

Milan / Paylink Version 4.1.12.16 Release Notice

This is a **full** (4) release of the Milan / Paylink Interface - code version **1.12.16**.

Release **4.1.12.15** was not widely distributed, so this release note covers both the 4.1.12.15 updates and the 4.1.12.16 ones.

The main reason for these releases is support of the new Paylink MDB Lite, but also the release has some improvements and bug fixes over 4.1.12.14.

This release note covers the differences from **4.1.12.14**, people upgrading from earlier versions should read the appropriate release notes for 3.1.12.3, 4.1.12.4, 4.1.12.6, 4.1.12.7, 4.1.12.8, 4.1.12.9, 4.1.12.10, 4.1.12.11, 4.1.12.12, 4.1.12.14

Major Improvements

Paylink MDB Lite

The Paylink driver program included in this release will allow the use of the new Paylink MDB Lite to provide connection to all the supported MDB peripherals.

Note: that the AESCDriver for Linux systems will not handle Paylink MDB Lite units (or Paylink Lite V2)

Paylink Lite Auxiliary Devices

You can now include more than one Paylink Lite devices in a configuration.

If there is a cctalk device, then that is the main unit and any MDB or RS232 units will be expected to be Auxiliary devices.

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Innovative SmartHopper / SmartCoin

Earlier releases of Paylink had a number of bugs and deficiencies, which have all been fixed in this release. In addition SmartCoin is now available as a device name. The handler is almost identical to "SmartHopper with Acceptor" but assumes that the coin count is always accurate, and so will only attempt to pay coins that have been accounted for, greatly speeding up payouts when some coins are empty.

It is recommended that everyone using an Innovative SmartHopper moves onto this release and if using SmartCoin update their configuration to say so.

Dot Net 5.0 and above (6.0 & 8.0)

The SDK now includes preset projects for .NET 6.0 and .NET 8.0 class libraries, with ready to use binaries available in AesImhei.Net 6.0 and AesImhei.Net 8.0.

The DotNetUserGuide.pdf details how to set other frameworks.

Cashless Processing

A new function, CashlessRequestCreditId() has been added to the API. Where the peripheral supports it, this allows a binary number to be included in the request for credit. Specifically for MDB Cashless a 16 bit ID is sent to the payment device, which should be recorded by the payment processor.

Paylink Reset Program

For use in exceptional circumstances, both Windows and Linux releases include an example program that issues a low level reset to the Paylink unit.

Note: this should not be used in normal operation, the PC code is written to recover from this, but there is no guarantee of smooth operation.

USB Driver Code hang monitoring

This release included code that monitors the USB driver code (if used) and detects and diagnoses if it ceases processing.

Minor bugs fixed from all earlier releases

The following significant bugs were present in the release version of 4.1.12.14 and earlier versions of Paylink

- The **Azkoyen Evolution hopper** confused the Paylink driver into sending 4 byte dispense commands which then confused the hopper. The hopper discovery code has been rewritten to avoid this but would trigger a fault in some non-encrypted hoppers causing a random payout if 4.1.12.14 was reloaded and run after 4.12.15.
To fix this 4.1.12.16 no longer probes hoppers that explicitly report as an non-encrypted SCH2 or SUH1
- An exotic fault whereby successfully handling minor problems in MDB Cashless eventually caused the error stop “Configuration is too complex”
- The MDB Cashless driver had two protocol bugs which could cause confusing results returned to the Application.
- Configuring an F53/F56 with firmware that didn’t support it would “brick” the Paylink unit so as to require hardware level reprogramming. This became significant when the base level Genoa firmware lost this handler in release 4.1.12.12
- Some exotic bugs in the Linux build process have been fixed.
- The MDB Serial number processing now uses all the digits in the text serial number
- Due to an oversight in the code, WriteInterfaceBlock() for the cctalk line was omitted from the Paylink Lite 2 code. This has now been re-instated.
- The ID-003 recycler code did not cleanly report the status of Box dispenser when the acceptor has problems. This is now done properly.
- The Java interface code did not correctly handle transferring an updated CoinCount from the application to the device. This is fixed.
- The EBDS recycler handling now correctly handles the situation where the device rejects a dump command. (This would previously cause a system lock up)