

Milan / Paylink Firmware Version 3.1.12.3 Release Notice.

This is a **Beta** (3) release of the Milan / Paylink Interface firmware - code version **1.12.3**. This is the first general release of the 1.12.x code base.

PC code versions.

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

Aesimhei.dll	Version 1.5.1.3 or later
Aesimhei.h	Dated 14 March 2012 or later (for 1.12.x programming facilities)
Paylink.exe	Version 3.1.12.3 or later (For windows, this replaces AESWDriver)

Platform Limitations.

Version 1.12.x and above are only available on USB versions of Paylink, not on the PCI card or on Paylink Lite.

Configuration.

This release of software implements dynamic configuration and requires that the configuration information is supplied to the Paylink unit by the Paylink driver program. Details on how the unit is configured are in a separate document, MilanPaylinkConfigurableDriver - an extract of this document is available from the running program using the Help option.

New Bill Recycler peripheral type.

This release adds general support of bill recyclers / dispensers to Paylink. A Note recycler is implemented as a single acceptor and a set of dispenser. An extract of the MilanPaylinkProgramersManual is included in the release as BillRecyclerOperation. Note that the ccTalk recycler support requires the recyclers to use the new DES security system.

None of the new facilities introduced for bill recyclers / dispensers receive any further mention in this document.

There were "special" releases of 1.11.x, which handled some recycler and dispensers. Users should take care with regression testing if they move to 1.12.3 as some of the detail of this handling was not finalised until this release.

PC Support Software.

The PC support software is derived from that released with Version 4.1.11.8 - users of earlier releases of PC support software should consult the Version 4.1.11.8 release notice.

Data item length and 64 Bit support

Most of the data items manipulated by the Paylink API are integers with 32 bits. Traditionally PC software treated both the **int** and **long** data types in the C language as 32 bits. Reflecting the fact that very old compilation systems would treat the **int** type as 16 bits, the Paylink API was described in terms of **long** data types.

With the increasing word length of processors, the **long** data type is now starting to refer to 64 long integers. In reflection of this fact, the Paylink documentation and C++ API have been re-written to use **int** for the standard 32 bit data type.

This change is expected to have no effect on the usage of Paylink.

Compatibility with 1.11.x and 1.10.x

Except as noted in this document, applications working with 1.10.x and 1.11.x will work unchanged with 1.12.3 - although the new facilities may not be usable until the application is upgraded.

Upgrade / Downgrades

Any earlier version of the firmware can be upgraded to this version without any problems. Downgrading to 1.11.x, 1.10.x or will not cause any problems.

Linux Users.

This release includes full support for Linux users. Note that 1.11.x Linux had two different sets of source, one for 64 bit systems. With the Data Item Length changes described above, there is now no longer a need for this, the single set of source will build correctly on both 32 and 64 bit systems.

New or Changed Elements.

- Note acceptors can now report up to 64 different notes. (Was 32).
- Payouts in progress on a cctalk hopper can now be cut short.
- Support is now provided for bill acceptors to read up to 40 character barcodes.
- To enable the use of identical devices on different connectors, the interface number for a device has changed its meaning, and now reflects the internal comms channel (0-3).
- The configuration file now specifies how a hopper's coin value is determined.
- The configuration file can change the empty timeout for an (MCL) cctalk hopper.
- The driver's running mode is specified by the configuration file.
- More than one cctalk hopper can run simultaneously (Specified in the configuration file).

New Protocols / Devices.

Compared to 1.11.x, the following are now **fully** supported:

Acceptors

- All Cashcode CCNet protocol acceptors
- The NRI Currenza bulk coin acceptor (with control for the motor system)

Bill Recyclers

- Cashcode B2B300 / B2B 60
- JCM DES cctalk Vega
- JCM UBA-RC Recycler
- Merkur MD100

Dispensers

- The Fujitsu F56 and F53 Bill Dispensers are now supported

Others

- Optional locally controlled output showing the watchdog status
- Optional locally controlled output for power on sequencing