

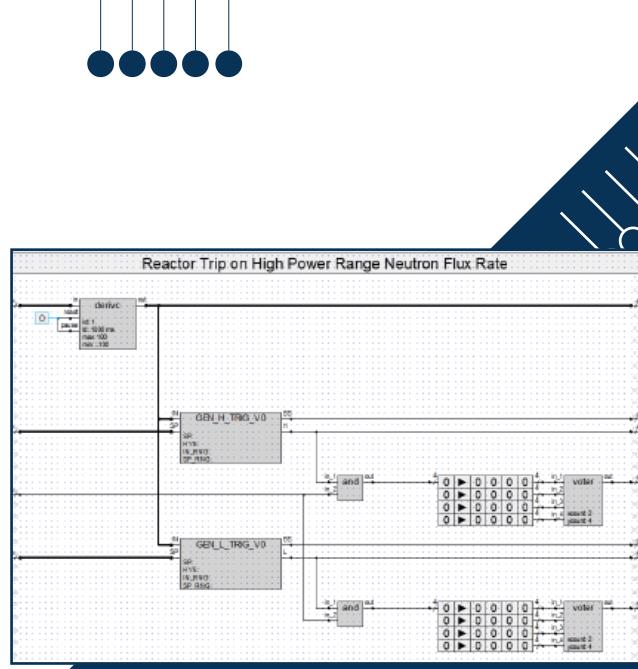
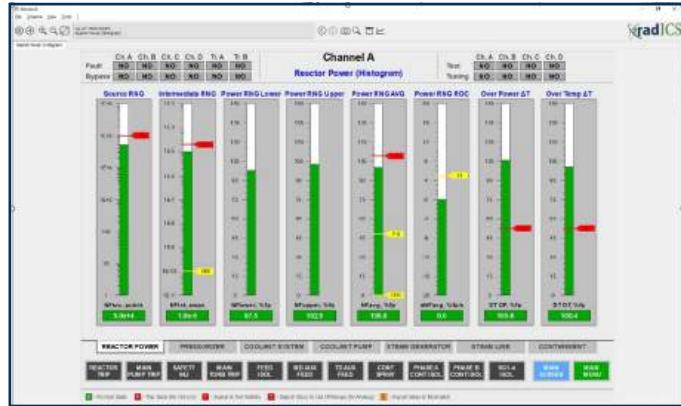
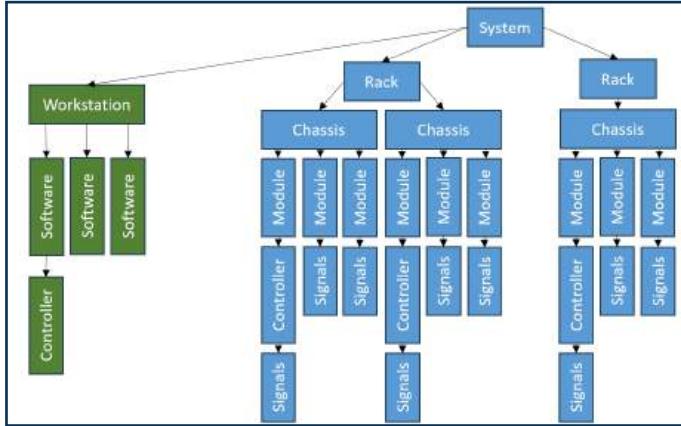


RADICS PLATFORM CONFIGURATION TOOL

INTEGRATED ENVIRONMENT TO DEVELOP PROJECTS FOR I&C SYSTEMS
BASED ON DIGITAL RADICS PLATFORM SOLUTIONS



**RPCT includes
Development, Online and
Offline Tools**



A comprehensive suite

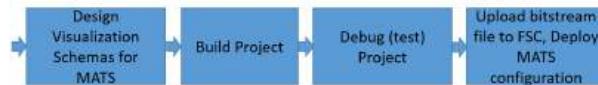
for RadICS-based I&C

Systems projects

- Development tools include editors, compiler and simulator.
- Online tools include services and client applications.
- Offline tools include verification and maintenance components.



**RPCT — Complete IDE for
Project Design**



u7 - nat_pips (Version 423) - Administrator

File Administration Project Tools 2

Projects Equipment Application Schemas Build Simulator Test

Filter All signals by Any complies Apply Reset

CustomAppSignalID	Caption	Type	Unit	ValidRd	ValidWr	LowADC	HighADC
1_S_PHT_SE_0008_B_A	DIV A PSP B SPEED	Analog	%	-5.00	105.00	20	100
1_S_PHT_SE_0008_B_A_VALID	DIV A PSP B SPEED VALID	Discrete					
1_S_PHT_SE_0008_B_B	DIV B PSP B SPEED	Analog	%	-5.00	105.00	20	100
1_S_PHT_SE_0008_B_B_VALID	DIV B PSP B SPEED VALID	Discrete					
1_S_PHT_SE_0008_B_C	DIV C PSP B SPEED	Analog	%	-5.00	105.00	20	100
1_S_PHT_SE_0008_B_C_VALID	DIV C PSP B SPEED VALID	Discrete					
1_S_PHT_SE_0008_B_D	DIV D PSP B SPEED	Analog	%	-5.00	105.00	20	100
1_S_PHT_SE_0008_B_D_VALID	DIV D PSP B SPEED VALID	Discrete					
1_S_PHT_TT_0008_A	DIV A PRIMARY SODIUM HOT POOL TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_A_VALID	DIV A PRIMARY SODIUM HOT POOL TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_B	DIV B PRIMARY SODIUM HOT POOL TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_B_VALID	DIV B PRIMARY SODIUM HOT POOL TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_C	DIV C PRIMARY SODIUM HOT POOL TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_C_VALID	DIV C PRIMARY SODIUM HOT POOL TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_D	DIV D PRIMARY SODIUM HOT POOL TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_D_VALID	DIV D PRIMARY SODIUM HOT POOL TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_A	DIV A PRIMARY SODIUM IHX OUTLET TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_A_VALID	DIV A PRIMARY SODIUM IHX OUTLET TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_B	DIV B PRIMARY SODIUM IHX OUTLET TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_B_VALID	DIV B PRIMARY SODIUM IHX OUTLET TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_C	DIV C PRIMARY SODIUM IHX OUTLET TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_C_VALID	DIV C PRIMARY SODIUM IHX OUTLET TEMPERATURE..	Discrete					
1_S_PHT_TT_0008_D	DIV D PRIMARY SODIUM IHX OUTLET TEMPERATURE	Analog	%	-5.00	105.00	20	100
1_S_PHT_TT_0008_D_VALID	DIV D PRIMARY SODIUM IHX OUTLET TEMPERATURE..	Discrete					
1_S_XIS_NFIT_0001_1A_A	DIV A XIS SOURCE RANGE FLUX RAW	Analog	%	-5.00	105.00	20	100
1_S_XIS_NFIT_0001_1A_A_VALID	DIV A XIS SOURCE RANGE FLUX RAW VALID	Discrete					

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u7 - nat_pips (Version 423) - Administrator

File Administration Project Tools 2

Projects Equipment Application Signals Schemas Build Simulator Tests

Switch to Configuration

Object	Type	EquipmentTemplate	Place	Star
> AIM	Module	\$PARENT_M001PLACE	-1	
> AIM-4PH	Module	\$PARENT_M001PLACE	-1	
> ACM	Module	\$PARENT_M001PLACE	-1	
> ACM-4PH	Module	\$PARENT_M001PLACE	-1	
> AdBridge	Software	\$PARENT_LADSBRIDGE	-1	
> Application Data Service	Software	\$PARENT_LADS	-1	
> Archive Service	Software	\$PARENT_LARCHS	-1	
> Configuration Service	Software	\$PARENT_CFGS	-1	
> DIM	Module	\$PARENT_M001PLACE	-1	
> DOM	Module	\$PARENT_M001PLACE	-1	
> Diagnostics Data Service	Software	\$PARENT_DDS	-1	
> FSC Chassis	Chassis	\$PARENT_FSCC0PLACE	-1	
> Gateway Service	Software	\$PARENT_GWS	-1	
> LMI-SF40-4PH	Module	\$PARENT_M000	0	
> LMI-SR03	Module	\$PARENT_M000	0	
> LMI-SR04	Module	\$PARENT_M000	0	
> LMI-SR05	Module	\$PARENT_M000	0	
> LMI-SR20	Module	\$PARENT_M000	0	
> LMI-SR90	Module	\$PARENT_M000	0	
> Metromax	Software	\$PARENT_METROMAX	-1	
> Monitor	Software	\$PARENT_MONITOR	-1	
> OCM	Module	\$PARENT_M001PLACE	-1	
> OCMN	Module	\$PARENT_M001PLACE	-1	
> RM-4PH	Module	\$PARENT_M001PLACE	-1	

Tree view Table view

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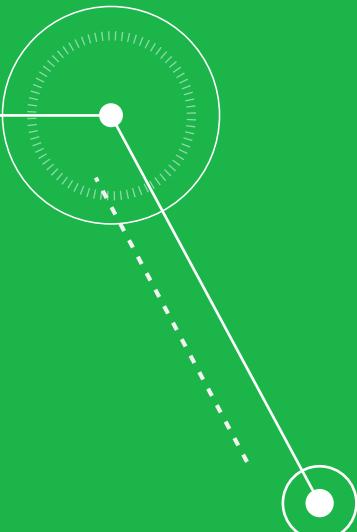
Function Cause Indication

REACTOR TRIP1	MAIN PUMP TRIP	RESERVE	SAFETY INJ	MAIN TURB TRIP	FEED ISOL	MD AUX FEED	TD AUX FEED
REACTOR TRIP2	CONT SPRAY	PHASE A CONT ISOL	PHASE B CONT ISOL	SG 1 ISOL	SG 2 ISOL	SG 3 ISOL	SG 4 ISOL

CHANNEL A CHANNEL B CHANNEL C CHANNEL D

Provides tools for a full I&C project development workflow

- Configuring the equipment.
- Describing the Application Logic.
- Designing the HMI.
- Compiling the project.
- Simulation and Testing.

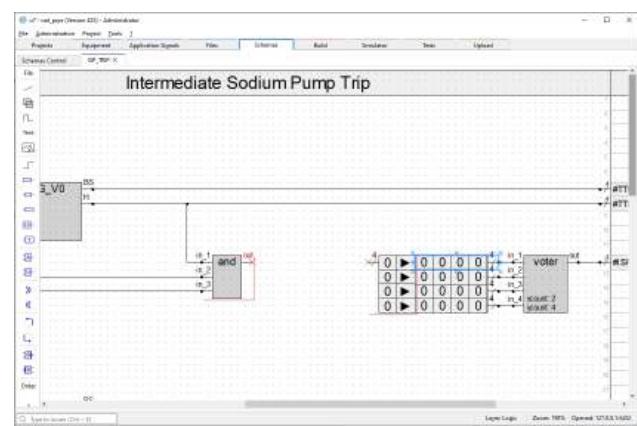
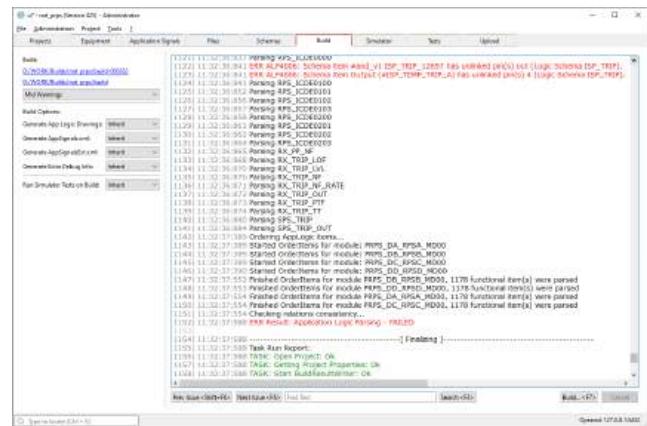




**Built-in Qualified
Application Logic Compiler**

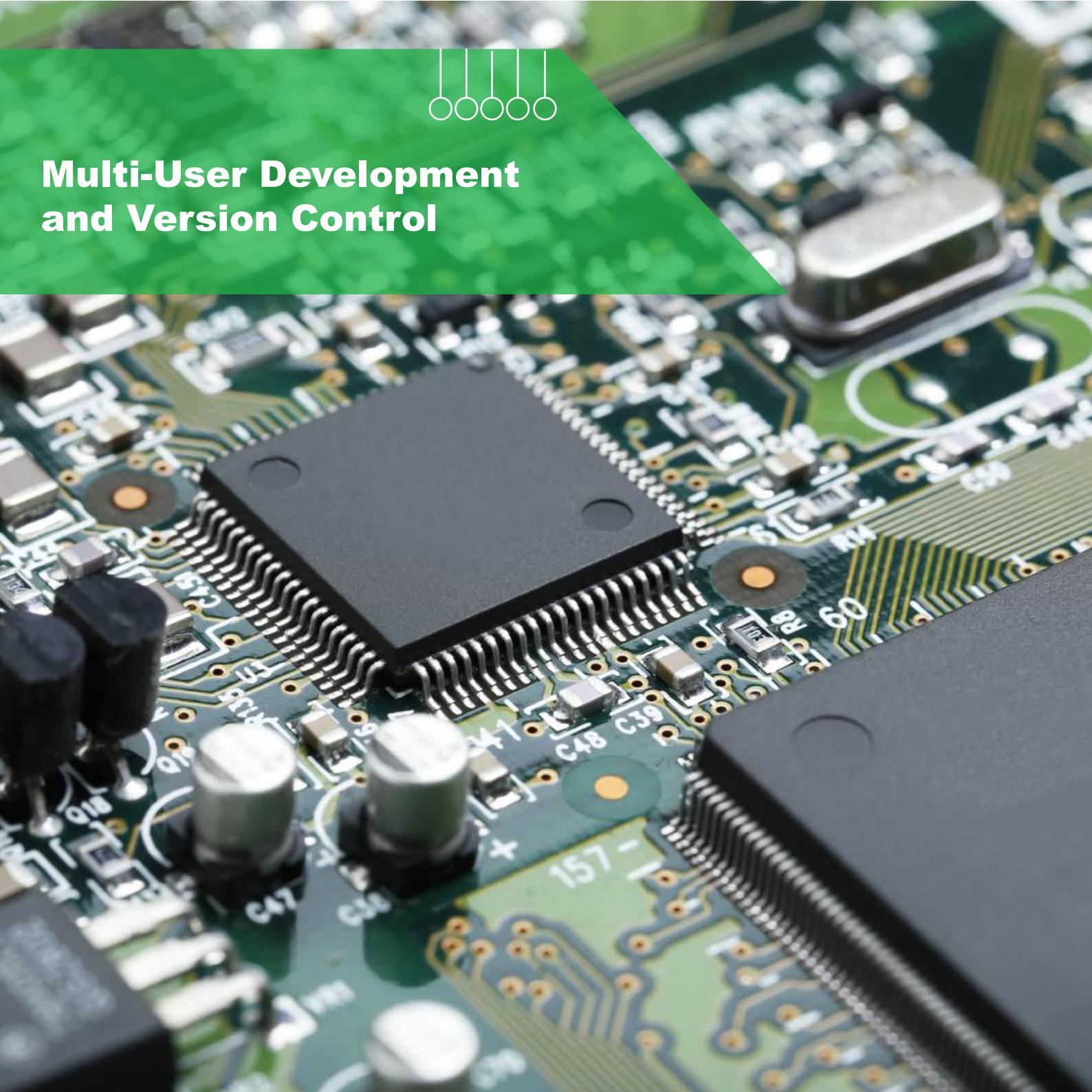
RPCT includes a qualified compiler that:

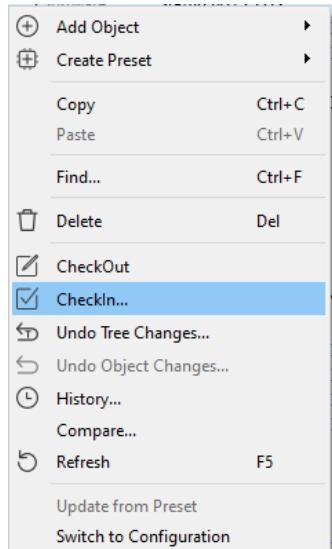
- Checks the validity of all parts of the project.
- Displays error and warning messages.
- Highlights errors on Application Logic schemas.
- Provides extended description of errors and warnings.



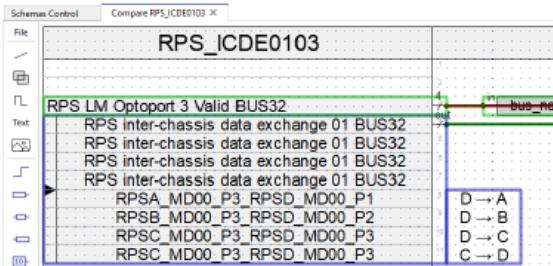


Multi-User Development and Version Control





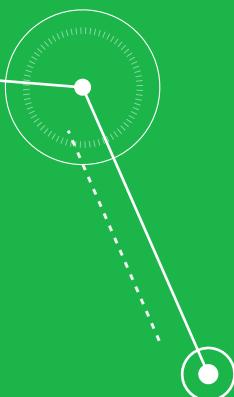
History - net_pps				
Changeset	User	Date	Comment	
1601	Pochtar	01 Apr 2024 14:24:28	Added navigation for discrete outputs.	
1600	Pochtar	01 Apr 2024 14:24:08	Added schemes.	
1599	Pochtar	01 Apr 2024 14:23:56	Added folder with discrete outputs signals.	
1598	trypolskiy	29 Mar 2024 12:53:07	added Filter Tab All Signals and Grup Signals by Division	
1597	trypolskiy	29 Mar 2024 12:51:57	Added RT Protection: 1. Power-to-Flow Ratio; 2. Loss of Flow	
1596	trypolskiy	29 Mar 2024 12:51:43	Added RT Protection: 1. Power-to-Flow Ratio; 2. Loss of Flow	
1595	Pochtar	28 Mar 2024 16:57:33	Added navigation buttons.	
1594	Pochtar	28 Mar 2024 16:57:07	Scripts->GlobalScript.	
1593	trypolskiy	28 Mar 2024 14:39:28	Added SPS Isolation Trip Logic	
1592	trypolskiy	28 Mar 2024 14:39:17	Added SPS Isolation Trip Logic	
1591	Pochtar	28 Mar 2024 12:45:37	Scripts->GlobalScript.	
1590	trypolskiy	27 Mar 2024 17:03:19	added new algorithms added logic: 1. RT on High PPS Level; 2. RT on High PPS Temperature; 3. ESF ISP Trip; 4. ESF PSP Trip.	
1589	trypolskiy	27 Mar 2024 16:37:37	added logic: 1. RT on High PPS Level; 2. RT on High PPS Temperature; 3. ESF ISP Trip; 4. ESF PSP Trip.	
1588	trypolskiy	27 Mar 2024 16:37:13		



Administrator	Username	bv
bv	ID	5
Pochtar	First Name	Borys
test	Last Name	Vin
trypolskiy	Old Password	
voitiuk	New Password	
	Password Confirmation	
<input type="checkbox"/> Administrator		
<input type="checkbox"/> Disabled		

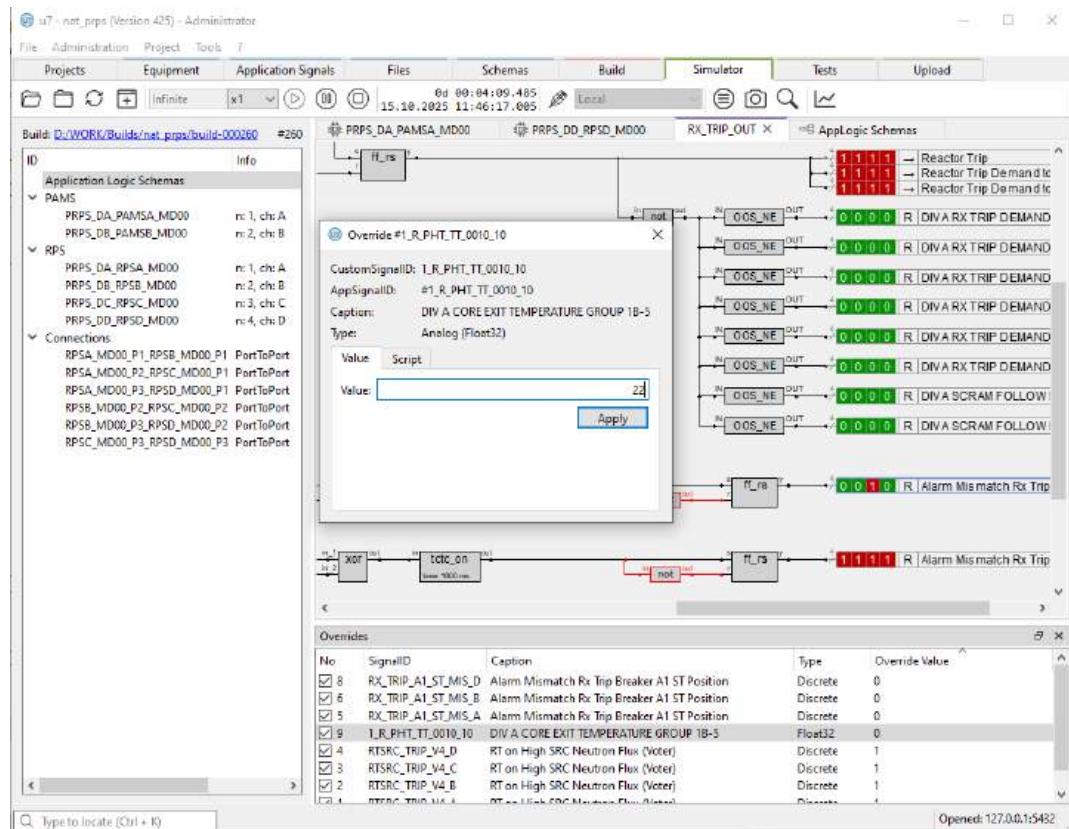
RPCT supports collaborative development with built-in version control

- Multiple users can access a project database using the network.
- Each user has unique credentials.
- Version control is provided for all components of the project.
- View the history of project changes.
- Compare changesets and generate a project differences report.





Simulation and Testing



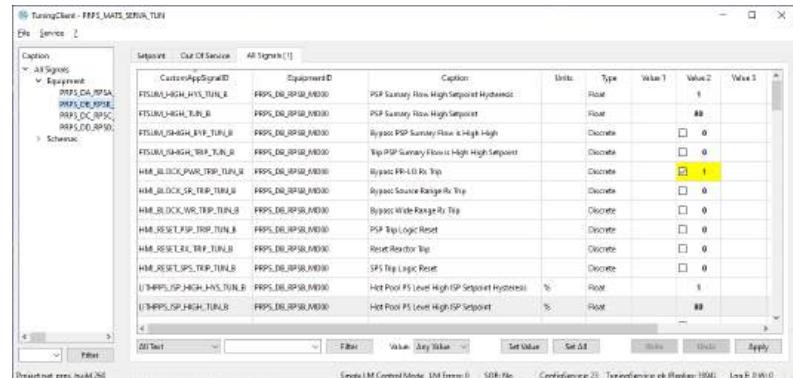
Run and verify the I&C Project using the Simulator

- Provides software-based simulation of logic modules' commands.
- Execute and debug the Application Logic without the hardware.
- Set values of desired signals using overrides.
- Test HMI schemas and controls.





Monitoring and Tuning Subsystem (MATS)



MATS - a set of Online and Offline tools.

- Services acquire and archive technological parameters.
- Monitor displays schemas, trends and reports.
- TuningClient modifies values of tunable parameters.
- Includes verification and maintenance tools.
- Operates on Linux and Windows platforms.



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WHERE SAFETY IS FOCUS