

ControlNet Router

(Enhanced)

Firmware Revision v1.001.010+

Release Notes

A-CNR

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Firmware Revision 1.001.016

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1. PREFACE

1.1. COMPATIBILITY

Firmware revision 1.001.016 of the ControlNet Router will require the following compatible versions:

Software	Version
Slate	1.078 and later

1.2. NOTES

The following should be noted:

- Firmware upgrades will be done using Aparian's Slate software.
- Aparian flash files have an *.afb* extension.
- Slate can also be used to set the initial network parameters using its DHCP server.
- Should any interruptions cause the module to not complete the firmware upgrade the module will return to Safe Mode. The user can then re-flash the module with the application firmware. See the user manual for more information regarding Safe Mode.

1.3. ADDITIONAL INFORMATION

The following resources contain additional information that can assist the user with the module installation and operation.

Resource	Link
Slate Installation	http://www.aparian.com/software/slate
ControlNet Router User Manual ControlNet Router Datasheet Example Code & UDTs	http://www.aparian.com/products/controlnetrouter
Ethernet wiring standard	www.cisco.com/c/en/us/td/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig/Connectors.html
CIP Routing ControlNet	The CIP Networks Library, Volume 1, Appendix C:Data Management http://www.odva.org
ControlNet Cabling	ControlNet Coax Media Planning and Installation Guide https://literature.rockwellautomation.com/idc/groups/literature/documents/in/cnet-in002_-en-p.pdf

1.4. SUPPORT

Technical support will be provided via the Web (in the form of user manuals, FAQ, datasheets etc.) to assist with installation, operation, and diagnostics.

For additional support the user can use either of the following:

Contact Us web link	www.aparian.com/contact-us
Support email	support@aparian.com

2. IMPROVEMENTS

The following updates are included in this firmware revision.

Revision	Improvement	Description
1.001.016	None	-
1.001.014	Bridge Mode	Added bridge mode that must be used with the A-CNR AOP in Logix. This will allow the user to connect and configure ControlNet IO under the A-CNR AOP in Logix.
	Soft Schedule	Added Soft Schedule which allows up to 30 x Scheduled ControlNet Connections to be running (when operating as a ControlNet Originator) using software packet triggers. Current Hard Schedule (which is hardware trigger based) still supports 10 x Scheduled Connections.
	Unscheduled Cyclic Packets	Support processing of Unscheduled Cyclic packets.
1.001.013	EIP Class 1 Connection	Increased the EIP Class 1 Originator connection count to 16 from 10.
1.001.011	General	Non-application specific update.

3. ANOMALIES FIXED

The following anomalies have been fixed in this firmware revision.

Revision	Anomaly	Description
1.001.016	CNet Peer to Peer Connection	Fixed anomaly that caused the Peer-to-peer Scheduled ControlNet connection to time out.
1.001.015	Tag Read Length	When using Logix Tag Read, fixed the issue with the length being used.

	CNet Peer to Peer Connection	The newer versions of Logix uses Peer-to-peer Scheduled ControlNet communication when using the Generic Profile in Logix. The A-CNR was updated to correctly support this.
1.001.014	Mapping	Fixed issue which could cause a faulty startup when EIP Originator or Modbus Client has been configured without any mapping items.
1.001.012	Keeper Scheduling	Resolved anomaly that could cause the local CNR's scheduled connections to become unscheduled when the local CNR makes a network change as a Keeper.
	ACK overflow	Resolved anomaly which could cause a flood of ACK messages to be sent between two CNR modules.

4. KNOWN ANOMALIES

The following known anomalies exist in this firmware revision.

Revision	Anomaly	Description
1.001.016	None	-