



Release Notes

Nymi Enterprise Edition

3.3.1

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Nymi Enterprise Edition 3.3.1

This document describes the new features, enhancements, fixes and open issues for the Nymi Enterprise Edition 3.3.1 and is part of the Nymi Enterprise Edition documentation suite, which provides information to users and NES Administrators. The term NES Administrator refers to the person in the enterprise that manages the Nymi Enterprise Edition solution for their workplace.

Nymi Enterprise Edition provides an authentication solution that addresses security, compliance, and productivity all at once. The combination of a highly-secure wearable device with an easily deployed enterprise-grade software solution allows users to unlock doors, login to workstations and applications, and sign off on critical tasks with strong identity assurance. Focusing on privacy, security and a natural user experience, Nymi Enterprise Edition brings convenient authentication to active workers in challenging environments.

Nymi Enterprise Edition 3.3.1 includes the following component versions:

- Nymi Band™ version—3.0
- Firmware version of Nymi Band— 4.1.10-6
- Nymi Band Application— 3.3.1.3
- Nymi Enterprise Server— 3.3.0.3
- Nymi SDK—5.7.1+6-6

About Nymi Enterprise Edition

Nymi Enterprise Edition provides you with the following features.

Nymi Band

The Nymi Enterprise Edition Nymi Band (Gen 3) is a wearable device that provides the wearer with the following features.

- Biometric Authentication—The Nymi Band uses a multi-factor biometric authentication method to simultaneously match a fingerprint and use liveness detection (ECG) to validate that the person who is wearing the Nymi Band is also the person who is touching the fingerprint sensor. Once you register a user with the Nymi Band and enroll the Nymi Band in your enterprise, only the correct person can authenticate with the Nymi Band. See the *Nymi Enterprise Edition Administration Guide* for more information.
- On-body detection—The Nymi Band detects when the it is attached to and removed from a wrist.
- NFC-enabled—The Nymi Band supports Near-Field Communication (NFC). You tap your authenticated Nymi Band near or on an NFC reader, to indicate the intent to perform a task, for example, to unlock a terminal. If you are authorized, the operation completes.

Nymi Band Application

A Windows application that you install on the network terminals in your environment. Employees use the Nymi Band Application to register their Nymi Band and enroll their Nymi Band with the enterprise. The Nymi Band Application was called Nymi Enterprise Management for Employees prior to release 2.3.0.

Nymi Enterprise Server

Nymi Enterprise Server (NES) is the main software component of Nymi Enterprise Edition. NES provides a secure link between every employee, their Nymi Band, and their corporate identity. NES Administrators use the NES Administrator Console web interface to centrally manage the NES configuration. Install the NES software on a Windows server in your environment. See the *Nymi Enterprise Edition Deployment Guide* for more information.

Nymi API WebSocket Interface

The Nymi API WebSocket Interface provides Nymi developers with an alternative way to utilize the functionality of the Nymi SDK, over a WebSocket connection managed by a web-based or other application. The Nymi API WebSocket Interface allows developers to write web applications that access services available from the Nymi Enterprise Edition solution. See the *Nymi API WebSocket Interface Guide* for more information.

Nymi API C Interface

The Nymi API C Interface exposes a simple C interface that allows developers to create custom Nymi-enabled Application (NEAs). NEAs communicate with NES and integrate Nymi Enterprise Edition with existing software solutions in a manufacturing site, such as MES, SSO or IAM. See the *Nymi API C Interface Application and Developer's Guide* for more information.

Nymi API for Linux

The Nymi API for Linux is available to developers for building a Nymi-enabled Application within a Linux environment.

New in this Release

This section describes the new features included in the Nymi Enterprise Edition 3.3.1 release.

Enrollment and Authentication Improvements

Nymi implemented Nymi Band Application and firmware changes in Nymi Enterprise Edition 3.3.1 to improve the enrollment and authentication experience.

To improve the quality of the fingerprint template that the Nymi Band creates during enrollment, the following changes were made:

- Updating the fingerprint sensor library and detection algorithm.
- Increasing the number of fingerprint images captured during enrollment from 3 images to 5 images.
- Enhancing messaging and images in the Nymi Band Application to provide best practices and visual guidance to the user.

To improve the user experience during authentication, the Nymi Band:

- Provides users with an easy way to determine if an authentication is due to a fingerprint mismatch. If authentication fails due to a fingerprint mismatch, the Nymi Band vibrates and displays the **Retry** message approximately 1 second after the user places their finger on the fingerprint sensor.
- Provides the user with the ability to quickly retry an authentication failure that resulted from a fingerprint mismatch.
- Refines the fingerprint template on subsequent authentications. Nymi recommends that users perform 10 authentications immediately after enrollment to improve the quality of the template.

Note: To implement these improvements, after you update the Nymi Band firmware, you must re-enroll the Nymi Band. The Nymi Enterprise Edition Administration Guide provides more information.

Nymi Software Backward Compatibility

Release Compatibility with Nymi Band 2.0

The Nymi Enterprise Edition 3.3.0 release remains compatible with Nymi Band 2.0. To use your existing Nymi Band 2.0 with Nymi Enterprise Edition 3.3.0 infrastructure, you must update the Nymi Band to firmware version 3.5.3.17, which was released in Nymi Enterprise Edition 2.6.x. Contact your Nymi Solution Consultant for additional information regarding compatibility of your Nymi Band 2.0.

Note: Nymi Band 2.0 does not support new features that were introduced with the Nymi Band 3.0, such as:

- Seos support
- Band Label
- Evidian Smart Card support
- Fingerprint sensor library and detection algorithm changes

You cannot apply 3.3.x firmware to a GEN 2 Nymi Band.

Release Compatibility with Nymi Band 3.0

The Nymi Band 3.0 has been designed to be backwards compatible with existing Nymi Enterprise Edition deployments. You can deploy Nymi Band 3.0 in the following environments seamlessly.

- Nymi Enterprise Edition 3.3.0
- Nymi Enterprise Edition 3.2.1
- Nymi Enterprise Edition 2.6.x

Nymi Enterprise Edition Infrastructure Compatibility

Nymi Enterprise Edition 3.2.1 introduced a new generation of Nymi SDK that improves reliability to support adoption of the Nymi Enterprise Edition solution in production environments. There are no SDK changes in Nymi Enterprise Edition 3.3.1.

Important: There is no guarantee that individual SDK components across product generations will function together correctly. For example, the Nymi Bluetooth Endpoint (NBE) from Nymi Enterprise Edition 2.6.0 is not guaranteed to function correctly with the Nymi Agent from Nymi Enterprise Edition 3.2.1 and later. For upgrade instructions for Nymi Enterprise Edition 3.2.1, refer to the Nymi Enterprise Edition Administration Guide.

Note: With the new generation of the SDK, there is no break in compatibility from NEE 2.x for the Nymi API in this release.

Known Issues in 3.3

The following known issue are reported in the 3.3 release.

Table 1: Known Issues 3.3

Issue Number	Issue	Workaround
NEM-2453	When upgrading NES from Nymi Enterprise Edition 2.6.X to Nymi Enterprise Edition 3.3.0, if the NES Administrator Console is left open in a browser page, there can be deprecation in functionality. The logout button will not work.	Before performing an upgrade of NES, close all browsers with the NES Administrator Console open.

Known Issues in 3.2.1

The following known issue are reported in the 3.2.1 release.

Table 2: Known Issues 3.3

Issue Number	Issue	Workaround
SOL-365	During the import of the <i>fullchain.p12</i> file, no keys are found for the certificate during the NES installation. While <i>certlm.msc</i> displays a private key icon next to the NES L2 certificate, Windows is not able to access the private key. This results in a failure on the NES diagnostics page indicating that there was an error generating test certificates.	Before performing an upgrade of NES, close all browsers with the NES Administrator Console open.
NEM-2302	Previously configured database logins are not saved in the generated <i>.ninst</i> file when loaded from a previous installation.	To generate a complete <i>.ninst</i> file, export the settings immediately after completing a fresh installation of NES.

Issue Number	Issue	Workaround
NEM-2295	NES does not have sufficient Application Pool identity permissions to support the infrastructure (NEA certificate generation, look-ups, etc.).	Change the Application Pool identity setting to LocalSystem.
NEM-2249	In the NES GUI installer, the user is unable to edit database login details after initial entry of details.	Use the original database user details entered for the new user/auditor, or close and restart the NES installer.
NEM-2439	Completing a NES installation with a specific user account specified for the Application Pool identity, where the user account which does not have Database privileges, results in database errors when running tests on the database page in the NES installer.	If a NES installation is completed by a user who does not have Database permissions, complete the installation without running tests on the Database page of the installer.
SDK5-1618	When upgrading the Nymi runtime from Nymi Enterprise Edition 2.6 to Nymi Enterprise Edition 3.2, the Nymi Websocket API stops working.	Replace the original <i>nyimi_agent.toml</i> file with the <i>nyimi_agent.toml</i> file from the Nymi Enterprise Edition 3.2.1 package.

Issue Number	Issue	Workaround
NEM-1954	After hardening the SQL database, users cannot log in to the Nymi Band Application and the NES diagnostic page reports the error: "Failed to decrypt a column encryption key using key store provider..."	To configure hardening on NES, during the NES installation, configure the NES to use LocalSystem identity from the Application Pool Identity list. This can be changed on the IIS page in the NES installer.

Nymi/Evidian Issues

The following section identifies issues when using Nymi with Evidian EAM Enterprise SSO solutions.

For the best experience of using Nymi with Evidian EAM Enterprise SSO solutions, Nymi recommends the following versions depending on the deployment type:

Table 3: Nymi Evidian Deployment Options

Evidian Deployment	Recommendations for Evidian EAM Enterprise SSO versions
Mixed configurations supporting RFID and Wearable for ESSO	10.02, Patch Level 2 and later

Nymi-Evidian Known Issues

Issue Number	Issue	Workaround
SOL-405	In a Wearable configuration, after completing Windows logon with the Nymi Band, when removing the Nymi Band, the Windows session is locked.	During Windows logon with the Nymi Band, remove the Nymi Band from the NFC reader as soon as it is recognized. Holding the Nymi Band on the reader for longer time periods will switch Evidian to “token on the reader mode.” With this mode, the reader will lock the Windows session if the Nymi Band is removed.
SOL-438	When using the Nymi-Evidian solution with Evidian version EAM v10.00b6846.23 (10.00) in an RDP environment, users may still have to press the sign-in button even after unlocking the terminal with an NFC tap.	n/a
SOL-358	A Nymi Evidian deployment on Windows 7 with pending Windows updates does not lock the end point when you remove the authenticated Nymi Band from your wrist or when you move out-of-range from your computer.	n/a

Appendix 1: Documentation Package for Nymi Enterprise Edition 3.3.1

Documentation for Nymi Enterprise Edition can be found in the release package delivered for Nymi Enterprise Edition 3.3.1.

Core Documentation

The following documentation is provided with the standard Nymi Enterprise Edition 3.3.1 package. This table identifies changes to documentation since the last release package.

Document Title	Reference	Modifications
Nymi Enterprise Edition Release Notes 3.3.1	NymiEnterpriseEditionReleaseNotesNEE3.3.1.pdf	Updated for the Nymi Enterprise Edition Release Notes 3.3.1
Nymi Overview Guide v3.0	NymiOverviewGuide_V3_20201218.pdf	No modifications
Nymi Enterprise Edition Administration Guide v 4.0	NymiAdminGuide_V4_20210530.pdf	Updated for the Nymi Enterprise Edition Release Notes 3.3.1
Nymi Enterprise Edition with Evidian Installation and Configuration Guide v 4.0	NymiEvidianInstallConfigGuide_V4_20210530.pdf	Updated for the Nymi Enterprise Edition Release Notes 3.3.1
Nymi Enterprise Edition Deployment Guide v 3.0	NymiDeploymentGuide_V3_20201218.pdf	No modifications
Nymi Enterprise Edition Troubleshooting Guide v 3.0	NymiTroubleshootingGuide_v3_20201218.pdf	No modifications
Nymi Enterprise Edition Nymi Band Regulatory Information Guide	NymiBandRegulatoryInformationGuide_V2_20201218.pdf	No modifications
Nymi Enterprise Edition Security Whitepaper	NymiEnterpriseEditionSecurityWhitePaper_v2.0_20200918.pdf	No modifications

Document Title	Reference	Modifications
Third Party Licenses Document	NymiThirdPartyLicenses_V3_20200828.pdf	No modifications
Nymi API WebSocket Interface Application and Developer's Guide	NymiAPIWebSocketInterfaceGuide_V2_20200918.pdf	No modifications
Nymi API C Interface Application and Developer's Guide	NymiAPICInterfaceGuide_V2_20200918.pdf	No modifications
Nymi API for Linux Application and Developer's Guide	NymiAPILinuxGuide_V2_20200918.pdf	No modifications

Secondary Documentation

The following documents offer additional support for the Nymi Enterprise Edition 3.3.1 solution. These documents are not included in the Nymi Enterprise Edition 3.3.1 package but are available in the knowledge base. Visit the [Nymi Support](#) webpage.

- Nymi FIDO2 Guide 2.6.0 - Provides information regarding Nymi's FIDO2 implementation.
- Nymi Band 3.0 HID Seos Beta User Guide v1.1 - Provides information about using and managing the Nymi Band in HID Seos enabled physical access application environment.
- Nymi Band 3.0 Bulk Charger Reference Design - Provides reference diagram for a bulk charging solution for Nymi Bands.
- Nymi Band 3.0 Charging Recommendation Guide - Provides recommendations for bulk charging stations.

Appendix 2: NFC Readers Tested for Nymi Enterprise Edition 3.3.1

Nymi includes dedicated NFC reader compatibility testing as part of its release testing. The following table covers the specific NFC reader models tested for compatibility with NEE 3.3.0.

Note that the level of ongoing testing is indicated as follows:

- Recommended Readers - best performance; testing planned with every Nymi Enterprise Edition release going forward from apiname conkeyref="prod_names/nee"/> 3.3.0.
- Supported Readers - meet specific use cases but may not perform as well as a recommended reader; tested with every Nymi Enterprise Edition release going forward from Nymi Enterprise Edition 3.2.1.
- Verified Readers - tested against a minimum of one Nymi Enterprise Edition release; additional testing may be required to support additional releases; will be tested as part of the customer upgrade process.

NFC Readers tested with Nymi Enterprise Edition 3.3.0

NFC Reader Model	Status
HID Omnikey 5022	Recommended
ACS ACR122U	Supported
Systec CONNECT BOX	Supported
Elatec TWN4 LEGIC NFC USB	Supported
HID Omnikey 5127CK Mini	Verified with Nymi Enterprise Edition 3.2.0
ACS ACR1252U	Verified with Nymi Enterprise Edition 3.2.0
Identiv CLOUD/uTrust 3700 F	Verified with Nymi Enterprise Edition 3.2.0

Third Party Issues

The following issues are third-party related issues included in the 2.6.1 release.

Table 4: Known Issues 2.6.1

Issue Number	Description
SOL-348	Evidian Sign-in over RDP When using the Nymi-Evidian solution with Evidian version EAM-v10.00b6846.23 (10.00) in an RDP environment, users may still have to press the sign-in button even after unlocking the terminal with an NFC tap.
SOL-179	ATR Value changed The ATR value observed using Nymi supported NFC readers has changed between NEE version 2.1.1 and 2.3 firmware. Evidian uses this value to identify Nymi Bands. An Evidian configuration file needs to be updated if firmware is updated.

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