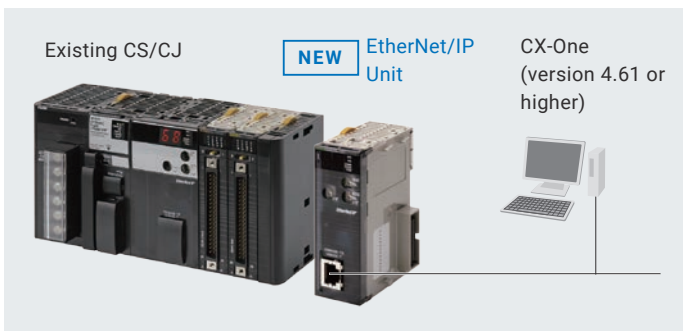# EtherNet/IP™ unit with enhanced network security improves machine reliability

Strengthen security of existing machine with advanced EtherNet/IP unit

The security of your existing machine using CS or CJ can be improved simply by replacing the existing EtherNet/IP unit or adding an advanced one.

Existing CS/CJ   NEW EtherNet/IP Unit   CX-One (version 4.61 or higher)

EtherNet/IP®

CS1W-EIP21S   CJ1W-EIP21S

A variety of security functions for secure network connections

Various security functions protect programs and data stored in your existing machine from unauthorized access via the network.
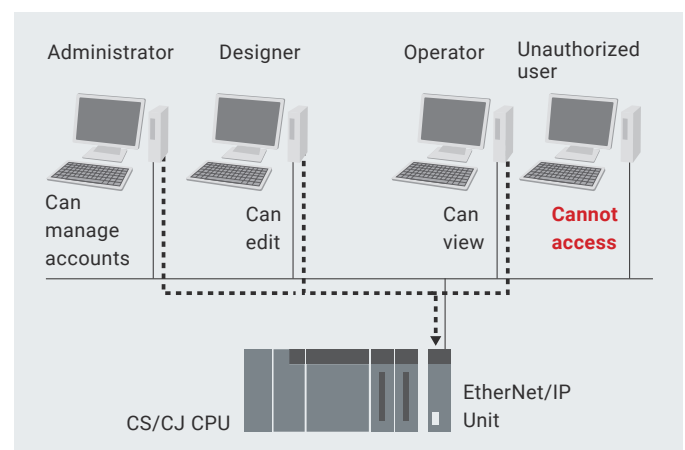
Secure Communications

Secure Communications encrypts communications to access the CPU unit from support software via Ethernet, improving the security performance of the system.

CX-One

Unauthorized access

Encrypted secure communications
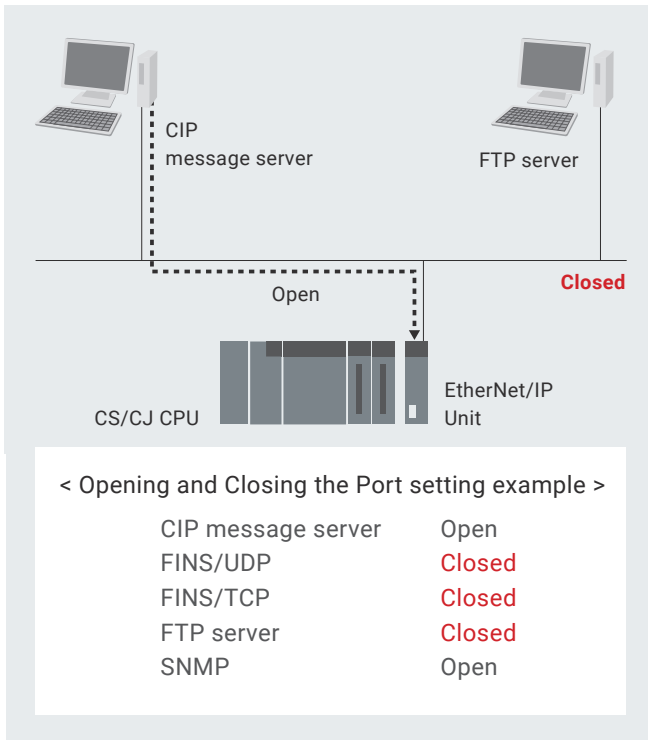
CS/CJ CPU   EtherNet/IP Unit
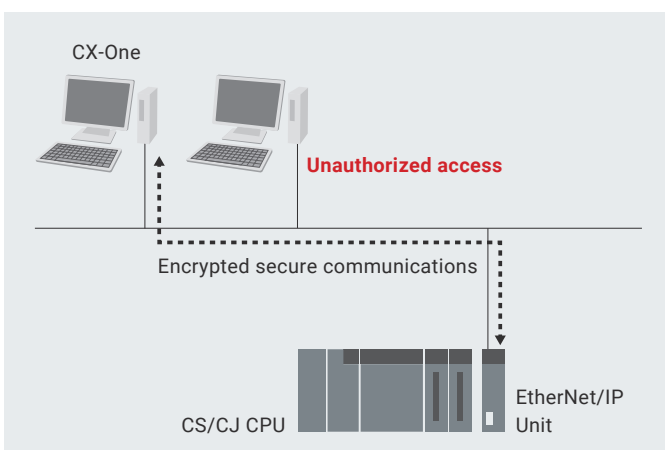
User Authentication

User Authentication permits only the specified users to perform online operations from support software and restricts the online operations based on the operation authority. This enhances system security.

Administrator   Designer   Operator   Unauthorized user

Can manage accounts   Can edit   Can view   **Cannot access**

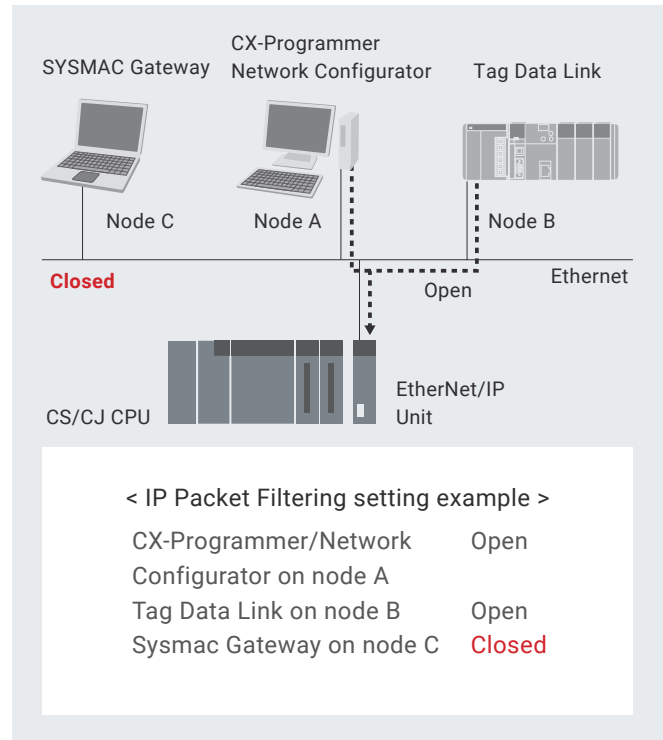CS/CJ CPU   EtherNet/IP Unit

Opening and Closing the Port

Opening and Closing the Port is a function that blocks and unblocks access to TCP and UDP ports assigned to individual communications functions. Blocking unused communications functions mitigates the risks of external attacks.

< Opening and Closing the Port setting example >

CIP message server	Open
FINS/UDP	Closed
FINS/TCP	Closed
FTP server	Closed
SNMP	Open

IP Packet Filtering

IP Packet Filtering selectively permits IP packets that EtherNet/IP ports receive to pass through the filter according to the preset conditions. This improves the system's security performance.

< IP Packet Filtering setting example >

CX-Programmer/Network Configurator on node A	Open
Tag Data Link on node B	Open
Sysmac Gateway on node C	Closed

Ordering Information

Unit type	Product name	Specifications	Model
CJ1 CPU Bus Unit	EtherNet/IP Unit	Tag data link functions Message communications functions Socket service functions	CJ1W-EIP21S
CS1 CPU Bus Unit			CS1W-EIP21S

Note: 1. The CJ1W-EIP21S and CJ1W-EIP21S require the CX-One version 4.61 or higher.

Applicable CPU Units

EtherNet/IP Units	Applicable CPU Units
CJ1W-EIP21S	CJ2H-CPU ☐☐ , CJ2H-CPU ☐☐ -EIP, CJ2M-CPU ☐☐ , CJ1G-CPU4 ☐ P *1
CS1W-EIP21S	CS1G-CPU ☐☐ H, CS1H-CPU ☐☐ H, CS1D-CPU ☐☐ HA/H, CS1D-CPU ☐☐ SA/S, CS1D-CPU ☐☐ P

*1. NJ-series CPU Unit: Coming soon.

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The product photographs and figures that are used in this catalog may vary somewhat from the actual products.

Note: Do not use this document to operate the Unit.

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