



## UNC100 Release Notes

2 Automatic Road, Suite 108  
Brampton, Ontario  
Canada L6S 6K8

Email: [support@rbh-access.com](mailto:support@rbh-access.com) Web: [www.rbh-access.com](http://www.rbh-access.com)

---

### **Firmware**

#### **Axiom**

##### **Firmware Version 30.10c (6-Nov-2013)**

- Two reader model developed for upgrading from Integra model.

##### **Firmware Version 30.10h (9-Dec-2013)**

- UDP protocol added.
- Improvement made to filing system.
- Improvement made to Telnet procedure.
- Bugs in 'RTE bypass DC' and 'Disable Forced Entry' fixed.
- Added 64 bit Guardall format and 34 bit UHF format.

##### **Firmware Version 30.11b (16-Dec-2013)**

- Fixed bugs with card dump.
- Updated 34 bit UHF format.

##### **Firmware Version 30.12a (3-Feb-2014)**

- Fixed bug with 39 bit format Kantech FSX.
- Fixed bug with OSDP.

##### **Firmware Version 30.13b (11-Apr-2014)**

- Added tamper alarms to readers.
- Added duress codes on keypads.

### **Firmware Version 30.13f (13-Jun-2014)**

- Fixed bug with reader LED controls for in/out mode.
- Fixed bug with 'Door Held Open Warning'.

### **Firmware Version 30.14 (4-Sep-2014)**

- Added formats 39 bit HID and 34 bit UHF no issue.
- Fixed bug with unit resets when host changes ports.
- Fixed bug with unit resets when no D-Net devices are added.

### **Firmware Version 30.15d (3-Oct-2014)**

- All former UPD protocols dropped new RBH3 protocol added.
- MAG format for 17 (6 ID digits) characters added.
- Cardkey MAG bug fix for internal RC-2.
- RBH3 protocol now only shows 1 port.
- Memory test has been changed.

### **Firmware Version 10.16c (18-Nov-2014)**

- New UDP RBH3 protocol feature added.
- New version ID control system implemented.
- Recalibrated voltage limits for battery charger.
- Bug fix for Version ID report.

### **Firmware Version 10.18f (27-Mar-2015)**

- Bug fix for all wiegand lines going low at the same time crashes the system.
- Power supply monitoring improved.
- Added advanced memory test.
- DIP switch 8 when up removes internal read, all RC's are on the D-Net.
- Now allows 16 access point special access levels.
- Bug-fix – outputs don't follow unlock schedule.
- Bug-fix – when the battery fails only a reset or retest with a good battery will change its status.
- When a high security group commands is sent and doors are unlocked - doors relock.

- When an unlock command is sent to a group and the reader is in high security the command is ignored.
- Reader beeps four times only when change of mode occurs.

### **Firmware Version 10.20d (21-Jul-2015)**

- Bug fix for DIP switch 8 crashes.
- IP address and Subnet Mask prevented from being 0.0.0.0.
- "RTE" log message sent when disable forced entry is enabled.
- Forced Entry output is no longer turned off when door is unlocked or bypassed.
- DHO warning is no longer turning off when door is unlocked or bypassed.
- The reader now beeps mode change when hi-security turned on and off.
- When memory is cleared inputs will revert to default settings before downloading.

### **Firmware Version 10.22h (4-Dec-2015)**

- Added software generated wiegand formats capability.
- Bug-fix – issue level problem.
- Bug-fix – RTE reader beep.
- Bug-fix – "on state de-energised" outputs that are "on" after a reset.
- Bug-fix – IN-OUT mode fixed for both targeted and untargeted versions.
- Bug-fix – issue with high card values and card + pin mode solved.

### **Firmware Version 10.24L (8-June-2016)**

- Added extra time for waiting for interlock data changed for NC-networks.
- Now allowing offline card download to Panel #1 when DIP switch 8 is up.
- Grant Access timer now has precedence over re-lock commands.
- sp\_msg buffer increased to allow 8 RC's.
- IN/OUT mode:
- Now communicates door status only through reader 1.
- Allows display of hi-security on either door.
- The door locks when Rdr1 or Rdr2 is put into hi-security mode.
- Door will not unlock when either door is in hi-security.
- Bug-fix – grant access timer for IN/OUT mode.

- Bug-fix – if the door is unlocked a double swipe doesn't relock.
- Bug-fix – if two cardholders grant access before unlock times out it results in door staying unlocked.
- Bug-fix – Activating hi-security mode on B side didn't relock door when in IN/OUT mode.
- Bug-fix – B side was able to unlock door when A side was in hi-security.
- Bug-fix – issue with IN/OUT mode + Interlock + global anti-passback fixed.
- Bug fix – UNC100 as master controller not reporting when Forced Entry on one of the device of slave controller.
- Bug fix – not updating swipe counter when interlock enabled.
- UNC100 controller now always is a 2 door controller.
- Telnet edits password, issue resolved.

### **Firmware Version 10.26f (11-Jan-2017)**

- Access Point Type Master-Slave added.
- Incrementing version of Firmware by twos to be consistent with special applications like CLEX etc.
- System initialize sometimes wasn't reading system records properly, issue resolved.
- Internal NURC reporting input states in reverse order, issue resolved.
- Internal NURCs state of outputs wasn't being cleared on reboot. If it was powered off while the door was unlocked, the unlock schedule was being ignored since it believed it was already unlocked-issue resolved.
- All voltages are being monitored on power up. If they are all too low the system will be in a hold state until power is restored. This is to prevent the serial number of the controller from being erased.

### **Firmware Version 10.28c (30-Nov-2017)**

- E-NET Version for AxiomXa system added.(requires RBH4 ip locator and AxiomXa Software)
- AES Encryption of Ethernet comms added.(requires RBH4 ip locator and AxiomXa Software)
- Wavetrend for 64 bit fixed.

## **Firmware Version 10.28o (24-March-2022)**

- Firmware upgrade start up improved.
- Double swipe feature not working for OSDP readers, issue fixed.
- OSDP wait timings changed.
- Offline card download improved.

## **Integra**

### **Firmware Version 20.10a (3-Dec-2013)**

- First version, without mag-stripe or elevator.

### **Firmware Version 10.10b (4-Dec-2013)**

- Added OEM display to telnet for diagnostics.

### **Firmware Version 10.11a (5-Dec-2013)**

- Added mag-stripe data collection.

### **Firmware Version 20.12e (14-Jan-2014)**

- Sped up communications.
- Added abort delays to inputs.
- Fixed display, unknown format.
- RTE Bypass DC is silent.
- 4 beeps for mode changes by cardholder.
- Card + pin fixed.
- Deduct usage fixed.
- PIN collection beep turns off when first digit received.
- Check schedule fixed.
- Bump counter during card+pin fixed.
- ch\_search, add\_card, del\_card fixed.

### **Firmware Version 20.13f (30-Jun-2014)**

- Sped up Ethernet communications.
- Changed device ID's for software.
- Partial cardholder update always incremented the number of cardholders even if found.
- Added delay to RS485 enable signal to improve communications.
- Bug-fix – green led stays on after high security is turned off.
- Log messages were incorrect for operator commands Unlock, Lock, and Grant Access.

- Missing log messages.
- Entry timer was longer than unlock time (was using extended unlock time).
- Entry timer not set for global anti-passback (PC decision).
- Repeat delay timer fixed, now works in facility code mode.
- Timed APB not giving soft APB and granting access.
- Repeat delay timer fixed now works in facility code mode.
- RS485 slave communications were responding to all polls.
- Now always reading dipswitch to make changes on the fly.
- Allows firmware upgrades through the INTEGRA communication port (needed software change).
- Bug fix - deduct usage not working correctly on side B.

### **Firmware Version 20.14c (14-Jul-2014)**

- Added new protocol to allow more cardholders.
- Changed UDP to support RBH2 device finder program.
- Trouble with one panel not upgrading axiom file.
- The lack of a time delay while checking analog inputs prevented the a2d task from executing when offline.

### **Firmware Version 20.15d (12-Sep-2014)**

- Bug fix – no log message when timer times out and output/input/access point is activated.
- Multiple log messages per poll.
- Bug fix: facility code denied message includes facility code number.
- Bug fix: timed APB rejects all cards.
- Bug fix: timed APB works on side B.
- Mag-stripe buffer extended to 128 characters for future use.
- Inhibit id mode enabled.
- When set time command is given the unit reports the time change.
- Inhibit ID mode works like IRC2000 giving RTE message instead of ID.

### **Firmware Version 20.16d (23-Oct-2014)**

- RBH3 protocol for IP search.
- Remove OSDP application from set-up list.

- Bug fix: schedule numbers for reader A and B were reversed in the CH database.
- RBH3 protocol has IP secure option added.
- IP security is now optional.
- Bug fix: 3/5 swipe log messages enabled.
- Bump timer extended to 4 seconds.

### **Firmware Version 10.150b (18-Nov-2014)**

- New version nomenclature major identifier = 10.
- Minor identifier for Integra starts at 150.
- Box Tamper monitoring.
- Power Supply and Battery monitoring.
- Re-calibration of voltage limits due to error in measurement.

### **Firmware Version 10.151c (29-Apr-2015)**

- Bug fix: when all Wigand data lines were activated system re-booted.
- Memory diagnostic has been improved.
- Bug-fix: when \* button pushed on keypad last person granted access is granted access.

### **Firmware Version 10.152c (11-Nov-2015)**

- Bug fix: global anti-passback log messages report IN/OUT reader.
- Bug fix: issue with Hot Standby computer switching fixed.
- RTE beep delay eliminated.

### **Firmware Version 10.153c (15-Jan-2016)**

- Now supports address 16.
- Was reporting wrong version, 152.
- Wasn't passing panel 16 data downstream.

### **Firmware Version 10.154a (29-Mar-2016)**

- Bug fix: issue with Interlock for side B fixed.

- Super user can now use deduct usage.

## **Firmware Version 10.155p (10-May-2017)**

- IOC8 version.
- Bug fix: when in card+pin mode if two cardholders grant access before unlock times out it results in continuous beeping.
- Bug fixes: panel goes offline when IOC8 is being downloaded.
- Bug fix: DHO alarm was steady not pulsing.
- Bug fix: Access Denied hi-security was not reporting correct side.
- Interlock applied to operator command and links.
- Bug Fix: Internal output states not being updated.
- New - abort delay only applied to armed inputs.
- New - initialization causes all inputs to be armed so that changed schedules will work.
- Bug fix: handicap output remains on when door is unlocked.
- Get IOC8 status was not changing status properly resulting in unpredictable behaviour.
- Tamper detection added.
- Now when IOC8 panels go online the outputs are updated.
- Improvement in D-NET speed to accommodate 15 panels.
- Inputs and outputs are now cleared on re-boot.
- Non-permanent inputs and outputs are now cleared on initialize.
- Bug fix: first person delay was unlocking when in hi-security mode.
- Bug fix: when a scheduled item is deleted, if the item is still on by schedule the item doesn't get turned off.
- Bug fix: end of access granted cycle doesn't interrupt beeping.
- UDP IPLocator now uses ports 5050-5053 for new IPLocator program.
- Bug fix: UNC100 outputs turn off after power up.
- Bug fix: memory overlap creating potential fatal error.
- Bug fix: operator Initialization command relocks door and arms non-permanent inputs.
- Bug fix: card expiry date was being read backwards resulting in failure to expire and failure to forgive APB.
- Polling IOC8's now at constant 50ms interval to prevent random offline messages.

- Bug fix: when the cardholder record was being rewritten the expiry date bytes were being reversed. This would have the effect (depending on the date) of having the card expired on the second read.
- Disable forced entry now allows DHO to work
- Special messages like IO control and set-ups now occur on the poll cycle to prevent offline messages.
- Battery test has been added to command schedule records.
- Bug fix: offline/online issue resolved.

### **Firmware Version 10.156 (14-Aug-2018)**

- Full version Firmware.
- Bug Fix: Firmware Upgrade Failure. Due to NV RAM overlap firmware upgrade would fail due to upgrade file being affected by Integra operations.
- New Features OSDP (Encrypted/Unencrypted) and LIF added.

### **Firmware Version 10.157 (27-Nov-2018)**

- When Antipassback and Usage count combined, it wasn't working properly, bug fixed.

### **Firmware Version 10.158 (04-June-2019)**

- Protocols RBH Access 4 & 5 added.
- Bug related to Lock relay re-energized/de-energized state fixed.
- OSDP and IOC8 interfaces improved.

### **Firmware Version 10.159 (25-Nov-2019)**

- Timed Antipassback would have precedence over any other antipassback enabled.
- OSDP reader buzzer's timing changed.
- OSDP reader LSB data collection changed.

### **Firmware Version 10.160 (18-Feb-2020)**

- Timed Antipassback made mutually exclusive for two readers, which means:

- Same reader does not allow a card to be granted access before APB time expires.
- Same card is granted access on the other reader even before APB time has not expired on first one.
- For some card formats, bit stream manipulation for extracting the ID was faulty, bug fixed.

### **Firmware Version 10.161 (18-Feb-2020)**

- Firmware upgrade from Integra FW to Axiom FW on Axiom systems was failing, issue resolved.