



# APPENDIX D

## ETHERNET/IP

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**In this Appendix...**

EtherNet/IP Switch Management.....	D-2
Implicit (I/O) Messaging .....	D-3
Explicit Messaging .....	D-6

## EtherNet/IP Switch Management

The **Stride** SE2 managed switch supports EtherNet/IP (Ethernet Industrial Protocol) in the following ways:

- Class 1 Implicit (I/O) Messaging Server/Adapter
- Class 3 Explicit Messaging Server/Adapter
- Unconnected Explicit Messaging Server/Adapter

The EtherNet/IP server is disabled by default in the Managed Switch.

The screenshot shows a web browser window titled "Stride SE2-SW16M Switch" with the URL "192.168.0.1/index.asp". The page features the Stride logo and an "Exit" button. On the left, a navigation menu lists various configuration options, including "Ethernet IP". The main content area, titled "Ethernet IP", contains a "Save" button, a "Help" button, and a radio button selection for "Ethernet IP" (selected), "EtherNet/IP Read/Write", and "EtherNet/IP Read only". Below the selection, a note states: "Note that Alarms are disabled by default. Enable any desired alarms on the Alarm page."



**NOTE:** The configuration must be saved (selection is available on left hand side at the bottom) or it will be lost upon the next power cycle.

## Implicit (I/O) Messaging

The **Stride** SE2 managed switch supports both Unicast and Multicast Implicit (I/O) Messaging. The required parameters are shown below:

Assembly Instance		
	Connection Points	Size
<b>Input</b>	101 (0x65)	156 bytes
<b>Output</b>	102 (0x66)	20 bytes
<b>Config</b>	0	0

The Configuration is not required in the path. If it is included, use 0 for the Attribute and 0 size.

The Run/Idle (4 byte) header is required and is not included in the Output size specified above.

Input Data is defined as the data that is ‘Produced’ by the **Stride** managed switch and is read (Consumed) by the EtherNet/IP Master/Scanner device.

Input Data			
Byte Offset Number	Size (in Bytes)	Name	Details
<b>Input Data</b>			
0	2	Port Status: Ports 1–8	2 bits per port Disabled = 00 Up = 01 Down = 10  For example, Port 1 is the most significant bit and Port 8 is the least significant bit.
2	2	Port Status: Ports 9–16	
4	2	Port Status: Ports 17–24	
6	2	Port Status: Ports 25–32	
8	2	Port Status: Ports 33–40	
10	2	Port Status: Ports 41–48	
12	2	Port Status: Ports 49–56	
14	2	Port Status: Ports 57–64	
16	1	Alarm Status of Port 1	Disabled = 0x00 Normal = 0x01 Alarm = 0x02
17	1	Alarm Status of Port 2	
18	1	Alarm Status of Port 3	
19–79	1	Alarm Status of Port 4–64	
80	1	AD-Ring Alarm Status Ring 1	
81	1	AD-RP Ring Alarm Status Ring 1	Disabled = 0x00 Normal = 0x01 Alarm = 0x02 None = 0x03
82-143	2	AD-Ring Alarm and AD-RP Ring Alarm Status for Rings 2-32	Same format as previous 2 bytes but for Rings 2-32
144	2	IP Address Conflict Alarm Status	Disabled = 0x00 Normal = 0x01 Alarm - 0x02
145	1	MAC Address Conflict Alarm	
146	1	Power Alarm Status	Disabled = 0x00 Normal = 0x01 Power 1 Alarm = 0x02 Power 2 Alarm = 0x03
147	9	Reserved	

Output Data is defined as the data that is ‘Produced’ or written from the EtherNet/IP Master/Scanner device and is received (Consumed) by the **Stride** managed switch.

Output Data			
Byte Offset Number	Size (in Bytes)	Name	Details
<b>Output Data</b>			
	4	Run/Idle Header	Bits 4-31: Reserved Bits 2-3: ROO (Ready for Ownership of Outputs) Bit 1: COO (Claim Output Ownership) Bit 0: Run/Idle (Run = 1, Idle = 0) This header is typically sent by the Operating System
0	2	Port Enable: Ports 1–8	2 bits per port: Enable = 01 Disable = 10 No change = 00 No change = 11
2	2	Port Enable: Ports 9–16	
4	2	Port Enable: Ports 17–24	
6	2	Port Enable: Ports 25–32	
8	2	Port Enable: Ports 33–40	
10	2	Port Enable: Ports 41–48	
12	2	Port Enable: Ports 49–56	
14	2	Port Enable: Ports 57–64	
16	2	Reserved	
18	2	Reserved	

## Explicit Messaging

Explicit messaging allows for much more information to be accessed in the managed switch but does require more configuration.

There are 2 different services that the managed switch supports:

Set Single Attribute Service	
Service	16 (0x10): Set Single Attribute
Class	4
Instance	104 (0x68)
Attribute	3
Size	22 bytes

Get Single Attribute Service	
Service	14 (0x0e): Get Single Attribute
Class	4
Instance	103 (0x67)
Attribute	3
Size	260 bytes

The first two bytes of the data sent in the “Set Single Attribute Service” determine the meaning of the remaining 20 bytes of the write block and also what type of data is sent in the response to the “Get Single Attribute Service”.

The first two bytes of the data sent in the “Set Single Attribute Service” can be either of the following:

- Byte 0 = 01 Byte 1 = 00: Determines that the rest of the sent data is the same format as the I/O Messaging Output data. The data sent in the response to the “Get Single Attribute Service” will be the same as the I/O Messaging Input data.
- Byte 0 = 00 Byte 1 = 00: Allows access to many other pieces of data in the managed switch. These bytes should be followed by pointer values explained in the table below.

Address Matrix								
	00	01	02	03	04	05	....>	N
<b>00</b>	Port Status and alarm (Same as I/O Messaging)	-	-	-	-	-	-	-
<b>01 (Device Info)</b>	-	Mfg Name	Device Type	Mfg Address	Contact Phone Number	Other Info	-	-
<b>02 (Port Info)</b>	-	Port 1	Port 2	Port 3	Port 4	Port 5	....>	Port N
<b>03 (AD-Ring Info)</b>	Ring Mode	Ring 1	Ring 2	Ring 3	Ring 4	Ring 5	....>	Ring N
<b>04 (AD-RP Ring Info)</b>	Ring Mode	Ring 1	Ring 2	Ring 3	Ring 4	Ring 5	....>	Ring N
<b>05 (RSTP Ring Info)</b>	Root Bridge Status	Ring 1	Ring 2	Ring 3	Ring 4	Ring 5	....>	Ring N

When Byte 0 = 00 and Byte 1 = 00, Byte 2 should be the value in the Row such as 01 for Device Info or 02 for Port Info and Byte 3 should be the value in the Column header to choose the specific piece of data from the Info type.

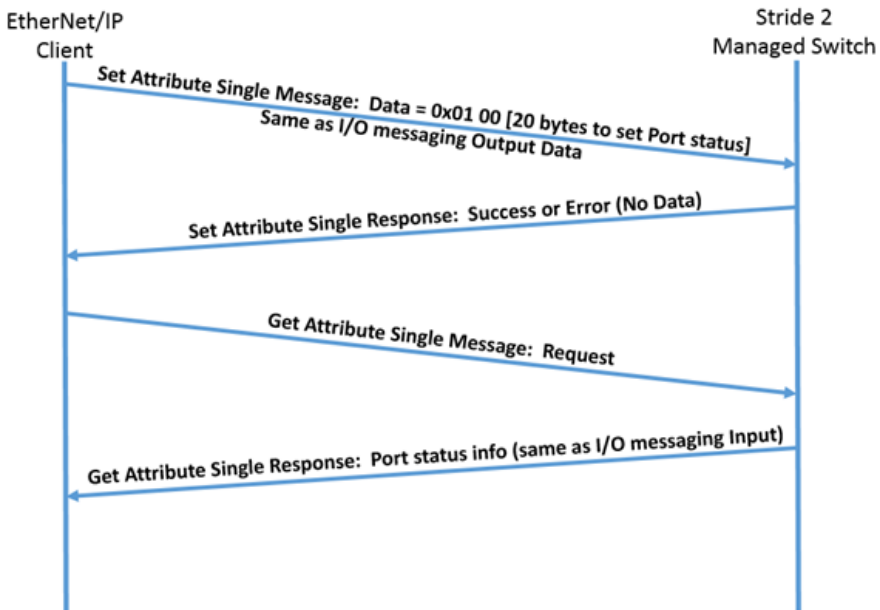
For example:

- To retrieve the Manufacturer Address, Bytes 0 – 3 should contain the following (in respective order) = 00 00 01 03
- To retrieve the Information for RSTP Ring 4, Bytes 0 – 3 should contain the following = 00 00 05 04



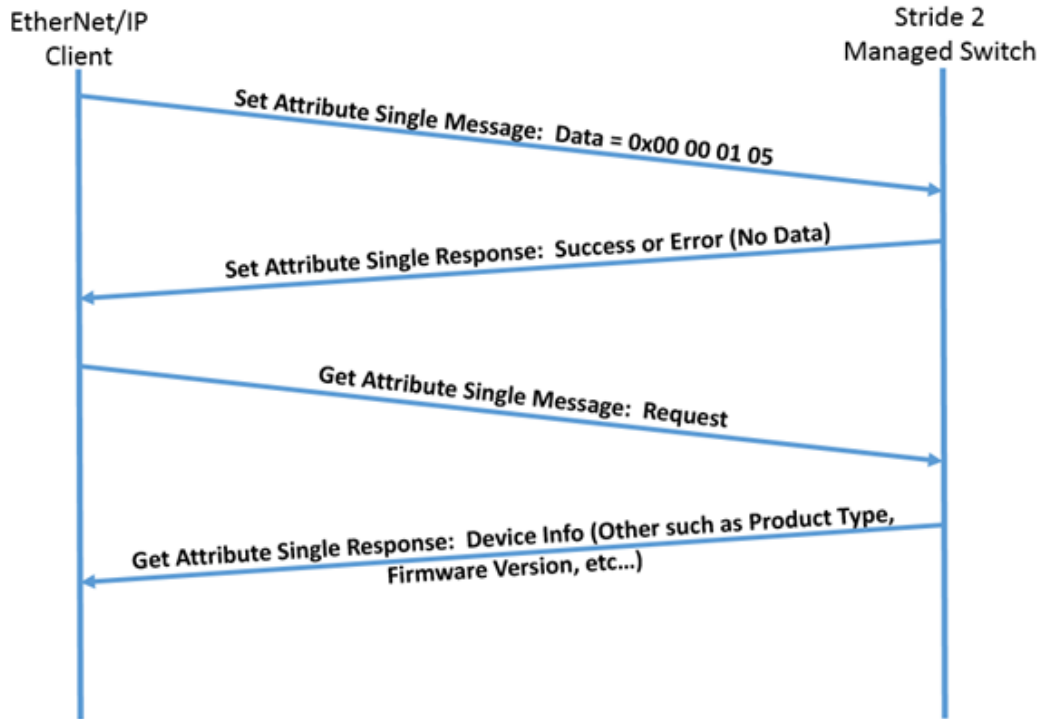
**NOTE:** The first four bytes of “Set Attribute Single Service” message determine the response of the “Get Attribute Single Service” message. The “Set Attribute Single Service” response is always the same and does not contain the information in the switch.

## To Enable/Disable Ports and retrieve Port status (same as I/O Messaging):





## To retrieve extended data: Example: Device Info (Other):



The tables on the following pages detail the format of the data returned by the various information areas outlined in the table above.

Device Information				
Byte Offset Number	Size (in Bytes)	Data Type	Name	Details
<b>Device Information: Manufacturer Name (Set Attribute Single = 0x00 00 01 01)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	258	ASCII	Mfg Name	Example: "A" = 0x41 "u" = 0x75 "t" = 0x74 "o" = 0x6f "m" = 0x6d "a" = 0x61 "t" = 0x74 etc.....
<b>Device Information: Device Type (Set Attribute Single = 0x00 00 01 02)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	258	ASCII	Model Number	Example: "S" = 0x53 "E" = 0x45 etc.....
<b>Device Information: Manufacturer Address (Set Attribute Single = 0x00 00 01 03)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	258	ASCII	Location	Example: "3" = 0x33 "5" = 0x35 etc.....
<b>Device Information: Contact Phone Number (Set Attribute Single = 0x00 00 01 04)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	258	ASCII	Contact Phone Number	Example: "1" = 0x31 "(" = 0x28 etc.....

Device Information (cont'd)				
Byte Offset Number	Size (in Bytes)	Data Type	Name	Details
<b>Device Information: Other Info (Set Attribute Single = 0x00 00 01 05)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	40	ASCII	Model Number	Example: "S" = 0x53 "t" = 0x74 "r" = 0x72 "I" = 0x69 "d" = 0x64 "e" = 0x65 "S" = 0x53 "E" = 0x45 "2" = 0x32 etc.....
42	30	ASCII	Serial Number	ASCII formatted as shown in "Model Number" ex. above
72	22	ASCII	Bootrom Version	
94	18	ASCII	Current Firmware Version	
112	4	INT32	Switch Management Interface IP Address	192.168.0.1 (0xc0a80001)
116	2	INT16	Device MAC Address Number	
118	6	INT16	Device Full MAC Address	00-1E-CD-00-00-01 Word 0 HI byte = 0x00 Word 0 LO byte = 0x1e Word 1 HI byte = 0xcd Word 1 LO byte = 0x00 Word 2 HI byte = 0x00 Word 2 LO byte = 0x00
124	1	INT	Power 1 Status	Power Off = 0x00 Power On = 0x01
125	1	INT	Power 2 Status	Power Off = 0x00 Power On = 0x01 None = -x-2
126	2	INT16	CPU occupancy rate (long term)	
128	2	INT16	CPU occupancy rate (short term)	
130	4	INT32	Total Memory (bytes)	
134	4	INT32	Free memory (bytes)	
138	4	INT32	Device running time (minutes)	

Port Information				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
<b>Port Information (Set Attribute Single = 0x00 00 02 01 - Number of ports on switch)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	64	ASCII	Port Description	"FE" or "GE"
66	1	INT	Port Status	Up/Down/Disable Disable = 0x00 Up = 0x01 Down = 0x02
67	1	INT	Port Rate	10/100/1000/10000M 10M = 0x00 100M = 0x01 1000M = 0x02 10000M = 0x03
68	1	INT	Port Duplex	Half/Full Half = 0x00 Full = 0x01
69	1	INT	Port Flow Control Status	On/Off Off = 0x00 On = 0x01
70	8	INT64	Port Received Packets	
78	8	INT64	Port Received Bytes	
86	8	INT64	Port Sent Packets	
94	8	INT64	Port Sent Bytes	
102	8	INT64	Port Received Unicast Packets	
110	8	INT64	Port Received Multicast Packets	
118	8	INT64	Port Received Broadcast Packets	
126	8	INT64	Port Sent Unicast Packets	
134	8	INT64	Port Sent Multicast Packets	
142	8	INT64	Port Sent Broadcast Packets	
150	8	INT64	Port Received Pause Frames	
158	8	INT64	Port Sent Pause Frames	
166	8	INT64	Port received CRC Error Packets	

AD-RING Information				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
<b>AD-RING Information: Ring Mode (Set Attribute Single = 0x00 00 03 00)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Ring Working Mode	Port/VLAN Port = 0x0000 VLAN = 0x0001
<b>AD-RING Information: Ring Info (Set Attribute Single = 0x00 00 03 01-20 (32))</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Ring ID	
4	2	INT16	Station Role	Master/Normal Master = 0x0000 Normal = 0x0001
6	2	INT16	Ring Enable Status	Enable/Disable Disable = 0x0000 Enable = 0x0001
8	2	INT16	Ring Status	Open/Close/Alarm Open = 0x000 Close = 0x001 Alarm = 0x0002
10	2	INT16	Port 1 Status of the Ring	Down/Forward/Block Down = 0x000 Forward = 0x0001 Block = 0x002
12	2	INT16	Port 2 Status of the Ring	Down/Forward/Block Down = 0x000 Forward = 0x0001 Block = 0x002
14	2	INT16	Ring Switching Times	
16	2	INT16	AD-RING+ Status	Disable = 0x000 Enable = 0x0001
18	2	INT16	Backup Port Status	None = 0x000 Forward = 0x0001 Block = 0x0002
20	4	INT32	Backup Port 1 Status: IP	192.168.0.1 (0xc0 1e cd 00 00 01)
24	6	INT16	Backup Port 1 Status: MAC	00-1e-cd-00-00-01 (0x00 1e cd 00 00 01)

AD-RING Information (cont'd)				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
30	2	INT16	Backup Port 1 Status	None = 0x000 Forward = 0x0001 Block = 0x0002
32	4	INT32	Backup Port 2 Status: IP	192.168.0.0 (0x00 1e cd 00 00 01)
36	6	INT16	Backup Port Status: MAC	00-1e-cd-00-00-01 (0x00 1e cd 00 00 01)
42	2	INT16	Backup Port 2 Status	None = 0x000 Forward = 0x0001 Block = 0x0002
44	8	INT16	Ring Port 1 Info	
52	8	INT16	Ring Port 2 Info	
60	8	INT16	Backup Port	
68	2	INT16	Main Port	0 = disable, non-zero = port number
70	32	INT16	VLAN List	

AD-RP RING Information				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
<b>AD-RP RING Information: Ring Mode (Set Attribute Single = 0x00 00 04 00)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Ring Working Mode	Port or VLAN Port = 0x0000 VLAN = 0x0001
<b>AD-RP RING Information: Ring Info (Set Attribute Single = 0x00 00 04 01-20 (32))</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Ring ID	
4	2	INT16	Station Role	Init = 0x0000 Root = 0x0001 B-Root = 0x0002 Normal = 0x0003
6	2	INT16	Station Priority	
8	2	INT16	Ring Protocol Enable Status	Disable = 0x0000 Enable = 0x0001
10	2	INT16	Ring Status	Init = 0x0000 Open = 0x0001 Close = 0x0002 None = 0x0003
12	2	INT16	Ring Port 1 Link Status	Down = 0x0000 Up = 0x0001
14	2	INT16	Ring Port 2 Link Status	
16	2	INT16	Backup Port Link Status	
18	2	INT16	Ring Port 1 Block Status	Forwarding = 0x0000 Blocked = 0x0001 Linkdown = 0x0002
20	2	INT16	Ring Port 2 Block Status	
24	8	INT16	Ring Port 1 Info	Ring Number
32	8	INT16	Ring Port 2 Info	
40	8	INT16	Backup Port	
48	2	INT16	Priority Port	None = 0x0000 Ring Port 1 = 0x0001 Ring Port 2 = 0x0002
50	2	INT16	CRC Threshold	

AD-RP RING Information (cont'd)				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
52	2	INT16	DHP Mode	Disable = 0x0000 Normal Node = 0x0001 Home Node = 0x0002
54	2	INT16	Home Port	None - 0x0000 Ring Port 1 = 0x0001 Ring Port 2 = 0x0002 Ring Port 1-2 = 0x0003
56	4	INT16	Boot IP	0 or the IP address. Ex: 192.168.0.1 (0xc0 a8 00 01)
60	2		Protocol VLAN	All 0xFF if none
62	32	INT16	Protected VLAN	16 VLAN, All 0xFF if none

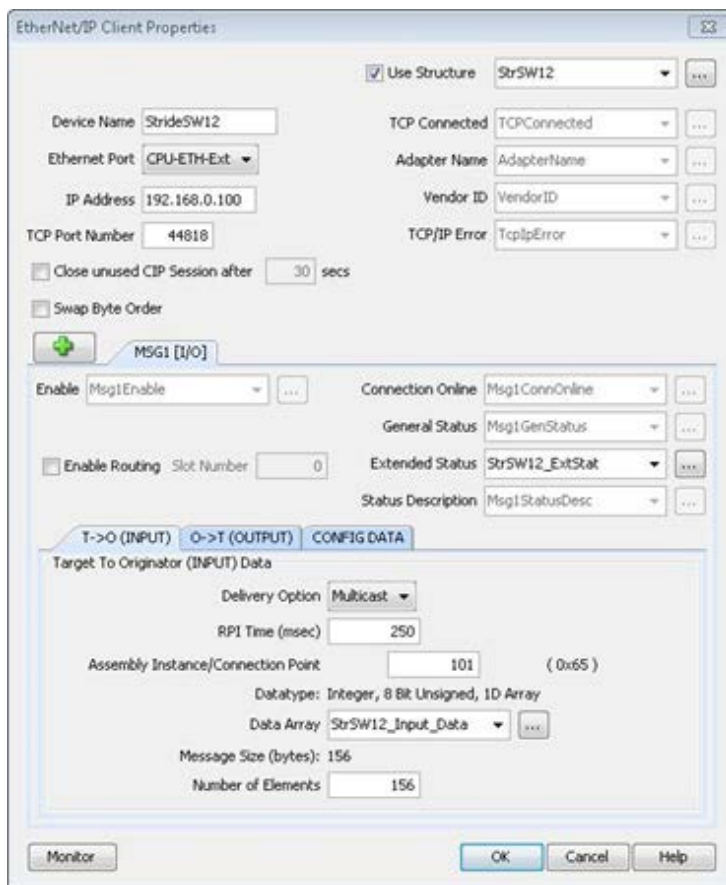


RSTP Information				
Byte Offset Number	Size (in bytes)	Data Type	Name	Details
<b>RSTP Information: Root Bridge Status (Set Attribute Single = 0x00 00 05 00)</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Protocol Enable Status	Disable = 0x0000 Enable = 0x0001
4	8	INT16	Root Bridge ID	Combination of priority and MAC address Example: Priority = 0x8000 MAC = 00-1e-cd-00-00-01 Root Bridge ID = 0x8000001ecd000001
12	8	INT16	Bridge ID	Combination of priority and MAC address
20	2	INT16	Spanning Tree Priority	
22	2	INT16	Hello Time	
24	2	INT16	Max Age Time	
26	2	INT16	Forward Delay Time	
28	2	INT16	Message-age Increment	Compulsion = 0x0001 Default = 0x0002
<b>RSTP Information: Ring Info (Set Attribute Single = 0x00 00 05 01-20 (32))</b>				
0	2	INT16	Query Status	Query Successful = 0x0000 Query Failure = 0xffff
2	2	INT16	Port Protocol Enable Status	Disable = 0x0000 Enable = 0x0001
4	2	INT16	Port Priority	Init = 0x0000
6	4	INT32	Routing Cost	
10	2	INT16	Cost Automatic Calculation Status	Disable = 0x0000 Enable = 0x0001
12	2	INT16	Port Role	Designated = 0x0000 Root = 0x0001 Alternate = 0x0002 Backup = 0x0003 Edge = 0x0004 RSTP disable = 0x0005 Linkdown - 0x0006
14	2	INT16	Port Status	Forwarding = 0x0001 Blocked = 0x0002

Examples

Productivity 2000 I/O Messaging

Input Data



## Output Data

EtherNet/IP Client Properties

Use Structure StrSW12

Device Name StrideSW12

Ethernet Port CPU-ETH-Ext

IP Address 192.168.0.100

TCP Port Number 44818

Close unused CIP Session after 30 secs

Swap Byte Order

TCP Connected TCPConnected

Adapter Name AdapterName

Vendor ID VendorID

TCP/IP Error TcpIpError

Enable Routing Slot Number 0

MSG1 [I/O]

Enable Msg1Enable

Connection Online Msg1ConnOnline

General Status Msg1GenStatus

Extended Status StrSW12\_ExtStat

Status Description Msg1StatusDesc

T->O (INPUT) O->T (OUTPUT) CONFIG DATA

Originator To Target (OUTPUT) Data

RPI Time (msec) 250

Assembly Instance/Connection Point 102 (0x66)

Datatype: Integer, 8 Bit Unsigned, 1D Array

Data Array StrSW12\_Output\_Data

Message Size (bytes): 20

Number of Elements 20

Include Status Header

Monitor

OK Cancel Help

### Configuration Data (None)

**EtherNet/IP Client Properties**

Use Structure StrSW12

Device Name: StrideSW12

Ethernet Port: CPU-ETH-Ext

IP Address: 192.168.0.100

TCP Port Number: 44818

Close unused CIP Session after 30 secs

Swap Byte Order

**MSG1 [I/O]**

Enable: Msg1Enable

Enable Routing Slot Number: 0

Connection Online: Msg1ConnOnline

General Status: Msg1GenStatus

Extended Status: StrSW12\_ExtStat

Status Description: Msg1StatusDesc

**T->O (INPUT) O->T (OUTPUT) CONFIG DATA**

**Configuration Data**

Enable Configuration Data

Assembly Instance|Connection Point: 0 (0x0)

Datatype: ----

Data Array: [ ]

Message Size (bytes): 0

Number of Elements: 0

Monitor OK Cancel Help

## Productivity 2000 Explicit Messaging

## Set Single Attribute Service

EtherNet/IP Explicit Message (EMSG)

Use Structure StrSW12\_SetSing

Device Name: StrideSW12

Connection: Unconnected MSG

Service: Assy:Set Single Attribute

Service ID: 16 (0x10)

Class ID: 4 (0x4)

Use Attribute ID: 3 (0x3)

Instance ID: 104 (0x68)

In Progress: InProgress

Complete: Complete

Success: Success

Error: Error

Timeout: Timeout

Exception Response String: ExcResponse

T->O (INPUT)

Enable Input

Datatype: -----

Data Array: [ ]

Message Size (bytes): 0

Number Elements: 1

O->T (OUTPUT)

Enable Output

Datatype: Integer, 8 Bit Unsigned, 1D Array

Data Array: StrSW12\_Set\_Data

Message Size (bytes): 22

Number Elements: 22

Show Instruction Comment

Monitor OK Cancel Help

## Get Single Attribute Service

EtherNet/IP Explicit Message (EMSG) ES

Use Structure StrSW12\_GetSing

Device Name: StrideSW12

Connection: Unconnected MSG

Service: Assy: Get Single Attribute

Service ID: 14 (0xE)

Class ID: 4 (0x4)

Use Attribute ID: 3 (0x3)

Instance ID: 103 (0x67)

In Progress: InProgress

Complete: Complete

Success: Success

Error: Error

Timeout: Timeout

Exception Response String: ExcResponse

**T->O (INPUT)**

Enable Input

Datatype: Integer, 8 Bit Unsigned, 1D Array

Data Array: StrSW12\_Get\_Data

Message Size (bytes): 260

Number Elements: 260

**O->T (OUTPUT)**

Enable Output

Datatype: ----

Data Array:

Message Size (bytes): 0

Number Elements: 1

Show Instruction Comment

Monitor OK Cancel Help

## Do-more Explicit Messaging

## Set Single Attribute Service

EIPMSG Send EtherNet/IP Message

Device: @IntEIPClient Create Data Block...

IP Address

Fixed: 192 . 168 . 0 . 100

Variable: D0

TCP Port Number: 44818

Path

Class: 0x4

Instance: 0x68

Use Attribute: 0x3

Service

Specific Service: Set Attribute (16, 0x10)

Generic Service: D0

Enable

Once on Leading Edge

Continuous on Power Flow at Interval

Constant: hr h min m sec s ms ms

Variable: D0 ms

On Success:  Set bit  JMP to Stage: C0

On Success Counter: D6

On Error:  Set bit  JMP to Stage: C1

On Error Counter: D7

Use Request Service Data Buffer

Req is String Structure: SS0

Req is Numeric Data Block

Req Start: StrSWSSet0

Req Number of BYTES: 22

Use Response Service Data Buffer

Res is String Structure: SS0

Res is Numeric Data Block

Res Start: D1

Res Length in BYTES: D2

Res Max Length in BYTES: 4

General Status Code: D3

Extended Status

Ext is String Structure: SS0

Ext is Numeric Data Block

Ext Start: D0

Ext Length in BYTES: D0

Ext Max Length in BYTES: 4

## Get Single Attribute Service

EIPMSG Send EtherNet/IP Message

Device: @IntEIPClient Create Data Block...

IP Address:  Fixed 192 . 168 . 0 . 100  Variable D0

TCP Port Number: 44818

Path: Class 0x4 Instance 0x67  Use Attribute 0x3

Service:  Specific Service Get Attribute (14, 0x0E)  Generic Service D0

Enable:  Once on Leading Edge  Continuous on Power Flow at Interval  
 Constant hr h min m sec s ms ms  Variable D0 ms

On Success:  Set bit  JMP to Stage C0  
 On Success Counter D5

On Error:  Set bit  JMP to Stage C1  
 On Error Counter D7

Use Request Service Data Buffer

Req is String Structure SS0

Req is Numeric Data Block

Req Start: StrSWSet0

Req Number of BYTES: 22

Use Response Service Data Buffer

Res is String Structure SS0

Res is Numeric Data Block

Res Start: StrSWGet0

Res Length in BYTES: D2

Res Max Length in BYTES: 260

General Status Code D3

Extended Status

Ext is String Structure SS0

Ext is Numeric Data Block

Ext Start: D0

Ext Length in BYTES: D0

Ext Max Length in BYTES: 4



## CompactLogix I/O Messaging

Module Properties Report: Local (ETHERNET-MODULE 1.001)

General | Connection | Module Info

Type: ETHERNET-MODULE Generic Ethernet Module  
Vendor: Allen-Bradley  
Parent: Local  
Name: StrideSW12  
Description:  
Comm Format: Data - SINT  
Address / Host Name  
 IP Address: 192 . 168 . 0 . 2  
 Host Name:  
Status: Offline

Connection Parameters

	Assembly Instance:	Size:	
Input:	101	156	(8-bit)
Output:	102	20	(8-bit)
Configuration:	100	0	(8-bit)
Status Input:			
Status Output:			

OK Cancel Apply Help

## CompactLogix Explicit Messaging

### Set Single Attribute Service

The screenshot shows the "Message Configuration - StrideSW12" dialog box. It has three tabs: "Configuration\*", "Communication", and "Tag". The "Configuration\*" tab is active. The "Message Type" is set to "CIP Generic". The "Service Type" is "Set Attribute Single". The "Source Element" is "StrSW12SetData" and the "Source Length" is 22 Bytes. The "Service Code" is 10 (Hex), "Class" is 4 (Hex), "Instance" is 104, and "Attribute" is 3 (Hex). The "Destination Element" is empty, with a "New Tag..." button below it. At the bottom, there are radio buttons for "Enable", "Enable Waiting", "Start", and "Done", with "Done Length: 0" next to "Done". There are also fields for "Error Code:", "Extended Error Code:", "Error Path:", and "Error Text:", along with a "Timed Out" checkbox. The "OK", "Cancel", "Apply", and "Help" buttons are at the bottom right.

## Get Single Attribute Service

Message Configuration - StrideSW12

Configuration\* Communication Tag

Message Type: CIP Generic

Service Type: Get Attribute Single

Service Code: e (Hex) Class: 4 (Hex) Instance: 103 Attribute: 3 (Hex)

Source Element: Source Length: 0 (Bytes) Destination Element: StrSW12GetData

New Tag...

Enable
  Enable Waiting
  Start
  Done
 Done Length: 0

Error Code:
 Extended Error Code:
  Timed Out

Error Path:

Error Text:

OK Cancel Apply Help

