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# Liebert® IntelliSlot™ Unity Card

## Version 7.8.0.0\_00083 Firmware

### Release Notes

### December 20<sup>th</sup>, 2019

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This document outlines:

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

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## 1. Version and Compatibility

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This release contains the following firmware version:

IS-UNITY\_7.8.0.0\_00083

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

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

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

Alber BDSU-50™	Liebert HPM™
Liebert APM™	Liebert ITA2™/EXS™
Liebert APS™	Liebert Mini-Mate
Liebert CRV™	Liebert NX™ 225-600kVA
Liebert CW™*	Liebert NXC™
Liebert Challenger™*	Liebert NXL™
Liebert Deluxe System/3™*	Liebert NXR™
Liebert DCL™	Liebert PCW™
Liebert DCP™	Liebert PDX™
Liebert DP400™	Liebert PeX™*
Liebert DS™*	Liebert PPC™
Liebert DSE™	Liebert PSI5™
Liebert EPM™	Vertiv Edge™
Liebert EXC™	Liebert RDC™
Liebert eXL™	Liebert RX™
Liebert EXL S1™	Liebert STS2™
Liebert eXM™	Liebert XDC™ with iCOM™ Control
Liebert FDC™	Liebert XDP™ with iCOM™ Control
Liebert FPC™	Liebert XDP™-Cray
Liebert GXE2™	Liebert XDU™
Liebert GXT3™ / GXT4™	
Liebert HPC™-S,M,R,W,Generic	

\*iCOM Firmware PA1.04.033.STD versions or later

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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, EXS S1 & PeX
IS-UNITY-LIFE	✓	✓	✓	✓	✓	✓	-	-	-	-
IS-UNITY-SNMP	✓	-	✓	✓	✓	✓	✓	-	-	-
Sensor Support			✓	✓	✓	✓	✓	-	-	-

This release supports the following browsers:

- Microsoft Internet Explorer® - IE10, IE11, Edge
- Mozilla Firefox® - ver. 71.0.1 or later
- Google Chrome™ – ver. 72.0.3 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, updates and corrections:

- Vertiv Edge *initial release*
- CRV10/PACC
- EXL
- iCOM PA XDU
- EXS Frame 2/3

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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 <b>bash</b> 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
CVE-2016-0734 "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.
TLS 1.1 access	TLS 1.1 has been disabled. TLS 1.2 is the minimum version used. This was addressed in the 7.6 release.
CVE-2004-0583 Lack of Account Lockout	This vulnerability could allow a brute force ID/Password attack. This was addressed in the 7.8 release.
California IoT Security Law; SB-327	User must now configure unique administrator credential to access the card. This was addressed in the 7.8 release.

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### 4. Update Instructions

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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 \(SL-52645\)](#).

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## 5. Known Issues

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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	<p>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.</p> <p>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.</p>
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.
Firmware Update	When using the Microsoft Edge browser to upgrade firmware from a 7.5.0.0 or 7.5.1.0 to another release, the web page will become blank and display an authorization error. To recover, enter the IP address of the card followed by <Enter> after the firmware upgrade completes (this typically takes 5 – 6 minutes).
Firmware Update	An update from version 4.3 or older will fail when updating to the v7.7 release or newer. An intermediated (two step) process is required - update to V7.6, then update to v7.7 or newer. Please contact Monitoring Application support to obtain the 7.6 firmware version.