

# Revision History

May 10, 2013

Page 1

No	Item No.	File Name	Release			Comm. Protocol
			Date	Device	Country	
1	<b><u>BB-EUCH1181</u></b>	FL-EU7CH5AAJ1-2.81-BB.hex	05/10/13	BB	Switzerland + Euro	CCNET
		<b>Commentary</b>				
		<ol style="list-style-type: none"><li>1. Processing of new 5 EUR issued in 2013 has been introduced.</li><li>2. Processing of 200 CHF has been introduced.</li><li>3. Performance improvement to 5, 10, 20 and 50 EUR.</li><li>4. During packing BB tries to reject a bill rather than reports one of the following errors: A8, B5, C2 or E5. This modification allows to prevent jams inside BB switch.</li><li>5. Jam recovery during Unload has been introduced: after jam in lower tract of BB chassis during unloading operation BB returns jammed bill back to corresponding cassette and try to unload the same bill again. This feature has been implemented for 0xE1, 0xE2, 0xE3, 0xE4,0xE5, 0xE6 error codes.</li><li>6. Jam recovery during Dispense has been introduced: if time-out of bill arriving to the input sensor of dispenser (error code 0xD4) is detected then BB returns jammed bill back to corresponding cassette and try to dispense the same bill again.</li><li>7. BB statistics in new format has been introduced.</li><li>8. FEED LEVEL capability has been introduced.</li><li>9. Point of reporting "Waiting for bills to be removed" (0x1D 0x01) state during dispensing has been changed from the moment when BB starts moving the last bill to be dispensed from recycling cassette to dispenser to the moment when the last bill to be dispensed enters the dispenser.</li><li>10. Diagnostic command has been introduced.</li><li>11. If drop box is removed over dispensing then BB suspends dispensing and reports BOX REMOVED, dispensing will be resumed after drop box replacement.</li></ol>				
2	<b><u>BB-EUCH1152</u></b>	FL-EU7CH4AAJ1-1.52-BB.hex	10/10/06	BB	Switzerland + Euro	CCNET
		<ol style="list-style-type: none"><li>1. Pass sensor's processing during bill packing has been improved to prevent rejection of single bills.</li><li>2. 'SET OPTIONS' and 'GET OPTIONS' commands have been added to CCNET.</li><li>3. Processing of the following options has been implemented: 'LED BV INHIBIT' -&gt; 0 - LED is red in BV_INHIBIT state; 1 - LED is turned off 'KEEP BILL' -&gt; 0 - bill will be dropped after returning; 1 - bill will be held 'LOOK TAPE' -&gt; enhanced processing of pass sensor (0 - OFF, 1 - ON) 'TURN SWITCH' -&gt; switch turning after bill packing (0 - OFF, 1 - ON)</li><li>4. Loss of cassette setting "Not Assigned" after RESET has been eliminated.</li><li>5. Control of triangle wheel in metal bezel during bill accepting has been improved to prevent the bill sticking.</li><li>6. Control of thermo heater in metal dispenser has been added.</li><li>7. Enhance the algorithm of BB self-testing: if cassette(s) is(are) removed, software has to skip the algorithm of "device recovery after POWER DOWN" and turn to the regular self-testing.</li><li>8. Set higher priority to the indication of "BOX REMOVED" state.</li><li>9. Make "RECYCLING CASSETTE STATUS" request accessible only in IDLING, DISABLED, ESCROW states (according to "CashCode NET" description).</li><li>10. Do not erase an IDENTIFICATION NUMBER of BB unit in statistics after download to the validating head the software designed for another country.</li><li>11. BB power recovery feature has been introduced.</li><li>12. Nonvolatile counters for counting all dispensed or unloaded bills have been added.</li><li>13. Commands "POWER RECOVERY", "EMPTY DISPENSER", "EXTENDED CASSETTE STATUS" have been included to CCNET.</li><li>14. Size of the transparent window on the banknote has been brought in to be</li></ol>				

**Commentary**

- taken into account during transporting of the bill.
- 15. Errors related to setting date/time from B2B keypad in Service mode have been fixed.
- 16. The following error has been fixed: if remove a cassette from the chassis BB keeps trying to pack bills to that cassette.
- 17. "GET STATUS" command is enable only in IDLING and DISABLED states according to CCNET specification.
- 18. Error with displaying of "Not Assigned" state for recycling cassettes in Service mode has been fixed.
- 19. Prohibit switching to download mode in the following error states: ERROR\_LINK\_SENS\_HV, ERROR\_MAGN\_SENS\_HV and ERROR\_OPT\_SENS\_HV.
- 20. Prohibit performing software RESET in the following error states: ERROR\_LINK\_SENS\_HV, ERROR\_MAGN\_SENS\_HV and ERROR\_OPT\_SENS\_HV.
- 21. Add "READ BB-DEVICES SERIAL NUMBER" command to CCNET.
- 22 Remove the control of stand-by battery.
- 23. Fix for unload in case when some bills were manually removed from the cassette.

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3	<b><u>BB-EUCH1148</u></b>	FL-EU7CH4AAJ1-1.48-BB	05/03/05	BB	Switzerland + Euro	CCNET
First release for new hardware: metal bezel support; barcode recognition; jam (credit loss) prevention; chassis soft download; improvement of short bill return; bill drop prevention						