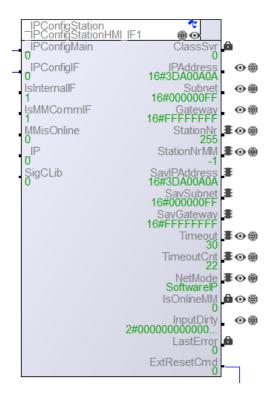


_IPConfigStation



This class represents one interface of a station. It communicates with the main class via the according object channel and with the class for the real interface handling via the according command channel.

The class is used in the AddOn "IP-Configuration".

It handles the station and interface specific functions and procedures - find more information in the programming manual of the AddOn.

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Interfaces

Servers

ClassSvr	Class server
IPAddress	set IP address, can be changed
Subnet	set subnet mask, can be changed
Gateway	set gateway address, can be changed
StationNr	station number (LSE, determined from the ipc.ini)
StationNrMM	MultiMaster station number (0 to x) -1 = no MultiMaster station number The value can only be determined for external interfaces, which at the same time are MultiMaster interfaces.
SavIPAddress	saved and active IP address
SavSubnet	saved and active subnet mask
SavGateway	saved and active gateway address
Timeout	Pre-selection for timeout monitoring [s]. Internal minimum value is 10 seconds.
TimeoutCnt	current value of the timeout counter [s]
NetMode	current network mode of this station undef not yet defined InitDeviceIP Initialization running (query for the current OS settings) DeviceIP interface works with settings from autoexec or OS SoftwareIP interface works with manually entered settings
IsOnlineMM	current MultiMaster network status The status can only be determined for external interfaces, which at the same time are MultiMaster interfaces. 0 = the MultiMaster interface is not connected 1 = the MultiMaster interface is connected
InputDirty	Input dirty bit mask - shows which values was changed Bit 0: IP address Bit 1: Subnet Bit 2: Gateway
LastError	last occurred error (interesting for software development)
ExtResetCmd	If this server is written with 1, the NetMode is switched to "DeviceIP" (is needed for a reset via USB stick)

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Clients

_IPConfigMain	Object channel to the main class
_IPConfigIF	Object channel to the interface class
IsInternalIF	Placing of the interface 0 = interface is an external device (e.g. of a MC station) 1 = interface is an internal device (e.g. a HMI device)
IsMMCommIF	Usage of the interface 0 = interface is used for a local network (e.g. house network) 1 = interface is used for MultiMaster communication (PLC)
MMisOnline	Return message "MultiMaster Is Online" This connection is used in case of an "external" and "not MultiMaster" interface (IsInternalIF = 0 und IsMMCommIF = 0). In this case the client must be connected to the server "IsOnlineMM" of the station object, which is responsible for the MultiMaster interface of this external PLC.
_IP	Object channel to the system interface _IP (created automatically)
SigClib	Object channel to the system interface SigCLib (created automatically)

Global Methods

Init	Initialization of the class
Background	for cyclic tasks
GetSavedSettings	Returns the current station settings (IPs of the saved variables)
	IN: plsInternalIF pointer to the return value for "IsInternalIF" IN: plsMMCommIF pointer to the return value for "IsMMCommIF" IN: pIP pointer to the return value for the IP address IN: pSubnet pointer to the return value for the subnet address IN: pGateway pointer to the return value for the gateway address IN: pStationNr pointer to the return value for the station number IN: pStationNrMM pointer to the return value for the MultiMaster station number IN: pNetMode pointer to the return value for the NetMode OUT: retval0 = OK / -1 = Error

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GetIOSettings	Returns the current station settings (IPs of the I/O variables)
	IN: plsInternalIF pointer to the return value for "IsInternalIF" IN: plsMMCommIF pointer to the return value for "IsMMCommIF" IN: pIP pointer to the return value for the IP address IN: pSubnet pointer to the return value for the subnet address IN: pGateway pointer to the return value for the gateway address IN: pStationNr pointer to the return value for the station number IN: pStationNrMM pointer to the return value for the MultiMaster station number IN: pNetMode pointer to the return value for the NetMode OUT: retval 0 = OK / -1 = Error
SetStationNr	sets the server "StationNr" to the given input value
	IN: StationNumber new station number
SetStationNrMM	sets the server "StationNrMM" (MultiMaster) to the given input value
	IN: StationNumberMM new MultiMaster station number
CmdInitIF	starts the internal procedure to initialize the interface settings.
	IN: HmsDelay time delay [100 ms] to start the procedure
CmdInitMM	starts the internal procedure to initialize the MultiMaster settings.
	IN: HmsDelay time delay [100 ms] to start the procedure
CmdApplySettingsIF	starts the internal procedure to apply the IO settings of the interface
	IN: HmsDelay time delay [100 ms] to start the procedure
CmdApplySet- tingsMM	starts the internal procedure to apply the IO settings of the MultiMaster
	IN: HmsDelay time delay [100 ms] to start the procedure
CmdApplyOK	starts the internal procedure to write the OK command to the interface
	IN: HmsDelay time delay [100 ms] to start the procedure
GetInitStatusIF	returns the current status of the internal procedure to initialize the interface settings
	OUT: retval 0 = BUSY / 1 = OK, ready / -1 = NOT OK, error
GetInitStatusMM	returns the current status of the internal procedure to initialize the MultiMaster settings.
	OUT: retval 0 = BUSY / 1 = OK, ready / -1 = NOT OK, error
GetApplyStatus	returns the current status of the internal procedure to apply the IO settings for the interface
	OUT: retval 0 = BUSY / 1 = OK, ready / -1 = NOT OK, error

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CmdRe- storeSavedAddr	starts the internal procedure to reset the station to the saved addresses, this includes the setting of the addresses via ConfigIF
SavelOSettings	Saves the current settings (IPs of the I/O variables) to the saved variables.
SetNetMode	sets the NetMode (see server with same name)
	IN: newNetMode new NetMode

Defines



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