Partner: Crestron
Model: CI-KNX
Device Type: (Logic)

GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"Crestron CI-KNX IO v1.6.umc"
CATEGORY:	System control
VERSION:	V1.6
SUMMARY:	This macro takes care of the communication between the CI-KNX and the Crestron CI-KNX data macro's.
GENERAL NOTES:	This macro takes care of the communication between the CI-KNX and the Crestron CI-KNX data macro's. This macro will be connected with all the KNX object macros. The IO macro will collect all the control commands of the KNX Object macro's and will send them out to the CI-KNX. The feedback that the macro receives from the CI-KNX will be filtered based on Object ID and will be send out to the KNX Object macros only. The IO macro offers functionality to poll all KNX Objects. **THIS SIGNAL Startup_Gateway SHOULD BE PULSED BEFORE THE CLIENTS START TO USE THE MODULE.**
CRESTRON HARDWARE REQUIRED:	2/3-Series processor with Ethernet card
SETUP OF CRESTRON HARDWARE:	The demo program was written for a PRO2/MC3. The CI-KNX is controlled over TCP/IP.
VENDOR FIRMWARE:	V1.0
VENDOR SETUP:	CI-KNX connected to the KNX bus
CABLE DIAGRAM:	Standard CAT5 cable

CONTROL:

Startup_Gateway	D	Pulse to start the CI-KNX. **THIS SIGNAL SHOULD BE PULSED BEFORE THE CLIENT STARTS TO USE THE MODULE.**
Show_Configuration	D	Pulse to output the stored KNX object configuration. The Message output will be used to output the configuration. The objectTypes structure contains an entry for all 250 KNX objects that can be configured in the CI-KNX.

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		The first outputted value contains the status of the object. 0 = not active, 1= active The second outputted value contains the size of the object in Bytes. If an object is defined as not active, than it can't be polled. The ActiveObjects structure contains the parameter configuration that was defined on the CI-KNX IO module. The first value indicates the parameter number. The second value contains the output number to which the feedback for this object will be routed.
Enalble_Set_Poll_From_Bus_Flag	D	When the Poll_All_Objects signal is triggered while the Enable_Set_Poll_From_Bus_Flag input is high, the CI-KNX is instructed to update its memory by retrieving all object values from the KNX bus. To update the Crestron program the Enable_Set_Poll_From_Bus_Flag needs to be set low and the Poll_All_Objects signal should be triggered again to execute a normal poll command. So the full procedure is : 1. Set Enable_Set_Poll_From_Bus_Flag to high 2. Trigger the Poll_All_Objects signal 3. Set Enable_Set_Poll_From_Bus_Flag to low 4. Tigger the Poll_All_Object signal to retrieve the values to the Crestron program. This procedure can also be used in combination with poll commands for single objects instead of the poll_all command. **This should only be used to build the CI-KNX memory when the KNX Settings were lost. For example: when a power cycle occurs on the KNX side.**
RX	S	To be connected with the RX signal of the used TCP/IP symbol.
Poll_All_Objects	D	Pulse to poll all the Object values. **The functionality of this input is changed when the input "Enalble_Set_Poll_From_Bus_Flag" is set high. For more information please read the Enalble_Set_Poll_From_Bus_Flag section.**
Poll_Object_x	D	Pulse to poll the status of object x. range x: 1-250. **The functionality of this input is changed when the input "Enalble_Set_Poll_From_Bus_Flag" is set high. For more information please read the Enalble_Set_Poll_From_Bus_Flag section.**
Command	S	Serial signal that has to be connected with the serial signal 'command' of every KNX Object module.

FEEDBACK:

Message	S	Serial output used to output the module configuration.
TX	S	To be connected with the TX signal of the used TCP/IP symbol.

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Feedback_x_Text	S	Serial signal that has to be connected with every feedback input of KNX Object modules that represent the same KNX Object as the one found in Object_ID_x. (x = 1 to 250)

PARAMETERS:

Reference Name	S	The name that will be used to indicate this IO module in the error log.
Send Commands Timeout	Sec	This parameter will define the timeout for sending commands. When the IO module doesn't receive any commands for the inputted amount of seconds, it will start processing the command queue.
Receive Commands Timeout	Dec	This parameter will define the timeout value for receiving commands. When the IO module doesn't receive a response from the KNX gateway within the inputted amount of seconds, a timeout event will occur.
Object_ID_x	DEC	A parameter I that represents a Object ID. All feedback that is intended for this Object ID will be routed via serial output Feedback_x_Text. (x = 1 to 250)

TESTING:

OPS USED FOR TESTING:	PRO2: V. 4.008.0008 MC3: V. 1.009.0029
SIMPL WINDOWS USED FOR TESTING:	V.4.02.48
CRESTRON DB USED FOR TESTING:	V. 46.00.004.00
DEVICE DB USED FOR TESTING:	V. 57.05.001.00
SAMPLE PROGRAM:	"Crestron CI-KNX v1.6 PRO2 Demo.smw" "Crestron CI-KNX v1.6 MC3 Demo.smw"
REVISION HISTORY:	V. 1.6

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