HYOSUNG

BlueVerse Embedded (WinCE6/WinCE7) Software Release Notes

with 6.4.1 Update

Ver. 12.0

BlueVerse

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1 BlueVerse Embedded Release 6.4.1 Update

This section contains information about the 6.4.1 software update issued for BlueVerse Embedded.

1.1 Enhancements

The following enhancements are included in this release.

- Secure Removal Initialization (EPP) is supported. (See BlueVerse Embedded Operator Function Guide)
- Update the ATM's trusted certificate list. Add the new GoDaddy and Starfield R1 root certificates.

1.2 Fixes

The following issues are resolved in this release.

Description
Contact Cards and NFC Cards EMV Tags sent to the Host in Request Reversal Messages assorted field ‘ud’.
Added a voice guidance option to balance inquiry: Voice all balances.
Resolved an issue where HALO 1 and 5400 were not automatically registered with the BlueVerse Fleet Lite (MoniView) remote server during initialization.
Resolved an issue where the EMV Kernel version in the Journal was not modified when EMV was updated.
Consumer Device Cardholder Verification Method (CDCVM) is supported. CDCVM is a cardholder verification method in which the cardholder authenticates using a device, typically a mobile phone or wearable. The ATM receives confirmation of the authentication.
Resolved an issue where DCC withdrawal transactions using Cardtronics as the DCC type processed Accept Conversion and Accept Without Conversion selections incorrectly for Mastercard transactions.
Extra spaces removed from the Print All Setup report (Section 3. CUSTOMER SETUP).
Support added for New USB Hub on the MX2800SE and MX5400 models.
Updated Denomination Selection Screen changes to “F8 - Continue and F7 – Exit”.
Improved alignment on the screen Fee Notice. “Charge a fee of ...” and Surcharge Amount.
Resolved an issue in the journal record handling where journal records embedded in transaction request messages could be processed incorrectly when sent to the host.

Description
Resolved an issue where the CANCEL button was not working on the Language Selection screen for CA C and CA V.
Fixed a DCC 1st Call handling issue in the CA C and CA V versions.
CA configurations support specific RFID reader parameters.
Updated Welcome screen to display “Insert or Tap Card”.
Denomination Select now supports four cassettes on 2800 ATM (MX5400).
Corrected the visibility and Spanish localization of the Reset and Add Bills.
Voice Guidance will announce the results of Dual Balance transactions for both Checking and Savings accounts.
Voice Guidance now supports the Choose Bill Mix option with four cassettes.
Corrected the visibility and Spanish localization of the Reset and Add Bills / Subtract Bills buttons on the Denomination Selection screen for a four-cassette dispenser.

1.3 Upgrade Matrix

Current Release	Upgrading to	Requires a reimage
6.3	6.4.1	Only if the OS or BL is below the minimum in the table below
6.2	6.4.1	Only if the OS or BL is below the minimum in the table below
6.1	6.4.1	Yes

Board Requirements

Platform	Board	Minimum OS for no reimage	Minimum BL for no reimage	Latest OS (for a reimage)	Latest BL (for a reimage)
WinCE 6.0	256Mb (7650000052)	06.01.15	06.22.16	06.01.19	06.22.18
WinCE 6.0	512Mb (7650000167)	08.01.05	08.02.04	08.01.16	08.02.10
WinCE 7.0	Unique	10.11.06	10.02.09	10.11.13	10.02.13

1.4 Restrictions

None

1.5 Release Date

10/23/2026

2 BlueVerse Embedded Release 6.4.0.0 Update

This section contains information about the 6.4.0.0 software update issued for BlueVerse Embedded.

2.1 Enhancements

The following enhancements are included in this release.

- Removed support for TLS 1.1 or lower.
- Added EMV Version 8 option to the list.
- Add updated FIS certificates.

2.2 Fixes

The following issues are resolved in this release.

Description
Resolved an issue preventing advertisement images from being displayed in supervisor menu.
Fixed an issue on 2800SE model. The DCC (Dynamic Currency Conversion) screen for Visa withdrawal transactions, the word "Change" is incorrectly displayed as "ange".
Resolved an issue where Configuration changes to EnBin Setup are not saved in Journal.
Fixed an issue where Configuration changes to MoniVision are not saved in Journal.
Fixed an issue where some CustomerSetup→OptionalFunctions changes were not recorded in the journal.
Fixed an issue where Configuration changes to TDL option are not saved in Journal for US- C and CA -C.
Resolved an issue where BITLOAD4U Enable/Disable setting was not stored in the Journal.
Resolved an issue where TDL entries in the Journal do not reference TDL or the specific TDL features affected.
Update networking dependencies.
In Supervisor, changed the Sitemap label from “Terminal IP” to “Communications”.
ATM WinCE can validate host certificates that contain only a Host Name (SAN). No Host Ip Address is included in the Host certificate.
Welcome screen #101 adjusted to prevent text overlapping when NFC is enabled.

Description
Resolved an issue with EMV Kernel v6 where the application crashed when v6 was selected.
MC and Visa Balance Inquiry transactions support response codes “000” and “085” as successful. (STD3)
Resolved issue causing magnetic strip cards to send EMV tags to the Host under STD3.
Resolved issue where parameters printed on PrinAllSetup do not show ENABLE or DISABLE values.

2.3 Upgrade Matrix

Current Release	Upgrading to	Requires a reimage
6.3	6.4	No
6.2	6.4	Yes
6.1	6.4	Yes

2.4 Restrictions

None

2.5 Release Date

6/10/2026

3 BlueVerse Embedded Release 06.03.18.00 Update

This section contains information about the 06.03.18.00 software update issued for BlueVerse Embedded.

3.1 Enhancements

The following enhancements are included in this release.

- Add support for Discover and Amex on the Hitech Kiosk IV RFID card reader.
- Add the ability to disable an AID from Supervisor. Disables those transactions in both the MCU and RFID readers.
- EPP X2 supports TR-31 and TR-34. The host must support obfuscation padding to create a valid TR-31 Key Block for loading into EPP X2. This requirement is defined in ANSI X9.143 and mandated by PCI 6.0.
- Added support for EMVco NFC certification scenarios.
- Activated the EPP Flicker during transactions on the NH2600 HALO I ATM.
- Disabled DigitalMint button.

3.2 Fixes

The following issues are resolved in this release.

Description
Resolved an issue where the EMV tag 9F53 is not being sent to the Host. (Both Contact MCU or Contactless NFC)
Resolved an issue where configuration changes for EnBIN, Popmoney, DCC, Cash Pick-up, Cardless cash, MoniMobile, Monivision Are not Journaled.
Resolved a STD1 issue for voice guidance during an RFID transaction, where ATM wasn't voicing "Invalid PIN".
Remove the surcharge configuration from the OPERATOR role.
Amex AID cards can be enabled or disabled affecting both MCU and NFC transactions
Resolved an issue where the Electronic Journal (EJ) failed to print transaction for PopMoney withdrawal.

3.3 Restrictions

None

3.4 Release Date

1/16/2026

4 BlueVerse Embedded Release 06.03.17.00 Update

This section contains information about the 06.03.17.00 software update issued for BlueVerse Embedded.

4.1 Enhancements

No enhancements are included in this release.

4.2 Fixes

The following issues are resolved in this release.

Description
Resolved issue in 6.3.16 requiring TLS certificate installation for RMS.
Resolve an issue where the “Invalid PIN” message was not displayed when invalid PIN was entered during a Balance Inquiry.

4.3 Restrictions

None

4.4 Release Date

10/31/2025

5 BlueVerse Embedded Release 06.03.16.00 Update

This section contains information about the 06.03.16.00 software update issued for BlueVerse Embedded.

5.1 Enhancements

The following enhancements were included in this release.

- Added support for loading TLS certificates in RMS BlueVerse Fleet Lite.
    - Version TLS 1.2 supported.
- **CHANGE PARAMETERS** journaling enabled. Changes from the ATM (Supervisor) and BlueVerse Fleet Lite (Moniview) (RMS) will be included in the Journal.
- Log hostAddress and RMSName in ATM logs every time they change.
- The RMS password is now automatically randomized during installation if the Factory Default value is detected.
    - When updating to V06.03.16, the RMS PASSWORD will not be modified.
    - The Factory Default RMS Password will be respected. When the RMS Password is set to a different value, it will not be possible to set it back to the Factory Default. This value will be considered an invalid value.
    - The password can be updated manually using the standard Supervisor RMS PASSWORD screen.
    - A "Random Password" button has been added to allow manual generation of a new randomized password.
    - The RMS PASSWORD will be automatically randomized only when a reimage is performed.
- Updated Anti-skimming detection screen to show “ATM TEMPORARILY OUT OF SERVICE” message.

5.2 Fixes

The following issues were resolved in this release.

Description
Improvement to handle longer VG transactions.
Resolved an issue where NFC Transactions may not have Voice Guidance.
Resolved an issue where Moni Vision enabled ATMs did not display enlarged pictures associated to specific transactions on VIEW JOURNAL.
Added support for TR34 protocol and TR31 Pin Block.
Resolved an issue where software version P06.03.11 could not be installed on an ATM with WinCE6.0 (board s5PC100 256 Mb).

Description
Resolved an issue where BlueVerse Fleet Lite port does not change from 9999 to 9998 when TLS is enabled. (Display issue only)
Resolved an issue with software version 06.03.10 STD3 Balance Inquiry Transactions that presented 97302 CHIP CARD ERROR messages on the screen or receipt.
Resolved an issue where STD3 NFC Cards being processed as Fallback transactions.
Resolved an issue where the EMV Tag 9F1E IFD Serial Number was not sent to the Host on Transaction Request (STD1/STD3 MCU/NFC)
Resolved an issue where a voice guidance transaction(NFC/non-NFC) was causing the ATM to crash.

5.3 Restrictions

None

5.4 Release Date

9/5/2025

6 BlueVerse Embedded Release 06.03.11.00 Update

This section contains information about the 06.03.11.00 software update issued for BlueVerse Embedded.

6.1 Enhancements

The following enhancements were included in this release.

1. Pre-loaded data for bring-live can adjust value to use TLS certification file or not.
    a. Default setting is to use TLS file but it is adjustable as customer request.
2. Added support for NFC to CA V configurations.
3. DCC screen disabled for 1500SE.
    a. User can enable/disabled the DCC from Supervisor Menu or BlueVerse Fleet Lite but it will not affect DCC setting, DCC remains disabled.
4. Added AID (A0000000044542) for EBT cards.

6.2 Fixes

The following issues were resolved in this release.

Description
Resolved an issue so PrintAllSetup prints correct Key Mode when TR31 is configured.
Pre-loaded setting for DNS processor was changed to show: • The name of the processor is 'DNS' • The TCPIP Type is 'Standard' All of the processors have incorrect Standard 1 settings, should be the following: • Reversal At Host Error is Enabled • Reason For Reversal is Disabled
Resolved an issue where the short routing in pre-loaded data in bring live raise connection error with Processor.
Modifications to make Text on Buttons, and Text on TextBoxes ADA Font compliant.
Remove disclaimer at the bottom of receipt for MasterCard on the CA V version with CIBC DCC option.

6.3 Restrictions

None

6.4 Release Date

2/28/2025

7 BlueVerse Embedded Release 06.03.10.00 Update

This section contains information about the 06.03.10.00 software update issued for BlueVerse Embedded.

7.1 Enhancements

The following enhancements are included in this release.

1. EPP 8000R now supports TR31.
2. In CA V version – When Company specific DCC conversion option is selected, the Company specific DCC screen should be shown.
3. Updated the operator menu to allow for faster machine configuration.
    a. **Customer Setup -> Network Type** is now **System Setup -> Network Type**
    b. **Customer Setup -> Select Processor** is now **Host Setup -> Processor Option**
4. Updated the quick configuration to allow faster machine setup and bring live.

7.2 Fixes

The following issues were resolved in this release.

Hyosung Issue #	Description
RWC6-565	Problem: The application is experiencing intermittent freezing under certain conditions. Solution: Resolved intermittent application freezing.
RWC6-767	Problem: 06.03.08 cannot be loaded in some WinCE6 ATMs. Solution: Resolved the issue preventing 6.3 from installing on some WinCE6 hardware.

7.3 Restrictions

None

7.4 Release Date

12/12/2024

8 BlueVerse Embedded Release 06.03.08.01 Update

This section contains information about the 06.03.08.01 software update issued for BlueVerse Embedded.

8.1 Enhancements

No enhancement is included in this release.

8.2 Fixes

The following fix was included in this release.

Description
Resolved issue with remote update failing.

8.3 Restrictions

None

8.4 Release Date

10/29/2024

9 BlueVerse Embedded Release 06.03.08.00 Update

This section contains information about the 06.03.08.00 software update that has been issued for BlueVerse Embedded.

9.1 Enhancements

The following enhancement is included in this release.

1. [RWC6-742] Disable the ability to modify HOST and RMS configurations via BlueVerse Fleet Lite (MoniView).
    a. These are the settings that are disabled:
        i. Host Phone Number 1 (Host Tel1)
        ii. Host Phone Number 2 (Host Tel2)
        iii. Host1 Name Host1 Address
        iv. Host1 Port
        v. Host2 Name Host2 Address
        vi. Host2 Port
        vii. SSL Enable
        viii. SSL En/Disable
        ix. RMS Host
        x. Host IP 1 Host1 Address (URL)
        xi. Host Port 1
        xii. Host IP 2 Host Address (URL)
        xiii. Host Port 2
        xiv. SSL Certify Enable - Disable.

9.2 Fixes

No fixes were included in this release.

9.3 Restrictions

None

9.4 Release Date

8/28/2024

10 BlueVerse Embedded Release 06.03.07.00 Update

This section contains information about the 06.03.07.00 software update issued for BlueVerse Embedded.

10.1 Enhancements

The following enhancement is included in this release.

1. [RWC6-706] Added NFC EMV functionality.

10.2 Fixes

No fixes were included in this release.

10.3 Restrictions

None

10.4 Release Date

8/21/2024

11 BlueVerse Embedded Release 06.03.06.00 Update

This section contains information about the 06.03.06.00 software update that has been issued for BlueVerse Embedded.

11.1 Enhancements

The following enhancements are included in this release.

1. [RWC6-707] Added support for TR31 in WinCE6/7.
2. [RWC6-708] DCC screens and receipts reviewed for Visa.
3. [RWC6-709] DCC screens and receipts reviewed for Master Card.

11.2 Fixes

The following fix was included in this release.

Hyosung Issue #	Description
RWC6-674	Problem: Mark-up support for Master Card. Solution: Master Card Mark-up will be presented in both screen and receipt when the Host sends it in "qc" Tag DF 88 15.

11.3 Restrictions

None

11.4 Release Date

8/12/2024

12 BlueVerse Embedded Release 06.03.05.00 Update

This section contains information about the 06.03.05.00 software update that has been issued for BlueVerse Embedded.

12.1 Enhancements

The following enhancements are included in this release.

1. [RWC6-484] New connection to server allow BIN based transactions.
2. [RWC6-535] Server Pre-transaction screen, Transaction-screen and Thank-you-screen downloaded to the ATM.
3. [RWC6-536] "Get Setup" command reports Pre-transaction-screen label, Transaction-screen label and Thank-you-screen label to the RMS database.
4. [RWC6-537] Allow configuration of EnBin settings through RMS.

12.2 Fixes

The following fixes were included in this release.

Hyosung Issue #	Description
RWC6-565	Problem: The application is experiencing intermittent freezing under certain conditions. Solution: Resolved intermittent application freezing.
RWC6-677	Problem: Wrong AP version number on the supervisor screen. Solution: Updated the version number on the supervisor screen.

12.3 Restrictions

None

12.4 Release Date

3/26/2024

13 BlueVerse Embedded Release 06.03.04.00 Update

This section contains information about the 06.03.04.00 software update that has been issued for BlueVerse Embedded.

13.1 Enhancements

The following enhancement is included in this release.

1. [RWC6-669] Network Fields changed from READ ONLY to READ/WRITE for Cash Depot.
    a. Example: DNS1, SubnetMask.

13.2 Fixes

The following fix was included in this release.

Hyosung Issue #	Description
RWC6-659	Problem: DCC is being denied by the host when the admin fee is enabled. Solution: 'Admin Fee' process depends on the DCC conversion accepted or declined.

13.3 Restrictions

None

13.4 Release Date

2/2/2024

14 BlueVerse Embedded Release 06.03.02.03 Update

This section contains information about the 06.03.02.03 software update that has been issued for BlueVerse Embedded.

14.1 Enhancements

The following enhancement is included in this release.

1. [RWC6-607] Changes made to the DCC screens and receipts for CIBC and Cash Depot.

14.2 Fixes

There are no fixes included in this release.

14.3 Restrictions

None

14.4 Release Date

1/12/2024

15 BlueVerse Embedded Release 06.03.02.00 Update

This section contains information about the 06.03.02.00 software update that has been issued for BlueVerse Embedded.

15.1 Enhancements

The following enhancement is included in this release.

1. [RWC6-568] Remove the requirement that an ATM needs to use TLS.

15.2 Fixes

The following fixes were included in this release.

Hyosung Issue #	Description
RWC6-573	Problem: There is a MAC mismatch that is causing transactions to be reversed. Solution: Updated the application to fix the issue with the MAC mismatch.
RWC6-582	Problem: Font size is not ADA compliant. Solution: Update the application to make the font size ADA compliant.
RWC6-583	Problem: There is an extra character in the messages STD1 Solution: Suppress the extra character in STANDARD1 messages.

15.3 Restrictions

None

15.4 Release Date

11/6/2023

A Introduction

This is the base set of release notes for Hyosung's BlueVerse Embedded application. These notes provide a high-level overview of the features and functions available in BlueVerse Embedded l and define the hardware and software required by the application.

As patch-level releases are issued for BlueVerse Embedded, addendum documents will be issued that contain, at a minimum, a list of fixes, and may also include a list of enhancements and any known restrictions. These addendums will be attached to this base release notes document.

A.1 Audience

This document is written for ATM network, and retail personnel who are deploying BlueVerse Embedded, as well as Hyosung Professional Services personnel who are supporting those deployments. In addition, anyone wanting to learn about BlueVerse Embedded would benefit from reading selected sections of this document.

B Revision History

Version	Date	Change Summary
1.0	11/6/2023	Created the document.
1.1	1/12/2024	Added release 06.03.02.03 information.
2.0	2/2/2024	Added release 06.03.04.00 information.
3.0	3/26/2024	Added release 06.03.05.00 information.
4.0	8/12/2024	Added release 06.03.06.00 information.
5.0	8/21/2024	Added release 06.03.07.00 information and release 06.03.08.
5.1	9/11/2024	Added fix to release 06.03.05.00 information.
5.2	10/24/2024	Added release 06.03.08.01 information.
6.0	12/2/2024	Added release 06.03.10.00 information.
7.0	1/8/2025	Added release 06.03.11.00 information.
8.0	9/5/2025	Added release 06.03.16.00 information.
9.0	10/28/2025	Added release 06.03.17.00 information.
10.0	1/15/2026	Added release 06.03.18.00 information.
11.0	6/10/2026	Added release 06.04.00.00 information and reorganized document.
11.1	7/1/2026	Added Upgrade Matrix to release 6.4.
12.0	10/21/2026	Added release 6.4.1 information