



ETH-100 V2.100 Firmware Update Release Notes

- 1. Upgrading to V2.100 will reset the unit's IP address, subnet mask, and default gateway values to the factory default values:**

IP Address:.....192.168.16.100
Subnet Mask:.....255.255.255.0
Default Gateway:.....192.168.16.2

The serial console or new ARP method of configuration must then be used to reconfigure these values for the desired network settings. Refer to the "Initial Configuration" section of the user's manual for more details.

- 2. Rabbit Field Utility (RFU) V2.40 or later must be used to upgrade to V2.100 ETH-100 firmware. The latest RFU version is available for download at ICC's website <http://www.iccdesigns.com>.**
- 3. Due to a major point database upgrade, the current point database is not compatible with the previous (V2.000 firmware) point database. All previous point configuration information will be lost upon upgrade. Therefore, be sure to manually record any existing point definitions, as they will need to be re-entered by hand after the upgrade.**
- 4. Point files downloaded to a PC with previous (V2.000) firmware are incompatible and cannot be uploaded to a unit running V2.100 firmware.**

1. Point Database Upgrade

- ▶ The internal point database has been upgraded, allowing more configuration possibilities, but making it incompatible with the previous point database implemented in V2.000 firmware.

2. Embedded Web Server

- ▶ The Macromedia Flash-enabled embedded web server has been consolidated to one page for overall clarity. This release also adopts the "parent/child" hierarchy format used by all of ICC's Network Gateway Series of products. This change provides forward configuration compatibility with future Ethernet-enabled products and protocols.

3. Modbus Performance Improvement

- ▶ The Modbus TCP/IP protocol stack has been modified for enhanced performance and efficiency.

4. Coil Support

- ▶ Support for coils has been added. Modbus function codes 1 (read coils), 5 (write coil) and 15 (force multiple coils) have been added. Coils are mapped to discrete bits in Modbus holding registers (from 1 to 4096).

5. ICMP (ARP) Initial Configuration

- ▶ Rather than having to connect the unit's MMI port to a computer's serial port and using the serial console for initial configuration, the unit now supports an ICMP (ARP or "ping") method of configuration. This allows the unit to be connected directly to an Ethernet network without previous configuration, and then remotely modifying the unit's IP address.

6. Network Timeout Processing

- ▶ The concept of a "master" client device has been established, along with a user-configurable timeout time (0.5s-30.0s). Each point defined in the new point database also has the option to contain a timeout data value, which can be autonomously written to the associated ASD parameter upon unexpected loss of the "master" client.

Refer to the ETH-100's user's manual for more information. The most recent version of the user's manual is included in the V2.100 board support package (BSP), and can also be obtained at <http://www.iccdesigns.com>.