Changes for the Better

MITSUBISHI ELECTRIC

Mitsubishi Electric Corporation Industrial Robot

MELFA Technical News

BFP-A6079-0258E

March 2020

Subject: Report of RT ToolBox3 Ver.1.62Q release

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

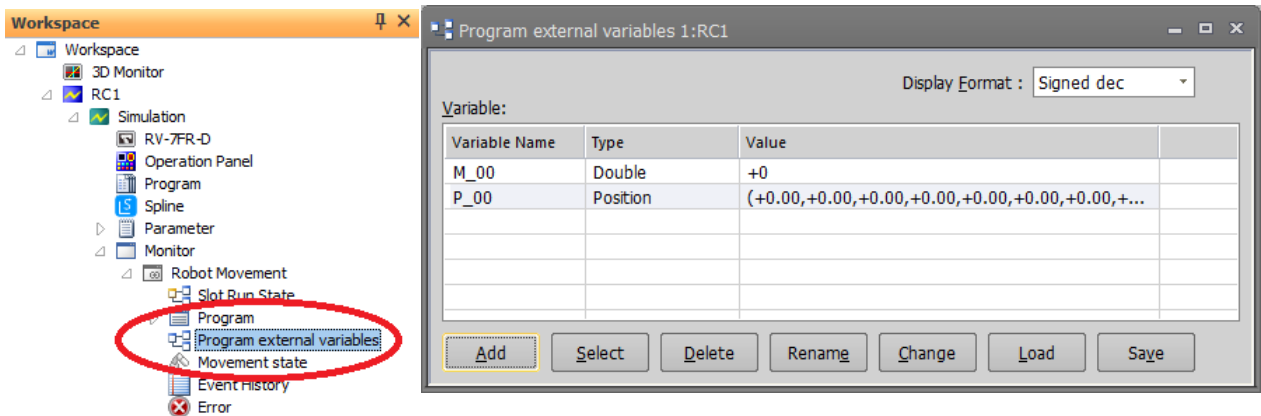Thank you for your continued support of Mitsubishi industrial robot "MELFA".

This Technical news describes the new version 1.62Q of the RT ToolBox3.
3F-14C-WINJ(E)／3F-15C-WINJ(E)／3F-16D-WINJ(E)

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．Function improvement

-"Program external variables" monitor is added.

The monitor of the program external variables which use between several robot programs is add as another screen of Program monitor.
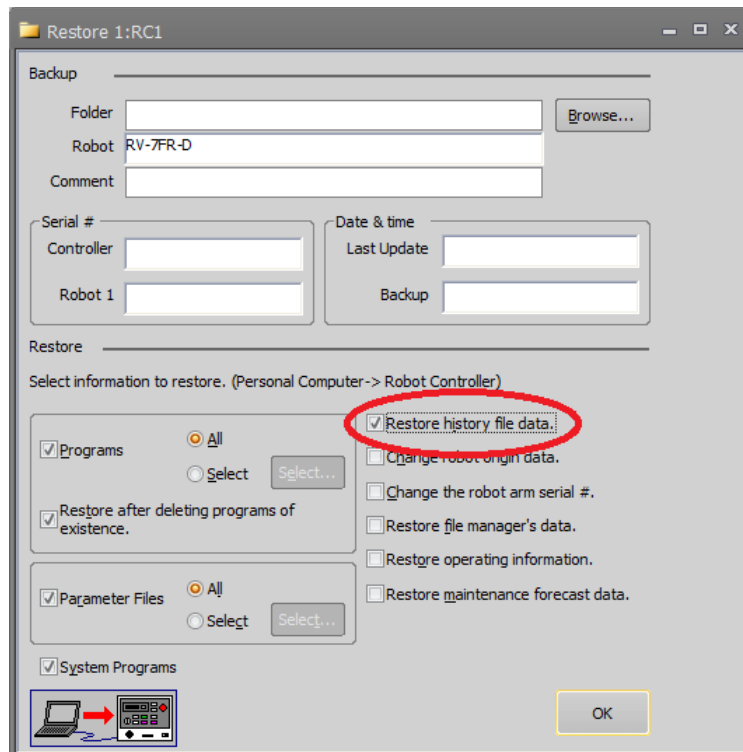
-"Safety diagnosis function" is added in "Safety Parameter".

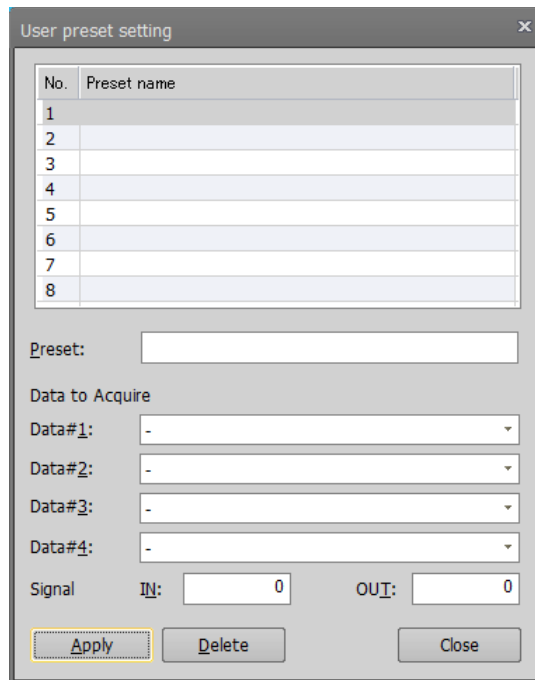   The screen is for turning on the safety diagnosis function.
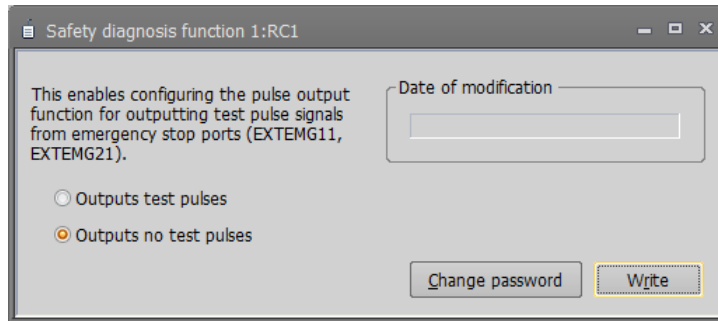
-[Restore history file data.] item is added in "Restore".

    The history files can be changed whether or not to restore when restoring all files.
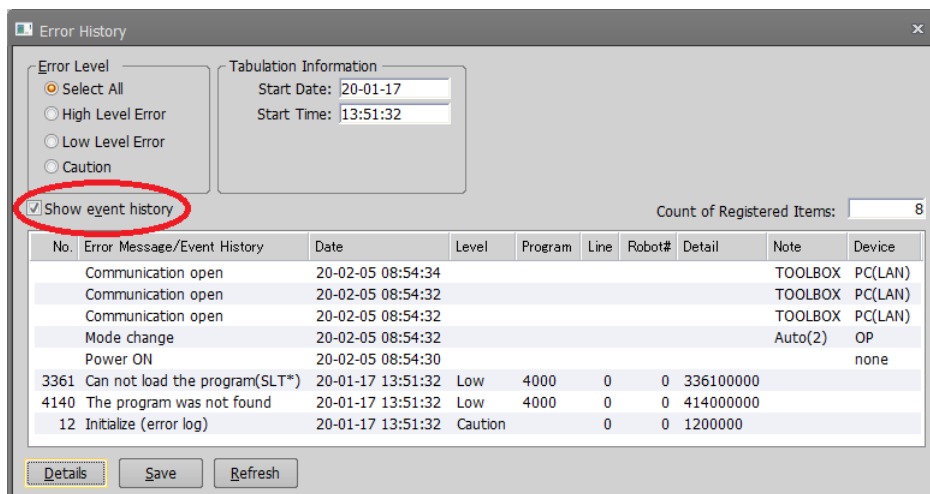
-Preset function is added on [Select the request data] of the Real time monitor in "Oscillograph".

The data required for the robot controller can be set freely by the user.
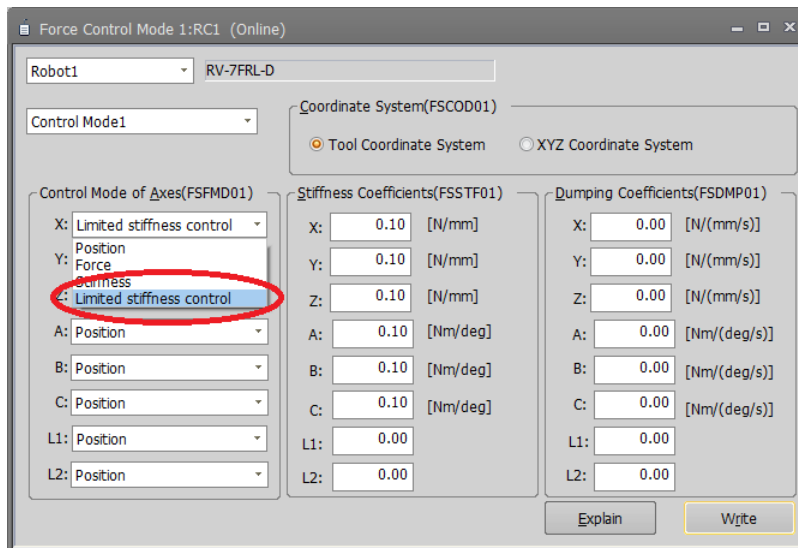

-The Errors and Events history is shown on the same screen in "Error History".

Recovery time can be reduced by displaying both information at the same time.
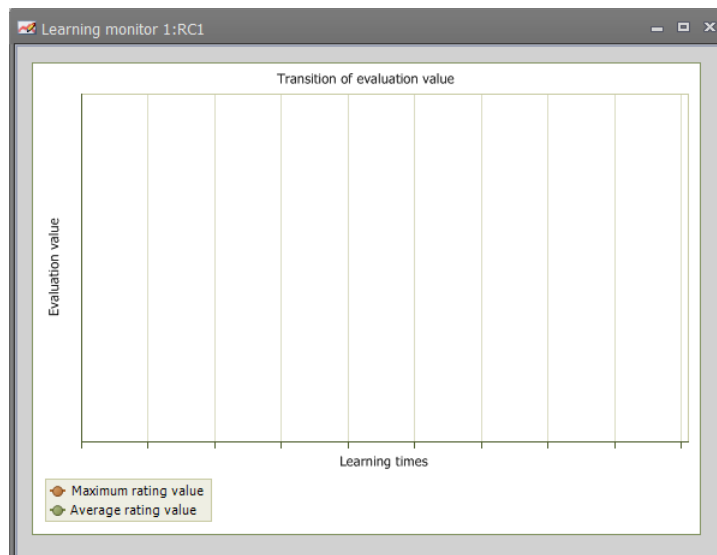
-[Limited stiffness control] is added on [Control Mode of Axes] in "Force Control Mode".

-"Learning monitor" of "Force extension" is also shown in the RH Horizontal type.

"Learning monitor" can be used when using Customized Learning of the Force sensor.

-[STOP2] and Warm-up Operation parameters are added in "Named Signal".

"Named Signal" screen is supported to [STOP2], [M1-3WUPENA] and [M1-3WUPMD] signals.
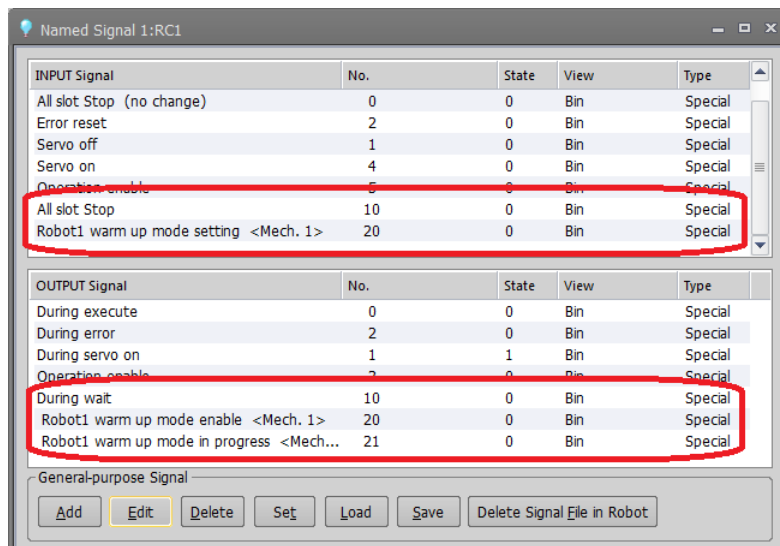
-The new type of CR800-Q robot CPU unit (Q172DSRCPU) can be upgraded.

When using "Robot Firmware Update" to Q172DSRCPU unit from now on, please use RT ToolBox3 of this version or later.

2.Specification change

-[via GOT(direct coupled) transparent mode] is added in "CRnQ_R Communication Detail Setting screen".