NXT Firmware Release Notes

Version: 5.0

Revised: 2/1/17

These release notes apply to the EyeLock® Software applications, and contain information on the enhancements, modifications, and bug fixes applied to the software since the last release.

**NOTE:** The Software Problem Report (SPR) numbers associated with some of the release notes in this document are used internally by EyeLock software developers to log and track the disposition of problem reports and enhancement requests received from our customers.

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# About This Release

EyeLock NXT Firmware is an application used for EyeLock’s NXT devices.

WebConfig Tool is a web based application to configure, control and update the Eyelock’s NXT devices.

# Versioning

The application uses the following version numbering scheme:

**MajorRelease.MinorRelease .BuildNumber**

A ***major release*** is a version of the EyeLock Software Application that includes the following:

* New or significant functionality, Hardware, Software Redesign in addition to bug fixes.

A ***minor release*** is a version of the software that may include any combination of the following:

* Enhancements to existing features.
* Minor additions in functionality.
* Bug fixes.

*Build Number* is the number generated by our software Build management system to uniquely identify the source code used to generate a particular release version.

# Release Contents

The release package contains firmware for NXT devices which includes the WebConfig Tool and the firmware for Eyelock’s ICM controller. It also contains Eyenroll, which is used for enrollment and database management.

# Release Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **SW Version** | **Hardware Version** | **Comments** |
| NXT | 5.0.1551 |  | General Acceptance Maintenance Release |
| ICM | 3.5.3 | 71.42.a | General Acceptance Maintenance Release |

# Compatible Products

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| nano NXT | Single Gang & Mullion Portable Template Reader | Desktop Portable Template Reader/Writer | Android app 1.2.8+ / iOS app 1.1.13+ | EV1 and EV2 Smart Cards |
| EyeLock Identity Suite (EIS) 2.0 | Network Matcher 2.13+ | NXT SDK 3.0 | Eyenroll 2.08+ / 2.13+ for Portable Template |  |

# Warnings

### 5.0.1551

* **If upgrading from a firmware version earlier than 3.3.944, users must first upgrade to either 3.3.944 or 4.0 prior to upgrading to 5.0.**
* Eyenroll v2.13+ and/or EIS v2.0 are highly recommended for best performance
* Java scripts must be enabled for webconfig to display in IE properly. Setting browser security to ‘high’ can have adverse effect on webconfig usability. Reduce settings to ‘medium-high’ or use another browser as an alternative.
* If the device configured for F2F, some panels may report Reader Interface Offline even when the device is connected, noticed on CASI DirectDoor v2.4.6, OnGuard 7.0 Enterprise Service Pack 1
* The authentication scheme “Iris or Card” is not supported by OSDP
* Custom keys are not supported when using Network Matcher
* When setting a static IP address, the installer must check the network for conflicts. There is no automatic validation.
* After changing any settings for Network Matcher in webconfig, you must click save before the ‘Test NMWS’ button will operate properly. Alternatively, a factory reset will allow the user to test the Network Matcher connection without hitting ‘save’.
* In Portable Templates, holding a smartphone close to the portable template reader may trigger the Apple Pay or Android Pay application

# Known Issues

### 5.0.1551

* When switching between NXT LED control and ACS LED control, it is best practice to reboot the device after. The device may encounter intermittent undesired LED sequences if the device is not rebooted. A similar experience may be encountered when switching between single and dual authentication.
* Iris or Card mode using PAC protocol may require a soft reboot (via Webconfig) before it will authenticate users
* In Portable Template mode, the NXT may stop responding to template transfers, if the iris wait time is too low; as a work around change the minimum to 60 seconds. If the problem persists, close the app and try to authenticate again.
* When changing the device name, users must reboot for the change to take effect. Failure to reboot may result in a lost host name.

# New Feature and Enhancements - Firmware

### 5.0.1551

* Improvement LED control and ACS signaling.

### 4.3.1429

* Improvement to the upgrade module. Now uses the same mechanism as EIS.

### 4.2.1390

* Webconfig now has enhanced password strength requirements when changing away from defaults

### 4.1.1360

* Portable template software versions will now show when enabled
* Ability to upgrade portable template wall reader firmware

### 4.0.1297

* ‘Check Parity Bit’ feature has been deprecated. The firmware will always check the parity bits.

### 3.06.1260

* Mandatory security fixes

### 3.05.1193

* Support for TLS 1.2 communication (Requires EIS v1.2 or greater, or Eyenroll v2.12)
* Ability to write to Lenel logs in an integrated environment (Requires EIS v1.2 or greater)

### 3.04.1108

* Portable Template
  1. Ability to set portable template timer in webconfig
  2. Ability to set portable template mode in webconfig (EV1 and three mobile modes)
  3. Ability to set custom certificate for added security
  4. Ability to process multiple mobile templates
* Pass through mode (Ability to authenticate with Card OR Iris)
* Compatibility with NXT SDK in C and C++ for Linux (Requires SDK v2.2 or greater)

### 3.03.944

* The firmware supports features in Network Matcher v2.13 (or greater) and EIS v1.0 (or greater) that enables recognition of multiple card formats in one installation
* The firmware is now fully compatible with version NXT SDK v2.1 or greater.
* Expanded negative match logging capabilities

### 3.03.899

* None

### 3.02.824

* OSDP Mode
* F2F Supervised and Unsupervised
* Key Management
* Improvement to tamper UI

### 3.01.646

* Added Device ID and Model in network match message

### 3.01.581

* None

### 3.01.538

* None

### 3.01.468

* Added database update events in log
* Fix to white LED in dual authentication

### 3.01.444

* Improved ICM update process
* Updated tool tips
* Improved log-out process

### 3.01.378

* Device Temperature detection
* IR LEDs PWM control for calibration
* Intrusion tamper alarm

### 3.01.324

* Version number displays in restore points
* Manual time sync

### 3.01.159

* Firmware and ICM update as a % complete bar

### 3.01.102

* Support F2F Dual Authentication

### 3.00.18546

* Support NXT ACS test and denied ACS configuration

### 3.00.18440

* Support NXT Native SDK

### 3.00.18019

* Beta Release of firmware for EyeLock NXT devices
* Web based configuration tool
* Single IP address per device
* Supports up to 20,000 user in-memory database
* Supports incremental user record update
* Ability to display last 5,000 events
* Supports persistent logs for troubleshooting
* Support industry standard and user configurable Access Control protocols like Wiegand, PAC and F2F, etc
* Dual Authentication
* Tamper detection
* Ability to control / drive the LED / Sounder inputs on Access Control Panels
* Supports field upgrades for ICM
* Ability to factory reset

# Problems Fixed - Firmware

### 5.0.1551

* Fixed an issue with OSDP not sending the correct facility code
* Fixed an issue with wrong display of test / denied card data on web ui.
* Fixed an issue with RED LED control.

### 4.3.1429

* Fixed an issue introduced in 4.2 where password is reset to the default after upgrading
* Fixed an issue where changing the device name in webconfig would render the device inaccessible and could only be fixed with a power cycle
* Fixed an issue where the card data was not always sent when using F2F
* Fix where simultaneous access to the database from webconfig and the SDK would result in an error
* Fix to the SDK layer where the relay would not trigger
* General UI improvements

### 4.2.1390

* Fixed a slight delay between the point of authentication and unlocking the door when using F2F protocol
* Fix to the upgrade when using the admin account and admin updates are enabled
* Fix to the restore when using the admin account and admin updates are enabled
* Fixed an issue where ‘Force TLS 1.2’ was not preserved upon firmware upgrade
* Fixed threading issues to optimize incremental updates for large scale installations
* Fixed an issue where clicking save without selecting a authentication scheme (ACS tab) will change the setting from "Iris only" to "Iris or Card"

### 4.1.1360

* Fixed an issue where portable template mode wouldn’t allow setting the access denied and test facility code after enabling portable template mode.
* Fixed an issue where the NXT would reboot under certain environmental conditions

### 4.0.1297

* Fixed an issue where the card reader LED would not stay green for the appropriate length of time
* Fixed an issue where the static IP address wasn’t preserved upon upgrading
* Fixed the ‘Test NMWS’ button
* Fixed incompatibility with Wiegand formats other than 26 bit
* Fixed issue where webconfig would hang at restore
* Minor security fixes

### 3.06.1260

* Fixed issue where Static IP address did not save
* Fixed incorrect error message when changing password

### 3.05.1193

* Support for dual authentication in Network Matcher (requires Network Matcher 2.15)
* Fix to allow a custom Wiegand format without parity checking in dual authentication
* Corrected an issue where invalid card messages were inappropriately posted to the log in supervised F2F
* Improvements to login/logout mechanics
* Minor UI fixes to webconfig

### 3.04.1108

* Fix to 35 bit (Corporate1000) card format
* Fix to NXT performance when changing modes in Eyenroll
* Fix to return OSDP support
* Fix to spontaneous factory resets
* Fix to spontaneous tamper alarms
* Fix to fan speed value

### 3.03.944

* Fix to ‘Test network matcher' button
* Fix to handling of empty strings in NXT database
* Fix to automatic NIST time sync

### 3.03.899

* Fix to intermittent device hanging while using dual authentication
* Fix to improper signal sent to Honeywell NetAXS-123

### 3.02.824

* Fix to upgrade process to prevent file corruption
* Fix to preserve MAC address during upgrade
* Fix to time stamp in logs
* Fix to tamper out signal
* Fix to device start-up performance
* Fix to yellow hang during update
* General UI cleanup

### 3.01.646

* Fix to delay with timers
* Fix to network match message
* Fix to log-off timer reset
* General UI clean up
* Fix to PW change field validation

### 3.01.581

* Corrections to LED sequence in ACS control mode using dual authentication
* Minor fixes to factory reset
* Fix to update feature
* General UI clean up
* Fix to locate device feature
* Repeat authorization set to minimum of 2 seconds

### 3.01.538

* Dual authentication LED performance improvement
* Optimization of CPU usage
* Fix to occasional double negative matches
* Fix to default certificate date
* Fix to factory reset
* Time sync fix
* General UI clean up

### 3.01.468

* Optimization to large database transfers
* Fix to authentication reporting in logs
* Fix to incremental updates in dual authentication
* General UI clean up

### 3.01.444

* Fix to dual authentication for >26 bit formats
* Fixed master and slave connection
* Fix to number of log events
* Fix to order of log events

### 3.01.378

* Fix to single-eye enrollments
* Fix to master image count
* Fix to DNS time server settings
* General UI clean up
* Fix to factory reset
* Fix to hard reset

### 3.01.324

* Fix to factory reset
* Fix to erroneous log messages
* Fix to restore points
* General UI clean up
* Fix to timed log-out
* Fix to password reset
* Fix to network matcher enabling
* General UI clean-up

### 3.01.159

* Fix for static IP address setting
* Fix for ICM update
* Fix for F2F Dual Authentication display issue in WebConfig
* Fix for tamper when no card reader is present
* Changed default login and password to ‘admin’ and ‘installer’
* Fix to log formatting

### 3.01.102

* Fix to badgeID error message
* Fix to secure settings in Webconfig
* Interface for OSDP
* Fix to socket errors in log
* Fix to factory reset tool tip
* Fix to tamper synchronization between device and Webconfig
* Fix to deleting a restore point
* Fix to log format; now utilizes a .csv format
* Fix to Webconfig save operation
* Fix to restore point creation
* Added limit to number of restore points
* Fix to event logging
* General interface clean-up
* Fix to Eyenroll to preserve databases and configuration settings upon upgrade
* Fix to enrollment error messages
* Fix for high-contrast themes
* Fix to admin privileges in Webconfig

### 3.00.18546

* Fix to re-boot mechanism
* Fix for ‘test ACS’ function

### 3.00.18440

* Fix for default IP address
* Fix for loss of static IP address
* Fix to time synchronization
* Fix to relay delay
* Fix to database download

# Appendix: Technical Notes

### Technical Note 1: NXT firmware reports successful upgrade but ICM version is wrong

*(Applies to all versions except 4.0)*

When trying to upgrade the device from 3.3. to 3.4 or higher, occasionally the ICM firmware fails to upgrade even though the upgrade process reports no error. As a result, the ICM FW will show up as 67.x.x. (pictured below). **To recover from this, use the webconfigTool “Software -> Restore Now” functionality to restore back to 3.3 version and then attempt the upgrade again.**

