

Industrial Communication Creator (ICC)

Industrial Communication Creator (ICC) is an NXP software tool for designing, configuring and managing Industrial Ethernet communication in automation systems.

ICC simplifies configuration of protocols such as PROFINET®, EtherNet/IP™, EtherCAT® and others, including device models and connection and object dictionaries.

Using a unified configuration environment with protocol-specific plug-ins, developers can rapidly create industrial communication solutions based on NXP protocol stacks while working within a single tool.

Industrial ethernet protocol support

- PROFINET
- EtherNet/IP
- EtherCAT
- Modbus TCP/IP
- CANopen
- CC-Link IE TSN*
- CC-Link IE field basic*

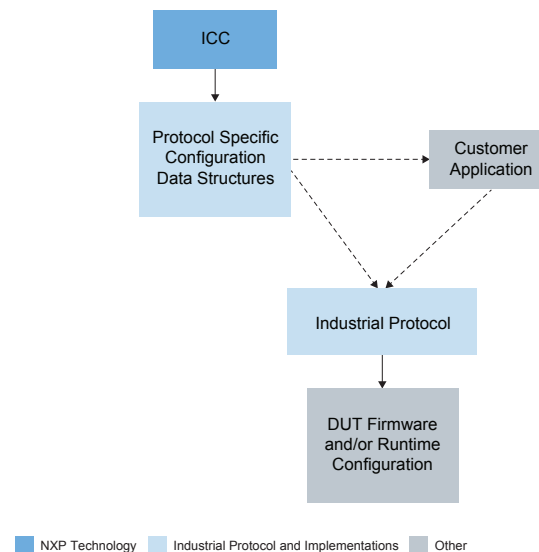
*Coming soon

Tool capabilities

- Generates stack configuration files
- Creates software model definitions (slots, modules, connections, object dictionaries, lines)
- Generates device description files (GSDML, EDS, ESI, CSP+)
- Provides guided configuration assistance
- Detects common configuration errors
- Step-by-step configuration workflow through a task list

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ICC product development block diagram



Cross-platform compatibility

Available for Windows® and Linux®

Getting started with ICC

1. Download the [Industrial communication creator evaluation tool](#)
2. Access the [Industrial networking protocols knowledge base](#) on the NXP Community for installation and usage instructions

Additional resources

1. [i.MX RT1180 evaluation kit](#)
2. [NXP support and technical community](#)