroppedAtLineClearer

- DroppedAtTrcs
 - NoDropDueToACM
 - NoDropDueToRemoteStop
 - ProcessingLoss
 - OneLeggedTREC
 - OneLeggedTRCS
 - DroppedAtTRDE
 - DroppedAtTREC
 - OneLeggedHangin
-
- VeterinarianRework
 - DroppedAtTR1G
 - OneLeggedTR1G
 - BadShackle
-
- OneLeggedDefeathering
 - OneLeggedLineLinkDE
 - OneLeggedLineLinkEC
 - DroppedAtLineLinkDE
 - DroppedAtLineLinkEC

Bug fixes

The following bugs were fixed:

Alarms are not processed into fatal signals

An issue was fixed where new alarms coming from the Manufacturing Execution system were not processed into a fatal signal anymore in IMPAQT.

Plugins grid hanging up WinUi and throw exceptions when start/stop plugins

A bug was fixed where the OEE Profile generation in IMPAQT considered every production data record as a new context period when it only should create a context period for lot changes, shift changes, and so on.

The result was that IMPAQT performance degraded substantially and caused possible hang-ups of the OEE manager and plugins.

Hang-in loss report issue with shift and project location

An issue with the **Hang-in loss** report was fixed.

Database maintenance issue on table *pdsnt_rehang_intervals*

Previously, it was not possible to clean or delete data from the *pdsnt_rehang_intervals* table. This was fixed.

Better differentiation of losses charts for LLDE and LLEC in WebUI

Axes titles in IMPAQT rehang dashboards were improved and no longer show "Loss (%)". Now they show a specific loss like the series name in the chart legend.

Signal "Unplanned stop (Production)" not set default to false when restarting plugin

In order to have the correct signal states after a restart of the Manufacturing Execution system or the plug-in, the signal "Unplanned stop (Production)" is now set to false after this restart.

Break detection bug: first empty shackles of break are detected as line restraint (due to reordering)

For IMPAQT break detection, the time that the shackle enters the line is used. Based on this time, a gap in the line can be searched.

There are two time instances that can be used for the time that the shackle was seen in the line: *TimeIn* and *OriginalTimeIn*. *TimeIn* is a corrected value where *OriginalTimeIn* is the time the first shackle was sent by PDS.

In the current break detection, the corrected value was used which caused the actual gap in the line to be detected a few shackles too late. Now *OriginalTimeIn* is used for break detection to ensure that the break starts at the correct shackle.

OEEStopReasonHistoryReport - UseEntityAlarms option was removed

The **Stop reason history** report now supports the usage of Entity Alarms instead of Stop reason.

Fix Quick Config report parameters and OEE Stop reason histogram report

A bug was fixed in the IMPAQT Quick Config that caused issues with report installation.

GP Output signal extracted from all data instead of needed signal

Previously, IMPAQT in Manufacturing Execution classified all GP signals as "GP Output". Now GP signals are filtered so that only "GP Output" signals are used. The result is that when

multiple messages from GP are sent, only the "GP Output" signals are shown in the B01 - GPdeviceHandler trace.

Primary dashboard in WebUI is showing overlapping text

An issue was fixed where the space between losses KPIs in the dashboard was reduced when there were more KPIs to display, until the space between KPIs became "0". Now a maximum of 10 KPIs can fit into the top area. If more KPIs are configured, they will not be displayed.

Installation generates many folders

An installation that generated double the expected number of folders was not due to mistakes in the IMPAQT Quick Config, but to a double installation by the engineer. To help prevent this in the future, the following changes were made:

- Correct (consistent) names for folders per line and menu structure and consistency was improved
- Correctly working reports (there was a bug with the wrong loss reason and loss reasons were mixed up)
- Some translations were added
- Generic reports in the WebUI that were missing are now available
- A bug was fixed in the OEE Losses histogram and OEE failure histogram and now both reports are available and working

Integration Services

Module version: 4.0.2

Changes in this release are from module version 3.1.0 to 4.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

ISMAN.EXE dies, nothing in the log

This was fixed.

IRIS

Module version: 4.0.2

Changes in this release are from module version 3.0.4 to 4.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

Loader data failed because of role assignments XML

An issue with role assignments was fixed in VID, Smartweigher and IRIS loader data.

IRIS Setup screen not opening and throwing exception

An issue was fixed where an exception was thrown when opening the **IRIS Setup** view.

Smartweigher & IRIS - Namespace changes are not considering Resource name in Roles

Fixed an issue with role permissions for IRIS and Smartweigher modules.

Monitoring

Module version: 4.0.2

Changes in this release are from module version 3.0.0 to 4.0.2.

New features and improvements

The following new features and improvements to functionality were added:

Equipment Monitoring - PLC Alarm plugin active alarms time-out

The time-out for retrieving the active alarms has been increased to 1 minute for equipment monitoring on B&R PLC's, which helps prevent problems with time-outs.

Bug fixes

The following bugs were fixed:

Equipment monitoring is not working correctly

When the **Marel Core Alarm** plug-in was configured and started, data collection from the control system that provides alarm information also started. However, when the alarm information was processed by the plug-in instance, the correct state information was not provided to the dashboard page due to an introduced bug.

In this version, alarm processing was simplified and now the correct data is processed at the correct time, and the operator is informed about the state of the control system through the dashboard page.

LED plate plugin doesn't sync time with Led plate when Daylight saving is (de)activated

The LED plate alarm plug-in in Manufacturing Execution is used to retrieve alarms from control cabinets. These are typically cabinets that control (part of) a slaughterline.

The moment the plug-in instance is started, the time of the LED panel is synchronized with Manufacturing Execution. After this, however, the time was not synchronized again until the plug-in was restarted. Because daylight saving time takes place twice a year, this caused issues with the alarm registrations made within Equipment Monitoring and IMPAQT.

To fix this issue, the following improvements were made:

- The plug-in will now synchronize the time with the LED plate once per month to make sure that normal time drift doesn't happen. Synchronization is once per month because of hardware memory limitations on the LED plate controller. The time is written into non-volatile memory which is limited to a certain amount of write cycles.
- The plug-in will exchange times of alarms, etc. with the LED plate in UTC time. Because of this, daylight saving time is never an issue. On the Manufacturing Execution side, data is then converted and stored in local time, which already takes daylight saving time into account.

As a workaround for current Manufacturing Execution customers that experience this issue, a scheduled program restart must be configured by Service for the LED Plate plug-in hosts.

Fix null ref in MarelCorePlugin

A null reference was fixed in the Marel Core plug-in that caused the list of active alarms to be set to null instead of cleared.

OEE

Module version: 5.0.4

Changes in this release are from module version 4.0.6 to 5.0.4.

New features and improvements

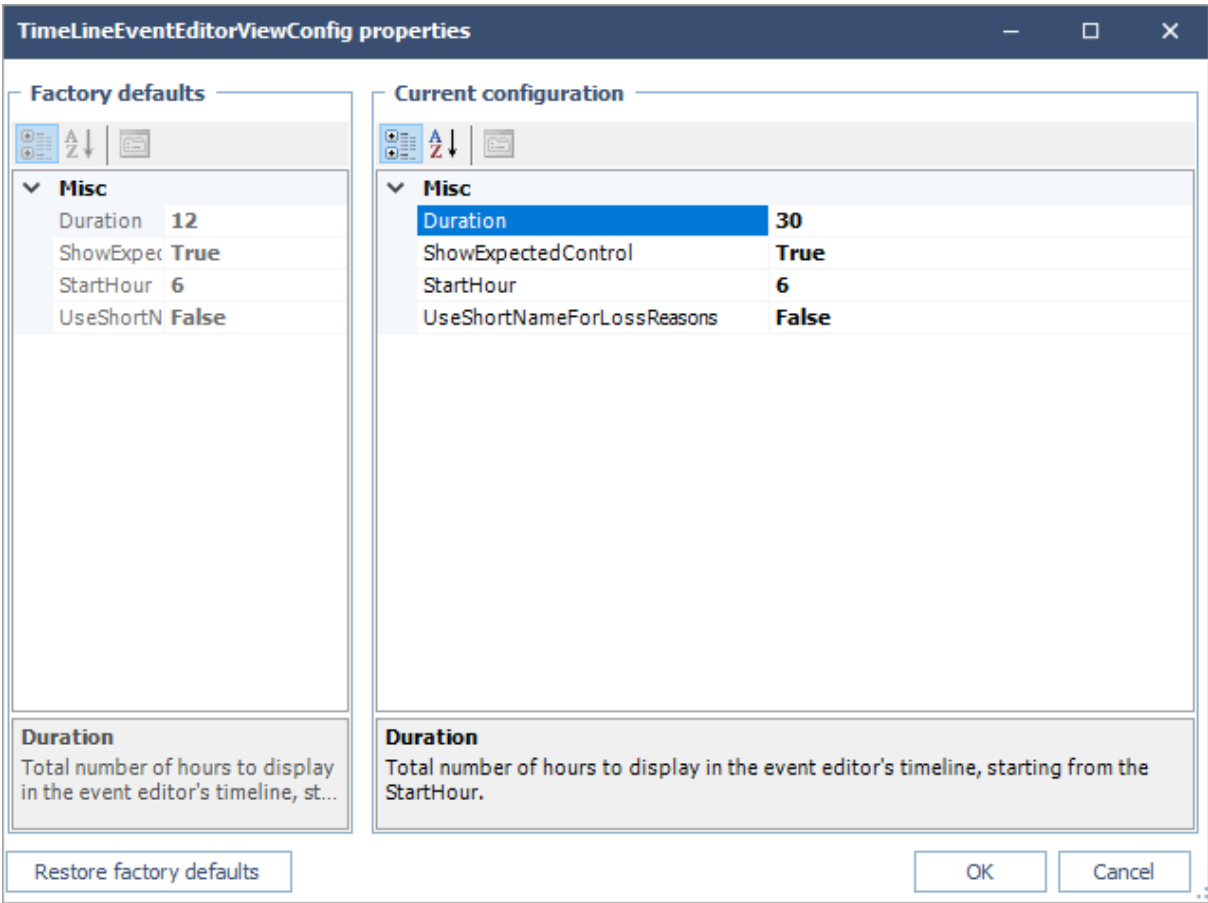
The following new features and improvements to functionality were added:

OEE Details report - add percentages to the stop reasons

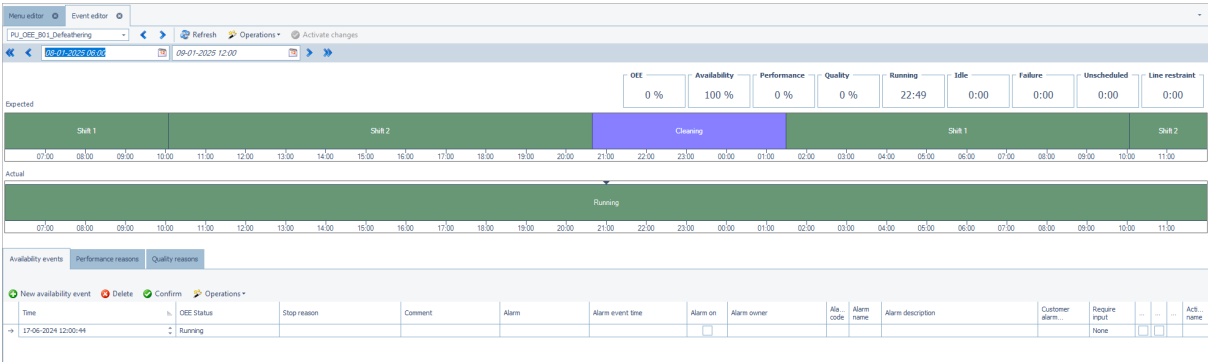
Percentages for stop reasons were added to the OEE Details report.

Event editor can now show 24 hours or more

When Manufacturing Execution is updated, a migration now adds a **Duration** field, which is created from the start and end time. The start time and duration are used to define the time period that is shown in the **Event editor**.



If the start hour is later than *timeNow* or if the duration spans more than one day, then the start time is set to "Yesterday".



OEE Details

Date: 05-06-2024 - 07-06-2024

Entity:

PU_OEE_B01_Defeathering

OEE:

95,45

Availability:

95,86

Status	Duration	%	Stop reason	Duration	%
Running	54:25:16	95,86			
Idle	01:53:39	3,34			
			Áramszünet	00:20:02	0,59
			Atlas tálca hiba	00:26:37	0,78
			Atlas, beszorult csirke	00:00:35	0,02
			Flock change	00:31:22	0,92
			Line stopped	00:00:17	0,01
			Tanyasi jérce - kakas váltás	00:01:29	0,04
			Tanyasi utáni állományváltás	00:32:11	0,95
			Termelési hiba	00:01:02	0,03
Line restraint	00:27:15	0,80			
			Line restraint in	00:27:14	0,80
			Unknown	00:00:00	0,00
	56:46:10	100		02:20:54	4,14

Performance:

100,28

Status	Duration	Amount (Pieces)	%	Loss reason	Duration	Amount (Pieces)	%
Processed	54:34:32	874303	100,28				
Product loss	00:00:20	89	0,01				
				Plucker loss	00:00:20	89	0,01
Speed loss	-00:09:24	-2513	-0,29				
				Line speed loss	-00:09:24	-2513	-0,29
Unknown	-00:00:11	-52	-0,01				
				Unknown loss	-00:00:11	-52	-0,01
	54:25:16	871827	100		-00:09:16	-2476	-0,28

Quality:

99,29

Status	Duration	Amount (Pieces)	%	Loss reason	Duration	Amount (Pieces)	%
Accepted	54:11:08	868054	99,29				
Rejected	00:23:24	6249	0,71				
				One legged defeathering	00:03:04	823	0,09
				Group:	00:00:16	75	0,01
				One legged defeathering			
				Onelegged Hang in			
				Group:	00:00:04	22	0,00
				One legged defeathering			
				Scalding damage			
				One legged Hang in	00:06:57	1859	0,21

Marel

AXIN Software

Page 1

16-10-2024 14:43

Bug fixes

The following bugs were fixed:

Event editor very slow

The performance of the OEE event editor was improved by adapting a query that was used to retrieve the stop reasons for an entity.

IMPAQT/EM - Problems with selecting an event, after multiple changes in event editor

The OEE Editor was updated so that the grid layout is only persisted when entity is changed (not on model refresh). This means that users no longer experience the unexpected order in the Event editor (for example, alphabetically sorted Stop reasons) after changing a single event.

IMPAQT/EM - Selecting bar in event editor does not work

When the TimeLine control was zoomed more than a 16-bit integer in width (32767 pixel width), it caused mouse-click events to not trigger. This was fixed by adding a hard limit on how much zooming is possible. If additional zooming is needed, the selected time span should be shortened.

IMPAQT - Comments in OEE details report are missing

An issue was fixed where comments in the **OEE details** report were missing. Note that *BrealOnLot* can't be checked when *ShowComments* is checked. This is consistent with the behavior from Innova V5.

IMPAQT/EM - Innova freezes when multiple events are changed in event editor

A performance issue was fixed in the Event Editor that happened when editing multiple events at the same time using the **Edit multiple events** option.

IMPAQT - Events in Event Editor are not marked as 'modified' in certain cases

When an event start time is modified or an event is created or deleted by a user in the Event Editor, all other events that have their duration affected by the change are now also marked as modified.

OEE Failure Histogram Report and OEE Losses report do not work

An issue was fixed where the SQL query in the report contained invalid table references.

OEE - Adding events in EventEditor always takes DateTime.Now

An issue was fixed where a new event was always created using *DateTime.Now*.

OEE - Making changes in EventEditor causes the scroll position to jump around

An issue was fixed where the scroll position of the events grid was changed after changes were saved.

OEE - Oeelo.exe does not start

An issue was fixed where *Oeelo.exe* was unable to start up due to not finding correct assemblies.

OEE - Profile aggregation in database maintenance doesn't work

The *ProfileAggregate.sql* file was moved to *Marel.Mp6.OEE.Profile.ProfileAggregate.sql* but the name/path used was not changed. This is now fixed.

OEE - Missing assembly Microsoft.Extensions.DependencyInjection

A direct dependency to *Microsoft.Extensions.DependencyInjection* was added to fix the exception.

Cannot run oeeop.exe, throws exception that assembly is not found

A direct dependency to *Microsoft.Extensions.DependencyInjection* was added to fix the exception.

IMPAQT - Amount of occurrences in OEE Losses Histogram is not correct

The correct number of occurrences in the OEE Losses Histogram report are now shown even after OEE events are deleted by the database maintenance.

IMPAQT - OEEStopReasonHistoryReport - UseEntityAlarms option was removed

The **Stop reason history** report now supports the usage of **Entity alarms** instead of **Stop reason**.

OptiPack

Module version: 4.2.2

Changes in this release are from module version 3.2.3 to 4.2.2.

New features and improvements

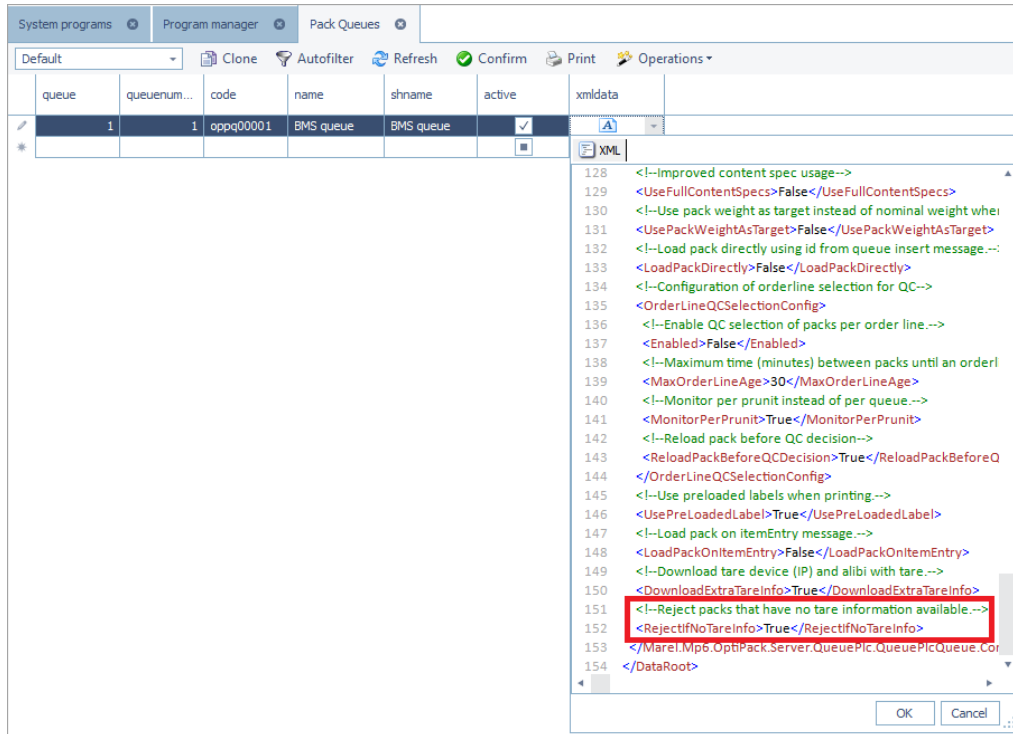
The following new features and improvements to functionality were added:

BMS - Optionally reject boxes missing tare information

A new option was added to *queueplc* (BMS) that rejects packs if no tare is found on the pack record when they are scanned in.

This occurs when an *inputScan* message is received from BMS and *queueplc* loads the pack. If there is no tare, then *queueplc* includes the reject reason "RejectMissingTareInfo" in the Change Request that is sent back to BMS. The box passes through the system and is sent out of the reject gate. At that point *queueplc* cancels the pack using the *OtherRejectUO* unit operation, and the pack record gets a "RejectQa" *Checkstatus*.

- Location - Pack Queues XML config
- Parameter name - RejectIfNoTareInfo
- Default value - False



Support for M3000 batchers

The Optipack module now supports M3000 Target- and Speedbatchers.

Zero/Tare functionality to support divided functionality of Zero or Tare

New buttons were added to the Ultimate Station for **Zero** and **Tare** options.

Parameter	Description
IncludeDryIce	Default value is "False"
DefaultDryIceWeight	Default weight in system weighing unit, default value is "0"
DefaultDryIceSliceCount	Default slice count, default value is "0"
DryIceWeightColumn	Name of the external column in <i>proc_orderl</i> to read for the weight value, default value is empty
DryIceSliceCountColumn	Name of the external column in <i>proc_orderl</i> to read for slice count, default value is empty

Bug fixes

The following bugs were fixed:

The data visualization host is not able to start /// Errors in the Data Visualization URL when opening different reports

Fixed an issue where the following reports were not working in Web Reporting:

- OptiPack
 - Checkweighing giveaway (Marel.Mp6.Optipack.Reports.CWGiveaway.CWGiveaway)
 - Offline EBatch
(Marel.Mp6.Optipack.Reports.CWOffline.CheckweighingOfflineEBatch)
 - Offline Policeman
(Marel.Mp6.Optipack.Reports.CWOffline.CheckweighingOfflinePoliceman)
- Process
 - Item throughput (Marel.Mp6.Process.Reports.Throughput.ItemThroughput)
 - Pack throughput (Marel.Mp6.Process.Reports.Throughput.PackThroughput)

The current configuration in properties dialog for PackQueueCE is empty

An issue was fixed where the **Current configuration** panel in the **PackQueueCEConfig properties** dialog was empty even when there was XML configuration present.

M1100 stand alone packing system - not recording the tare on the pack record

Support to handle messages using **Extended format protocol 1** was added. This enables the AXIN system to receive and process both fixed and adjusted tare from M1100 scales. The scale must be configured to use this protocol. The M1100 scale driver will determine if the scale is sending messages using the standard or extended protocol.

Queueplc <-> Process control PLC , incoming messages not handled

To fix this issue, a message subscription was added to the PLC device when no M3000 is present.

PDC

Module version: 4.0.3

Changes in this release are from module version 3.1.4 to 4.0.3.

New features and improvements

The following new features and improvements to functionality were added:

Archiving improvements

The check on *startdate* was optimized for archiving.

Updated templates for standard PDC dashboards

The following PDC dashboard templates were updated:

- Chill line overview weights
- Cutup supply monitor
- Kill line monitor
- Breast meat supply monitor

A new dashboard template, **PDS counter**, was also added.

The **Chill line overview** template remains unchanged.

Flock Intake now synchronized with SP Administrator orders

Farmer names in PDC Flock Intake are now synchronized with PDS.

New simulation tool

A basic simulation tool is now available for PDC.

Bug fixes

The following bugs were fixed:

CustomFlock PDC report. Wrong names on the configuration form

An issue with incorrect translations in the report configuration view was fixed.

Issue with Data source type refresh for the Lot code list

An issue was fixed where the **Lot code** list was not automatically updated in the **Chill Line Overview Weight_N** dashboard.

PDS

Module version: 5.0.1

Changes in this release are from module version 4.0.2 to 5.0.1.

New features and improvements

The following new features and improvements to functionality were added:

Database maintenance configuration in schema file improved

PDC data maintenance was improved by setting the batch span to 1 hour. To prevent data loss, the time span is set to 1095 days for the PDC tables.

Bug fixes

The following bugs were fixed:

Wrong view types for PDC visible in menu editor

An issue was fixed where the wrong view types were visible in the Menu Editor.

Portioning

Module version: 3.0.1

Changes in this release are from module version 2.0.1 to 3.0.1.

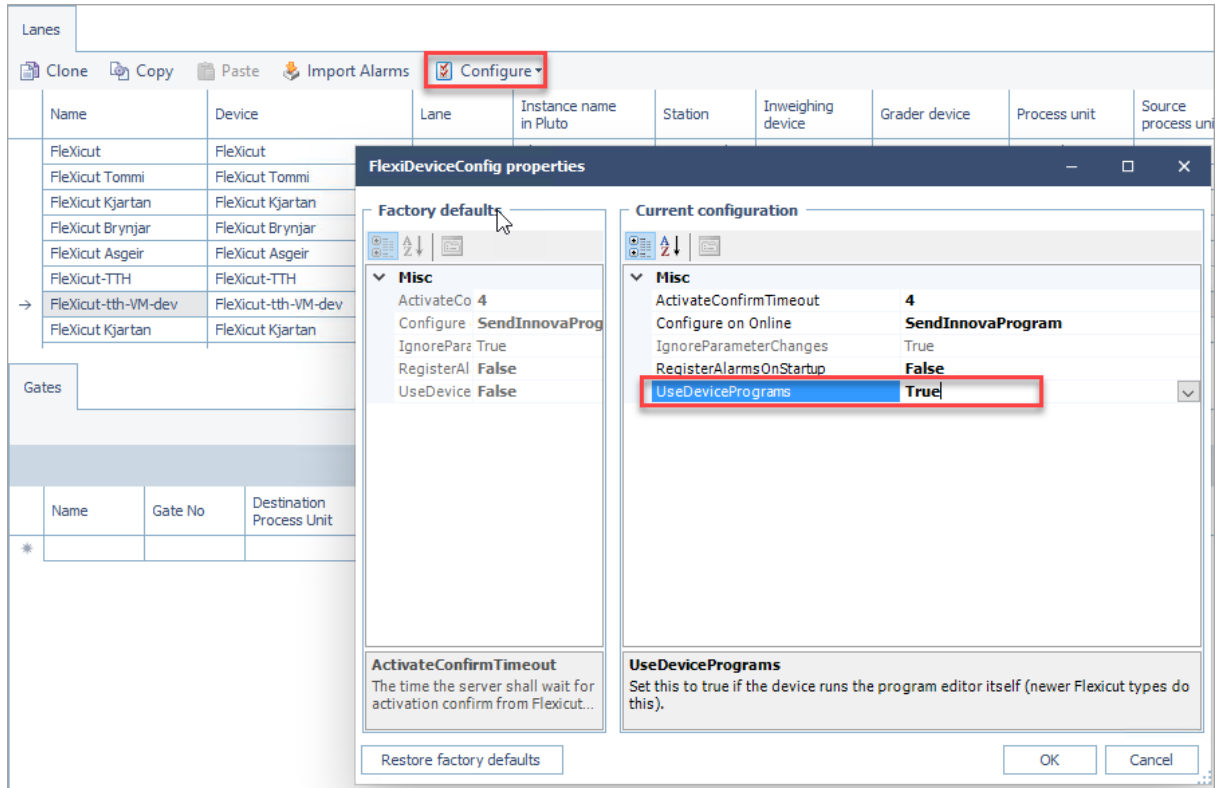
New features and improvements

The following new features and improvements to functionality were added:

FleXicut hosted program editor

Support was added to host the program editor on the FleXicut device, including the following changes:

- The FleXicut plugin can be installed in the ProcessAPI.
- A new configuration property, *UseDevicePrograms*, was added to the lane device configuration. If the FleXicut program editor is hosted on the device, then set this to "True".

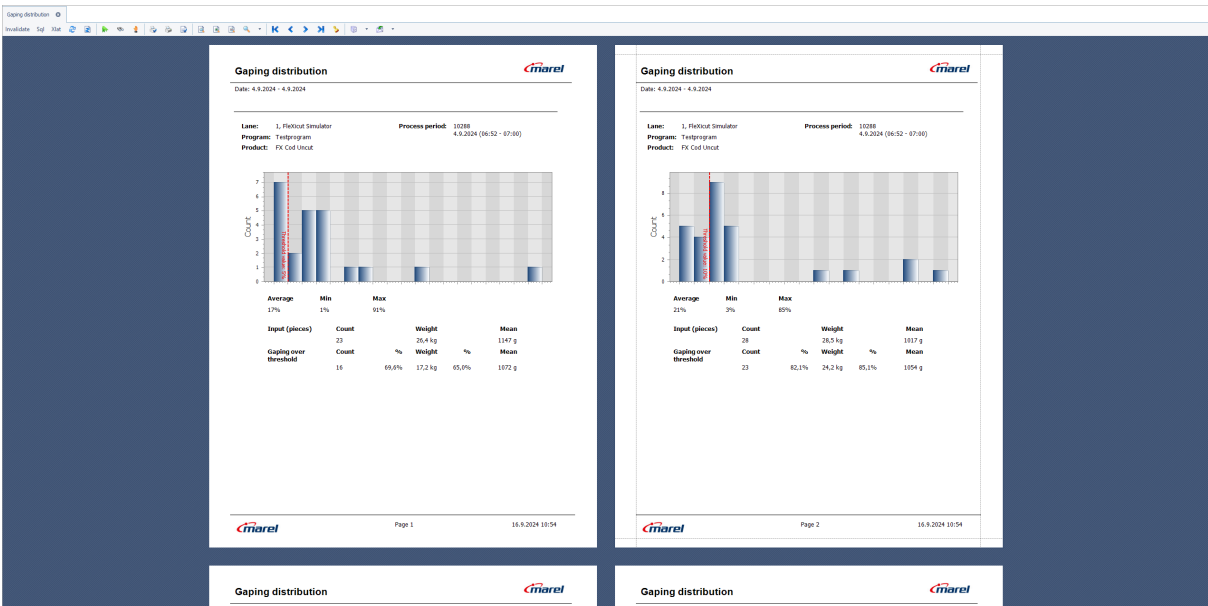


- If there is a wsserver in the system, make sure that it is not managing the device that is hosting the Flexicut program editor.

System Setup													
Devices													
Clone Autofilter Refresh Confirm Print Operations Device Traffic Device viewer Configure													
ID	Active	XML	Name	Short	Interface type	Device type	Status	Device type from device	Address	Interface parameters	Device router	WebSocket server	
1	✓	Ⓜ	Flexicut	Flexicut	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.33	235	Sjálfgæð netforrit	WsServer	
2	✓	Ⓜ	Flexicut Tommi	Flexicut T	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.235		Sjálfgæð netforrit	WsServer	
3	✓	Ⓜ	Flexicut Kjartan	Flexicut K	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.107		Sjálfgæð netforrit	WsServer	
4	✓	Ⓜ	Flexicut Brynjar	Flexicut B	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.111		Sjálfgæð netforrit	WsServer	
5	✓	Ⓜ	Flexicut Asgeir	Flexicut A	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	localhost		Sjálfgæð netforrit	WsServer	
6	✓	Ⓜ	Flexicut-TTH	Flexicut-T	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.227		Sjálfgæð netforrit	WsServer	
7	✓	Ⓜ	Flexicut-tth-VM-dev	Flexicut-t	TCP/IP Marel	Flexicut Portioning	On-line	pluto generic device	10.100.99.228		Sjálfgæð netforrit	WsServer	
9	✓	Ⓜ	Flexicut Sindri	Flexicut S	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.233		Sjálfgæð netforrit	WsServer	
11	✓	Ⓜ	Flexicut Kjarri	Flexicut K	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.108		Sjálfgæð netforrit	WsServer	
12	✓	Ⓜ	Flexicut Bjarni - gamalt	FlexicutB	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.138		Sjálfgæð netforrit	WsServer	
13	✓	Ⓜ	Flexicut Bjarni	Flexicut B	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.38		Sjálfgæð netforrit	WsServer	
14	✓	Ⓜ	Flexicut Tres	Flexicut T	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.133		Sjálfgæð netforrit	WsServer	
15	✓	Ⓜ	Flexicut-service	Flexicut-s	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.8.40.120		Sjálfgæð netforrit	WsServer	
16	✓	Ⓜ	Flexicut-SP3	Flexicut-S	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.70.42		Sjálfgæð netforrit	WsServer	
17	✓	Ⓜ	Flexicut TTH2	Flexicut T	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	10.100.99.229		Sjálfgæð netforrit	WsServer	
18	✓	Ⓜ	FlexicutEli	FlexicutEli	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	localhost		Sjálfgæð netforrit	WsServer	
19	✓	Ⓜ	Flexicut-A7	Flexicut-A	TCP/IP Marel	Flexicut Portioning	Off-line	pluto generic device	localhost		Sjálfgæð netforrit	WsServer	

FleXicut Gaping distribution report

Gaping is a phenomenon in which the connective tissue of fish fillets is weakened and fails to hold the muscle myotomes together, resulting in holes and slits in the fillet. The latest versions of FleXicut machines deliver gaping information in their messages. This information can now be visualized in the new **Gaping distribution** report in Manufacturing Execution.



The **Gaping distribution** report is a histogram that shows the distribution of gaping values and information about the share of pieces/portions that are over or under a preconfigured threshold value.

The report shows the measured gaping values over a certain period of time. The columns represent the number of pieces/portions in a configured percentage range. The graph also shows the threshold value as a red line to clearly indicate how many pieces/portions are above and below this value.

Grouping information for pieces/products, such as **Lane**, **Program** and **Product**, is displayed at the top of the report. At the bottom, summary values are shown for **Average**, **Minimum** and **Maximum** gaping, as well as **Pieces** count and **Weight** values below and above the threshold.

The report can be filtered by process unit, process period, production day, lot, shift, purchase order, batch, product, gaping type. You can also select to show gaping data from different process periods together or on different pages.

Gaping distribution

Process unit

All

Clear

Process period

All

Clear

Production day

16.9.2024 - 16.9.2024

Clear

Lot

All

Clear

Shift

All

Clear

Purchase order

All

Clear

Batch

Product

All

Clear

Gaping type

All

Clear

Break on process period

☐

Confirm

Cancel

Configuration

Before adding the report, you must install the ProcessAPI module and the FleXicut plugin so that the program editor in Pluto can send messages to AXIN to properly assign products.

To install the FleXicut plugin

1. In the Menu Editor, add the **Process API Plugins** view.

Menu editor

Plugins

Process API Plugins

Tools

Save

Refresh

Activate

Language: English

Name

Portioning

Portioning Log Based R...

Portioning Details

Portioning Daily Rep...

Portioning Analysis

Kalkulit

Dispatch

Alarms

Checkweighing

Portioning alarm

Alarms

Portioning

Dashboards

Planning

Production

Quality Control

Logistics

Process

Master data

Auditing

System

Database

User interface design

Software

Licensing

Install license key

Licensed features

System setup

Packing System...

Rail location setup

Portioning Setup

Portioning Lane...

Process API Plug...

Alarms

Programs

Devices

Diagnostics

General

☒ Active

Display name:

Process Api Plugins

en

Can open multiple instances

☐

Is Private

☐

System name:

<System name for the node>

View #291

View type:

Marel.Mps.ProcessApi.Utl.Windows.PluginsGrid

Component:

View object:

Marel.Mps.ProcessApi.Database.Data.PluginRecordType

Template:

Resource name:

System.Configuration.Programs.ProcessAPI.Plugins

Configure

View extensions

Permissions

Clear

Criteria

Parameter	Control	Edit	Visible	Default	Fixed	Value
-----------	---------	------	---------	---------	-------	-------

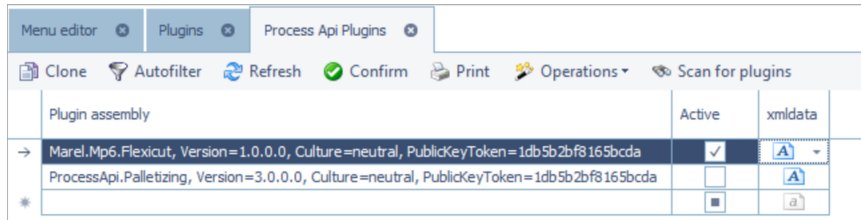
Refresh

Configure

Help

Help context:

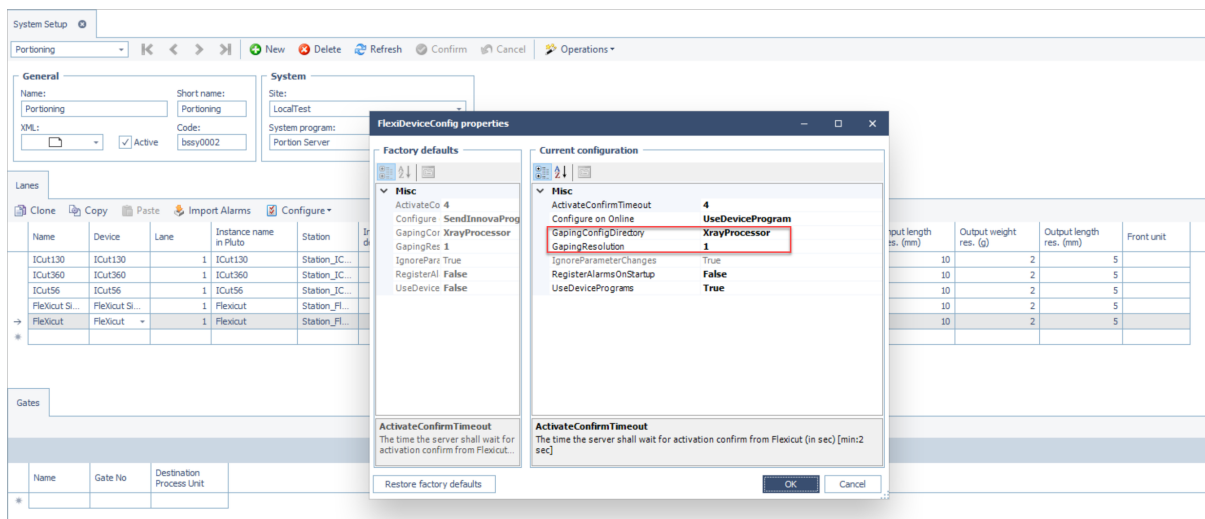
2. Open the view and add the **Flexicut** plugin.



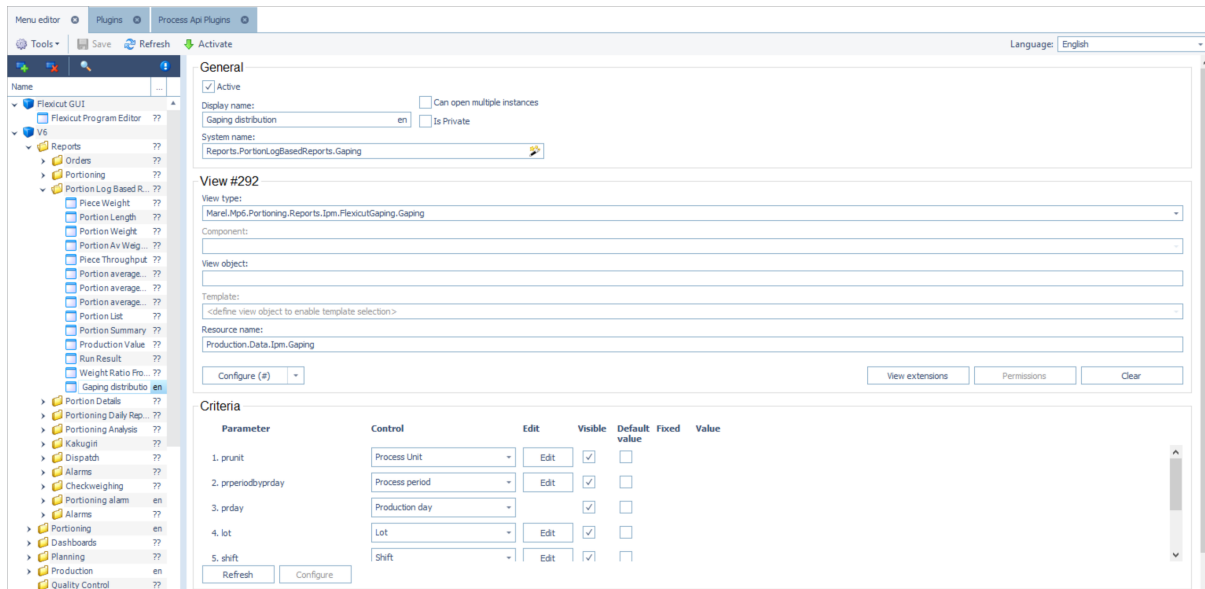
When a FlexiCut machine with the **Gaping** feature is installed in AXIN and connects to it, the gaping data is automatically sent in the piece and portion messages. AXIN reads the Pluto configuration storage of the connected machine and when **Gaping** is activated, saves this gaping data automatically to the database without any special configuration.

In the **System setup** view, in the **FlexiDeviceConfig properties** dialog, you can configure the following:

- **GapingConfigDirectory** - Configure the directory inside the Pluto configuration storage where the gaping configuration is contained. This is useful if the location of this configuration changes.
- **GapingResolution** - Configure the resolution for the gaping data. The default value is "1", which means that every column in the histogram represents 1% gaping.



To add the report, open the Menu Editor and add the view type
Marel.Mp6.Portioning.Ipm.FlexicutGaping.Gaping to the **Reports** menu.



Quality field removed from RecFlexicutPiece message

Quality was removed from the *RecFlexicutPiece* message and this field is now used for **Gaping value** (the same field is used on the **RecFlexicutPortion** message for **Gaping**). This is a breaking change.

Bug fixes

The following bugs were fixed:

Cannot activate a program on Flexicut

An issue was fixed where empty resource names no longer gave automatic access via Role-Based Access Control. This is intentional in FlexiCut because using resource names to control access is optional.

I-Cut - Program details/parameters seems to be dropped by AXIN

This was fixed.

I-Cut - Correct action when machine becomes online

Several changes were made to fix this issue, including:

- Improved tracing
- Changes in *ICut130Device* to add support to used *ICutCapabilities* to detect whether a machine is in Lite mode, and an override for *CheckRawMaterial* to check for Lite mode and, if necessary, import raw material.
- Changes in *PlutoDeviceBase*
- Updates to import an active program if the program is changed when the I-Cut is offline. This ensures that the newest program is received from the device if AXIN is configured to use the device program.

Process

Module version: 6.2.3

Changes in this release are from module version 5.4.2 to 6.2.3.

New features and improvements

The following new features and improvements to functionality were added:

Station implementation changes

The way stations are implemented was changed to work with the new **Workstations** view. Stations can no longer be created and are now extensions of workstations. See New features and improvements.

Configure product-dependent device settings

The **Product lists** view (formerly only in *YieldControl*) was recreated in the Process module as **Marel.Mp6.Process.UI.Windows.Activity.MaterialLists**. It will be removed from *YieldControl* in a later version.

Product lists

Clone

Autofilter

Refresh

Confirm

Print

Operations

Update activity

	Active	Code	Name	Short	Process unit
→	<input checked="" type="checkbox"/>	prml0002	Default product list	Default pr	MatListPrunit
✱	<input type="checkbox"/>				

Products

	Active	Sequence	Packing operation	Product
→	<input checked="" type="checkbox"/>	1		Beef
	<input checked="" type="checkbox"/>	2		Ham
	<input type="checkbox"/>	3		Pork
✱	<input type="checkbox"/>			

Config on path which table to use

You can now configure transaction paths to register product transactions as either material transactions, product registrations or both, by setting the **Registration mode** config for the transaction path.

Transaction paths

Clone

Autofilter

Refresh

Confirm

Print

Operations

ID	Name	Short	Active	Source process unit	Destination process unit	Transfers	Pack production	Pack assignments	Update interval	URL
1	Hans -> H1Left	Hans -> H	<input checked="" type="checkbox"/>	DCP02.HANS	DCP02.HANS.LEFT	Record each transaction	Record each transaction	Record each pack		A
2	Hans -> H1Right	Hans -> H	<input checked="" type="checkbox"/>	DCP02.HANS	DCP02.HANS.RIGHT	Record each transaction	Record each transaction	Record each pack		A
3	Prunit A	Prunit A	<input checked="" type="checkbox"/>	Prunit A	Prunit A	Record each transaction	Record each transaction	Record each pack		A
4	Prunit A -> H1Out -> Generic	Prunit A -> H	<input checked="" type="checkbox"/>	Prunit A	Prunit A	Record each transaction	Record each transaction	Record each pack		A
5	Prunit A -> H1Out -> Middleline	Prunit A -> H	<input checked="" type="checkbox"/>	Prunit A	Prunit A	Record each transaction	Record each transaction	Record each pack		A
6	Inventory A -> B	Inventory A	<input checked="" type="checkbox"/>	Inventory A	Inventory B	Record each transaction	Record each transaction	Record each pack		A
7	Prunit A -> Inventory A	Prunit A	<input checked="" type="checkbox"/>	Prunit A	Inventory A	Update one record	Update one record	No recording		A
8	Test	Test	<input type="checkbox"/>	DCP02.HANS	DCP02.HANS	Record each transaction	No recording	No recording		

Properties

AXIN

Marel.Mps.Process.Services.UNIT.Operations.Transactions.PathInfoConfig

Type here to search properties

Misc

CopyMaterialType: 0

CopyTransactionType: Transfer

DisablePushOnOutChanged: ☐

PushPaths: Material transactions

RegistrationMode: Material transactions

SendTransferMessage: Product registrations

Both

RegistrationMode

Specifies whether to write material transaction, product registrations or both.

OK Cancel

Mixed pallets functionality in UOs

The *ContentFlags* column in the **Pallets** view is now updated when a pack on a pallet is changed.

To enable this, a new configuration parameter, *UpdatePalletContentFlag*, was added to **Marel.Mp6.Process.Services.UnitOperations.UnitOperations.Common.UnitOperationConfiguration** in the XML data store. This is "False" by default.

Remove LiveHaulSchedule tables from the module

The **LiveHaul Scheduling** functionality was removed from the Process module and has been reintroduced in the relevant Poultry module(s).

Allow product selector to filter on sorting groups

The product selector can now create a new selector of the type *SortingGroup*. This selector type requires a sorting group and uses the sorting group product mapping (*SortingGroupProductsGrid*) to return the possible final products.

Product selector test view now supports sorting groups

It is now possible to select a sorting group in the product selector test view (*ProductSelectorProductsCE*).

The screenshot displays the 'TestSelector' window with the following elements:

- Selection Fields:** Five dropdown menus for selecting process unit, product selector, lot, cut type, and sorting group. The selected values are: *prpr0003, MeatMachine*, *prsl0011, SortingGroup*, *Select a lot*, *prma00012, CutTest*, and *pryg0001, A*.
- Status Bar:** Displays the selected IDs and codes for each field: Selected Process Unit Id: 3, Code: prpr0003; Selected Product Selector Id: 11, Code: prsl0011; Selected Cut Type Id: 12, Code: prma00012; Selected Sorting Group Id: 1, Code: pryg0001.
- Action Buttons:** 'View Buttons', 'View Grid', and 'View JSON'.
- Results:** A table showing the process unit 'MeatMachine', product selector 'SortingGroup', cut type 'CutTest', and sorting group 'A'. The resulting product is 'Lamb meat' with code 'prma00007'.

Product selector - Removed type restriction for source product in SortingGroupMapping table

The *CutProduct* column was renamed to *SourceProduct* and the cut type restriction was removed from the column.

Unit operations use SQL sequence numbers by default

CreateItem and *CreatePack* unit operations now use SQL sequence numbers by default instead of site counters in new installations.

Set unit op set list resource name default value as Production.Operator

The resource name default value for unit operation set list items is set to *Production.Operator* because empty resource names now give no access.

Product selector - Activate process method selector type when material is activated

Previously when the process method of a product was changed, the user had to perform two steps to view the changes. The user had to confirm the changes and then navigate to the product selector grid to re-activate the process method selector type.








This was changed so that when a process method is updated for a product, the changes will be displayed instantly. Changing the **Name** or **Code** of a product also refreshes the displayed product in the product selector. Setting a product's activity status to "False" removes it from the product selector display.

Bug fixes

The following bugs were fixed:

Customer layouts grid is missing

GridView now available in **Marel.Mp6.Process.UI.Windows.Printers.CustomerLayouts**.

 Clone	 Autofilter	 Refresh	 Confirm	 Print	 Operations ▾				
customer Name	itlayout Name	itlabels	pklayout Name	pklabels	stlayout Name	stlabels	palayout Name	palabels	
* 									

Product selector does not fire an event if the lot on the process unit changes

When packs were recorded on an IPC and the lot for the process unit was changed in the WinUI, no notification was sent by the *ProductSelector*. This was fixed.

Production system datamodel bug

The column *VariableWeight* in the table **proc_packaging1** is *real* but according to the design, it should be a *bool*. The column was removed and added again with the correct type and default "False".

Label Designer - Data fields from OptiPack assembly not available when opening Designer for labels

Duplicate configurations were removed. Now you can add *ValueProviderAssemblies* for OptiPack to the **Marel.Mp6.Process.Printing.PrinterManagerConfig** XML in the XML data store without having to configure it in Label Designer as well.

UnitOps - Cannot create/select Pallet with unitType is Stack

The *CreatePallet* and *SelectPallet* unit operations with **SubunitType** set to "Stack" were previously possible to make, but impossible to run. This was fixed in the following way:

When the unit operations are run with Stack as type, the operation uses the stack's first pack as input into the operation where pack logic/information is needed. They still use *Material.PalletSSize* and *PalletSSizeUm* to work with the stack.

SelectPack UO - Missing SearchScope Options

This was broken in previous versions and is now fixed and editable.

OperationContext.SkipNextOperation is not accessible from scripts

OperationContext.SkipNextOperation is now accessible from scripts again.

Product selector - Activate process method selector type when material is activated

Previously when the process method of a product was changed, the user had to perform two

steps to view the changes. The user had to confirm the changes and then navigate to the product selector grid to re-activate the process method selector type.

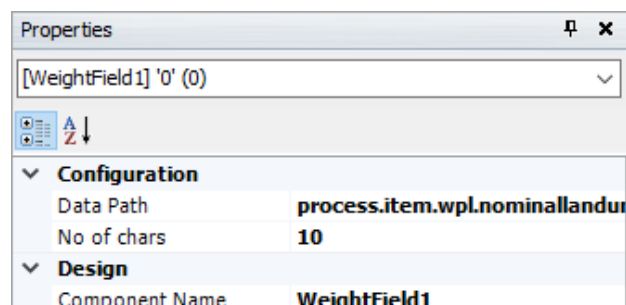
This was changed so that when a process method is updated for a product, the changes are displayed instantly. Changing the Name or Code of a product also refreshes the displayed product in the product selector. Setting a product's activity status to 'false' will remove it from the product selector display.

Database Maintenance - Delete Conflict due to proc_downgradehistory

An issue was fixed where database maintenance failed to delete from proc_matxacts when using downgrades.

WPL - weight field is always formatted to 10 characters, should be variable

It's now possible to adjust the length of the weight field in the WPL conformat. The length was previously fixed at 10 characters, which is still the default. The length can be adjusted in case the weight field needs to be close to the right edge.



Labeling - Device traffic UP from printers does not appear

An issue was fixed where UP data was missing Device traffic.

Missing data on Throughput report

An exception occurred in the **Throughput** report data reader that caused missing data in the report. This was fixed.

Label design explorer sometimes goes to first tab opened

Previously when the explorer in **Label designer** was selected, it sometimes set the focus outside the Label designer on the first tab in WinUI.

PageController was fixed to properly select/activate a page so as to not cause problems in other DocumentManagers when the control is removed/deleted within the nested DocumentManager.

Device settings not sent down when changing composite activity on prunit

An error was fixed that occurred when sending down composite activity device settings to a device from a process unit.

Unit operation parameters do not use correct criteria

An issue was fixed where unit operation parameters would always use the default criterion instead of the configured criterion.

Exception when trying to print a CustomReport on shared Windows printer from an IPC/PDA

An error was fixed that occurred when printing a CustomReport on shared Windows printer from IPC/PDA.

PCHOST-procop/0 6.0.0.0 - exception

An error was fixed where *procop* would not connect to the message service when running inventory operations.

Powershell support bugfix

A memory leak was fixed that occurred when running Powershell scripts.

Null reference in pack to order UO

An error was fixed that occurred when adding a pack to order that only had a *porderline* and no *porder*.

Parameter prunit in Data.Items is connected to department

The system entity for the prunit parameter in the **Items** view was changed to *ProcessUnit*.

Fix exception when opening the order grid with visible criteria

Criteria validation was failing in the order grid when the grid filter was visible.

Allow adding UnitOperations view extension for grids

The *UnitOperations* view extension was fixed so that it can be added as a view extension for any grid, allowing a unit operation list to be shown under the **Operations** menu.

Filtersettings under Labeldesigner Configuration fails to open

An exception was fixed that occurred when opening **Filter Settings** in the label designer.

Product selector - Stop caching CutType selector type in the service

The selector type was not returning expected results. Removing the selector type from caching provides more reliable data and should not affect performance.

Marel.Mp6.Process.UI.Windows.Activity.MaterialLists exception

The process unit lookup in the material lists grid was fixed.

TimeRegistrations grid cannot be added in Menu editor

An error was fixed that occurred when adding the **Time Registrations** view in the Menu Editor.

Fix dataset error when opening collection reports with Order criteria

Collection reports had an error when opening them with Order criteria because the query was searching for "Order in" with (*Marel.mp6.Base.Data.Parameters.IntegerParameterValue*) instead of the *keyValue* causing a "The multi-part identifier Marel.Mp6.Base.Data.Parameters.IntegerParameterValue could not be bound." error.

Fix concurrency issues when using the ProductSelectorClient

ProductSelectorClient had concurrency issues when updating the internal HashSet when multiple clients try to unregister and register product selectors.

PDA UO screen error when selecting a unit operation

An error that occurred when selecting a unit operation on PDA UO screen was fixed.

Automatic Inventory Snapshot Scheduled Program Time Reset

The automatic inventory snapshot scheduled program time reset was fixed.

Report Exporter Issues

An issue was fixed where the Report Exporter was not working for date criteria.

Error in ExportReports grid where an error is thrown the first time a row is selected

An issue was fixed in *ExportReports* where an error was thrown the first time a row was selected after updating to Base 7.0.0.

ExportReports grid - Unable to save criteria value for OffsetDateLookup criteria

An error was fixed in the *ExportReports* grid where a value could not be saved for an offset date lookup criteria.

QC

Module version: 3.1.1

Changes in this release are from module version 2.1.1 to 3.1.1.

New features and improvements

The following new features and improvements to functionality were added:

PF - temperature measurement rec. option

It's now possible to auto-repeat temperature measurements. When *CanRepeat* is selected, then the item will automatically repeat when a recording is made on a temperature probe.

PF - sequence of QC scheduled on IPC

QC contexts are now ordered by sequence number (with no sequence numbers last) on IPC screens.

Make SelectStationUnits station displays packs but not items and pallets

Three new parameters were added to *SelectStationUnitCeConfig*:

- ShowPacks (default true)
- ShowItems (default false)
- ShowPallets (default false)

SelectStationUnits station not able to inspect items and pallets

Functionality for **Item** and **Pallet** inspections were not implemented in *SelectStationUnitInspectionCE*, only **Packs**. This functionality was added to the controller extension with the following configuration properties:

- AllowPacks
- AllowItems
- AllowPallets

Repeated non-conformances

Non-conformance items can now be marked as repeated items. When doing inspections with such non-conformance items, they will repeated like other repeated items.

M6000 Inspection results report can have the selected inspection procedure take precedence over ResultPanelReportId

Previously, the report configured for the view/menu item was preferred over the report configured for the procedure. Now the options for the report shown in the IPC result panel have been updated to the following:

- Report configured for procedure in the QC Process setup
- Report configured for the view/menu item
- Default report

New QC Station - Create inspection by order line

A new IPC station for QC was created that allows operators to view all assigned order lines for a process unit and start an inspection with the order line (and parent order) registered into the header of the inspection.

When an inspection for an order line is completed, the order line button turns green.

When an order line is selected in the view, the operator can select a procedure for the matching product or select from one of the generic procedures.

The view for the new station is *Marel.Mp6.QC.UI.Common.SelectOrderLineInspectionCE*.

Station Unit Inspection 69	Order line Inspection 73	Operations	
DSKQC > Order line Inspection 73 - Select order line			
15:51: Order lines loaded.		Next load: 00:04:41	
Order Line: QC Order #2 - 3 - prma00790 - 10 kg flug plastaður		Order Line: QC Order #1 - 4 - prma00843 - 10 kg flug	
Order Line: QC Order #1 - 1 - 10kg skip - 10 kg skip			
Krapi	Hitastig		
Refresh		Inspect	

In addition, the **QC inspections** view was updated with two new fields in the **Context** panel on the **About Inspection** tab that show the orderline that was inspected:

- Order line sequence
- Order line product

The screenshot displays the 'Inspections' module in AXIN Software. At the top, a table lists inspection records with columns: Id, Process, Procedure, Registration time, Product code, Product, Original weight, Item id, orderline, Order, and Status. A record with Id 6473657 is highlighted.

Below the table, the 'About Inspection' tab is active, showing a detailed form with the following sections:

- Procedure:** Includes fields for Process code (qcp0170), Procedure code (qcp0106), Parent inspection, Select method (Unknown), Inspection plan line, Plan time, Station group code, and Station group.
- Inspection:** Includes fields for Inspector code (11), Employee code, Production day (19-11-2024), Inspection day (19-11-2024), Registration time (19-11-2024 09:54), Process period (444982), Subprocess period (444982), and Status.
- Context:** Includes fields for Product code (10kg skip), Purchase order code, Batch, Lot code, Production lot code, Resource area code, Shift code (prsh0001), Order code (pror06001), and Order line sequence (1). The 'Order line product' field is also set to 'QC Order #1'.
- Results:** Includes fields for Absolute score (2,000), Relative score (2,000), Score class, Weight, Original weight, Pieces, Registrations (1), Record type (Normal), and Record status.

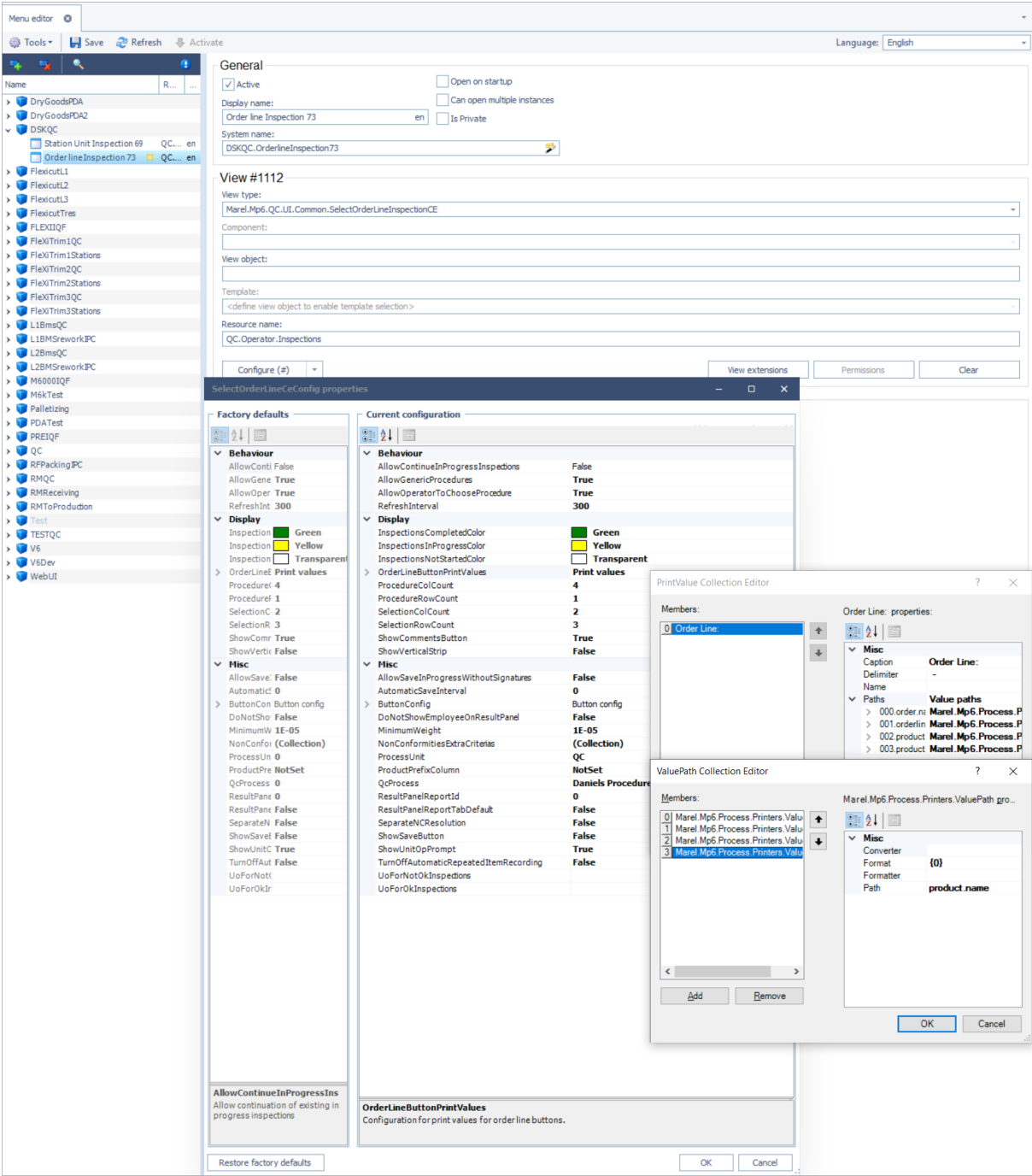
IPC setup

Most things are exactly the same as for the *StationUnits* inspection. For example, the *ProcessUnit* and *QcProcess* must be set to the corresponding Process Unit and *InspectionProcess* setups. The main difference is that the print values have different records available. See Print values configuration.

Print values configuration

The text displayed on order line buttons can be customized using the **Print values** configuration. The recognized records/names for print values in the order line selection grid are:

- order
- orderline
- product

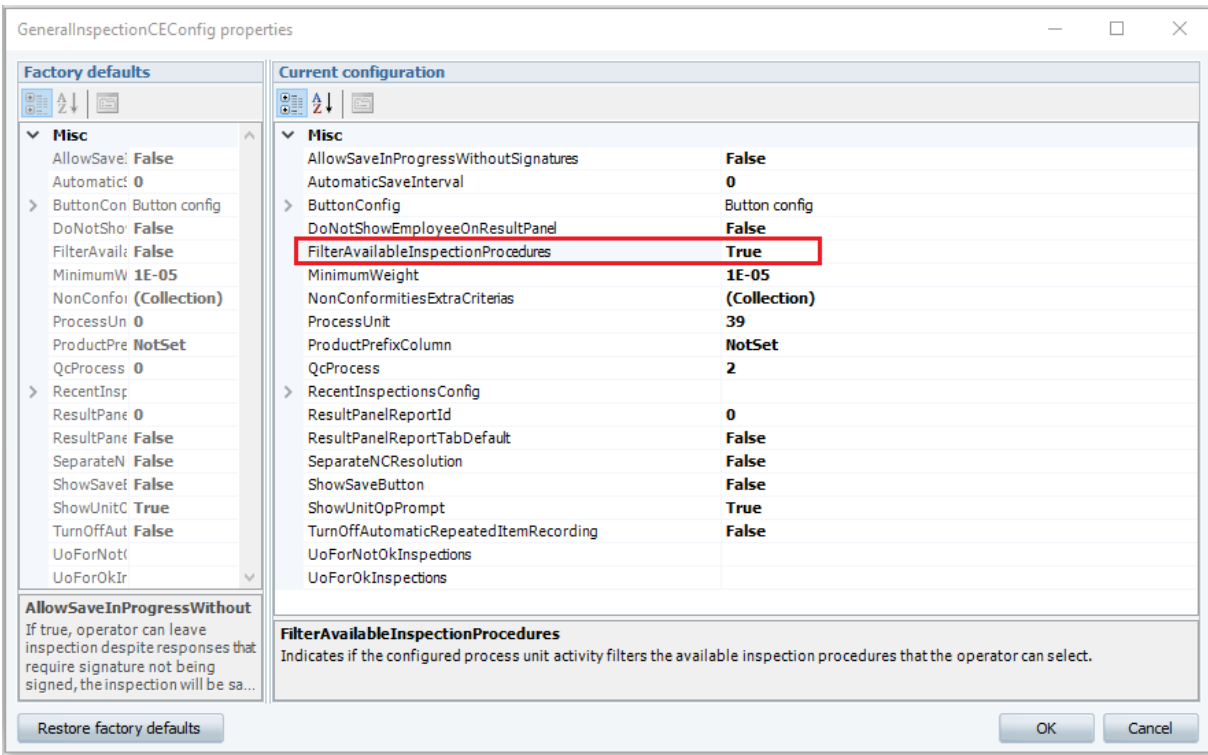


Support for filtering available inspection procedures based on process unit activity

Support was added for filtering available inspection procedures based on process unit activity (This functionality was added to versions 5.9.1 and up).

Configuration

A new Boolean configuration property was added to the **GeneralInspectionCEConfig** properties panel, *FilterAvailableInspectionProcedures*, which indicates whether the configured process unit activity filters the available inspection procedures that the operator can select.



The process unit included for the controller extension should be configured as a **Product** configuration table.

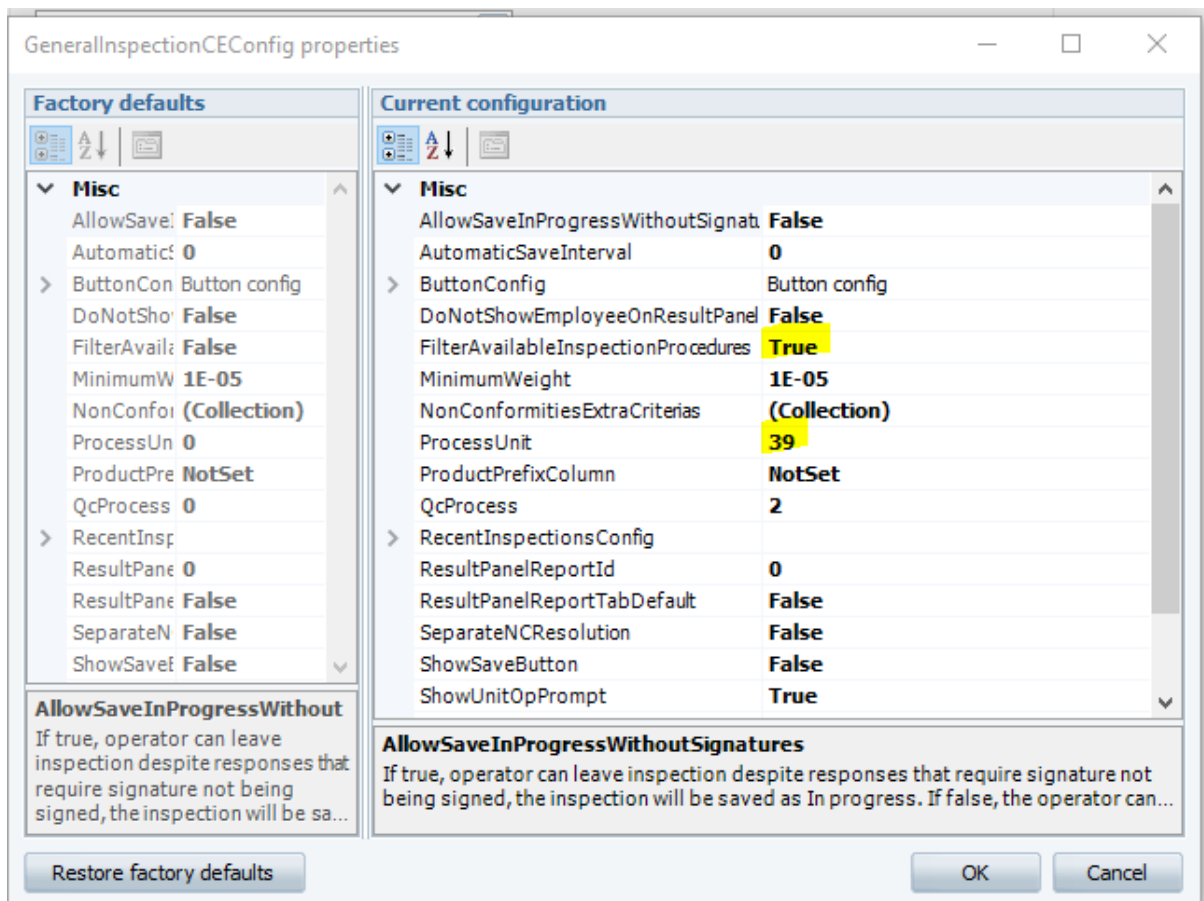
External code	Id	Sequence in GUI	Name	Short	Configuration table	Section	Line type	Display in GUI	Active	Activity method	Line
	39							<input type="checkbox"/>	<input type="checkbox"/>		
	39	39	QC station 2	QC2	Product	Production	Process unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change directly	
								<input type="checkbox"/>	<input type="checkbox"/>		

If the configuration flag is turned on, then the view reacts to the process unit's *ActivityChanged* event and updates the available QcProcedures/Contexts according to the new activity. This happens instantly if the **Select context** view is open.

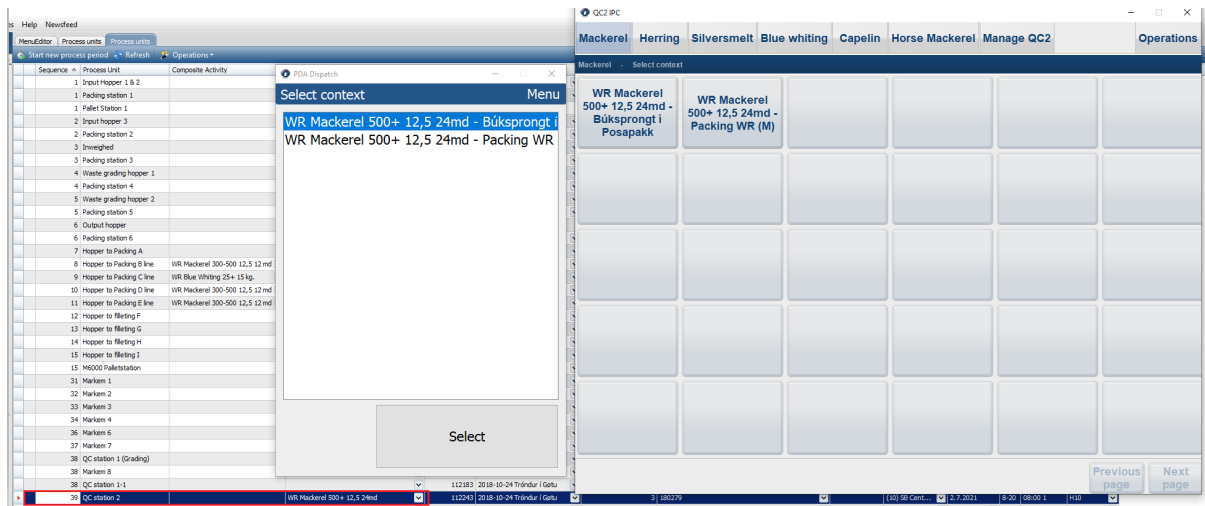
If the operator is in the middle of doing a QC inspection, then the product in the current inspection does not change. It only changes when the operator finishes or stops the inspection and then goes back to the context selection.

Example:

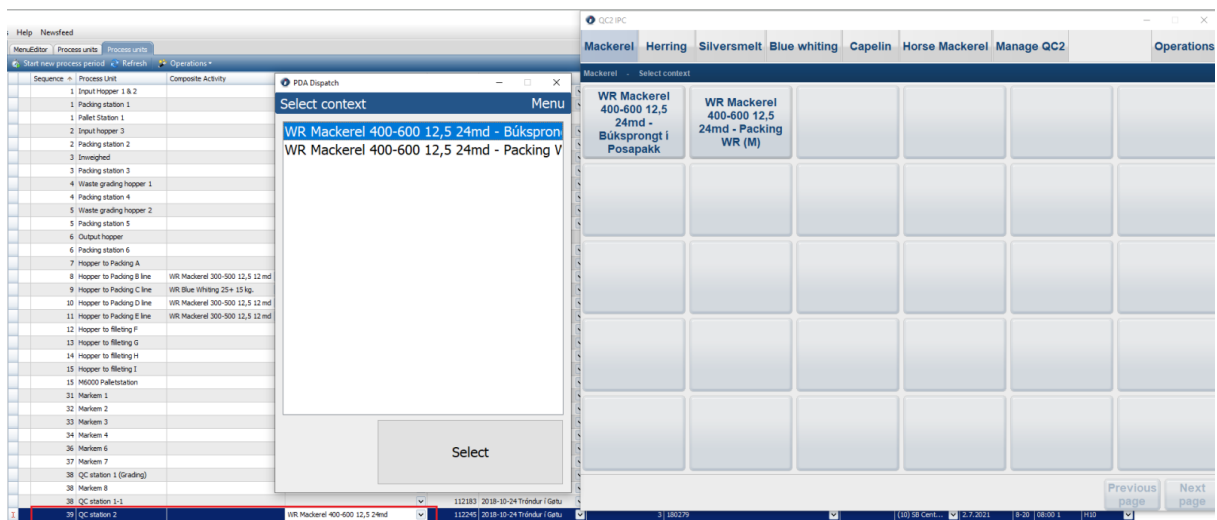
In this example, the same view configuration is activated with the same process unit and filter on both IPC and PDA.



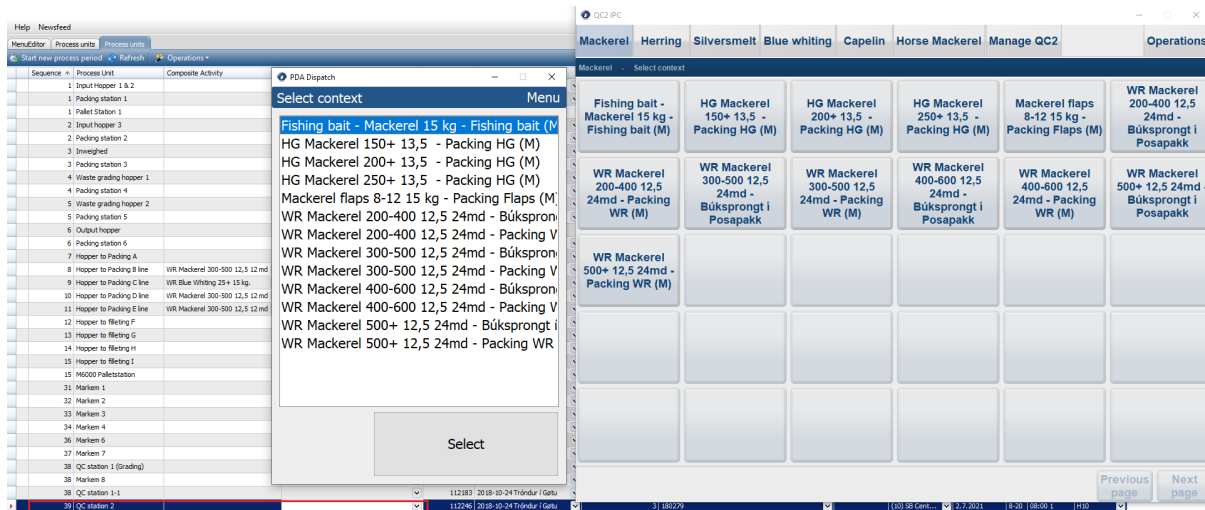
The context selection is filtered according to the product on the process unit.



When the activity on process unit changes, the context view is instantly updated.



If the activity on process unit set to null, then the filter is not activated and all the procedures for the QC process are available.



Bug fixes

The following bugs were fixed:

BaseOp PopulateViewType Error: QC / InspectionPageEx query parameter

Migration in the Toolbox should be run to make sure QC criteria is up-to-date.

Criteria creation and handling in the report was fixed and the *employee*code criterion was removed because it is not installed or used.

EmployeeDefectsCE not working

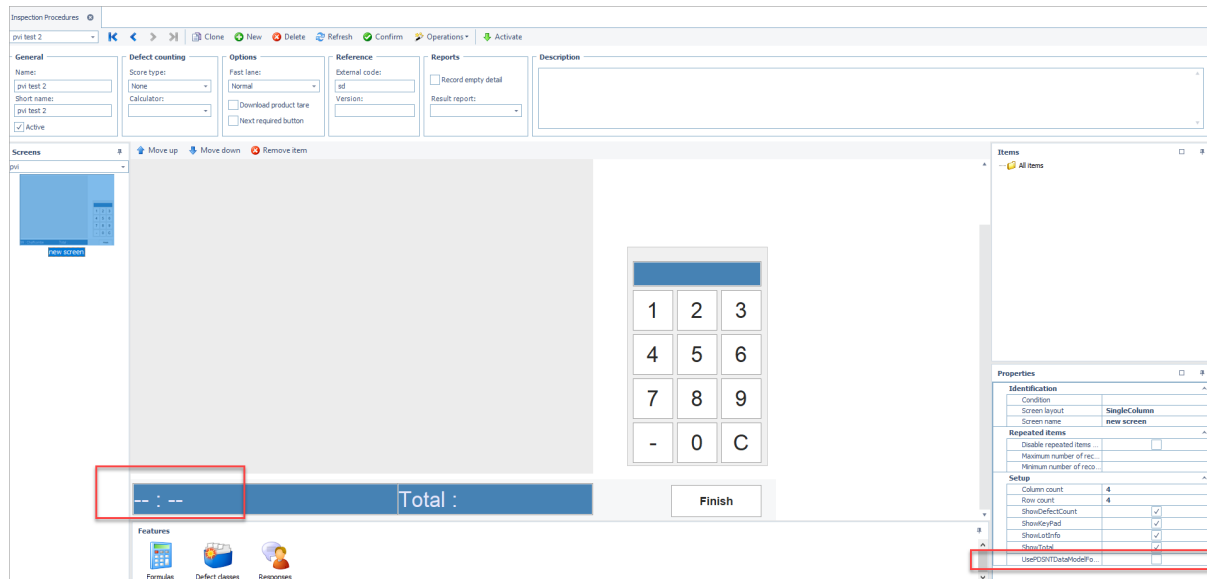
In issue was fixed where nothing happened in *EmployeeDefectsCE* when a button was pressed.

Result report not showing on station

Several changes were made to fix this issue, including changes in *ResultPanel* and updates to support the new Criteria Framework changes. See Criteria Framework improvements.

PVI QC station - Make PDSNT data model vs AXIN lot model configurable

A new configuration property was added to the **PVI Inspection Procedure** when using the PVI screen factory: *UsePDSNTDataModelForLotInfo*. Instead of selecting lot information from the PDSNT database, the station displays the name of the active AXIN lot.

**Fails to open Marel.Mp6.QC.Reports.Maintenance.MaintenanceList**

The criteria parameters were fixed and now the report opens.

Fails to open Marel.Mp6.QC.UI.Windows.Configuration.EquivalentProcesses and .Data.NonConformities

This was fixed and now the report opens.

Fails to refresh data for Marel.Mp6.QC.UI.Windows.Data.InspectionAcc

This was fixed, but note that this view provides the same information as the **Inspection** view.

Error in log for some reports - CommandText property has not been initialized

This was fixed and now there is no error in the log when opening QC reports.

Error when opening QC lot reports

This was fixed and QC lot reports now open successfully.

Error when trying to open some reports - Value cannot be null. Parameter name: value

This was fixed and QC reports now open successfully.

Incorrect assignment of system entity in reports

This was fixed.

Inspection Result report is missing sorting on inspection items

Previously inspection items were shown in random order (the same order as fetched from the database). Now a new report configuration setting, *SortingOrderInspectionItemValueByDescription*, is available to sort inspection items. By default this is not enabled.

Exception error when running `rs.PopulateObject(this)` in `QualityInspectionListReport`

When this report was opened, an exception occurred and the report failed to open. This happened because of an error in the translation which has now been fixed.

An unhandled exception occurs when closing `InspectionViewer`

This was fixed.

In `InspectionViewer`, buttons are enabled when no entries/rows in grid and no row is selected

Now the **Inspection Viewer** toolbar buttons are disabled when an invalid row is selected.

Error occurs when trying to open `InspectionsByApp`

The **Inspection by app** view was removed after review. In the **Inspections** view, criterion filters were updated, as well as show/hide functionality to optimize switching.

Converter bugs in `Marel.Mp6.Core.Resources.ResourceScope`

Several issues were fixed in *Marel.Mp6.Core.Resources.ResourceScope*.

QC procedure directly in PDA - Context is not removed when starting new procedure

An error in QC inspection on PDA was fixed. The result panel was not cleared properly before displaying new results.

Report Exporter - Error exporting a custom QC report

An *Open DataReader* issue fixed by adding a using statement when fetching views in *QCDataSourceFactory*.

Bug when selecting a value from a large valuelist

Support was added for multiple pages in the QC value list edit box when choosing a value list item and setting the button text.

Group button in New Conformity UI shows an error

The *NonConformitiesExtraCriteria*s configuration property was not initialized, causing a null

reference exception. The issue was fixed by initializing the property as an empty list in configuration.

Maximum number of recordings - strange behavior

An issue was fixed where users could add more recordings to an inspection than was configured in the procedure.

Automatic jump to next inspection field does not work with conditional field - condition not triggered

An issue with automatically jumping to the next inspection when the conditional field is next was fixed.

Logging out of station causes crash

An issue was fixed where logging out of the IPC could cause the QC Station to throw an exception.

There's no link (connection) from the Inspection result Report to Non conformity Report or vice versa

The report *Marel.Mp5.QC.Reports.InspectionResults.Inspection* now has a clickable link to non-conformity details in the print preview.

Inspection items				
Screen	Item	Defects	Defect class	Result UM
101 - 101	10101	1	Not a defect	Not conforming

Repeated Items GUI controls getting disabled & data doesn't get saved

The following issues were fixed:

- Inspection data gets saved if the user enters the data for repeated items and clicks **Done** and **Finish**.
- QC UI controls (Left, Right and Increment) should be enabled for new inspections without having to close and open WinUI.
- Values entered in the repeated items will be retained even if the user browses back and forth.

Inspection Results Single Report doesnt sort the inspection items as they appear in the procedure

An issue was fixed where the columns that the report was sorted on were incorrectly mapped

as String instead of Int, resulting in all inspections with 10 or more items per screen having an incorrect order.

Changed behavior of required fields - cannot finish the procedure

Previous changes were reverted because they resulted in incorrect behavior of the **Done** button in the **Inspection** view. The latest inspection item was not saved before checking if the current screen could be finished.

Vet inspection station not working

An issue was fixed that occurred when performing an inspection using the Pvi (Vet station) screen factory. The XML configuration was not routed to the inspection station correctly.

QCInspectionConfiguration problem on UOstation and Ultimatestation

A new configuration parameter, *UseCustomerContext*, was added to the M6000 *PackingInspectionConfig* and Unitop Station *QCInspectionConfiguration*. When enabled, this parameter will use the **Customer context** tab of the Inspection process setup when selecting a QC process in the relevant station.

Inspection cant be completed if it has a hidden screen with RequiredToComplete item and this hidden screen is not processed

An issue was fixed on QC stations where hidden items and screens were marked as "required" even though they were not visible. Now all hidden items and screens are "not required" by default.

Hidden Inspection Item functionality lost

An issue with inspections not being able to complete with hidden inspection items (Conditional false) was fixed by making sure Conditional dependencies are always taken into account when setting item and screen visibility because the visibility is also used to determine what items are required for completion.

Not able to have employee name/code shown on buttons on EmployeeDefectsCe (ButtonConfig seems to be bypassed)

EmployeeDefects station configuration settings have been applied correctly to enable adjusting the text on context buttons along with number of buttons in rows and columns.

Exception when filtering on 'inspection items' in the 'inspection result' report

An error was fixed in the SQL sentence in the function *GetRepeatedNonConformityQuery* in the *InspectionValueListItems* class.

Formula fields change value when navigating the Screens tab in the Inspections grid

A issue was fixed in *InspectionViewer* where formula fields had incorrect data when selecting new rows in the grid.

In InspectionViewer, buttons are enabled when no entries/rows in grid and no row is selected

An issue was fixed in *InspectionViewer* where toolbar buttons were enabled even if no rows were shown in the grid.

Exception when viewing an QC inspection

An issue was fixed where an exception occurred when viewing an inspection that contained a hidden repeatable item with no data.

Inspection Item, Type = Object ID - Conditional field not saving result

An issue was fixed where inspection items that were recorded to the header (such as Product items) were not included in conditional item calculations, which caused conditional items to not be recorded.

Double registrations on QC Inspection items with the same regtime, etc.

QC IPC stations now support trace switches. These trace switches can be used to debug and analyze what is happening on the QC IPC.

The traces can be collected via *mp6trace.exe* or preferably by updating the WinUI shortcut on the IPC to write logs to file locally on the IPC.

For example, "-d sw=15-999;file" in WinUI startup arguments creates a log file in the ProgramData directory.

System programs		Trace for QC IPC	
<input type="checkbox"/> Connect <input type="checkbox"/> Log <input type="checkbox"/> Flush <input type="checkbox"/> Clear		<input type="checkbox"/> Highlight <input type="checkbox"/> Hold	
<input type="checkbox"/> 1. Trace listener <input type="checkbox"/> 2. Connection manager <input type="checkbox"/> 3. Database logger <input type="checkbox"/> 4. Query thread <input type="checkbox"/> 5. Mps application <input type="checkbox"/> 6. Thread manager <input type="checkbox"/> 8. Listen-socket 7022 <input type="checkbox"/> 9. CacheManager-0 <input type="checkbox"/> 10. Message service connection <input type="checkbox"/> 12. LicenseAuthority <input type="checkbox"/> 13. Customer file service <input type="checkbox"/> 14. M6000Controller <input type="checkbox"/> 15. WinUI Debugging <input checked="" type="checkbox"/> 17. BaseInspectionControllerExtension <input checked="" type="checkbox"/> 18. InspectionManager <input type="checkbox"/> 19. SchedulingMessageClient.2 <input checked="" type="checkbox"/> 20. InspectionItemPanel <input checked="" type="checkbox"/> 23. M6000InspectionView <input type="checkbox"/> 24. ProcessUnitClient.1		<input type="checkbox"/> Filter <input type="checkbox"/> Regular expression	
		20 InspectionItemPanel 12-11-2024 09:50:26 SaveInspectionItemsOnScreen Saving all inspection items on 20 InspectionItemPanel 12-11-2024 09:50:26 SetInspectionItemValue for item type:Integer, id:1, procIte 23 M6000InspectionView 12-11-2024 09:50:36 ScreenDoneClick 20 InspectionItemPanel 12-11-2024 09:50:36 SaveInspectionItemsOnScreen Saving all inspection items on 20 InspectionItemPanel 12-11-2024 09:50:36 SetInspectionItemValue for item type:Integer, id:1, procIte 20 InspectionItemPanel 12-11-2024 09:50:38 SetInspectionItemValue for item type:Integer, id:1, procIte 20 InspectionItemPanel 12-11-2024 09:50:39 SetInspectionItemValue for item type:List, id:4, procItem:2 20 InspectionItemPanel 12-11-2024 09:50:39 SetInspectionItemValue for item type:List, id:4, procItem:2 20 InspectionItemPanel 12-11-2024 09:50:40 SetInspectionItemValue for item type:List, id:20, procItem: 20 InspectionItemPanel 12-11-2024 09:50:40 SetInspectionItemValue for item type:List, id:20, procItem: 20 InspectionItemPanel 12-11-2024 09:50:41 SetInspectionItemValue for item type:List, id:5, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:41 SetInspectionItemValue for item type:List, id:5, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:43 SetInspectionItemValue for item type:Integer, id:3, procIte 20 InspectionItemPanel 12-11-2024 09:50:44 SetInspectionItemValue for item type:Integer, id:3, procIte 23 M6000InspectionView 12-11-2024 09:50:45 ScreenDoneClick 20 InspectionItemPanel 12-11-2024 09:50:45 SaveInspectionItemsOnScreen Saving all inspection items on 20 InspectionItemPanel 12-11-2024 09:50:45 SetInspectionItemValue for item type:Integer, id:3, procIte 20 InspectionItemPanel 12-11-2024 09:50:45 CurrentScreenDone. Clearing recording method and calculatin 20 InspectionItemPanel 12-11-2024 09:50:45 ClearAllItems 20 InspectionItemPanel 12-11-2024 09:50:45 AddItem if type:List, id:8, procItem:34, name:Reason 4 20 InspectionItemPanel 12-11-2024 09:50:45 SetInspectionItemValue for item type:List, id:8, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:45 AddItem if type:List, id:4, procItem:35, name:Condemed 20 InspectionItemPanel 12-11-2024 09:50:45 SetInspectionItemValue for item type:List, id:4, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:47 SetInspectionItemValue for item type:List, id:8, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:47 SetInspectionItemValue for item type:List, id:8, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:48 SetInspectionItemValue for item type:List, id:4, procItem:3 23 M6000InspectionView 12-11-2024 09:50:49 ScreenDoneClick 20 InspectionItemPanel 12-11-2024 09:50:49 SaveInspectionItemsOnScreen Saving all inspection items on 20 InspectionItemPanel 12-11-2024 09:50:49 SetInspectionItemValue for item type:List, id:4, procItem:3 20 InspectionItemPanel 12-11-2024 09:50:49 CurrentScreenDone. Clearing recording method and calculatin 20 InspectionItemPanel 12-11-2024 09:50:49 SetInspectionItemValue for item type:List, id:4, procItem:3 23 M6000InspectionView 12-11-2024 09:50:50 FinishButtonClicked 23 M6000InspectionView 12-11-2024 09:50:50 ScreenPanelFinished Submitting inspection with all required 17 BaseInspectionControllerExtension 12-11-2024 09:50:50 DoSubmitInspection:Submitting inspection 18 InspectionManager 12-11-2024 09:50:50 SubmitInspection:Submitting current inspection 17 BaseInspectionControllerExtension 12-11-2024 09:50:53 InspectionSubmitted: Execcuting Unit Operation for OK in 23 M6000InspectionView 12-11-2024 09:50:53 ResultPanelFinished 17 BaseInspectionControllerExtension 12-11-2024 09:50:53 DoFinishInspection:Finishing inspection 18 InspectionManager 12-11-2024 09:50:53 SubmitInspection: Committing current inspection with id:6	

Value type = Purchase order not showing any POs

Inspection Items with a *ValueType* of Purchase Order, Lot, Production Lot or Raw Material Area now support selecting valid values even if the process unit is not configured in the QC IPC menu configuration.

Note that when the configured process unit has its Purchase Order, Lot or Production Lot methods set to any variant of *Assigned, then the list of values only show those that have been assigned to the process unit.

Non-conformity corrective action visibility on IPC

Non-conformity responses marked as inactive were still displayed on the responses page. The fix that was applied works on both IPC and PDA, and now the functionality matches the expected behavior.

Recipe

Module version: 4.0.0

Changes in this release are from module version 3.0.2 to 4.0.0.

New features and improvements

The following new features and improvements to functionality were added:

Fix recipe status history when 'saving' released recipes

Status history information was added to master recipes, so you can now link a recipe to the master recipe it was created from and enter the reason for the update.

In addition, an option was added to remove the BOM from a recipe.

Check if recipe is sub-recipe when 'saving' released recipe

Now when a sub-recipe is saved, the parent recipe is also saved.

Bug fixes

The following bugs were fixed:

Bug related to lot and material scanning in scanning steps

This was fixed.

Using units in scanning step causes error

This was fixed.

Lookup values not loaded until Next button press

This was fixed.

SensorX

Module version: 4.0.1

Changes in this release are from module version 3.0.1 to 4.0.1.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

Error when opening up SensorX system setup

An issue was fixed where an error occurred when opening the **System setup** view for SensorX.

Improved prunit config status

The prunit config status is now set to error if the SensorX is offline. This ensures that when sending a timeout, the status will be set to error if the transmission hangs.

SIS

Module version: 4.0.2

Changes in this release are from module version 2.2.0 to 4.0.2.

New features and improvements

The following new features and improvements to functionality were added:

Carrier View module independence

The **Carrier View** is now implemented as a separate module (current version is CarrierView 4.0.0).

Compatibility with HEC compliant terminals for Auto SIS

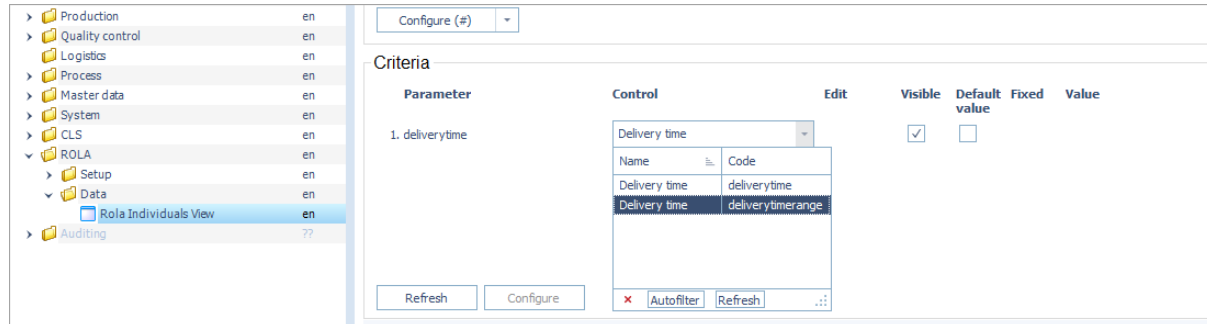
Auto SIS IPCs now support high-resolution HEC-compliant terminals.

New Auto SIS Individual Inspection terminal

A new **Individual Inspection** terminal for inspecting and weighing individuals in stables is available for Auto SIS.

ROLA - "Calendar filters" in Orders grid and ROLA Passport Entry

A new *GridFilter* was added to *PurchaseOrder.DeliveryTime* in the *RolaIndividualsView*. You can also select the date/time range in the Menu Editor:



ROLA - Add QA Marks grid back into RolaPoOverview grid

A QA marks detail tab was added to the ROLA Overview view.

ROLA - Remove the QA Mark limit on the ROLA terminal

The QA mark limit was removed from **Individuals** on the ROLA terminal.

Basic SIS - Manual Classification - Add inputfields for bruising score and fix the others

A new bruising degree input field was added to the Basic SIS Classification terminal.

Basic SIS - Attach a newly created individual to a selected slaughter plan at Batch Sequencing

Now newly created **Individuals** are added to the slaughter plan when batching.

SIS - Update Individual Report

The selection criteria for the **Individuals** report was changed from **Item regtime** to **Individual slaughter day**.

ROLA - Add a calculated column on the master grid which counts the amount of individuals linked to the PO

In the ROLA **Individuals** view, the number of individuals is now shown in the status bar for a selected PO.

SIS - Move SIS printer engine and context to its own assembly for labelling

There is now an option to include SIS information on a label by using a SIS value provider in the *LabelDesign* configuration.

Add the new SIS value printing assembly (*Marel.Mp6.SIS.Printing*) to the *LabelDesign* configuration and printer manager in the XML data store:



Figure 1 XML data store

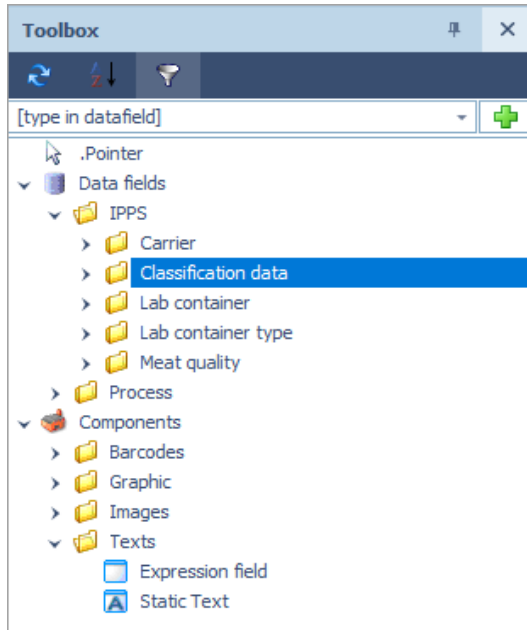


Figure 2 Label designer

New SIS dashboard components

The following components were added to SIS dashboards:

- **KillLine Status** - Shows the status of the kill line
- **Findings** - Shows an overview of defects from vet/finding stations
- **Weight deviations** - Shows weight deviations

Basic SIS / Automatic SIS - Update Unique Sequencing Terminals

On **Unique Individual** sequencing terminals, data for the previous individual is now shown.

SIS - StaticCarrierIdentificationTerminal - Connect RF-ID Reader direct to IPC

It's now possible to connect an RF-ID reader directly to the PLC or the AXIN Software Manufacturing Execution system. If the RF-ID reader is connected to Manufacturing Execution, then the RF-ID device must be linked to the terminal in the SIS system setup configuration.

Location handlers						Terminals	
	Station	LPos	LPid	Pulse	XML		
→	Rehanging	1					
*							

Terminal devices		
	Device type	Device
→	CarrierRfidReader	Reader
*		

In the *StaticCarrierIdentificationTerminal* configuration in the Menu Editor, set the **RF_ID** parameter *PrependLeadingZeroesFixedLength* to add leading zeroes to the RF-ID code for a fixed length, for looking up a carrier/item.

StaticCarrierIdentificationTerminalConfig properties

Factory defaults

- Carrier Search
 - SearchCon: CarrierSearchCo
- CarrierView
 - CarrierView
- ControlPanel
 - ControlPar
- RF-ID
 - PrependLe: 20
- System
 - ExportUnit
 - HideCreate: False
 - Terminal
 - UseSector: True

Current configuration

- Carrier Search
 - SearchConfiguration: CarrierSearchConfiguration
- CarrierView
 - CarrierViewPanel: Veterinary inspection SC
- ControlPanel
 - ControlPanel: Retain
- RF-ID
 - PrependLeadingZeroesFixedLength: 20
- System
 - ExportUnitOperation: False
 - HideCreateButton: False
 - Terminal: AS - Retain
 - UseSectionTypeWhole: True

CarrierViewPanel: Carrier View Panel

Restore factory defaults OK Cancel

Basic SIS - queue view terminal - Show Lpos

The station name is now visible when selecting an item in the **Queue View** terminal.

Basic SIS - Individual Sequencing Terminal - add slaughter plan option

It's now possible to select a slaughter plan on the **Individual Sequencing** terminal. Authentication on the **Slaughter Plan** button is "True" by default but can be switched off in the

configuration. In addition, there is a new input field for **Breed**.

Basic SIS- Classification Terminal - Keep input field selection for consecutive items with the same individual

The **Classification** terminal now returns classification data from the previous item if the current item doesn't have that data (no overwrite) AND the current individual is the same as the previous individual (left- and right-side item process). Note that **Keep Selection** must be turned on in the *InputField* configuration for this to work.

Basic SIS - Support for manual scale (deviceId -99)

Support for manual scales (deviceId -99) was added to Basic SIS.

Basic SIS - Create extcode on classification terminal

New *ExtCode* parameters were added to the Basic SIS classification terminal configuration:

Parameter	Description
ExtCode's Label macro	The label macro to execute.
ExtCode's Optional section types to set the extcode	<ul style="list-style-type: none">• If given, set the ExtCode of items in the tree with specified section types.• If the source item is of type Left side or Right side, the opposite side's section types are filtered out.• If not given, sets the ExtCode on the source item.

SIS - Slaughter Plan, add new status "pending"

A new **Pending** status was added to the slaughter plan. Groups in the plan with this status will not be shown on the sequencing station until an operator changes the group status to **Open**.

Basic SIS - ClassificationTerminalCE, Option to print Carcass/Side Parts

The same printing options already present in the Auto SIS classification terminal are now available in the Basic SIS variant. The Basic SIS variant does filter the **Section type** list if the item's

section type is of type **Left side** or **Right side**.

Basic SIS - Sequencing terminal - Slaughter plan info text configurable

The information text (FarmerCode) on the **Slaughter plan** button is now configurable.

Basic SIS - Able to execute classification matrixes via API call

It's now possible to use an external API call for decision matrices by itemid.

Basic SIS - Classification terminal - Change the text from the order button

It's now possible to override the text on the **Order** button.

Add optional shift column to slaughter plan

An optional **Shift** column was added to slaughter plans in Basic SIS and Auto SIS to handle process unit shifts when collecting slaughter plans. This column is hidden by default.

Basic SIS - Add new ChangeSlaughterPlanState consume to the SisIntegrationService

It's now possible to update slaughter plans using the SIS Integration Service (Rabbit MQ).

ROLA - Add new option to Compartment function

An **Unobstructed compartments** column was added in the **ROLA System setup** view (*Marel.Mp6.SIS.ROLA.UI.Windows.Setup.SystemSetup*). This option allows the operator to select every empty compartment in the pen.

Animal pens		Terminals						
	Pen number	Name	Type	Compartment count	Compartment capacity	Is FIFO	Mixed pen	Unobstructed compartments
✎	1	A	Special attentio...	4	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2	B	Normal	4	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	3	C	Normal	4	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4	4	Normal	4	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5	D	Normal	8	10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	6	E	Normal	8	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7	F	Normal	8	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	8	G	Normal	8	10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	9	H	Normal	8	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Changes in RePrint functionality in Basic.SIS.Classification terminal

The **Re-print** functionality was improved and added to the QueueViewTerminal.

Option to Hide "Done" Button on BatchSequencingTerminalCe

The slaughter plan paginate buttons are now larger on the **Batch Sequencing Terminal** and an option to show or hide the **Done** button was added. In Basic SIS, a confirmation dialog now appears after pressing **Done** (as it does in Auto-SIS).

BasicSIS - Add SIS_ClassificationMatrices table

A new **SIS_ClassificationMatrices** table was added to Basic SIS, which records the last-run matrices at Classification.

Basic SIS - Record terminal history for a carcass

The fixed terminal text was removed from the **Queue View** terminal. Instead, terminal history can be used on the **Carrier view** card by using the "Last seen at" option under "SIS" in the Carrier View designer.

Add an option to disable the "Farmer Ready" button on Sequencing Batch terminal on IPPS line

An option was added to the **Batch Sequencing** terminal to disable the **Farmer Ready** button.

Basic SIS - Remove "Terminal" label from QueueView terminal

The last-seen terminal information was removed from the **QueueView** terminal.

Auto-SIS - Add PH and Fat value to Individual Inspection terminal

Two new parameters were added to the **Individual Inspection** terminal configuration:

Parameter	Description
Fat	Fat input field configuration that includes options to activate, make the input required, input a manual value as input, configure minimum and maximum value options for the input range and sequence in the list of input fields.
PH value	PH value input field configuration that includes options to activate, make the input required, input a manual value as input, configure minimum and maximum value options for the input range and sequence in the list of input fields.

Bug fixes

The following bugs were fixed:

ROLA-Move animal between stables

After moving an animal from one stable to another on the IPC (*StablesIndividualsTerminalCe*), the number of animals was displayed incorrectly. This was fixed.

ROLA (*StablesIndividualsTerminalCe*) - marked stables is blocking "TO SLAUGHTER" action

The selection color was changed to make it more clear that a compartment is selected, and now when a new lane is selected, the other lane is deselected.

ROLA Unloading terminal and uncorect values for Expected, Received etc

An issue was fixed where expected numbers were incorrect when individuals were deleted.

ROLA - Hide Color selection on rola receiving individual terminal breaks the terminal

When selecting **Hide color**, the terminal tried to load another view but this remained empty. This was fixed.

ROLA - FIFO compartments do not seem to move up after moving to slaughter

An issue was fixed where FIFO pens were not moving remaining animals in compartments to the front when compartments were emptied.

Assign to Stable not more than 4 qa marks

The Max 4 QA Mark check was removed in the **Assign to stable** Passport entry view.

SIS 1st Individual not getting ROLA info when no user in Sequencing Terminal

This was fixed.

Sequencing station doesn't handle selection correctly

This was fixed.

Basic SIS - Static Inspection's Create button can't be hidden

The **Create** button on the Basic SIS - Static Inspection Terminal can now be hidden.

Basic SIS Previous Button on Classification does nothing after record

An issue was fixed where the **Previous** button on the Classification terminal did not work correctly when no control panel was configured and a different terminal changed the findings.

BasicSIS.InlineInspectionTerminalCe Unhandled Exception on Search

An issue was fixed that caused errors when searching for a carrier on the Inline Inspection terminal.

Basic SIS - StaticInputField terminal Queue bug

An issue was fixed where the split item queue event would lead to showing the split of an item on the splitting *StaticInputField* terminal.

Basic SIS - Items not in retain after search

An issue was fixed where items were not retained after searching and selecting **Next**.

Basic SIS -Cannot access disposed object manual classification

An issue was fixed where the view was disposed and could no longer be accessed after a queue change event was triggered.

SIS - Carrier view does not show SisClassificationRegQuality data

An issue was fixed where the **Carrier view** did not show all information related to the classification record.

Basic SIS exception - Classification Terminal

A *System.InvalidOperationException* exception that appeared in the Classification terminal was fixed.

Basic SIS - Unknown Qa Marks on sequencing terminals

An issue was fixed where unknown QA marks added to a slaughter plan resulted in an error.

Basic SIS - Location Error in Log after starting BasicSISMan

An issue was fixed where a location error was shown in the log after restarting BasicSISMan even when the locations existed in the system.

Basic SIS - Double up on Classification terminal

An issue with duplicate kill numbers was fixed in Basic SIS (IPPS).

BasicSIS-Classification overrides pre-created Classification Record

An issue was fixed where classification records that were created using integration were overridden by the Terminal Cache after recording on the terminal.

SIS Integration - Shift uses ID instead of Code

An issue was fixed where the SIS Integration Service used the Shift ID instead of the Code.

Carrier View Variables Item.PO Table columns missing

The purchase order record was added to the CarrierView value provider for individuals and items.

BasicSIS Classification terminal, issues with Scale, Tares and Request Weight

Several issues were fixed relating to tare information not being downloaded to the M2200 scale and errors with Requested Weight.

BasicSIS error Fetching SlaughterPlan on BatchSequencingTerminalCe

An issue with the query used to fetch the slaughter plan from the terminal was fixed.

SIS Basic - InLineInspection Terminal exception when removing Finding

An exception was shown after adding a finding to a carrier and then searching for and removing the finding and pressing **Next**. This was fixed.

ROLA RolaGroupIndividualsTerminal - Exception after completing PO

After completing a PO on the **RolaGroupIndividualsTerminal** and creating a new one, and then assigning animals to a stable, an exception error was shown. This was fixed.

ROLA - (Batch) Receival terminal, no QA marks when emergency

An issue was fixed where an **Emergency** slaughter on the **(Batch) Receival** terminal did not save the QA mark on the slaughter plan.

QC inspection not implemented for emergency and sick animals on Stable terminal

QC inspection was fixed on the **Stable Individual** and **Stable** terminals so that QA marks can now be set on the slaughter plan when an individual or group of animals is sent to **Sick** or **Emergency**.

SIS - StaticCarrierIdentificationTerminal - Rehanging Code is not updated well

This was fixed.

ROLA - SendIndividualsToSlaughter does not properly send animals to slaughter

An issue was fixed on the ROLA **Stables** terminal where individuals were not always properly sent to slaughter.

Basic SIS ClassificationTerminalCe - Search not working OK with Retain Queue Items

When searching items from the normal queue, items in the **Retain** area were also shown. If selected, the item could be **Recorded** but still remained in the **Retain** queue. This was fixed.

ROLA StablesTerminalCe - Wrong Weight on Group Split

When a **Group** was assigned to **Stables** and only part of the group was sent to a **Slaughter Plan**, the system calculated the wrong weight. This was fixed.

Known issues

The following are known issues in this release:

Verify and modify grid parameter visibility in the Menu Editor

To ensure the optimal functioning of the Carcass Information view's filtering capabilities, it is imperative to verify and modify grid parameter visibility within the Menu editor.

RolaIndividualsView (Passport entry)

You must refresh the **RolaIndividualsView (Passport entry)** to activate the filter.

SmartWeigher

Module version: 4.0.2

Changes in this release are from module version 3.0.4 to 4.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

Smartweigher & IRIS - Namespace changes are not considering Resource name in Roles

An issue with role permissions for IRIS and Smartweigher modules was fixed.

Smartweigher and WGM names

The working title "WGM" was still used in some of the translated texts in the Smartweigher module. The same applied to the UI package that was installed during installation of the Smartweigher module. Now all references to "WGM" have been replaced by the module name "Smartweigher".

Only positive TAP weigher offset is allowed

The TAP settings in Smartweigher now allow for a negative weigher offset again.

Error reading XML files

An error was fixed where there was no Unicode byte order mark when reading XML files.

Fixing the module outputs

Errors found in module outputs were fixed.

Sol.BoxSorter

Module version: 3.0.2

Changes in this release are from module version 2.0.1 to 3.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

BoxSorter startup error

An issue with missing dependencies when starting up BoxSorter was fixed.

Sol.Fish

Module version: 4.0.1

Changes in this release are from module version 3.1.0 to 4.0.1.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

In reports when selecting PO as All there is an error

An error that occurred in reports when **Purchase orders** was set to the default value "All" was fixed.

Sol.SPacker

Module version: 3.0.2

Changes in this release are from module version 2.1.0 to 3.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Alarm for Salmon SPacker when no matching orders are assigned

A new feature allows monitoring pieces that go off-end with a **No Order** status from the grader and raise an alarm to alert operators so they can take action and verify order availability for all products.

A minimum number (configurable) of pieces must be reached before the alarm is activated.

An in-memory categorized collection of the off-end pieces is maintained. Pieces will time-out after a period (configurable).


The alarm state contains a descriptive list of the pieces, grouping by Piece Type (SUP, ORD, PROD) and by weight range. A count of each group is shown and the list is ordered descending by this count to highlight the product with the most rejects.


Sample alarm shown in standard dashboard components:

- AlarmMonitor
- AlarmLamp

- QueryLabel

Alarm Monitor

No		Device	Name	Details	Time	Alarm	State
1		SP Grader	No order available for product	SUP 5,0-6,0 kg 14 pcs	2024-04-17 15:36:00	On	0



SUP 5,0-6,0 kg 14 pcs

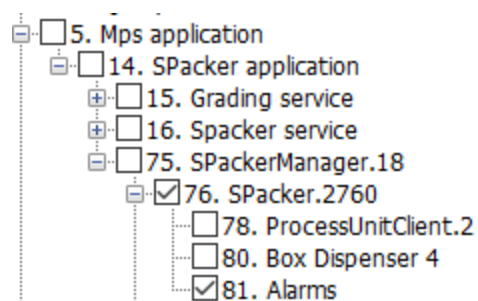
ORD A 5,0-6,0 kg 10 pcs

SUP 4,0-5,0 kg 7 pcs

Sample query for Query label to show alarm state:

```
select statedescription from base_alarms
where
owner = 2760 -- spacker device Id
and code = 'SpackerNoOrderForProduct'
and alarmon = 1
union all
select '' as statedescription -- to hide 'N/A' from query label component
```

A trace switch for diagnostics:



Example of an alarm XML config (part of SpackerNew config section of grading system setup)

```
<!--Alarm configuration-->
  <AlarmConfig>
    <!--Should alarm be enabled-->
    <Enabled>True</Enabled>
    <!--Alarm record to use, created if not existing-->
    <Alarm>
      <!--Alarm record code, used to look up alarm record.-->
      <Code>SpackerNoOrderForProduct</Code>
      <!--Alarm record name, used when creating new alarm
record.-->
      <Name>No order available for product</Name>
      <!--Alarm record description, used when creating new alarm
record.-->
      <Description>No order active on grader matching following
types and sizes</Description>
    </Alarm>
    <!--Weight ranges to use for all piece types-->
    <WeightRanges>
      <WeightRange>
        <Min>0</Min>
        <Max>1</Max>
      </WeightRange>
      <WeightRange>
        <Min>1</Min>
        <Max>2</Max>
      </WeightRange>
      <WeightRange>
        <Min>2</Min>
        <Max>3</Max>
      </WeightRange>
      <WeightRange>
        <Min>3</Min>
        <Max>4</Max>
      </WeightRange>
      <WeightRange>
        <Min>4</Min>
        <Max>5</Max>
      </WeightRange>
      <WeightRange>
        <Min>5</Min>
```

```
        <Max>6</Max>
      </WeightRange>
    <WeightRange>
      <Min>6</Min>
      <Max>7</Max>
    </WeightRange>
    <WeightRange>
      <Min>7</Min>
      <Max>8</Max>
    </WeightRange>
    <WeightRange>
      <Min>8</Min>
      <Max>9</Max>
    </WeightRange>
    <WeightRange>
      <Min>9</Min>
      <Max>10</Max>
    </WeightRange>
    <WeightRange>
      <Min>10</Min>
      <Max />
    </WeightRange>
  </WeightRanges>
  <!--Time-out rejected pieces after specified period, Zero dis-
ables timeout-->
  <PieceTimeoutMinutes>5</PieceTimeoutMinutes>
  <!--Minimum number of concurrent rejected pieces before turn-
ing the alarm on.-->
  <MinimumPieceCount>10</MinimumPieceCount>
</AlarmConfig>
```

Bug fixes

The following bugs were fixed:

Finish production on Products settings blocks orders from setting on grader

An issue was fixed where the default value for the configuration parameter

FinishProductionResetsGates was set to "True", so that gatelists in the product settings were

cleared when *FinishProduction* was performed. This meant that none of those products could be used to send orders to the grader. The default value is now set to "False" so that users can retain their gate configuration between productions.

System.IO.FileNotFoundException in spkpendingmonitor.exe

Missing dependencies were fixed for *spkpendingmonitor.exe*.

Sol.Stork

Module version: 2.0.2

Changes in this release are from module version 1.0.1 to 2.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

PDS Sender not recording the lot and product correctlyStork module not handling 0 flock correctly

A missing fix was added for product transaction and lot change on the process unit for *TransferNetData* (Message 1280 - *RecTapShackle*) and *TransferTapGate* (1297 - *MsgTapGate*).

Trimming

Module version: 5.0.2

Changes in this release are from module version 4.2.0 to 5.0.2.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

FleXitrim fail to register material transactions for secondary trim output

An issue was fixed where FleXitrim did not produce material transactions for secondary trim output.

Missing information in Trimming items grid

An error that occurred when opening the **Trimming items** view (*Marel.Mp6.Trimming.UI.Windows.Data.Pieces*) was fixed.

StreamLine "Line history" report not working

An error was fixed in the StreamLine Line History report.

QC Score Class enumeration missing

This was fixed.

Unit Operations

Module version: 4.0.1

Changes in this release are from module version 3.1.1 to 4.0.1.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

UnitOpStation, InventoryOperationParamter not showing any data

An issue was fixed where inventories were not displayed when using *InventoryOperationParameter*.

Installation Manager fails to install UnitOperations

An issue was fixed where the Installation Manager did not install the Unit Operations module.

Virtual scale does not record

An issue was fixed where the virtual scale did not record in the *Marel.Mp6.Solutions.UnitOperations.UI.Ipc.UnitOpCE* view.

UnitOpCE - Error searching Pack by SSCC

An issue was fixed where searching a unit by SSCC on the Unit Operation station did not work.

Marel.Mp6.Solutions.UnitOperations.UI.Ipc.UnitOpCE - strange behavior

An issue was fixed where the Unit Operation station did not open correctly.

VID

Module version: 4.0.1

Changes in this release are from module version 3.1.4 to 4.0.1.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

There are no bug fixes to report in this release.

Web UI

Module version: 4.0.1

Changes in this release are from module version 3.1.2 to 4.0.1.

New features and improvements

The following new features and improvements to functionality were added:

Base URL changed from innovaweb to axin

The URL of the reverse proxy has changed from **innovaweb** to **axin**. Be sure to change your bookmarks to this URL. For example:

If you start WebUI with this URL: **http://inndev02188015/innovaweb/web-ui**

Then change it to this URL: **http://inndev02188015/axin/web-ui**

- See Data Visualization

Bug fixes

There are no bug fixes to report in this release.

WPL

Module version: 3.1.3

Changes in this release are from module version 2.3.0 to 3.1.3.

New features and improvements

The following new features and improvements to functionality were added:

OEE support

OEE support was added for the WPL900+.

NuGet feed for module projects

A NuGet feed has now been published to be consumed by other modules.

Bug fixes

The following bugs were fixed:

WPL/Label Designer/Process not handling data bound images correctly

To fix this issue, the **WPL Status** view now supports downloading bitmaps, with WPL bitmap names created from the **Bitmap name** field. The default behavior is to create WPL bitmap names based on the **Bitmap short name**.

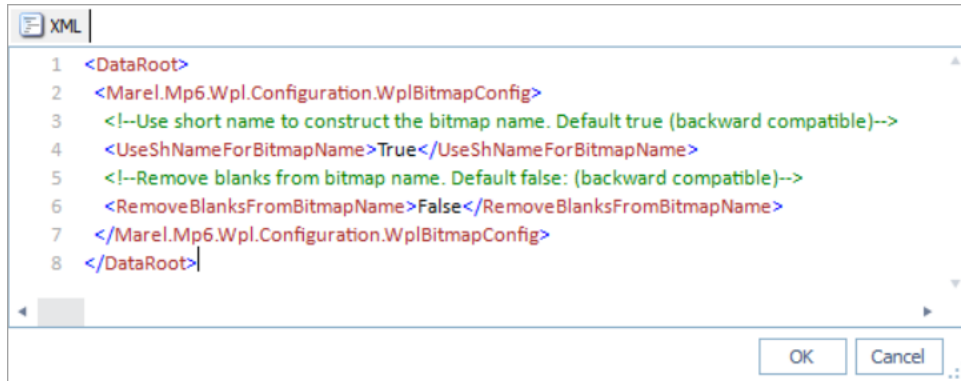
In addition, it's possible remove blanks from the bitmap file name downloaded to the WPL. This is only an issue if the bitmap is used in a data bound control.

To support this, a new entry was added to the XML data store.

XML data store			
<div> Clone Autofilter Refresh Confirm Print Operations Configure </div>			
Subject class	Subject assembly	Id	XML
wpl.con	=		
Marel.Mp6.Wpl.Configuration.WplBitmapConfig	Marel.Mp6.Wpl, Version=2.3.3.0	Marel.Mp6.Wpl.Configuration.WplBitmapConfig	
*			

Two new configuration parameters control how WPL bitmap names are created:

Parameter	Description
UseShNameForBitmapName	<p>Used by the WPL Status view when downloading bitmaps.</p> <p>For WPL9000+</p> <ul style="list-style-type: none"> If set to "True" (default), then the first 8 characters of the Bitmap short name will be used as the basis for the WPL bitmap name. If set to "False", then the first 8 characters of the Bitmap name will be used. <p>For WPL9000</p> <ul style="list-style-type: none"> In both cases, it will use the first 7 characters and then append a character to denote the rotation.
RemoveBlanksFromBitmapName	<p>Used when a Conformat is constructed to remove blanks from a bitmap name. This setting only affects bitmap names that are dynamically updated (data bound images).</p> <p>After the setting is updated, the WinUI and WplMan must be restarted.</p>



Yield Control

Module version: 4.0.1

Changes in this release are from module version 3.0.2 to 4.0.1.

New features and improvements

There are no new features or improvements to functionality to report in this release.

Bug fixes

The following bugs were fixed:

Error when opening up Yield systems

An issue was fixed that caused an error when opening the **Yield systems** view.

Error when opening up QC tables

An issue was fixed that caused an error when opening the **QC tables** view.