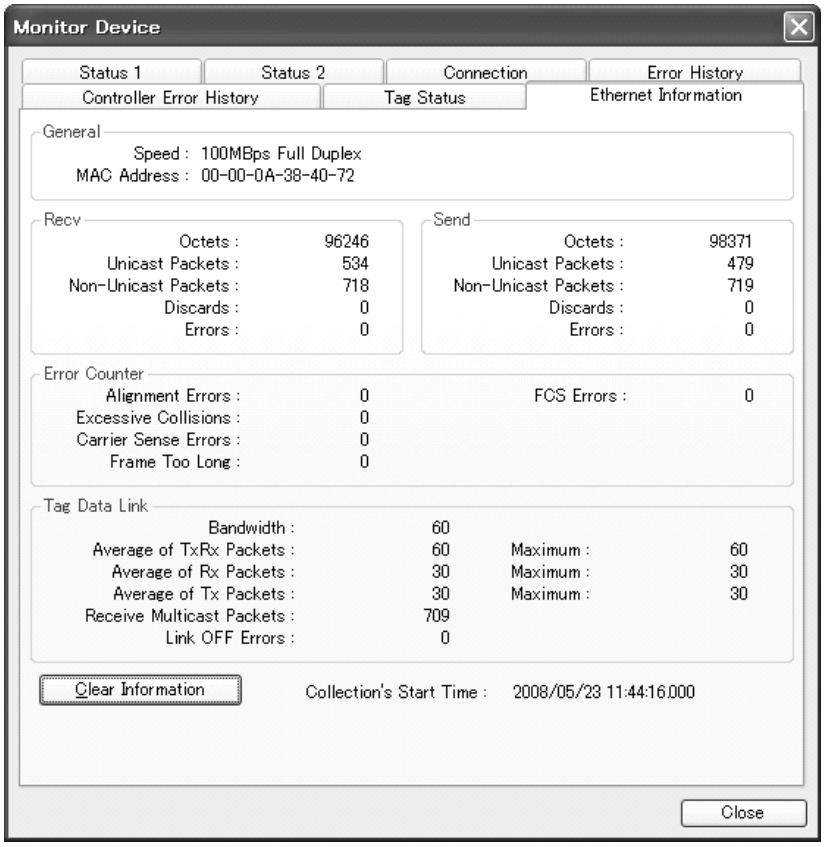
Ethernet Information Tab Page

The *Ethernet Information* Tab Page shows the communications status at the communications driver level. The error counter information can be used to confirm whether communications problems have occurred. The tag data link information can be used to confirm characteristics such as the bandwidth usage (pps).



14-2 Using the LED Indicators and Display for Troubleshooting

14-2-1 Errors Occurring at the EtherNet/IP Unit or Built-in EtherNet/IP Port

Errors Related to CPU Unit Data Exchange

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	Not lit	H1	Duplicate unit number	The same unit number is set on another Unit.	Operation stops.	---	Set the unit numbers correctly and restart the EtherNet/IP Unit or built-in EtherNet/IP port.
Flashing red	Not lit	H2	CPU Unit faulty	---	Operation stops.	---	Replace the CPU Unit if the error recurs when the CPU Unit is restarted.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Lit red	Not lit	H3	EtherNet/IP Unit or built-in EtherNet/IP port faulty	---	Operation stops.	---	Replace the EtherNet/IP Unit or (for a built-in EtherNet/IP port) the CPU Unit if the error recurs when the Unit is restarted.
Flashing red	Not lit	H4	Node address setting error	The node address set on the switches is invalid (00 or FF.)	Operation stops.	---	Set the node address correctly and restart the EtherNet/IP Unit or built-in EtherNet/IP port.
Flashing red	Not lit	H6	CPU Unit faulty	---	Records the error in the error log (time/date all zeroes). Operation stops.	000F	Replace the CPU Unit if the error recurs when the CPU Unit is restarted.
Flashing red	Not lit	H7	I/O table not registered	The CPU Unit's I/O table is not registered.	Operation stops.	0006	Create the I/O table.
Flashing red	---	H8	Simple backup function restore error	The simple backup function's data restoration failed.	The settings of the EtherNet/IP Unit or built-in EtherNet/IP port are all cleared, unless the backup file does not exist, a Memory Card is not mounted, or the PLC model does not match.	---	Perform the simple backup operation again. If the error recurs, replace the Memory Card, or EtherNet/IP Unit, or (for a built-in EtherNet/IP port) the CPU Unit.
Flashing red	---	H9	I/O bus error	An error occurred while exchanging data with the CPU Unit.	• If the Unit is the originator of the tag data link connection, it stops communications. • If the Unit is the target of the tag data link connection and the PLC status is included in the communications data, the corresponding Target Node PLC Error Flag will be turned ON.	000E	Check and correct the CPU Unit's operating environment.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	---	HA	CPU Unit memory error	A parity error occurred during an operation such as reading the routing tables.	Records the error in the error log. If the routing tables were being read, the routing tables are treated as missing.	0012	Register the routing tables in the CPU Unit again and restart the CPU Unit. Replace the CPU Unit if the error recurs.
				A memory error has occurred for the tag database in the CPU Unit (CJ2H/CJ2M CPU Unit only).	• If a symbol (tag name) is specified in the tag data link or Unit Status Area, refreshing the user-specified status area is stopped and tag data links will operate as follows: • Tag data link communications will be stopped for originator connections. • Communications will continue for target connection. If PLC status is included in the communications data, the target node PLC error flag for the relevant target node will be turned ON. **Note** Recovery is possible from this error. If recovery is achieved, the tag data links will be restarted to return to normal status.	0017	Download the tag data to the CPU Unit again. Replace the CPU Unit if the error recurs.
Flashing red	Not lit	Hb	CPU Unit event servicing timeout	A timeout occurred during an operation such as reading the routing tables to the CPU Unit.	Operation stops.	0011	Replace the EtherNet/IP Unit or (for a built-in EtherNet/IP port) the CPU Unit. if the error recurs when the Unit is restarted.
Flashing red	---	HC	Routing table error	There is a logic error in the routing table settings.	The Unit continues operating without the routing tables.	021A	Create the routing tables again.
Flashing red	---	Hd	I/O refresh error	The EM Area bank in which the device parameters were set was converted to file memory while the tag data link was operating.	Tag data is not refreshed if it is assigned to a non-existent area. Note: Recovery is possible for this error.	0347	Stop using the EM Area bank (in which the device parameters were set) as file memory, or correct the device parameters.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	---	HE	CPU Unit service monitoring error	Servicing from the CPU Unit was not completed within the fixed interval. The monitoring time is normally 11 s.	• If the Unit is the originator of the tag data link connection, it stops communications. • If the Unit is the target of the tag data link connection and the PLC status is included in the communications data, the corresponding Target Node PLC Error Flag will be turned ON. Note: Recovery is possible for this error. When operation is restored, tag data link startup processing will be performed and operations will return to normal.	0002	Check and correct the CPU Unit's operating environment.
Flashing red	---	HF	CPU Unit watchdog timer error	An error occurred in the CPU Unit.	• If the Unit is the originator of the tag data link connection, it stops communications. • If the Unit is the target of the tag data link connection and the PLC status is included in the communications data, the corresponding Target Node PLC Error Flag will be turned ON.	0001	Replace the CPU Unit.

Errors Related to the CPU Unit

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	---	HH	CPU Unit Fatal Error	A fatal error occurred in the CPU Unit.	• If the Unit is the originator of the tag data link connection, it stops communications. • If the Unit is the target of the tag data link connection and the PLC status is included in the communications data, the corresponding Target Node PLC Error Flag will be turned ON.	0015	Eliminate the cause of the error in the CPU Unit. The tag data link will restart automatically when the cause of the error is eliminated.
---	---	---	Output OFF Error	An Output OFF (output inhibit) condition occurred in the CPU Unit.	The tag data link's send data will be cleared to 0 in accordance with the Output OFF settings, and data transfer will continue with that data.	---	Turn OFF the CPU Unit's Output OFF Bit (A50015). The tag data link's send data will be restored automatically when this bit is turned OFF.

Errors Related to the Control Bits

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
---	---	C6	Multiple Switches ON	Two or more software switches were ON simultaneously, or a second software switch was turned ON before a prior operation was completed.	The error code will be displayed on the 7-segment display for 30 seconds, and the Multiple Switches ON Error Flag (n+11, bit 14) will go ON. The error display will be cleared the next time that a settings operation is completed normally.	---	Execute control bit operations one at a time.

Errors Related to the Tag Data Links

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
---	---	d5	Verification Error (target non-existent)	The target registered in the device parameters does not exist.	The Unit will periodically attempt to reconnect to the target. The Verification Error Flag (n+12, bit 00), Unit Error Occurred Flag (n+10, bit 00), and Network Error Occurred Flag (n+10, bit 01) will go ON.	--- Not recorded for version 2.0 or higher	Check the following items: • Is the registered node's power supply ON? • Is the cable connected? • Is the cable damaged or loose? • Is there excessive noise?
---	---	d6	Connection Failed	The connection could not be established because device parameters (such as the variable name and size) did not match in the originator and target, or connection resources are insufficient.	The Unit will periodically attempt to reconnect to the target. The Verification Error Flag (n+12, bit 00) and Unit Error Occurred Flag (n+10, bit 00) will go ON.	03D4	Correct the device parameter settings, and download the device parameters again from the Network Configurator.
---	---	d9	Tag Data Link Error	A timeout occurred in the tag data link. (Tag data was not received from the target within the specified timeout time.)	The Unit will periodically attempt to reconnect to the target where the error occurred. The Tag Data Link Error Flag (n+12, bit 02), Unit Error Occurred Flag (n+10, bit 00), and Network Error Occurred Flag (n+10, bit 01) will go ON.	03D5	Check the following items: • Is the registered node's power supply ON? • Is the cable connected? • Is the cable damaged or loose? • Is there excessive noise?

Errors Related to Memory Access

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	---	E9	Memory Access Error	An error occurred in the Unit's non-volatile memory itself. This error will occur in the following cases. 1. An error occurred while writing the error log. 2. An error occurred while writing the device parameters. Note: This error does not indicate checksum errors detected when reading data.	Case 1: The error record remains in RAM only. Subsequent writes to non-volatile memory are all ignored. Other than that, normal operation continues. (Error records continue to be written to RAM.) Case 2: Tag data links and message communications will continue operating. The Unit Error Occurred Flag (n+10, bit 00), Unit Memory Error Flag (n+10, bit 04), and Non-volatile Memory Error Flag (n+14, bit 15) will turn ON.	0602	Download the Unit Setup from the tab pages of the Edit Parameters Dialog Box of the CX-Programmer and download the device parameters from the Network Configurator. If the error recurs, replace the EtherNet/IP Unit or (for a built-in EtherNet/IP port) the CPU Unit.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	---	E8	Device Parameters Error	The I/O Area set in the device parameters does not exist in the CPU Unit, or the EM Area was converted to file memory. A checksum error or logic error was detected in the parameters. The Unit was mounted to a different PLC (e.g., from CJ1 to CJ2) after the Unit settings were made.	There is an error in the parameter settings stored in the Unit's non-volatile memory. (An error can occur when power is interrupted while data is being written to non-volatile memory.) The Unit Error Occurred Flag (n+10, bit 00) and Invalid Communications Parameter Flag (n+12, bit 04) will go ON.	021A	Download the Unit Setup from the tab pages of the Edit Parameters Dialog Box of the CX-Programmer and download the device parameters from the Network Configurator. If the error recurs, replace the EtherNet/IP Unit or (for a built-in EtherNet/IP port) the CPU Unit. If the ladder program uses the OUT instruction to turn ON the CPU Bus Unit Restart Bit, change the OUT instruction to the SET instruction and download the parameters again.
Flashing red	---	EA	IP Advanced Settings Error			03D1	Identify the error log data, correct the settings, and then download the Unit Setup from the tab pages of the Edit Parameters Dialog Box of the CX-Programmer
Flashing red	---	F2	Ethernet Basic Settings Error			03D0	Download the settings from the TCP/IP or Ethernet Tab Pages of the Edit Parameters Dialog Box of the CX-Programmer or download the TCP/IP settings from the Network Configurator.

Errors Related to the Network

The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
---	---	E1	Ethernet Link Not Detected	The link with the switching hub could not be detected. **Note** This error will not occur when data links are not set for version 2.0 or higher.	• The Unit will be offline and unable to communicate. Errors will be returned to all communications requests. • Data exchanges (refreshing) will continue with the CPU Unit. The Unit Error Occurred Flag (n+10, bit 00), Network Error Occurred Flag (n+10, bit 01), and Link OFF Error Flag (n+10, bit 09) will go ON. The Link Status Flag (n+13, bit 14) will go OFF.	03D3	Check the following items: • Is the cable connected? • Is the cable damaged or loose? • Is there excessive noise?

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	**NS**	**7-segment**					
---	---	E3	Server Connection Error	An error occurred in communications with the DNS server.	The DNS Server Error Flag (n+14, bit 05) will turn ON.	03C4 Details: 00xx	Perform one of the following: • Correct the DNS server settings. • Check the communications path (EtherNet/IP Unit or built-in EtherNet/IP port, cable connections, hubs, routers, and servers) and correct any problems.
				An error occurred with the BOOTP server. 1. There was no response from the BOOTP server. 2. The BOOTP server attempted to set an invalid IP address in the EtherNet/IP Unit or built-in EtherNet/IP port.	Case 1: The Unit will continue sending requests to the BOOTP server until there is a response. In the meantime, the Unit will be offline and unable to communicate. Errors will be returned to all communications requests. Data exchanges (refreshing) will continue with the CPU Unit. Case 2: The Unit will operate with the default IP address (192.168.250.node_address). The Unit Error Occurred Flag (n+10, bit 00), Network Error Occurred Flag (n+10, bit 01), and BOOTP Server Error Flag (n+14, bit 10) will go ON.	03C4 Details: 06xx	Perform one of the following: • Correct the BOOTP server settings. • Check the communications path (EtherNet/IP Unit or built-in EtherNet/IP port, cable connections, hubs, routers, and servers) and correct any problems.
				An error occurred in communications with the STNP server.	The SNTP Server Error Flag (n+14, bit 11) will turn ON.	03C4 Details: 03xx	Perform one of the following: • Correct the SNTP server settings. • Check the communications path (EtherNet/IP Unit or built-in EtherNet/IP port, cable connections, hubs, routers, and servers) and correct any problems.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
---	---	E3	Server Connection Error	An error occurred in transmission to the SNMP trap.	---	03C4 Details: 07xx	Perform one of the following: • Correct the SNMP trap settings. • Check the communications path (EtherNet/IP Unit or built-in EtherNet/IP port, cable connections, hubs, routers, and servers) and correct any problems.
---	Lit red	F0	IP Address Duplication	The IP address of the EtherNet/IP Unit or built-in EtherNet/IP port is the same as the IP address set for another node.	• The Unit will be offline and unable to communicate. Errors will be returned to all communications requests. • Data exchanges (refreshing) will continue with the CPU Unit. The Unit Error Occurred Flag (n+10, bit 00), Network Error Occurred Flag (n+10, bit 01), and IP Address Duplication Error Flag (n+10, bit 06) will go ON.	0211	Check the IP addresses set on other nodes. Restart the EtherNet/IP Unit or built-in EtherNet/IP port after correcting the IP address settings to eliminate duplications.
Flashing red	---	F3	Address mismatch	The target IP address conversion method is set to *Automatic generation*, but the last byte of the local IP address does not match the value set on the Node Address Setting Switch.	• Operation will continue with the set IP address as the local IP address. The Address Mismatch Flag (n+14, bit 14) will turn ON.	---	Check the IP address and the Node Address Setting Switch setting.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Flashing red	Not lit	F4	Communications Controller Error	An error occurred in the Communications Controller in the EtherNet/IP Unit or built-in EtherNet/IP port.	• The Unit will be offline and unable to communicate. Errors will be returned to all communications requests. • Data exchanges (refreshing) will continue with the CPU Unit. The Unit Error Occurred Flag (n+10, bit 00), Network Error Occurred Flag (n+10, bit 01), and Communications Controller Error Flag (n+10, bit 05) will go ON.	020F	Replace the EtherNet/IP Unit or (for the built-in EtherNet/IP port) the CPU Unit if the error recurs when the Unit is restarted.
Flashing red	---	C8	Node Address Setting Changed During Operation	The Node Address Setting Switch was changed during operation.	Operation will continue. The IP Address Changed During Operation Flag (n+11, bit 02) will turn ON.	---	Restart the EtherNet/IP Unit or built-in EtherNet/IP port after setting the correct node address.

Errors Related to the Unit The 7-segment display alternates between the node address and error code.

Indicator			Error	Cause	Unit operation (Flag status)	Error log (hex)	Countermeasure
MS	NS	7-segment					
Lit red	Not lit	---	Special Unit Error	An error occurred in a Special I/O Unit or CPU Bus Unit.	Records the error in the error log. Operation stops.	0601	Restart the CPU Unit. Replace the EtherNet/IP Unit or (for the built-in EtherNet/IP port) the CPU Unit if the error recurs.

14-3 Connection Status Codes and Error Processing

This section explains how to identify and correct errors based on the tag data link's connection status. The connection status can be read using the *Connection* Tab Page of the Network Configurator's Monitor Device Window. For details, refer to *14-1-1 The Network Configurator's Device Monitor Function*.

Note

1. The connection status has the same meaning as the Connection Manager's General and Additional error response codes, as defined in the CIP specifications.
2. The Open DeviceNet Vendor Association, Inc. (ODVA) can be contacted at the following address to obtain a copy of the CIP specifications.

   ODVA Headquarters
   4220 Varsity Drive, Suite A
   Ann Arbor, Michigan 48108-5006
   USA

   TEL: 1 734-975-8840
   FAX: 1 734-922-0027

Email odva@odva.org

WEB www.odva.org

The following table shows the possible originator/target configurations.

Configuration	Originator	Target
Configuration 1	CS1W-EIP21, CJ1W-EIP21, CJ2H-CPU□□-EIP, CJ2M-CPU3□	CS1W-EIP21, CJ1W-EIP21, CJ2H-CPU□□-EIP, CJ2M-CPU3□
Configuration 2	CS1W-EIP21, CJ1W-EIP21, CJ2H-CPU□□-EIP, CJ2M-CPU3□	Other company's device
Configuration 3	Other company's device	CS1W-EIP21, CJ1W-EIP21, CJ2H-CPU□□-EIP, CJ2M-CPU3□

The following table shows the likely causes of the errors causes for each configuration and connection status (code).

Connection status		Source of error	Handling		
General Status (hex)	Additional Status (hex)		Configuration 1	Configuration 2	Configuration 3
00	0000	Normal status code: The connection has been opened and the tag data link is communicating normally.	---	---	---
01	0100	Error code returned from target: Attempted to open multiple connections at the same connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer for details on preventing the error from occurring in the future.)	Depends on the originator's specifications. (Contact the originator device's manufacturer for details on preventing the error from occurring in the future.)
01	0103	Error code returned from target: Attempted to open a connection with an unsupported transport class.	This error does not occur.	Confirm that the target supports Class 1.	Confirm that the originator supports Class 1.
01	0106	Duplicate consumers: Attempted to open multiple connections for single-consumer data.	If the tag data link is stopped or started, this error may occur according to the timing, but the system will recover automatically.	Depends on the target's specifications. (Contact the target device's manufacturer.)	If the tag data link is stopped or started, this error may occur according to the timing, but the system will recover automatically.
01	0107	Error code returned from target: Attempted to close a connection, but that connection was already closed.	This error does not occur.	This error does not occur.	This is not an error because the connection is already closed.
01	0108	Error code returned from target: Attempted to open a connection with an unsupported connection type.	This error does not occur.	Check which connection types can be used by the target. (Contact the manufacturer.) Only multicast and point-to-point can be set.	Check which connection types can be used by the originator. (An error will occur if a connection other than multicast or point-to-point is set.)

Connection status		Source of error	Handling		
General Status (hex)	Additional Status (hex)		Configuration 1	Configuration 2	Configuration 3
01	0109	Error code returned from target: The connection size settings are different in the originator and target.	Check the connection sizes set in the originator and target.		
01	0110	Error code returned from target: The target was unable to open the connection, because of its operating status, such as downloading settings.	Check whether the tag data link is stopped at the target. (Restart the tag data link communications with the control bit.)	Depends on the target's specifications. (Contact the target device's manufacturer.)	Check whether the tag data link is stopped at the originator. (Restart the tag data link communications with the control bit.)
01	0111	Error code returned from target: The RPI was set to a value that exceeds the specifications.	This error does not occur.	Check the target's RPI setting specifications.	Set the originator's RPI setting to 10 seconds or less.
01	0113	Error code generated by originator or returned from target: Attempted to open more connections than allowed by the specifications (CJ2M-EIP21: 32, other CPU Units: 256).	Check the connection settings (number of connections) at the originator and target.	Check the connection settings (number of connections) at the originator and target. Check the connection specifications for another company's devices.	Check the connection settings (number of connections) at the originator and target. Check the connection specifications for another company's devices.
01	0114	Error code returned from target: The Vendor ID and Product Code did not match when opening connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.) Confirm that the target device's EDS file is correct.	Check the originator's connection settings.
01	0115	Error code returned from target: The Product Type did not match when opening connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.) Confirm that the target device's EDS file is correct.	Check the originator's connection settings.
01	0116	Error code returned from target: The Major/Minor Revisions did not match when opening connection.	Check the major and minor revisions set for the target device and connection. If necessary, obtain the EDS file and set it again.	Depends on the target's specifications. (Contact the target device's manufacturer.) Confirm that the target device's EDS file is correct.	Check the originator's connection settings.
01	0117	Error code returned from target: The tag set specified in the connection's target variables does not exist.	Check whether the originator and target tag sets and tags are set correctly. CJ2 CPU Units Only: Check symbol settings in the CPU Unit.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Check the originator's connection settings. Check whether the target's tag sets and tags are set correctly. CJ2 CPU Units Only: Check symbol settings in the CPU Unit.

Connection status		Source of error	Handling		
General Status (hex)	Additional Status (hex)		Configuration 1	Configuration 2	Configuration 3
01	011A	Error code returned from originator: Connection could not be established because the buffer was full due to high traffic.	An unexpected network load may have been received. Use the Network Configurator Device Monitor or the Ethernet Tab Page to check the bandwidth usage, and correct the load. If there are places where broadcast storms occur, such as loop connections in the network connection format, then correct them.	An unexpected network load may have been received. Use the Network Configurator Device Monitor or the Ethernet Tab Page to check the bandwidth usage, and correct the load. If there are places where broadcast storms occur, such as loop connections in the network connection format, then correct them.	Follow the operating specifications for the originator. (Consult the originator manufacturer.)
01	011B	Error code returned from target: The RPI was set to a value that is below the specifications.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Set the originator's RPI setting to 0.5 ms or greater.
01	0203	Error code returned from target: The connection timed out.	Tag data link communications from the target timed out. Check the power supply and cable wiring of the devices in the communications path, including the target and switches. If performance has dropped due to heavy load, change the performance settings. For example, increase the timeout time or RPI setting.		
01	0204	Error code returned from target: The connection-opening process timed out.	There was no response from the target. Check the power supply and cable wiring of the devices in the communications path, including the target and switches.		
01	0205	Error code returned from target: There was a parameter error in the frame used to open the connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
01	0302	Error occurred at originator or error code returned from target: The tag data link's allowable bandwidth (pps) was exceeded.	Check the originator and target connection settings (number of connections and RPI).	Check the target's connection settings (number of connections and RPI).	Check the originator and target connection settings (number of connections and RPI).
01	0311	Error code returned from target: There was a parameter error in the frame used to open the connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
01	0312	Error code returned from target: There was a parameter error in the frame used to open the connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
01	0315	Error code returned from target: There was a parameter error in the frame used to open the connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)

Connection status		Source of error	Handling		
General Status (hex)	Additional Status (hex)		Configuration 1	Configuration 2	Configuration 3
01	0316	Error code returned from target: There was a parameter error in the frame used to close the connection.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
01	031C	Error code generated in originator: Some other error occurred.	This error does not occur.	The originator generates this code when an unsupported response code is returned from the target in reply to a connection-opening request.	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
08	---	Error code returned from target: There is no Forward Open or Large Forward Open service in the target device.	This error does not occur.	Depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
D0	0001	Error code generated in originator: The connection operation is stopped.	The connection was stopped because the Tag Data Link Stop Bit was turned ON, or the settings data is being downloaded. Either turn ON the Tag Data Link Start Bit, or wait until the settings data has been downloaded. Includes Controller stop errors, Unit failure, and EM bank files at the refresh destination. To handle these errors, refer to *14-2-1Errors Occurring at the EtherNet/IP Unit or built-in EtherNet/IP port*.	The meaning of this error code is defined by each vendor, so it depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)
D0	0002	Error code generated in originator: The connection is being opened (opening processing in progress).	Wait until the opening processing is completed.	The meaning of this error code is defined by each vendor, so it depends on the target's specifications. (Contact the target device's manufacturer.)	Depends on the originator's specifications. (Contact the originator device's manufacturer.)

Connection status		Source of error	Handling		
General Status (hex)	Additional Status (hex)		Configuration 1	Configuration 2	Configuration 3
Unique OMRON Error Codes					
01	0810	Error code returned from target: New data could not be obtained from the CPU Unit when opening connection. (The Unit will automatically retry, and attempt to open the connection again.)	This error may occur if the CPU Unit's cycle time was long when opening the connection, the specified EM bank was converted to file memory, or some problem in the PLC caused the PLC to stop. If the cycle time was too long, the problem will be resolved automatically. If the EM bank is set as file memory, change the storage location for the tag data. If the PLC has stopped, identify and correct the error. If the PLC system is stopped, identify the cause of the error from the CPU Unit error data.	The meaning of this error code is defined by each vendor, so it depends on the target's specifications. (Contact the target device's manufacturer.)	The meaning of this error code is defined by each vendor, so it depends on the originator's specifications. (Contact the originator device's manufacturer.)
01	0811	Error code generated in originator: New data could not be obtained from the CPU Unit when opening connection. (The Unit will automatically retry, and attempt to open the connection again.)	This error may occur if the CPU Unit's cycle time was long when opening the connection, or the specified EM bank was converted to file memory. If the cycle time was too long, the problem will be resolved automatically. If the EM bank is set as file memory, change the storage location for the tag data.	The meaning of this error code is defined by each vendor, so it depends on the target's specifications. (Contact the target device's manufacturer.)	The meaning of this error code is defined by each vendor, so it depends on the originator's specifications. (Contact the originator device's manufacturer.)