Matthews MPERIA 6.3.x

Release Notes

1   New Features and improvements

1.1   Improved print quality for L-series

The print quality for L-series printing has been improved. The single channel setting is no longer required and has been removed. Support for upcoming new high performance cartridges has been added.

1.2   Built-in VNC client in the Creator

The Creator now has a built-in VNC client to connect and control an MPERIA remotely.

1.3   User level override improvements

When overriding the user level temporarily, the password needs only be entered once and remains valid for a few minutes (or until reset by use user).

1.4   Print performance notifications

The user will be notified of any print performance issues, such as if the line speed is too high for the print head, or if the margin and/or distance is too small for the current print speed.

1.5   Network traffic recorder

The controller has a built-in network traffic recorder that can be used to record network traffic to MPERIA to help with network and protocol troubleshooting. The recorder is off by default. The network traffic is recorded to a USB drive, and a PC must be used to analyze the recording.

1.6   GS1-Databar Expanded and GS1-Databar Expanded Stacked

Support has been added for GS1-Databar Expanded and GS1-Databar Expanded Stacked barcodes.

1.7   Improved touch screen responsiveness and calibration

The touch screen is more stable and responsive, and the calibration has been simplified.

1.8   Improved preview quality

The quality of the preview has been improved.

1.9   Improved encoder accuracy (4X)

MPERIA will internally upscale the encoder accuracy in Quad mode up to four times, which improves print quality especially when used with low resolution encoders.

1.10 Crash notification

If MPERIA crashes, it will create a diagnostics report and restart. A message will now be displayed informing the user of the restart, which will make troubleshooting easier. Certain errors caused by plugins are also detected.

1.11 Better default dot size for V-series

The default dot size for some print heads has been modified for better print performance.

1.12 L-series ink selection moved to the Basic tab

The ink selection for L-series Markers has been moved from the Advanced tab to the Basic tab.

1.13 I/O rule when a V-LINK is in cleaner mode

It is now possible to create an I/O rule to set an output when a V-LINK is in cleaner mode.

2 Plugin and protocol improvements

2.1 Composite plugin support

Simple plugins are contained in a single Lua file. With the introduction of composite plugins, the plugin can be a large collection of Lua and other files, such as images and databases. This makes development of large plugins much easier. See the Lua Plugin Manual for more information about composite plugins.

2.2 Backup to USB from plugins and Command Protocol

Support has been added to initiate a backup to USB from plugins and the Command Protocol.

2.3 Software update via XML protocol

The MPERIA software can now be updated via the XML protocol, allowing system integrators to update the software without user intervention.

2.4 Set user level from plugins, XML, and Command Protocol

The user level can be set from plugins as well as the XML and Command Protocol.

2.5 Stop/start auto-flush from plugins, XML, and Command Protocol

Automatic flushing can be stopped and started from plugins as well as the XML and Command Protocol.

2.6   Plugin message selection improvements

Plugin message selection can now show the message selection dialog.

2.7   I/O visibility and control in MPERIA and the simulator

The current state of inputs are displayed in the I/O configuration window. The PTM simulator displays the current state of inputs and the user can set the output states.

2.8   Improved plugin API for counters

Advanced counter features are now accessible to plugins.

3   Updated Documents

- Command Protocol Manual 6.3.x

- Lua Plugin Manual 6.3.x

- XML Specification 6.3.x

4   Bug Fixes

4.1   Fixed bugs in 6.2.0

- Plugin function mperia.set_overview_text() causes crash

- Print queue reset by Pause/Resume

- Plugin function mperia.del_all_position_events() crash

- Incorrect max width when creating rotated labels for Evolabel

- Incorrect scary DISK WRITE ERROR when plugins leak file descriptors

- XML protocol getPrintCount/resetPrintCount doesn't use Installation's folder

- USB stops working if the new MPERIA Lite is booted with certain USB drives plugged in

- Restart loop if the GUI watchdog trips at startup

- Cryptic and incomplete error message when wrong cartridge type is inserted

- DOD cleaner controls AUX1 making it useless as a generic output

- Several minor bugs were also fixed

4.2   Fixed bugs in 6.3.1

Skipped version.

4.3   Fixed bugs in 6.3.2

- It wasn't possible to reconfigure cleaner PWM/boost with T-series in use. [MPERIASW-2154]

- Improved default cleaner PWM for T50E/T100E. [MPERIASW-2156]

- Serial port plugin were restarted when the serial port was selected in the Protocols configuration window. [MPERIASW-2155]

- Fixed VNC client bugs:

  - The Creator crashed if the Disconnect button was clicked when there were no VNC connections. [MPERIASW-2159]

  - When connecting to a new VNC client in the Creator, the newly created tab wasn't selected. [MPERIASW-2161]

  - Black screen when connecting to a VNC server [MPERIASW-2162]

- The PTM did not clear all output signals when the connection to the MPERIA controller was lost. [MPERIASW-2160]

4.4   Fixed bugs in 6.3.3

- The horizontal resolution setting was reset when updating to 6.3.x from a previous version. Most notably, T-series print heads reset to 64 DPI. [MPERIASW-2163]

- After restoring a backup in the simulator, a warning is displayed about an unknown start reason. [MPERIASW-2164]

4.5   Fixed bugs in 6.3.4

- The V-LINK skipped printing parts of messages when the horizontal spacing was below a certain value, and the print head was tilted. [MPERIASW-2176]

- If a V-LINK message had a horizontal spacing override, it wasn't possible to set the horizontal spacing anymore. [MPERIASW-2175]

- When connecting to a VNC server that didn't respond, the controlled crashed. [MPERIASW-2167]

- The V-LINK didn't always report missing dots caused by overspeed or underrung in the statistics. [MPERIASW-2177]

- Clearing overspeed/underrun statistics didn't clear the overspeed/underrun errors, so the Troubleshooting button is still active. [MPERIASW-2178]

- Improved German translations.

4.6 Fixed bugs in 6.3.5

- Horizontal resolution (DPI) changes when updating to 6.3.x from previous versions. [MPERIASW-2182]

- Ink bleeding compensation was not compatible with previous software versions. [MPERIASW-2181]

- VNC connection closes after 5 seconds of inactivity. [MPERIASW-2180]

4.7 Fixed bugs in 6.3.6

- Barcode preview shows incorrect pixels when scaled down. [MPERIASW-2185]

- Ink consumption calculation is wrong on L25 and L50. [MPERIASW-2207]

4.8 Fixed bugs in 6.3.7

- Improved L-LINK and L-Series cartridge handling:

  - Reduced risk of false over-current alarms.

  - Reduced risk of false broken cartridge alarms.

  - Improved overheat protection. This prevents damage to cartridges that can lead to bad print quality, overheating, and broken cartridges.

- Fixed an issue that caused Installations to halt unexpectedly under certain loads. ("Stream error 0x2" was listed in the log.)

- Reduce the severity of overspeed and overtemp warnings. In case of warnings, the installations stay green, but a blue button is displayed on the Installation. As before, warnings are always logged.

- Fixed text width and spacing attributes when the horizontal DPI is different from the vertical DPI.

- Fixed horizontal resolution message overrides not working for messages created using an earlier version of MPERIA.

- Fixed severe speed error if the fixed speed was set to less than 0.1 meter per minute.

- Fixed crash when trying to drag an object when in insertion mode in the editor.

- Updated French translations.

4.9 Fixed bugs in 6.3.8

- Improved L-LINK/L-Series cartridge handling:

  - A precise ink level in maintained when moving a cartridge between cartridge holders within a single MPERIA system.

  - Improved yield of LS-6023 cartridges.

- Fixed L-LINK/L-series idle decap not working if set to more than 600 seconds.

- Include version number in MPERIA Simulator on Windows start menu