Manufacturer: Smart Monkeys
Model: ISAAC
Device Type: System Management

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Smart Monkeys ISAAC Command Processor v1.1
CATEGORY:	System Management
VERSION:	1.1
SUMMARY:	This module controls all TCP/IP communications with the device.
GENERAL NOTES:	This module is the core IP communication module for a suite of modules. The suite of modules utilizes the SIMPL# technology and will only work on the 3-Series and 4-Series Controllers. Up to 10 instances of this module can be used in a single program slot. The module has a parameter that allows you to choose one of the 10 instance IDs. Each instance ID can only be used once. The other modules in this suite are control modules. The control modules are responsible for providing the actual control interface in SIMPL. They register themselves automatically behind the scenes. Each of the control modules also have a command processor ID parameter that you assign to the instance of the command processor to which they report to. You can have a virtually unlimited number of control modules report to a single instance of a command processor. Once the processing module has determined that it is communicating with the device, it will initialize any individual control modules that are registered to it. Once a control module receives all the responses it is looking for, it will instruct the processing module that its initialization has been completed. The processing module will then request the next control modules initialization. Once all control modules are initialized that are registered with the processing module, the Is_Initialized output on the processing module will go high. At this point, you will have full control of all functionality on the registered control modules. ***Keep in mind the modules, during the initialization process, will get the current state of each of your control points, so you do not need to duplicate this effort. Also, you should wait for any and all processing modules to set "Is_Initialized" to high before attempting to control the device. This is your indication that the device programming is correct and ready to go***
CRESTRON HARDWARE REQUIRED:	3 & 4 Series Control Processors
VENDOR FIRMWARE:	Larissa (v1.5.1)

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CONTROL:

Connect	D	The processing module will attempt to connect to the device on the rising edge of this signal.
Disconnect	D	The processing module will disconnect from the device on the rising edge of this signal.
Debug	D	Set this input high to allow internal trace messages to be printed in SIMPL Debugger. This is useful for debugging the processes going on inside the compiled SIMPL# code.

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FEEDBACK:

Is_Communicating	D	Set to high when the processing module has successfully established communication with the device and is receiving appropriate responses.
Is_Initialized	D	Set to high when all registered control modules have successfully indicated that they have received the required responses to all their queries.

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PARAMETERS:

Command_Processor_ID	A	Setting to indicate the ID for a particular processing module. Up to 10 separate processing modules may be used in a single program, each one operating independently. Note that if multiple processing modules are to be used in a single program, they **must** each have different ID's set.
IPAddress	S	Setting to indicate the IP address of the device.
Module_ID	S	Setting to indicate the target Module_ID of the subsystem to be controlled in the ISAAC environment.
Module_Password	S	Setting to indicate the password of the target subsystem that corresponds with the Module_ID

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TESTING:

OPS USED FOR TESTING:	AV3 1.8001.0251
SIMPL WINDOWS USED FOR TESTING:	4.27
CRES DB USED FOR TESTING:	222.0500.001.00
DEVICE DATABASE:	200.32000.001.00
SYMBOL LIBRARY USED FOR TESTING:	1198
SAMPLE PROGRAM:	Smart Monkeys ISAAC v1.1 Demo
REVISION HISTORY:	v1.0 – Initial Release v1.1 - Fixed issue with Http response being chunked. Fixed time to be utc from ISAAC.

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