Milan / Paylink Firmware Version 4.1.12.5 Release Notice.

This is a **Full** (4) release of the Milan / Paylink Interface firmware - code version **1.12.5**. The release provides the first support for Paylink Lite 2, has a major rewrite for the F56 and BCR / CR01x protocols, fixes some minor bugs and adds the Innovative SmartHopper to the supported peripherals.

PC code versions.

To obtain all of the new facilities / fixes described in this release document the following PC/Windows versions are required:

Aesimhei.dll	Version 1.5.4.0 or later
Aesimhei.h	Dated 15 Feb 2013 or later (for 1.12.5 Device Constants)
Paylink.exe	Version 4.1.12.5 (For windows, this replaces AESxDriver)

Paylink Lite 2 Support

This version of the Paylink.exe driver is the first that supports Paylink Lite 2. Note that, for simplicity of low level driver installation, Paylink Lite 2 uses the same USB hardware identity, and so older versions of the Paylink.exe driver will not produce an error message if connected to Paylink Lite 2, but will just hang.

Specific bugs fixed in 4.1.12.5

The following minor bugs have been present in all earlier versions of Paylink:

- The Future Logic Printer driver had a fault in the sequence that was ignored by old printer firmware, but not the latest releases.
- The ccTalk coin driver would ignore coin positions that were set up but did not contain numeric characters (e.g. "TOKEN").
- The NV200 / SmartPayout handler did not handle certain payout failures correctly.
- The Paylink driver would fail in the presences of certain other USB peripherals.
- Following a self test failure from a ccTalk note acceptor, Paylink now issues a reset command to try to clear it.
- The "Error During Payout" status from a SmartPayout is now regarded as ending the payout.
- There was an error in assigning timeout values to multiple MCL hoppers.
- 4.1.12.x "broke" ID-003 barcode reading - this release fixes it.
- MDB Tube level monitoring bugs have been fixed.

BCR / CR01x fixes / improvements in 4.1.12.5

- The maximum coin float level can be set in the configuration file.
- Cope with the CR10x sometimes stopping responding to certain messages.
- Carousel clear is sent to a CR10x 2 seconds after the unit is disabled, if a Payout has not been requested.
- The unit is reported busy while any of the carousel, singulator, payout belt etc. are active.
- Paylink now waits until the unit is not busy before enabling acceptance.
- Paylink now waits for Money In to clear before issuing a payout.
- BCR fault reports are now responded to with a subsystem clear command

F56 / F53 fixes / improvements in 4.1.12.5

- The F56 handler now supports the CDM-4000 dispenser from MFS
- When Paylink pays out multiple note denominations it copes with cassettes being empty.
- Where two cassettes have the same value and the one in use reports empty, Paylink will first try the other one until that runs out.
- Greatly improved setting of Dispenser->Count and accurate continuation of ongoing payouts during recovery after power failures.

CCNet fixes / improvements in 4.1.12.5

- The application can manage the number of notes on a roll by setting and clearing the routing for notes in the acceptor control block.
- Improved power failure processing while accepting notes.
- Note scaling can be provided in the configuration file

- For a B2B60, Paylink can eject notes as they are paid, at the expense of losing the ability to monitor when the individual notes are taken during a single payout.

General improvements in 4.1.12.5

- For large MDB changer payouts, Paylink now send multiple 200 unit requests, rather than multiple 255 unit requests.
- Improved handling of MDB changer power failures during payouts.
- Merkur MD100 note recycler can now have routing changed at run time, by changing the CoinPath fields in the acceptor control block.

New Protocols / Devices / Facilities in 4.1.12.5

Compared to 1.12.4, the following items have changed:

Payout

- The MDB Level 3 payout system is now always used *after* any normal hopper that matches the base value. (Unless the hopper has previously failed.)
- Where two payout devices have the same value, Paylink will first try one that didn't have a problem when a payout was last made.

Configuration

- It is now possible to specify system colours for enabled and disabled acceptors. At present, these are only used to control an Innovative SmartPayout note recycler.
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- For CCNet acceptors you can now configure the scale factor to multiply note values by (the default is 100) and can specify the EJECT keyword to cause the B2B60 not to hold onto the note.
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- It is now possible to configure a Merkur MD100 note recycler and BCR Coin recycler to have a specified maximum float level (the same level on all rolls.)
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- Note that most note devices are controlled during operation by the application changing routing when the roll is "full". This doesn't work for an MD100, which empties its roll when changes are made.

Peripherals

- This release now supports the Innovative SmartHopper running in CC2 (ccTalk) mode. Each separate coin is reported as a different dispenser.

Others

- There are now system configuration entries to specify the colours of programmable note bezels. At present, these are only implemented on the Innovative SmartPayout.

PC Support Software.

There are no *significant* changes to the PC support software associated with this release.

Compatibility with 1.12.x

Applications working with 1.12.3 or 1.12.4, will work unchanged with 1.12.5.

Upgrade / Downgrades

Any earlier version of the firmware can be upgraded to this version without any problems, although information stored on the Paylink (such as totals and keys) will be lost. Downgrading to 1.11.x, 1.10.x will not cause any problems.