



# Nymi Enterprise Edition Release Notes

Nymi Enterprise Edition 3.3.0

2020-12-18 v1.0

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### Table 1: Revision History

Version	Date	Revision History
01	December 18, 2020	First release of document

# Nymi Enterprise Edition 3.3.0

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This document describes the new features, enhancements, fixes and open issues for the Nymi Enterprise Edition (NEE) 3.3.0.

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 3.3.0 components

Nymi Enterprise Edition 3.3.3 includes the following component versions:

- Nymi Band™ 3.0
- Firmware version of Nymi Band 3.0— 4.1.9-8
- Nymi Band Application—3.3.0.12
- Nymi Enterprise Server—3.3.0.3
- Nymi SDK—5.7.0+16-16
- OpenSC - release-3-2-10
- UserNAPI - 92

## Nymi Documentation Package

For information on the documentation available for the NEE 3.3.0, see [Appendix 2](#).

## NFC Reader Support

For information on NFC readers tested against the NEE 3.3.0 release, see [Appendix 3](#).

## New in This Release

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The following features are new in the Nymi Enterprise Edition 3.3.0 release.

### Introducing support for Coexistence of Nymi-direct integrations and Evidian Integrations

Nymi Enterprise Edition (NEE) now supports the coexistence of Nymi-direct integration and Evidian integrations within the same environment.

You can configure NEE to support either Nymi-direct integrations (default), or to support both Nymi-direct integrations and Evidian integrations simultaneously.

Nymi-direct integration supports the use of Nymi-Enabled Applications (NEAs) that make use of the Nymi SDK. Nymi's direct integration solution supports the FIDO2 standard, which can be used directly in operating systems and applications that support the FIDO2 standard.

The Evidian integration supports both Evidian-integrated applications and Evidian Windows logon. Evidian-integrated applications leverage Evidian Single Sign-on (SSO) to perform application login and/or electronic signature. Evidian Windows logon allows users to use their Nymi Band for Windows session logon, unlock, and relock when the user is away from the Windows terminal. In these scenarios, Nymi Bands are integrated with the Evidian client and controller.

Refer to [Appendix 1](#) for detailed information on installation and upgrade considerations when configuring a coexistence environment.

# Backwards Compatibility

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## Release Compatibility with Nymi Band 2.0

The NEE 3.3.0 release remains compatible with Nymi Band 2.0. To use your existing Nymi Band 2.0 with NEE 3.3.0 infrastructure, you must update the Nymi Band to firmware version 3.5.3.17, which was released in NEE 2.6.x. Please contact your Customer Success representative for additional information regarding compatibility of your Nymi Band 2.0.

NOTE: Nymi Band 2.0 does not support new features that were added with the introduction of Nymi Band 3.0 (such as Seos, Band Label, Evidian Smart Card support).

## Release Compatibility with Nymi Band 3.0

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

- NEE 3.2.1
- NEE 2.6.X

## Nymi Enterprise Edition Infrastructure Compatibility

NEE 3.2.1 introduced a new generation of Nymi SDK that improves reliability to support adoption of the NEE solution in production environments. There are no SDK changes in NEE 3.3.0.

Important: There is no guarantee that individual SDK components across product generations will function together correctly. For example, the Nymi Bluetooth Endpoint (NBE) from NEE 2.6.0 is not guaranteed to function correctly with the Nymi Agent from NEE 3.2.1. For upgrade instructions for NEE 3.2.1, refer to the *Nymi Administration Guide v2.0*.

**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

The following section lists known issues as of the NEE 3.3.0 release.

**Table 2: Known Issues in NEE 3.3.0**

Issue Number	Description
NEM-2453	<p><b>Issue:</b> When upgrading NES from NEE 2.6.X to NEE 3.3.0, if the NES Admin Console is left open in a browser page, there can be deprecation in functionality. The logout button will not work.</p> <p><b>Workaround:</b> Before performing an upgrade of NES, close all browsers with the NES Admin Console open.</p>

**Table 3: Known Issues for NEE 3.2.1**

Issue Number	Description
SOL-365	<p><b>Issue:</b> During the import of the <code>fullchain.p12</code> file, no keys are found for the certificate during the NES installation. While <code>certlm.msc</code> 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.</p> <p><b>Workaround:</b> Delete the entire certificate chain and then re-import the <code>fullchain.p12</code> (right click - import PFX) resulting in the cert chain AND key being successfully imported. If the IIS application pool identity used by NES is not "LOCAL SYSTEM", then move the NES L2 certificate to the Intermediate CA certificate store, and run "iisreset".</p>
NEM-2302	<p><b>Issue:</b> Previously configured database logins are not saved in the generated <code>.ninst</code> file when loaded from a previous installation.</p> <p><b>Workaround:</b> To generate a complete <code>.ninst</code> file, Export Settings immediately after completing a fresh installation of NES.</p>
NEM-2295	<p><b>Issue:</b> NES does not have sufficient Application Pool identity permissions to support the infrastructure (NEA certificate generation, look-ups, etc.).</p> <p><b>Workaround:</b> Change the Application Pool identity setting to <code>LocalSystem</code>.</p>

NEM-2249	<p><b>Issue:</b> In the NES GUI installer, the user is unable to edit Database login details after initial entry of details.</p> <p><b>Workaround:</b> Use the original database user details entered for the new user/auditor, or close and restart the NES installer.</p>
NEM-2439	<p><b>Issue:</b> 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.</p> <p><b>Workaround:</b> 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.</p>
SDK5-1618	<p><b>Issue:</b> When upgrading the Nymi runtime from NEE 2.6 to NEE 3.2, the Nymi Websocket API stops working.</p> <p><b>Resolution:</b> Replace the original <code>nymi_agent.toml</code> file with the <code>nymi_agent.toml</code> file from the NEE 3.2.1 package.</p>
NEM-1954	<p><b>Issue:</b> To configure hardening on NES, 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.</p>

## Resolved Issues

The following issues have been resolved in the NEE 3.3.0 release.

Table 4: Resolved Issues

Issue Number	Description
NF-3534	<p><b>Issue:</b> The Nymi Band reboots while simultaneously attempting to authenticate with corporate credentials and fingerprint authentication.</p>



## 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 5: Nymi Evidian Deployment Options**

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

**Table 6: Nymi-Evidian Known Issues**

Issue Number	Description
SOL-405	<p>Wearable configuration:</p> <p><b>Issue:</b> After completing Windows logon with the Nymi Band, when removing the Nymi Band, the Windows session is locked.</p> <p><b>Resolution:</b> 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.</p>
SOL-348	<p>Evidian EAM Enterprise SSO Sign-in over RDP</p> <p>When using the Nymi-Evidian solution with Evidian version EAMv10.00b6846.23 (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.</p>

SOL-358	<p>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.</p>
SEC-268	<p>Smart Card configuration:  <b>Issue:</b> ESSO and credential manager did not appear in the system tray after logging into a Smart Card terminal using NFC tap. This is a result of the user removing the Nymi Band from the reader too quickly.</p> <p><b>Resolution:</b> Set the KeepCredentialManagerOnAuthFailed registry key as per the <i>Nymi Evidian Install and Configuration Guide</i>. If the Nymi Band is moved too quickly, the user will be prompted to login to the Credential manager or SSOEngine again.</p>
SOL-386	<p>Smart Card configuration:  <b>Issue:</b> The SSO Engine open session/re-authentication window prompts the user to enter the directory password, with the following error message “The password stored on your Smart Card is unknown or incorrect. Either you are connecting with this card for the first time, or your password has recently been changed” after tapping their Nymi Band on an NFC reader.</p> <p><b>Resolution:</b> This issue is caused by the Nymi Band being removed too early from the NFC reader. Click ‘cancel’, the user will be presented the re-authentication window with the end user’s AD UPN, and a pre-filled password. Present the Nymi Band to the Smart Card reader and ensure that the Nymi Band is kept on the reader until authentication succeeds.</p>
SOL-385	<p>Smart Card configuration:  <b>Issue:</b> The client locking mechanism does not consistently work for smart card configuration.</p> <p><b>Resolution:</b> Restart the NBE service, and clear Evidian cache.</p>
DOC-476	<p>Smart Card configuration:  <b>Issue:</b> Smart Card terminal displays “Not assigned” on the Windows lock screen when the user attempts logging in with a Smart Card.</p> <p><b>Resolution:</b> Tap on the NFC reader a second time to unlock the terminal.</p>

# Appendix 1: Nymi and Evidian Coexistence Deployment Considerations

## Upgrades to existing deployments

To support Nymi-direct integrations and the Evidian integration simultaneously, an upgrade to NEE 3.3.0 is required. The section describes how to upgrade the components in existing Evidian integration environments, and Nymi-direct integration environments with post upgrade configuration changes that are required to continue use the Nymi Band for windows login and authentication events.

See the tables below to identify upgrade paths for your environment.

**Table 7: Upgrade Path Considerations (Evidian and Nymi integrations simultaneously)**

Current Deployment	Upgrade Path to Include Evidian Integrations in environments
NEE 2.X, 3.2.1 direct integration (no Evidian)	<p>To support coexistence of Nymi direct integrations and addition of new Evidian solutions, the following steps are required:</p> <ol style="list-style-type: none"> <li>1. Upgrade NES and the NBA to NEE 3.3.0. Edit the active policy in NES and set the enrollment destination to “NES and Evidian.” The <i>Nymi Evidian Install and Configuration Guide</i> provides detailed information.</li> <li>2. Existing users must log into the NBA to complete the enrollment in the Evidian solution. The enrollment process does not require users to repeat any existing enrollment steps (eg. Fingerprint capture).</li> <li>3. Users will see “Saving user settings” while their enrollment completes on the Evidian Controller. Enrollment data will be captured in NES and the Evidian EAM Console.</li> </ol>
NEE 2.X, 3.2.1 with Evidian	<p>To support co-existence of Nymi direct integrations with existing Evidian deployments, the following steps are required:</p> <ol style="list-style-type: none"> <li>1. Upgrade NES and the NBA to NEE 3.3.0. The NES enrollment destination shall be set to “NES and Evidian.” Follow the <i>Nymi Evidian Install and Configuration Guide</i>.</li> <li>2. Existing users who have completed enrollment of their Nymi Band for use with Evidian are required to perform a delete user data operation, Blacklist and then</li> </ol>

	<p>delete the Nymi Band in the Evidian EAM Console. The <i>Nymi Evidian Install and Configuration Guide</i> provides detailed information.</p> <ol style="list-style-type: none"> <li>Users will re-enroll their Nymi Band by using the NBA. Re-enrollment will capture enrollment data in NES and Evidian EAM Controller.</li> </ol>
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## New Installations

Use this section for installation considerations for deploying Nymi-direct integrations and the Evidian integrations simultaneously for new installations.

See the table below to identify installation paths for your environment.

**Table 8: New Installation Considerations**

Desired Deployment	Deployment Path
New deployment, Nymi direct Integration only	<ol style="list-style-type: none"> <li>Follow the <i>Nymi Deployment Guide</i>.</li> </ol>
New deployment, Evidian integrations	<ol style="list-style-type: none"> <li>Follow the <i>Nymi Evidian Install and Configuration Guide</i>.</li> </ol>

# Appendix 2: Documentation Package for NEE

## 3.3.0

Documentation for Nymi Enterprise Edition can be found in the release package delivered for NEE 3.3.0.

### Core Documentation

The following documentation is provided with the standard NEE 3.3.0 package. This table identifies versions to documentation since the last release package.

**Table 9: Core Product Documentation**

Document Title	Reference	Modifications
<i>Nymi Enterprise Edition Release Notes NEE 3.3.0</i>	NymiEnterpriseEditionReleaseNotesNEE3-3.pdf	Release notes for NEE 3.3.0.
<i>Nymi Overview Guide v3.0</i>	NymiOverviewGuide_V3_20201218.pdf	Update of this document for Nymi Enterprise Edition 3.3.0, which includes: <ul style="list-style-type: none"> <li>• correcting typographical errors</li> </ul>
<i>Nymi Deployment Guide v3.0</i>	NymiDeploymentGuide_V3_20201218.pdf	Update for the Nymi Enterprise Edition 3.3.0 release. <ul style="list-style-type: none"> <li>• Update to Setting Service Principal Names (SPN)</li> </ul>
<i>Nymi Evidian Install and Configuration Guide v2.0</i>	NymiEvidianInstallandConfigGuide_V2_20201218.pdf	Second release of this document for Nymi Enterprise Edition 3.3.0, which include: <ul style="list-style-type: none"> <li>• Updates to the Installing and Configuring NES</li> <li>• Updates to the Installing EAM Controller software sections</li> <li>• Inclusion of a new topic to</li> </ul>

		<p>modifying EAM Controller settings to support coexistence with other solutions</p> <ul style="list-style-type: none"> <li>• Updates to the Enroll a Nymi Band section</li> <li>• Changes to the sections related to Returning a Nymi Band, Handling a lost Nymi Band and Handling a Nymi Band</li> <li>• Updates to the Upgrading chapter.</li> <li>• Inclusion of new topics in Troubleshooting Evidian Error Messages</li> </ul>
<i>Nymi Administration Guide v3.0</i>	NymiAdministrationGuide_V3_20201218.pdf	<p>Update to include policy changes based on the Nymi Enterprise Edition 3.3.0 release.</p> <ul style="list-style-type: none"> <li>• Updates to Upgrading NES</li> <li>• Updates to Configure a Group Policy sections</li> <li>• Updates to Certificate Management</li> </ul>
<i>Nymi Troubleshooting Guide v3.0</i>	NymiTroubleshootingGuide_v3_20201218.pdf	<p>Update of this document for the Nymi Enterprise Edition 3.3.0 release.</p> <ul style="list-style-type: none"> <li>• Updates to NES log file chapter</li> </ul>
<i>Nymi Band Regulatory Guide v2.0</i>	NymiBandRegulatoryInformationGuide_V2_20201218.pdf	Replace graphic for Nymi Band 3.0 (Figure 1)
<i>Nymi Enterprise Edition Security White Paper v2.0</i>	NymiEnterpriseEditionSecurityWhitePaper_v2.0_20200918.pdf	No modifications.
<i>Nymi Third Party Licenses v3.0</i>	NymiThirdPartyLicenses_V3_20200828.pdf	No modifications.
<i>Nymi API Websocket Interface Guide v2.0</i>	NymiAPIWebSocketInterfaceGuide_V2_20200918.pdf	No modifications.
<i>Nymi API C Interface Guide v2.0</i>	NymiAPICInterfaceGuide_V2_20200918.pdf	No modifications.

<i>Nymi API for Linux Guide v2.0</i>	NymiAPILinuxGuide_V2_20200918.pdf	No modifications.
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## Secondary Documentation

The following documents offer additional support for the NEE 3.3.0 solution. These documents are not included in the NEE 3.3.0 package. Contact your Customer Success representative for additional details.

- *Nymi FIDO2 Guide 2.6.0*  
Information regarding Nymi's FIDO2 implementation.
- *Nymi Band 3.0 HID Seos Beta User Guide v1.1*  
This guide 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 - v1.0*  
A reference diagram for a bulk charging solution for Nymi Bands
- *Nymi Band 3.0 Charging Recommendation Guide - v1.4*  
Nymi has provided a Charging recommendation guide with recommendations for bulk charging stations

## Appendix 3: NFC Readers Tested for NEE 3.3.0

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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:

1. Recommended Readers - best performance; testing planned with every NEE release going forward from NEE 3.3.0.
2. Supported Readers - meet specific use cases but may not perform as well as a recommended reader; tested with every NEE release going forward from NEE 3.2.1.
3. Verified Readers - tested against a minimum of one NEE release; additional testing may be required to support additional releases; will be tested as part of the customer upgrade process.

**Table 10: NFC Readers tested with NEE 3.3.0**

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





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