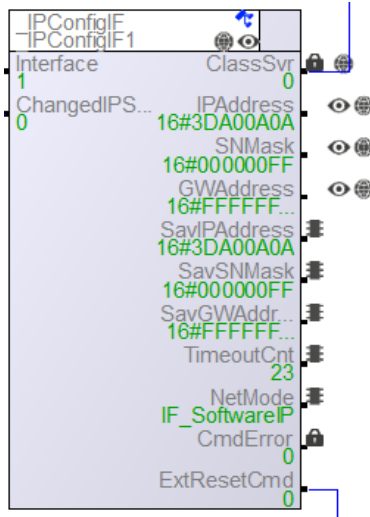


_IPConfigIF



This class serves for the real handling of the interface settings. It is derived from the class "NetworkConfig" and can load IP settings from the file autoexec.lsl or from the operating system resp. save them there.

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

Interfaces

Servers

ClassSvr	Class server, serves as command channel for NewInst commands.
IPAddress	set IP address is the read address in GET commands and the address to set in SET commands
SNMask	set subnet mask is the read address in GET commands and the address to set in SET commands
GWAddress	set gateway address is the read address in GET commands and the address to set in SET commands
SavIPAddress	saved IP address (for timeout monitoring)
SavSubnet	saved subnet mask (for timeout monitoring)

SavGateway	saved gateway address (for timeout monitoring)
TimeoutCnt	current value of the timeout counter [s] The timeout monitoring is active, as soon as the NewInst command 11, 12 or 13 is received. The monitoring is reset with the NewInst command 99 - if the timeout runs out earlier, the interface is reset to its old values.
NetMode	current network mode of this interface IF_undef ... not yet defined IF_InitDeviceIP ... initialization running (initial request for the current settings) IF_DeviceIP ... interface works with settings from autoexec or OS IF_SoftwareIP ... interface works with manually entered settings
CmdError	error code in case of an error during processing a set resp. reset command 0 = IPAPI_ERR_NONE ... no error -1 = IPAPI_ERR_OSI_FNC ... operating system to old, function not available -1000 = IPAPI_ERR_NULL ... invalid pointer (NIL pointer) -1001 = IPAPI_ERR_IFACE ... IP interface not available -1002 = IPAPI_ERR_IFACE_FNC ... IP interface function not available -1002 = IPAPI_ERR_ETHER_IFACE ... Ethernet interface not available -1004 = IPAPI_ERR_NETWORK ... network configuration invalid (same logical network in second Ethernet interface) -1005 = IPAPI_ERR_ADDRESS ... error during setting/changing the IP address -1006 = IPAPI_ERR_GATEWAY ... error during setting/changing the gateway -1007 = IPAPI_ERR_PARAM ... error invalid parameter -1008 = IPAPI_ERR_OPTION ... error invalid option -1009 = IPAPI_ERR_IP_NOT_READY ... error, Ethernet interface available but not ready (no IP address set)
ExtResetCmd	If this server is written with 1, the NetMode is switched to "IF_DeviceIP" (is needed for a reset via USB stick)

Clients

Interface	Serves for defining the interface number (inherited from the NetworkConfig) The numbers 0 and 1 both mean interface 1.
ChangedIPSettings	This client forwards the new IP configurations to the connected server via a NewInst command when changing the IP via the visualization: uiCmd = 1 aPara[0] = IP address aPara[1] = subnet mask aPara[2] = gateway (the original data type of this parameter is HDINT and was casted in DINT!)

NewInst methods

Command 1 Command 2	<p>"Get Interface Config from autoexec"</p> <p>"Get Interface Config from OS"</p> <p>Input: none</p> <p>Return:</p> <p>pResult^.aData[0] ... IP address (UDINT)</p> <p>pResult^.aData[4] ... subnet mask (UDINT)</p> <p>pResult^.aData[8] ... gateway address (UDINT)</p> <p>presult^.uiLng ... return length</p>
Command 11 Command 12 Command 13	<p>"Set Interface Config to autoexec"</p> <p>"Set Interface Config to OS"</p> <p>"Set Interface Config to autoexec and OS"</p> <p>Input:</p> <p>pPara^.aPara[0] ... IP address (UDINT)</p> <p>pPara^.aPara[1] ... subnet mask (UDINT)</p> <p>pPara^.aPara[2] ... gateway address (UDINT)</p> <p>pPara^.aPara[3] ... time delay [100 ms] for the command (UDINT)</p> <p>pPara^.aPara[4] ... timeout (UDINT)</p> <p>Return:</p> <p>pResult^.aData[0] ... return value (DINT, 0 = OK, -x = Error)</p>
Command 21 Command 22 Command 23	<p>"Reset Interface Config to autoexec without timeout monitoring"</p> <p>"Reset Interface Config to OS without timeout monitoring"</p> <p>"Reset Interface Config to autoexec and OS without timeout monitoring"</p> <p>Input:</p> <p>pPara^.aPara[0] ... IP address (UDINT)</p> <p>pPara^.aPara[1] ... subnet mask (UDINT)</p> <p>pPara^.aPara[2] ... gateway address (UDINT)</p> <p>pPara^.aPara[3] ... time delay [100 ms] for the command (UDINT)</p> <p>Return:</p> <p>pResult^.aData[0] ... return value (DINT, 0 = OK, -x = Error)</p>
Command 99	<p>"send OK info to IF-object"</p> <p>Input: none</p> <p>Return: none</p>

