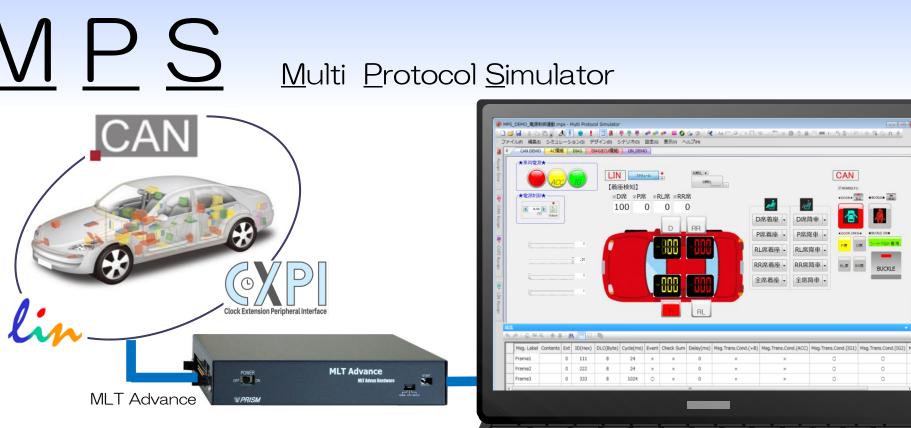
Multi function simulator for Multi LAN Tester





- Support for CAN FD CAN / LIN / CXPI communication (Customizable for other communication)
- Working cooperation with Navigator, and the simulation is possible while performing communication logging.
- Support for the stand-alone operation also.
- Define the BitAssign data and control by the data unit.
- Communication that requires time accuracy (periodic transmission) instructs to MLT Hardware.
- Displaying the value of data which wants to monitor in real time.

Development environment

The list price is the price when purchased in Japan. Please contact us if you are purchasing from overseas. 2





Easy to use GUI (ActiveX control)

- Prepare many controls of Button, LED, Data Counter, Switch, Digital control and so on.
- Operation and display in conjunction with the bit assign data is possible.

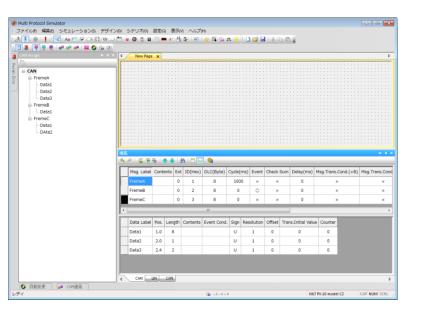
Label Image	- Free input		Toggle Button	Tx/Rx	Toggle	Check Box	Tx/Rx	Check box
Combo Box	Tx/Rx	datai 🗸	List Box	Tx/Rx	data1 data2 data3	Text	Tx/Rx	0
Button	Тх	Button	Group Box	_	GroupBox	3-point Switch	Тx	3,5Switch
Meter	Rx	20 50 60 20 80 10 90 Reter 100	Switch	Tx/Rx		LED	Rx	Round Square
Multi Switch	Tx	Multi Switch A C B D	Port Input Monitoring	Rx	HI count 0 LO count 0 (START)	Trigger Output Setup	Tx	Latch Trigger
Data Counter	Rx		Digital	Rx		Combo Slider	Tx/Rx	Combo Slider
Special Function	Tx	Lin	Pattern	Тх	Pattern 🗸	Operation of stabilized Power Supply	Тx	5.00 [V] Output
Scenario Operation	Тх	Scenario	Diagnostics (Response)	Rx	Diag - Reply	Diagnostics (Request)	Тx	Diag - Request

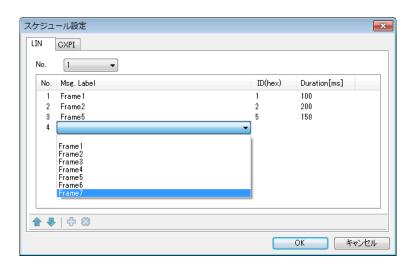


Creation of Simulation File

- Editing of Bit Assign Data
- Equipped with BitAssign data editing function.
- Saving only BitAssign data to file and reading.
- By associating frame names and data names, it is possible to construct a simulation environment that is easy to analyze.

	Frame information	Data information			
CAN	Msg.Label Frame type ID DLC Transmission cycle Support of event-driven transmission Support of check sum Delay Msg.Trans.Cond Specify the position of CheckSum	Data Label Bit position data length Sign resolution Offset counter Initial value of transmission			
LIN	Msg.Label ID Parity DLC Type of check sum Delay Msg.Trans.Cond	Data Label Bit position data length Sign Initial value of transmission			
CXPI	Msg.Label ID DLC Wakeup Sleep Counter Burst Event Retry Delay Msg.Trans.Cond	Data Label Bit position data length Sign Initial value of transmission			



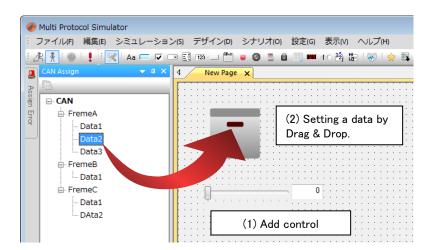


- Schedule Settings (LIN/CXPI)
- 20 types of schedule table can be set (valid in master mode).
- Msg.Label and ID refer to the frame information defined to BitAssign data.



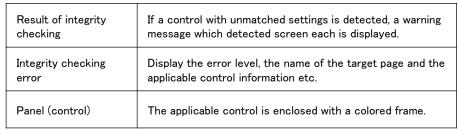
Creation of Simulation File

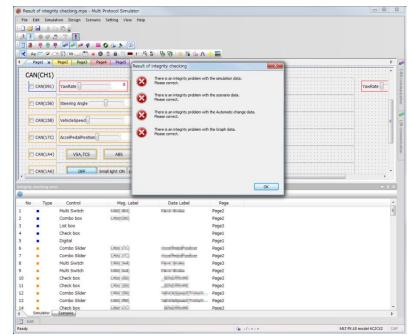
- Association of BitAssign Data
- Displaying frame names and data names of defined BitAssign in tree view.
- Easy setting which just dragging the data name to use and dropping it on the control you want to set.



Integrity Checking

- Perform integrity checking before simulation is performed.
- The execution timing are two ways when the integrity checking button is pressed down and when the simulation start button is pressed.
- Result of integrity checking display error contents and information on the corresponding control.

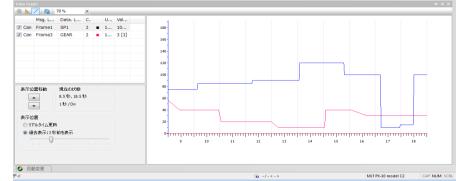






Transmit / reception data real time display function

- Graph display function (reception data only)
- Up to 10 set of received data can be displayed.
- The display setting is simple operation just by dragging and dropping from the BitAssign data screen to the graph display screen.
- Communication data display function by each protocol
- During communication, all transmitted and received data on the bus is displayed for each protocol.
- If data not set in the control is also registered in the BitAssign, the transmission / reception value is displayed.
- The maximum, minimum and average values of the transmission / reception interval of each frame are displayed
- Physical values and raw values considering "Resolution", "Offset", "Sign" of bit assign data are displayed.



6

≺Data Graph screen≻

1	CANIE											+ a ×
	Û											
۱I	ch Msg. Label	ID(hex)	Tx/Rx	Cycle(ms)	Time	Max(ms)	Min(ms)	Avg(ms)	Error Inf	fo		
1	- 2 Frame1	0B4 85.000000	R×	24 2134]	64.12929	1060.754	23.122	25.258				
	- 1 Frane1	0B4 85,000000	×T	24 2134]	64.12929	1060.754	28.122	25.258				
	- 2 Frane2	104	R× r	24 0]	64.13029	1060.666	23.326	25.258				
	- ⊡ 1 Frane2	1C4	T×	24 0]	64.13029	1060.666	23.326	25.258				
	+ 2 Frame3	3BC 3BC	R× T×	1024	63.71434 63.71434	1429.343	42.496	737.248				
	- EP	0	ŗ	0]	00.71404	1420.040	42.400	707.240				
		0	,	01								
	EB FEIGEAR	0	ţ	0]								
	ECOMI	0	L L	4] 0]								
ิป	EISPTHI	611	R× L	0]	63.54737	1812.883	999,143	1039,425				
d	000 +1 Frame4	611	[Tr	0]	63.54737	1812.883	999.143	1039,425			 	
	Hered I Frankey		Τx	1000	60.04/0/	1012.000	333.140	1055.425			 	
	CAN通信 CAN通信	K CXPI通信										
	 自動変更 ディ 								(a	4 / ∞ ≺Scenario4>	MLT PX-10 model C2	CAP NUM SCRL
2	r4								(0	4 / 00 < scenario4>	MLT PX-10 model C2	OAP NOM SCRU

<Communication data display screen>

- Communication log data recording function (CAN)
- Displaying transmission / reception data which specified channel and frame ID.
- File saving in the CSV format is possible.

11	Û					
Tx/	/R×	Tine	ID(Hex)	Length	Data	
Tx		3.206584	222	8	00 00 00 00 00 00 00 00	
Tx		3.206267	111	8	00 00 00 00 00 00 00 00	
Tx		3.182589	222	8	00 00 00 00 00 00 00 00	
Tx		3.182273	111	8	00 00 00 00 00 00 00 00	
Tx		3.158581	222	8	00 00 00 00 00 00 00 00	
Tx		3.158265	111	8	00 00 00 00 00 00 00 00	
Τx		3.134587	222	8	00 00 00 00 00 00 00 00	
Tx		3.134268	111	8	00 00 00 00 00 00 00 00	
Rx		3.111270	333	8	00 00 00 00 00 00 00 00	
Tx		3.110584	222	8	00 00 00 00 00 00 00 00	
Tx		3.110268	111	8	00 00 00 00 00 00 00 00	
Τx		3.086588	222	8	00 00 00 00 00 00 00 00	
Tx		3.086269	111	8	00 00 00 00 00 00 00 00	
Τx		3.062583	222	8	00 00 00 00 00 00 00 00	
Tx		3.062265	111	8	00 00 00 00 00 00 00 00	
Τx		3.038579	222	8	00 00 00 00 00 00 00 00	
Tx		3.038258	111	8	00 00 00 00 00 00 00 00	
Τx		3.014578	222	8	00 00 00 00 00 00 00 00	
Tx		3.014260	111	8	00 00 00 00 00 00 00 00	
Τx		2.990592	222	8	00 00 00 00 00 00 00 00	
Tx		2.990272	111	8	00 00 00 00 00 00 00 00	
Т×		2.990272	111	8 18 19 シナリオ		



<Communication log screen>

Gateway function

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- Automatic change function (CAN/LIN/CXPI)
- Automatically change the transmission value of the control when a specific value is received.
 - It is possible to change the transmission value of more than one control for one reception condition.
 - It is also possible to change the transmission value by calculation.

■ Response transmission function (CAN/LIN)

- Automatically send a specified frame every time a specified data or a frame of a specified pattern are received.
- Since processing is executed by hardware, it can respond within 1ms.

	Automatic change	Response transmission		
Processing method	Software	Hardware		
Transmission of the fixed value	possible	possible		
Transmission of the calculation value	possible	impossible		
Maximum number of settings	none *1	50 cases(CAN) / 100 cases(LIN)		
Updating the control display	updated	Not update		
Setting contents	Rx : reception frame / reception data / received value Tx : transmission control	Rx : response condition Tx : transmission frame		
Setting targets	one to many	one to one		
The control settings on page	required *2	possible even without the control		

*1 Depends on PC performance.

*2 It is necessary to set the control name in a target control.



Automatic inspection function

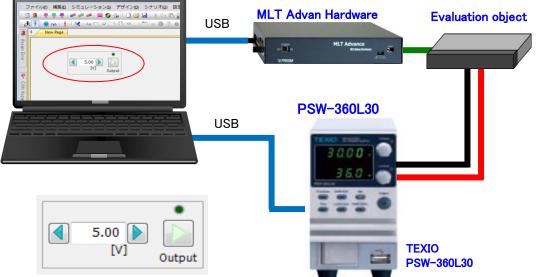
Scenario function

- This function enables to memorize manual operations in order and replay them.
- Number of executions: 1 to 65535 times or unlimited setting are possible.
- By combining multiple scenario data, complicated inspection patterns can be easily created.
- High quality inspection is realized without depending on operator skills.



Operation of Stabilization Power Supply

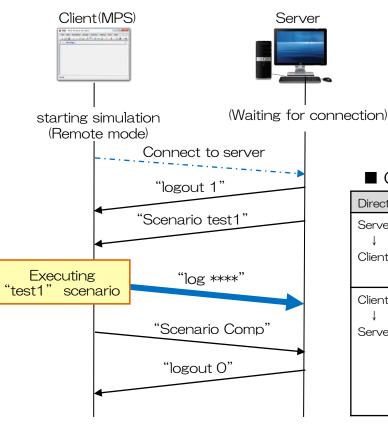
- Support voltage value control of DC stabilized power supply.
 Applicable model : TEXIO PSW-360L30
- A output voltage value, a constant current (CC) and a voltage changing step value can be set.
- By using it with the scenario function, it is possible to automate inspection including the power supply fluctuation.





Automatic inspection function

- Remote control function
- Connect MPS and the server application via TCP/IP, and execute the specified scenario from the server application.
- Automatic inspection can be realized by acquiring ٠ communication log data.



Direction

Server

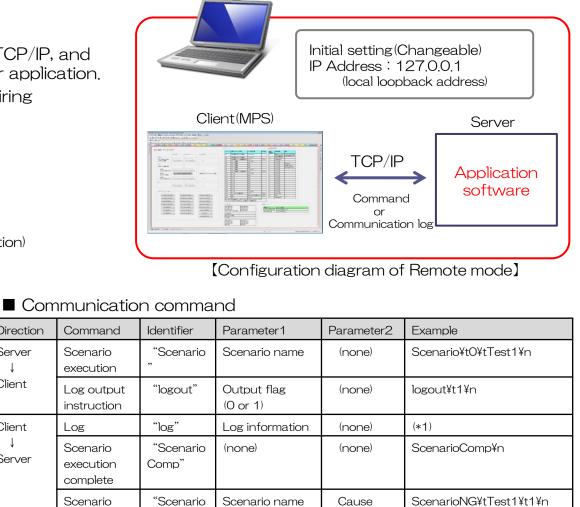
Client

Client

Server

[Example of control flow]

PRISN



(1 or 2)

* Customer should prepare the server application. Please contact us when you can not prepare,

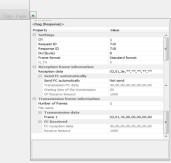
NG"

execution failure

Enhanced functions

- Diagnostics request / response function
- Support both single-frame and multi-frame, and the transmission data can be set not only on the control but also in an external files (text format and binary format).
- By using it with the scenario function, it is possible to automate inspection including diagnosis.



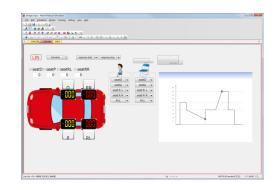


<Request Settings screen>

<Response Settings screen >

Using images

- Inserting images, tables and descriptions can be easily added.
- Supported format are PNG / BMP / JPEG / GIF.
- By adding figures, descriptions, tables, etc., it is possible to summarize operating procedures, commentary, etc. on the MPS page.



Product customization is possible. Please inquire in detail.

