Changes for the Better



Mitsubishi Electric Corporation Industrial Robot

# **MELFA Technical News**

BFP-A6079-0226E

April 2018

Subject: Report of RT ToolBox3 Ver.1.20W release

# Applicable to: FR series, F series, SQ series, SD series, S series (CR800/CR750/CR700/CR500 series robot controller)

Thank you for your continued support of Mitsubishi industrial robot "MELFA".

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This Technical news describes the new version 1.20W of the RT ToolBox3. 3F-14C-WINJ(E)/3F-15C-WINJ(E)/3F-16D-WINJ(E)
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In order to use the functions described in this technical news, you need to download the latest version from MITSUBISHI ELECTRIC FA site, and upgrading the RT ToolBox3.

#### 1. Additional model

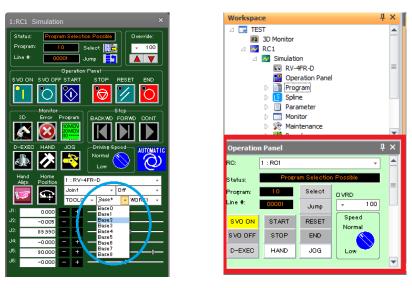
- Corresponded to CR800-Q series.

Corresponds to CR800-Q series robot. Device monitor / Multi-CPU parameter / IO unit Parameter screen corresponds to CR800-Q series.

- Model added for RH-3CRH4018-D / RH-6CRH6020-D / RH-6CRH7020-D.

# 2. Operation Panel

- Add function to switch base.
- Added function that display in docking window.



# MITSUBISHI ELECTRIC CORPORATION

#### 3. 3D monitor

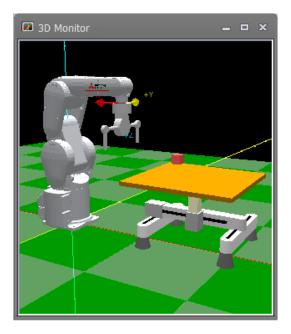
- Added setting to display 3D monitor always in front of option.

By checking [Always display in front] in [3D Monitor], it will always be displayed on the front from the time the next 3D monitor is started up and you can move outside the screen of RT ToolBox3.

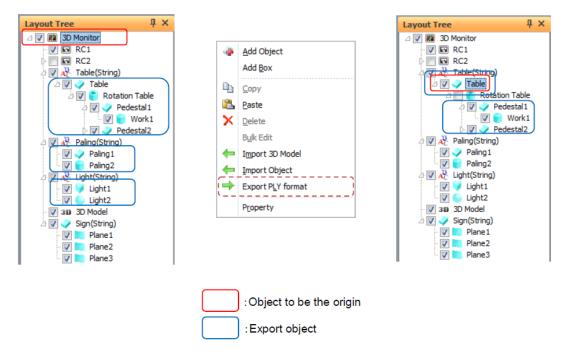
II Option		x
Qeneral Operation Panel Deration Panel Deration Program Editing Reset Default Values	Display method of 3D monitor Aways display in front Object	Move Along Movement Axis (Arrow) Move Along Movement Axis Free Movement
		DK Cancel

- Added function that display user mechanism.

Create a user mech. file from the [User Mech. File Manager] and add the user mech. item to the robot in the layout tree and select the user mech. file to be displayed.



- Added function that export layout object in PLY format.

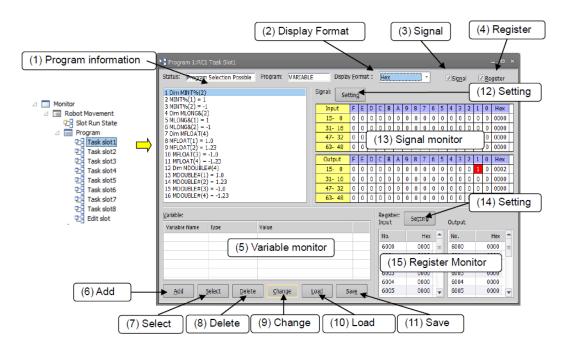


#### 4. Oscillograph

- Function safety items (Safety input, Safety input signal A, Safety input signal B) added to acquired data.

#### 5. Program monitor

- Added general purpose signal monitor and register monitor on program monitor.



#### 6. Restore

- The "parameter" backup can be restored to the offline project.

Workspace
🛆 🔜 TEST
🔢 3D Monitor
⊿ 🔀 800-D
🛆 🔀 Offline
RV-4FR-D
D 📺 Program
D 🚺 Spline
D 🗐 Parameter
🛛 🖣 Backup
D 🚞 All
Derogram
⊿ i Parameter
20180409-164312
System Program Restore
Delete
⊿ 🔀 750-D

# 7. Project

- Added a function to delete multiple projects at once.

Workspace	ц ×	7	
Factory Line #1		MELFA RT T00iB0X3 ×	
3D Monitor			L
D 🔀 RC1		Are you sure you want to delete the following projects?	L
RC2			L
D 🔀 RC3		RC1	L
D 🔀 RC4		RC3 RC5	L
	/	NG5	L
Edit Project			Ł
Delete Project			L
MEL Update Project			4

- Change the process of opening the project of RT Toolbox2.

When RT ToolBox2 workspace is opened with RT Toolbox3, a dialog is displayed to confirm whether to use RT Toolbox2 parameters for the first time only.

RT ToolBox3 displays the following RT ToolBox2 parameter information.

Simulator parameters -> Offline parameters

Offline parameters -> Backup parameter information

Open workspace of RT ToolBox2  X				
Uncheck the project that does not use RT ToolBox2 simulator parameter data as RT ToolBox3 parameter data.				
Project Name	Robot name			
RC1	RV-7F-D			
RC2	RV-7F-D			
RC3	RV-7F-D			
RC4	RV-7F-D			
For parameters	that do not use offlir	e parameter data of RT ToolBox2 as backup of RT ToolBox3,		
please uncheck.				
✓ (Select <u>A</u> II)				
Project Name	Offline parameter	Robot name		
RC1	20180221-085243	RV-7F-D		
RC2	20180221-085338	RV-7F-D		
RC3	20180221-085342			
RC4	20180221-085350	RV-7F-D		
		OK Cancel		