
Liebert® IntelliSlot™ Unity Card
Version 7.1.0.0_00044 Firmware
Release Notes
March 23rd, 2018

This document outlines:

1. Version and Compatibility Information
2. What's New
3. Security Issues Addressed
4. Upgrade Instructions
5. Known Issues

1. Version and Compatibility

This release contains the following firmware version:

IS-UNITY_7.1.0.0_00044

This release is compatible with the following Liebert IntelliSlot communication cards:

IS-UNITY-DP
IS-UNITY-LIFE
IS-UNITY-SNMP

This release is compatible with the following power and thermal management equipment:

Alber BDSU-50™	Liebert GXT3™ / GXT4™
Liebert APM™	Liebert HPC™
Liebert APS™	Liebert HPC™-S,M,R,W,Generic
Liebert CRV™	Liebert HPM™
Liebert CW™*	Liebert ITA2™/EXS™
Liebert Challenger™*	Liebert Mini-Mate 3
Liebert Deluxe System/3™*	Liebert NX™ 225-600kVA
Liebert DCL™	Liebert NXC™
Liebert DCP™	Liebert NXL™
Liebert DP400™	Liebert NXR™
Liebert DS™*	Liebert PCW™
Liebert DSE™	Liebert PDX™
Liebert EPM™	Liebert PeX™*
Liebert EXC™	Liebert PPC™
Liebert eXL™	Liebert RDC™
Liebert EXL S1™	Liebert RX™
Liebert eXM™	Liebert STS2™
Liebert FDC™	Liebert XDC™ with iCOM™ Control
Liebert FPC™	

*iCOM Firmware PA1.04.033.STD versions or later

This release is compatible with the following sensors:

Liebert SN-2D	Liebert SN-T	Liebert SN-Z02
Liebert SN-3C	Liebert SN-TH	Liebert SN-Z03
Liebert SN-L	Liebert SN-Z01	

This release supports the following features:

Communication Card	LIFE™ Services Support	Sensor Support	Communication Protocol							
			HTTP/HTTPS	Velocity Protocol	Email	SMS	Third-Party Protocols			
							SNMP v1,v2c,v3	BACnet IP/MSTP	Modbus TCP/RTU	YDN23
IS-UNITY-DP	✓	✓	✓	✓	✓	✓	✓	✓	✓	NXL & PeX Only
IS-UNITY-LIFE	✓	✓	✓	✓	✓	✓	-	-	-	-
IS-UNITY-SNMP	✓	-	✓	✓	✓	✓	✓	-	-	-
Sensor Support			✓	✓	✓	✓	✓	-	-	-

This release supports the following browsers:

- Microsoft Internet Explorer® - IE9, IE10, IE11, Edge
- Mozilla Firefox® - ver. 57.0.1 or later
- Google Chrome™ - ver. 63.0 or later
- Safari® (MacBook®) - ver. 8.0.5
- Safari® (iPad®) - ver. 7.1

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2. What's New

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This release contains the following enhancements:

- Configuration Import / Export
 - Manual import / export is supported via the web UI. and programmatically using HTTP (specification is available).
 - Mass (programmatic) import / export is supported the web UI and programmatically using HTTP (specification is available).
- Remote Authentication
 - LDAP
 - RADIUS
 - TACACS+
 - Kerberos

- Support for new Devices
 - Liebert DP400
 - Liebert ITA2
 - Liebert STS2

- EXL S1 legacy modbus mapping (40xxx) support Input/Bypass/Output voltages.
- BACNet COV persistence.

The following issues were addressed in this release:

- If the administer User Name = "admin" was used prior to upgrading to Version 7.0.0.0, the user would be no longer have write access to the card. Reset to factory default was required to restore write access to the card.

- If a user upgraded to version 7.0.0.0 and never changed the default administrator credentials in cards that were originally shipped with version 5.0.0.0 or earlier, the Users entries would become corrupted. Reset to factory default was required to restore write access to the card.

- The card could fail to write admin credentials to the file system following a restart. Hard restart of the card (remove and restore power) was required to regain access.

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3. Security Issues Addressed

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The following highly publicized security vulnerabilities have already been addressed in a previous release:

Name	Description
"ShellShock"	Updated <i>bash</i> version to fix this in release 4.2
"Poodle"	SSLv3 was disabled in release 5.0
Cross-Scripting	Cross-Scripting entries via the Web user Interface were restricted in release 5.1
"Clickjacking"	Resolved in the 6.2 release.
"Beast" and "Logjam"	The "Beast" and "Logjam" vulnerabilities have been addressed in the 6.3 release.
TLS 1.0 access	TLS 1.0 has been disabled so only newer versions are used. This was addressed in the 6.3 release.
"Sweet 32 Birthday Attack"	Vulnerability Birthday attacks against TLS ciphers with 64bit block size vulnerability (Sweet32) resolved in the 7.0 release.

4. Update Instructions

The Unity cards may be updated to this firmware version using the web-based Firmware Upload feature. Please refer to the Firmware Updates section of the [Liebert IntelliSlot Unity Card User Manual \(SL-52645\)](#).

5. Known Issues

Component	Description
Device Settings	When temperature settings are made on some thermal devices, there may be some 'round-off' error of one tenth of a degree between what was requested and what the device shows after the change. This is a known limitation of some thermal device firmware versions and will be corrected in future versions of the device controller firmware.
Liebert GXT3/4 UPS Support	The IP address of the Unity card may be displayed on the local display of the Liebert GXT4 UPS unit. The IP address is pushed to the GXT4 when the card starts up. If the address changes (for example, if it is changed by the DHCP server when the DHCP lease runs out), the local GXT4 display will continue to show the old address until the card is restarted. While the SNMP OIDS for the GXT are backward compatible with those from the IS-WEBCARD, the text values in some SNMP varbinds and email/SMS notifications have changed slightly to use the Unity card equivalent.
Sensor Support	The preferred way to change the display order for multiple sensors is through the Web user interface. If the order is changed using one of the supported protocols then the entire list of sensors should be set in the correct order (including slots that should become blank) to ensure all sensors are still included.
SNMP	SNMP <i>getnext</i> requests may fail on some tables if there are multiple varbinds in the request. If this occurs, use single-varbind requests.