

PowerLogic™ ION8650 firmware V4.40.1

PowerLogic™ ION8650 firmware version V4.40.1 contains a number of new features and changes that are designed to help improve the security of your meter.

We highly recommend that you upgrade your firmware to this version.

This document lists the new, removed, and replaced functionality in firmware V4.40.1, as well as information on how your ION8650 meter will be affected if you downgrade from firmware V4.40.1.

Additional information and resources

Visit www.se.com to download:

- The firmware upgrade files.
- The latest template files.
- The latest version of ION Setup to support the new features. In ION Setup, you can also click **Help > Check for Updates**.
- The latest user manual, datasheets, and installation guides.

New functionality

This section lists the new functionality that is added to your meter after you upgrade to V4.40.1

Secure protocols

SSH and SFTP protocols are supported. As a result, the following ION registers were added:

Module	New register	Default value
Comm Module – Ethernet	SFTP and SSH Port Number	22
Comm Module – Ethernet	Enable SSH terminal	No
Comm Module – Ethernet	Enable SFTP	Yes
Security Options Module	SFTP and SSH Lock Attempts	8

NOTE: SSH and SFTP will inherit their configuration from Telnet and FTP respectively.

Encrypted password storage

The meter stores user passwords as SHA256 hashes on the embedded flash. All existing passwords are hashed.

Removed or replaced functionality

This section lists the changes that are made to your meter after you upgrade to V4.40.1.

Web server

Web server is disabled by default. If web server was enabled prior to upgrading, use ION Setup to re-enable web server.

Security mode

The no security mode was removed. If your meter had no security prior to V4.40.1, after upgrading, the meter will be in Standard security mode with a default password of 0.

Telnet and FTP

Telnet and FTP protocols are no longer supported. As a result, the following ION registers were removed:

Module	New register
Comm Module – Ethernet	FTP Port number
Comm Module – Ethernet	Enable FTP
Comm Module – Ethernet	Telnet Port number
Comm Module – Ethernet	Enable Telnet
Security Options Module	FTP Lock Attempts
Security Options Module	Telnet Lock Attempts

HTTP protocol is read-only

All web data will be read-only. Web login and web configuration over HTTP was removed. As a result, the following registers were removed:

Module	New register
Security Options Module	Web Access Read Security
Security Options Module	HTTP Lock Attempts
Security Options Module	HTTP Silence Minutes
Comm Module – Ethernet	Webserver Config Access

Downgrading from V4.40.1

Although not recommended, if you have to downgrade from V4.40.1, the following features are affected:

- Security mode is retained, and the password is reset to 0.
- Telnet and FTP will be initialized as disabled.
- The HTTP protocol registers are set to the following defaults:

Module	Register	Default (on downgrade)
Security Options Module	Web Access Read Security	Yes
Security Options Module	HTTP Lock Attempts	8
Security Options Module	HTTP Silence Minutes	30
Comm Module – Ethernet	Webserver Config Access	Disabled