Nymi with eInfotree Excel Module Integration Guide

Nymi Connected Worker Platform
3.0
2025-01-13

Contents

Preface

Nymi™ provides periodic revisions to the Nymi Connected Worker Platform. Therefore, some functionality that is described in this document might not apply to all currently supported Nymi products. The *Connected Worker Platform Release Notes* provide the most up to date information.

Purpose

This document is part of the Connected Worker Platform (CWP) documentation suite.

The Nymi Connected Worker Platform—eInfotree Excel Module Integration Guide provides information about how to configure the Connected Worker Platform and *eInfotree Excel Module* components to allow authenticated users to use the Nymi Band to perform authentication operations in the eInfotree Excel Module.

Audience

This guide provides information to NES and eInfotree Excel Module Administrators. An NES and eInfotree Excel Module Administrator is the person in the enterprise that manages the Connected Worker Platform with the eInfotree Excel Module in their workplace.

Revision history

The following table outlines the revision history for this document.

Table 1: Revision history

Version	Date	Revision history
1.0	July 10, 2024	First release of this document.
2.0	Novemeber 22, 2024	Second release of this document, includes update to state that the user terminal requires the Bluetooth adapater.
3.0	January 13, 2024	Third release of this document to correct the Nymi Agent port from 9210 to 9120.

Related documentation

- **Nymi Connected Worker Platform—Overview Guide**

This document provides overview information about the Connected Worker Platform (CWP) solution, such as component overview, deployment options, and supporting documentation information.

- **Nymi Connected Worker Platform—Deployment Guide**

  This document provides the steps that are required to deploy the Connected Worker Platform solution.

  Separate guides are provided for authentication on iOS and Windows device.

- **Nymi Connected Worker Platform—Administration Guide**

  This document provides information about how to use the NES Administrator Console to manage the Connected Worker Platform (CWP) system. This document describes how to set up, use and manage the Nymi Band™, and how to use the Nymi Band Application. This document also provides instructions on deploying the Nymi Band Application and Nymi Runtime components.

- **Connected Worker Platform Release Notes**

  This document provides supplemental information about the Connected Worker Platform, including new features, limitations, and known issues with the Connected Worker Platform components.

How to get product help

If the Nymi software or hardware does not function as described in this document, you can submit a support ticket to Nymi, or email support@nymi.com

How to provide documentation feedback

Feedback helps Nymi to improve the accuracy, organization, and overall quality of the documentation suite. You can submit feedback by using support@nymi.com

Nymi-eInfotree Excel Module Deployment Overview

The Nymi-eInfotree Excel Module extends the use of the Nymi Band. The Nymi Band provides the ability for a user to easily apply their digital signature to process sign-offs.

You can deploy the Nymi-eInfotree Excel Module in two different configurations, where you install the Nymi Agent software on each user terminal or where you deploy a single instance of the Nymi Agent in a centralized location and configure the user terminals to use the centralized Nymi Agent.

Review the following information to decide which configuration to deploy.

Decentralized Nymi Agent	When the user terminals in your environment are thick clients and you install the eInfotree Excel Module on the user terminal.
Centralized Nymi Agent	When the user terminals in your environments are thin clients that connect to an RDP or Citrix server to access the eInfotree Excel Module.

Note: You can deploy a configuration that uses a mixture of user terminals with centralized or decentralized Nymi Agent but for simplicity Nymi recommends that you choose one configuration, and then configure your all your user terminals to use a centralized or decentralized Nymi Agent.

Use Cases

A user can use their authenticated Nymi Band to perform e-signatures in the Nymi-eInfotree Excel Module.

Components in a Centralized Nymi Agent Configuration

The following figure provides a high-level overview of the Nymi-eInfotree Excel Module with a centralized Nymi Agent and the TCP ports that are used between the components for communication.

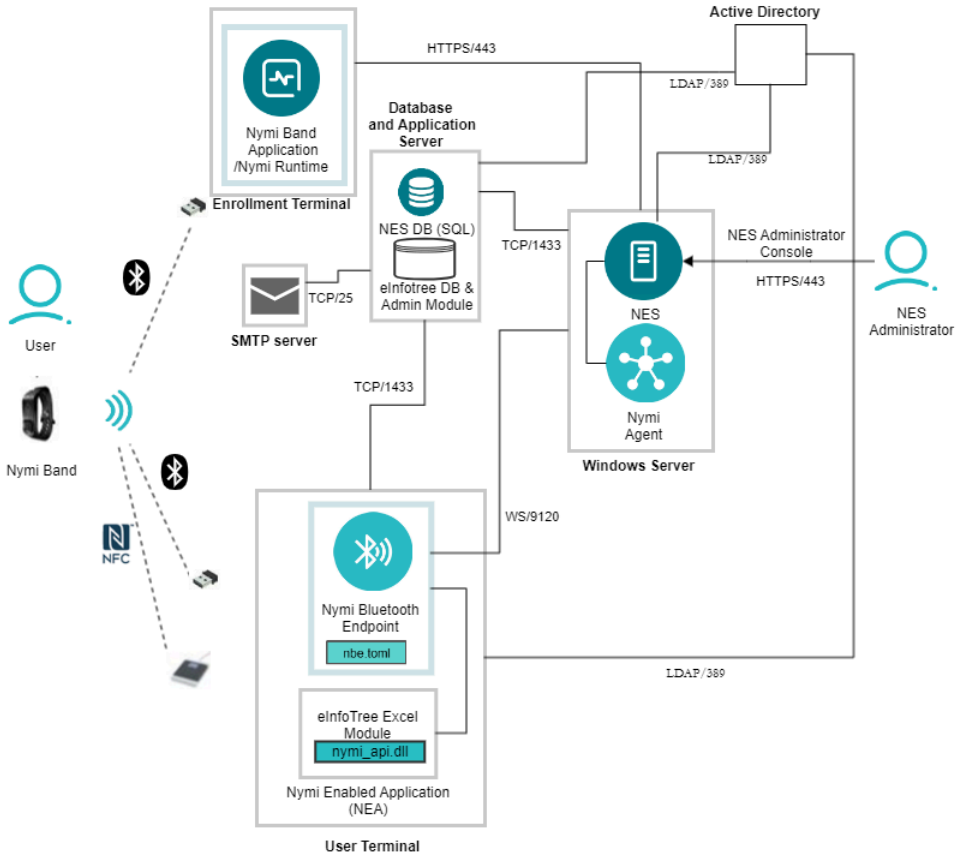

Figure 1: Connected Worker Platform with eInfotree Excel Module components and connection ports in a Centralized Nymi Agent Configuration

The Nymi-eInfotree Excel Module consists of the following components.

Table 2: Connected Worker Platform Components

Component	Description
Enrollment Terminal	Windows 10 endpoint that users access to enroll their Nymi Band.
Nymi Band Application (NBA)	A Windows application that you install on the enrollment terminal that you use to enroll a new user and link them to their Nymi Band. The Nymi Band Application requires the Nymi Runtime application, which the Nymi Band Application automatically installs. The Nymi Band Application communicates with the Nymi Band through the Nymi-supplied Bluetooth adapter, which you plug into a USB port on the enrollment terminal.

Component	Description
Nymi Band	A wearable device that the assigned user with their biometrics. An authenticated Nymi Band is Bluetooth Low Energy (BLE) and Near Field Communication (NFC)-enabled.
NES	A management server and collection of services that provides the NES Administrator Console and coordinates communication between the Nymi Band and the customer identity ecosystem (Active Directory) to manage policies and certificates.
NES Administrator Console	A web application that provides NES Administrator with an interface to manage the NES configuration and users.
Domain Controller (DC)	Windows server with Active Directory.
User Terminal	Windows 10 or Windows 11 endpoint on which you install Nymi components that allow users to perform authentication tasks with a Nymi Band tap on the NFC reader or Bluetooth Adapter. **Note:** The user terminal requires the Bluetooth adapter
Nymi Bluetooth Endpoint	Nymi Runtime component that you install on each user terminal. Provides an interface between the Bluetooth Adapter (BLE) and the Nymi Agent. You deploy Nymi Bluetooth Endpoint Daemon (NBEd) on individual workstations to provide local BLE communication with Nymi Bands through the Nymi-provided BLE Adapter, which you plug into a USB port on the user terminal.
nbe.toml	Configuration file that you create on each user terminal when the solution uses a centralized Nymi Agent. This file defines the hostname on which you installed the Nymi Agent and the connection port on which to communicate with the Nymi Agent.
Centralized Nymi Agent	Nymi Runtime component that you install in a central location on a single machine or a cluster of two or more machines that is accessible to all user terminals, for example on the server with the NES application. Provides BLE management, manages operations and message routing. Facilitates communication between NEAs and the Nymi Band, and maintains knowledge of the Nymi Band presence and authenticated states. Provides BLE management, manages operations and message routing. Facilitates communication between NEAs and the Nymi Band, and maintains knowledge of the Nymi Band presence and authenticated states.
SQL Server	Database server that contains tables that store information about the NES configuration and the Nymi Bands. The same server or another server contains the eInfortree database.
Nymi-eInfotree Excel Module	Cimcon-provided client application that supports the use of the Nymi Band to perform authentication tasks in the eInfotree Excel Module. Includes the Nymi API (nymi_api.dll) that supports the integration of eInfotree Excel Module with Nymi.

Component	Description
eInfotree Excel Administration Module	CIMCON-provided server-side application that is designed to enable the use of Excel files in a manner compliant with the FDA's 21 CFR Part 11 regulation for electronic records and Electronic Signatures. You use the software as a "plug-in" for existing Excel® sheets, to enable compliance with 21 CFR Part 11. The System Administrator accesses the eInfotree Excel Module Administration ("Administrator") program to perform functions such as managing user accounts, system configuration, and conversion of Excel files.

Firewall Port Requirements

The following tables summarizes the TCP port requirements for the Nymi-eInfotree Excel Module.

Table 3: Firewall Port Requirements

Component	Port Requirements
Enrollment Terminal	Port 389 to the Active Directory server for LDAP communication. Port 443 to the NES server for HTTPS communication.
User Terminal	Port 443 to the NES server for HTTPS communication. Port 9120 to the centralized Nymi Agent server for web socket communications, in configurations that install Nymi Bluetooth Endpoint on the user terminal and the Nymi Agent on a server. Port 1443 to the SQL server with the eInfotree database.
NES server	Port 1443 to the SQL server.
SQL Server	Optional. Port 25 to the SMTP server to allow email alerts. Port 389 to the AD server.

Components in a Local Nymi Agent Configuration

The following figure provides a high-level overview of the Nymi-eInfotree Excel Module that uses a local Nymi Agent and the TCP ports that are used between the components for communication.

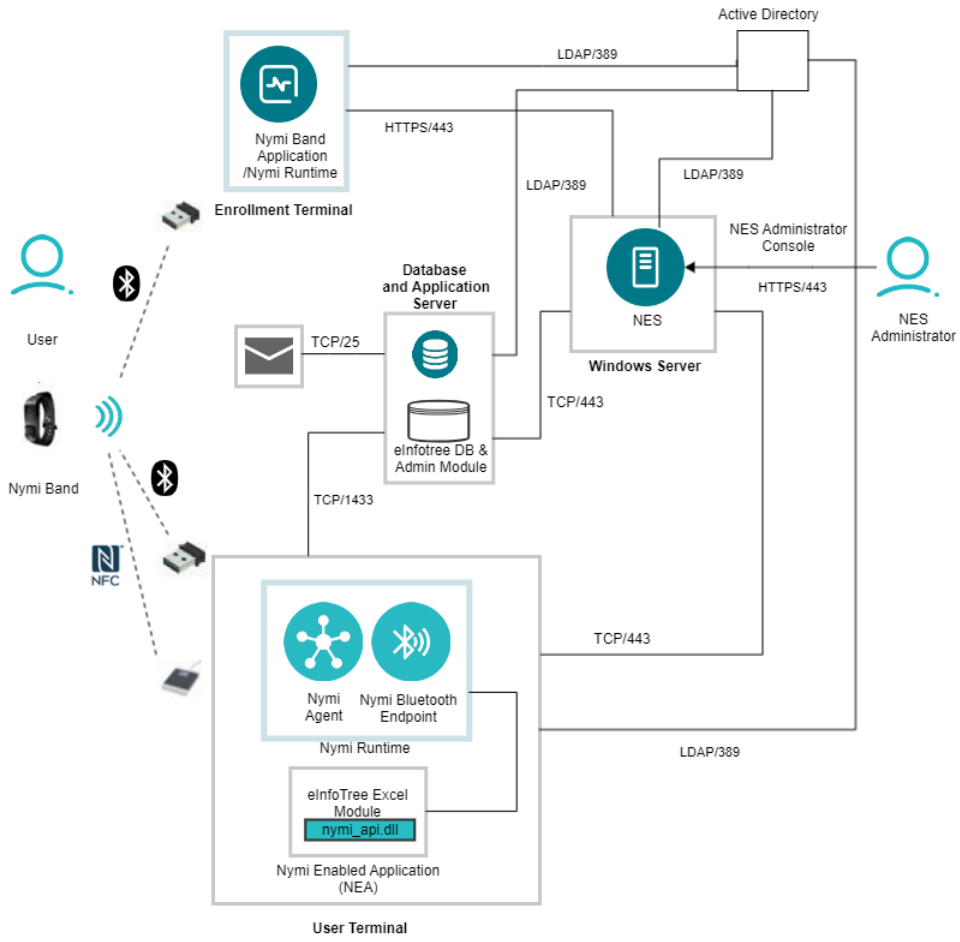

Figure 2: Connected Worker Platform with eInfotree Excel Module components and connection ports

The Nymi-eInfotree Excel Module consists of the following components.

Table 4: Connected Worker Platform Components

Component	Description
Enrollment Terminal	Windows 10 endpoint that users access to enroll their Nymi Band.
Nymi Band Application (NBA)	A Windows application that you install on the enrollment terminal that you use to enroll a new user and link them to their Nymi Band. The Nymi Band Application requires the Nymi Runtime application, which the Nymi Band Application automatically installs. The Nymi Band Application communicates with the Nymi Band through the Nymi-supplied Bluetooth adapter, which you plug into a USB port on the enrollment terminal.
User Terminal	Windows 10 or Windows 11 endpoint on which you install Nymi components that allow users to perform authentication tasks with a Nymi Band tap on the NFC reader or Bluetooth Adapter. **Note:** The user terminal requires the Bluetooth adapter
Nymi Band	A wearable device that the assigned user with their biometrics. An authenticated Nymi Band is Bluetooth Low Energy (BLE) and Near Field Communication (NFC)-enabled.
NES	A management server and collection of services that provides the NES Administrator Console and coordinates communication between the Nymi Band and the customer identity ecosystem (Active Directory) to manage policies and certificates.
NES Administrator Console	A web application that provides NES Administrator with an interface to manage the NES configuration and users.
Domain Controller (DC)	Windows server with Active Directory.
Nymi Runtime	A Windows application that you install on the enrollment terminal and user terminals. Nymi Runtime includes the Nymi Agent and Nymi Bluetooth Endpoint components.Nymi Runtime supports communication between NES, the Nymi Band and eInfotree Excel Module.
SQL Server	Database server that contains tables that store information about the NES configuration and the Nymi Bands. The same server or another server contains the eInfortree database.
Nymi-eInfotree Excel Module	Cimcon-provided client application that supports the use of the Nymi Band to perform authentication tasks in the eInfotree Excel Module. Includes the Nymi API (nymi_api.dll) that supports the integration of eInfotree Excel Module with Nymi.

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Firewall Port Requirements

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NES server	Port 1443 to the SQL server.
SQL Server	Optional. Port 25 to the SMTP server to allow email alerts. Port 389 to the AD server.

Install and Configure Nymi Components

Install and configure the required software on the enrollment terminal and end user terminals.

Note: This guide assumes that you have deployed the NES in the environment and the Nymi-eInfotree Excel Module on the user terminals. *Nymi Connected Worker Platform—Deployment Guide* describes how to deploy NES.

Set Up the Enrollment Terminal

Before a user can enroll and authenticate the Nymi Band, the NES Administrator must perform the following actions on at least one machine in the environment (the enrollment terminal). You cannot use a thin client as an enrollment terminal.

- Insert the Nymi-supplied Bluetooth adapter into an available USB port.
- Install the Nymi Band Application. The Nymi Band user requires physical access to the enrollment terminal.
- Set the NES_URL registry key.

Install the Nymi Band Application

Perform the following steps to install the Nymi Band Application on each enrollment terminal that you will use to enroll and authenticate users to their Nymi Bands.

You can perform a customizable installation or a silent installation.

Installing the Nymi Band Application with the Installation Wizard

Perform the following steps to install the Nymi Band Application.

Before you begin

Uninstall the previous version of Nymi Runtime.

Procedure

1. Download the Nymi Band Application package.
2. Double-click the *Nymi-Band-App-installer-v_`version`.exe* file.
3. On the `User Account Control` window, click **`Yes`**.
4. On the `Prerequisites` window, click **`Next`**.
5. On the `Welcome` page, click **`Install`**.

6. On the `User Account Control` page, click **`Yes`**.
   The installation wizard appears. If the installation detects missing prerequisites, perform the steps that appear in the prerequisite wizards.
7. On the `Welcome to the Nymi Runtime Setup Wizard` page, click **`Next`**.
8. On the `Nymi Runtime Setup` window, click **`Next`**.
9. On the `Service Account` window, perform one of the following actions to choose the account that starts the service:
   - Accept the default service account NTAuthority\LocalService, click **`Next`**.
   - For non-English Windows Operating Systems, choose the LocalSystem account from the drop list, and then click **`Next`**.

   Note: The service account must have permission to run as a service. Enable Service Log On provides more information about how to modify the local policy to enable this permission for the service account.

   The following figure shows the `Service Account` window.

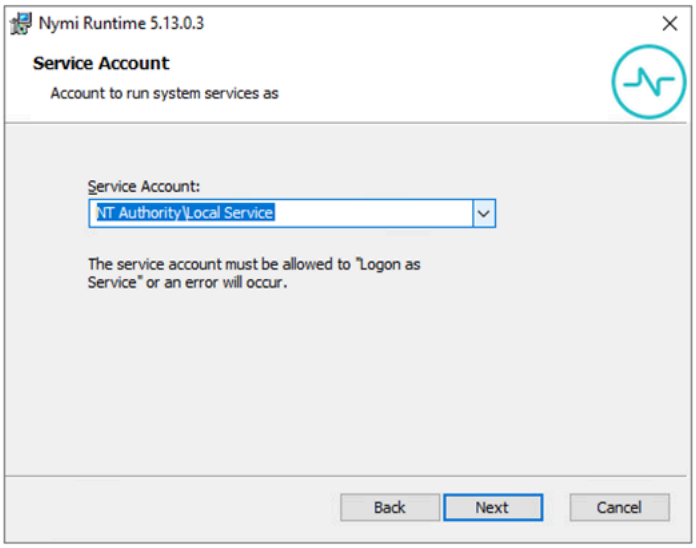


Figure 3: Nymi Runtime Service Account window

10. On the `(Optional) Nymi Infrastructure Service Account`, click **`Next`**.
    Only deployments that use web-based Nymi-enabled Applications(NEAs) with a centralized Nymi Agent require you to configure the Nymi Infrastructure Service Account.
11. On the `Ready to install` page, click **`Install`**.
12. Click **`Finish`**.
13. On the `Installation Completed Successfully` page, click **`Close`**.
14. On the `Welcome to Nymi Band Application Setup Wizard` window, click **`Next`**.
15. On the `Select Installation Folder` window, click **`Next`** to accept the default installation location.
16. In the `Ready to Install` window, click **`Install`**.
17. On the `Completing the Nymi Band Application Setup Wizard` window, click **`Finish`**.

What to do next

Confirm that the Nymi Agent and Nymi Bluetooth Endpoint services are running.

Installing the Nymi Band Application Silently

Perform the following steps to install or update the Nymi Band Application silently, for example, when you want to install the software remotely by using a software distribution application.

Procedure

1. Save the Nymi Band Application package, provided to you by your Nymi Solution Consultant.
2. Launch the command prompt as administrator.
3. From the folder that contains the Nymi Band Application, type *Nymi-Band-App-installer-v_`version`.exe /exenoui /q*

   Where you replace *`version`* with the version of the Nymi installation file.

   The installation command returns to a command prompt immediately, and the installation completes silently. When the installation completes, the Nymi Band Application and Nymi Runtime applications appear in the `Program and Features` applet.

   Note: Alternately, you can track the progress by performing an unattended installation, which displays the installation screens but does not require user intervention by replacing the */q* option with the */passive* option in the installation command.

Configuring the Nymi Enterprise Server URL

After you install the Nymi Band Application, perform the following steps to ensure that the enrollment process connect to the correct Nymi Enterprise Server(NES).

Procedure

1. Run *regedit.exe*
2. On the `User Account Control` window, click **`Yes`**.
3. Navigate to **`HKEY_LOCAL_MACHINE > Software > Nymi`**.

   Note: If you installed the Nymi Band Application on a Citrix server, navigate to HKEY_CURRENT_USER instead of HKEY_LOCAL_MACHINE.
4. Right-click **`NES`**, and then select **`New > String value`**.
5. In the **`Value`** field, type ***URL***.
6. Double-click **`URL`** and in the **`Value Data`** field, type ***https://nes_server/NES_service_name/*** or ***http://`nes_server`/`NES_service_name`*** depending on the NES configuration

   where:

   - *`nes_server`* is the FQDN of the NES host. The FQDN consists of the ***hostname.domain_name***. You can also find the FQDN by going to the server on which you deployed NES viewing the properties of the computer. The *`nes_server`* is the value that appears in the **`Full computer name`** field.

- *`NES_service_name`* is the name of the service mapping for NES in IIS, which maps a virtual directory to a physical directory. You can choose any name for this mapping, but Nymi recommends that you specify a name that is descriptive to the Connected Worker Platform, for example, NES.

7. Click **OK**.

Nymi Runtime Installation and Configuration

The Nymi-eInfotree Excel Module uses the Nymi Runtime application to facilitate communication between NES, the Nymi Band, and eInfotree Excel Module.

The Nymi Runtime software contains two installable components, the Nymi Bluetooth Endpoint and Nymi Agent.

The Nymi Runtime installation and configuration differs depending on if the environment uses a centralized Nymi Agent or if each user terminal includes a local Nymi Agent.

Local Nymi Agent Configuration

In this configuration you install both components of the Nymi Runtime locally on each user terminal.

Use this configuration when:

- Users open the eInfotree Excel Module on the user terminal.
- User terminals reside in the same domain as the NES server.

Centralized Nymi Agent Configuration

In this configuration, you install a centralized Nymi Agent on a separate server, and then install the Nymi Bluetooth Endpoint component on each user terminal.

Use this configuration when:

- Users open the eInfotree Excel Module. within a remote session host, such as Citrix or RDP server.
- User terminals reside in a different domain from the NES server.

Local Nymi Agent Installation and Configuration

You can install Nymi Agent and the Nymi Bluetooth Endpoint components of the Nymi Runtime on the user terminals that are a member of the same domain as the NES server.

(Windows) Install Nymi Runtime

Nymi Runtime facilitates communication between NES and the Nymi Bands.

Install the Nymi Runtime on each user terminal on which you will also install a Nymi-enabled Application. You can perform a customizable installation or a silent installation.

Note: The Bluetooth (BLE) driver is installed with the installation of Nymi Runtime. The BLE driver may also be installed separately by going to the Nymi SDK package and installing the *BleDriver .msi* file.

Performing Nymi Runtime Installation or Update with the Installation Wizard

Perform the following steps to install or update Nymi Runtime on the user terminals.

Procedure

1. Log in to the terminal, with an account that has administrator privileges.
2. Create a backup copy of the *C:\Nymi\Bluetooth_Endpoint\nbe.toml* file.
3. Extract the Nymi SDK distribution package.
4. From the *..\nymi-sdk\windows\setup* folder, right-click the *Nymi Runtime Installer version.exe* file, and select **`Run as administrator`**.
5. On the `Welcome` page, click **`Install`**.
6. On the `User Account Control` page, click **`Yes`**.
   The installation wizard appears. If the installation detects missing prerequisites, perform the steps that appear in the prerequisite wizards.
7. On the `Welcome to the Nymi Runtime Setup Wizard` page, click **`Next`**.
8. On the `Nymi Runtime Setup` page, click **`Next`**.
9. On the `Service Account` window, perform one of the following actions to choose the account that starts the service:
   - Accept the default service account NTAuthority\LocalService, click **`Next`**.
   - For non-English Windows Operating Systems, choose the LocalSystem account from the drop list, and then click **`Next`**.
10. On the `(Optional) Nymi Infrastructure Service Account`, click **`Next`**.
    Only deployments that use web-based Nymi-enabled Applications(NEAs) with a centralized Nymi Agent require you to configure the Nymi Infrastructure Service Account.
11. On the `Installation Completed Successfully` page, click **`Close`**.
12. In the `Windows Services` applet, confirm that you can see the *Nymi Agent* and *Nymi Bluetooth Endpoint* services, and that the status of each service is *`Running`*.

Installing the Nymi Runtime Silently

Perform the following steps to install or update the Nymi Runtime and the BLE adapter drivers silently, without user intervention.

Procedure

1. Log in to the network terminal with an account that has administrator privileges.
2. Download and extract the Nymi SDK package.

3. Launch the command prompt as administrator.
4. Change to the *..\nymi-sdk\windows\runtime* folder, and then type one of the following commands:

   - ```
     "Nymi Runtime Installer version.exe" /exenoui /q /log NymiRuntimeInstallation.log
     ```
   - For installations on non-English operating systems,

     ```
     "Nymi Runtime Installer version.exe" ServiceAccount="LocalSystem" /exenoui /q /log
      NymiRuntimeInstallation.log
     ```

   Where you replace *version* with the version of the Nymi installation file.

   Note: Ensure that you enclose the filename in double quotes.

   The installation command returns to a command prompt immediately, and the installation completes silently. When the installation completes, Nymi Runtime appears in the `Program and Features` applet and *NymiRuntimeInstallation.log* file contains information about the installation.

   Note: Alternately, you can track the progress by performing an unattended installation, which displays the installation screens but does not require user intervention by replacing the */q* option with the */passive* option in the installation command.

What to do next

Confirm that the Nymi Agent and Nymi Bluetooth Endpoint services are running.

Remote Nymi Agent Installation and Configuration

Deploy a centralized Nymi Agent on a Windows server in the environment, for example, the NES server, and then the Nymi Bluetooth Endpoint on each user terminal.

Performing a Nymi Agent Installation or Update By Using the Installation Wizard

Install the Nymi Agent application, which is included in the Nymi Runtime installation package, on a server in the environment.

About this task

When you install the Nymi Runtime software, you can choose to install the Nymi Agent application only.

Procedure

1. Log in to the terminal, with an account that has administrator privileges.
2. Extract the Nymi SDK distribution package.
3. From the *..\nymi-sdk\windows\setup* folder, right-click the *Nymi Runtime Installer version.exe* file, and select **`Run as administrator`**.
4. On the `Welcome` page, click **`Install`**.
5. On the `User Account Control` page, click **`Yes`**.
     ```

The installation wizard appears. If the installation detects missing prerequisites, perform the steps that appear in the prerequisite wizards.

6. On the `Welcome to the Nymi Runtime Setup Wizard` page, click **`Next`**.
7. On the `Nymi Runtime Setup` page, expand **`Nymi Runtime`**.
8. Select **`Nymi Bluetooth Endpoint`**, and then select **`Entire feature will be unavailable`**.

   The following figure provides an example of the `Nymi Runtime Setup` window with option to make **`Nymi Bluetooth Endpoint`** unavailable.

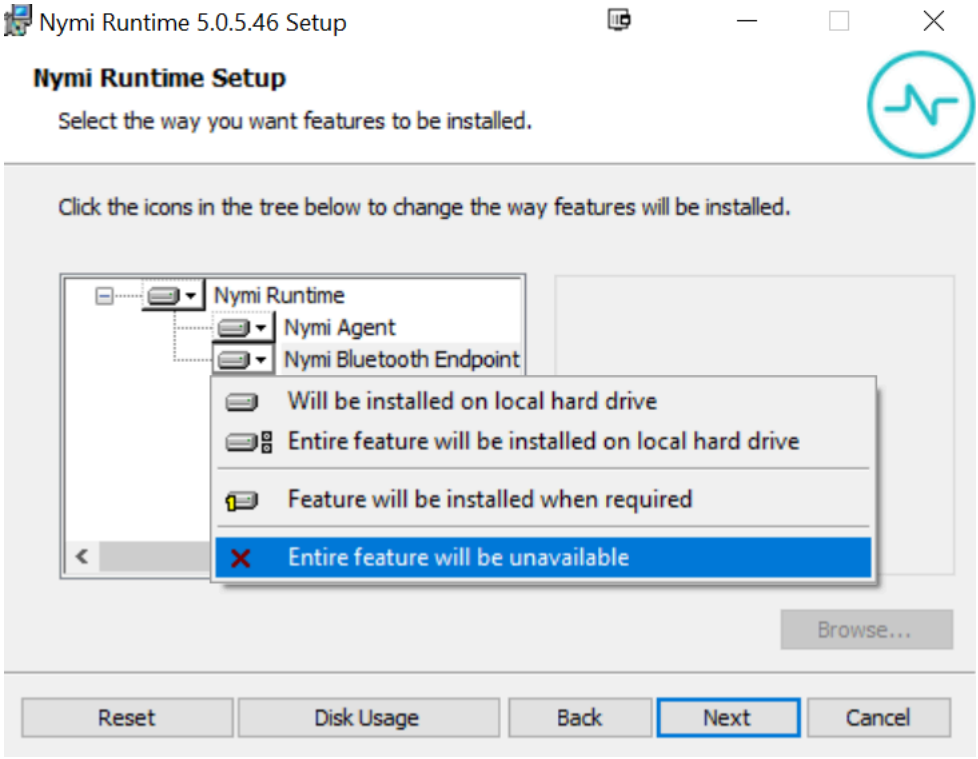


Figure 4: Nymi Bluetooth Endpoint feature will be unavailable

9. Observe that **`Nymi Bluetooth Endpoint`** is not available, as shown in the following figure, and then click **`Next`**.

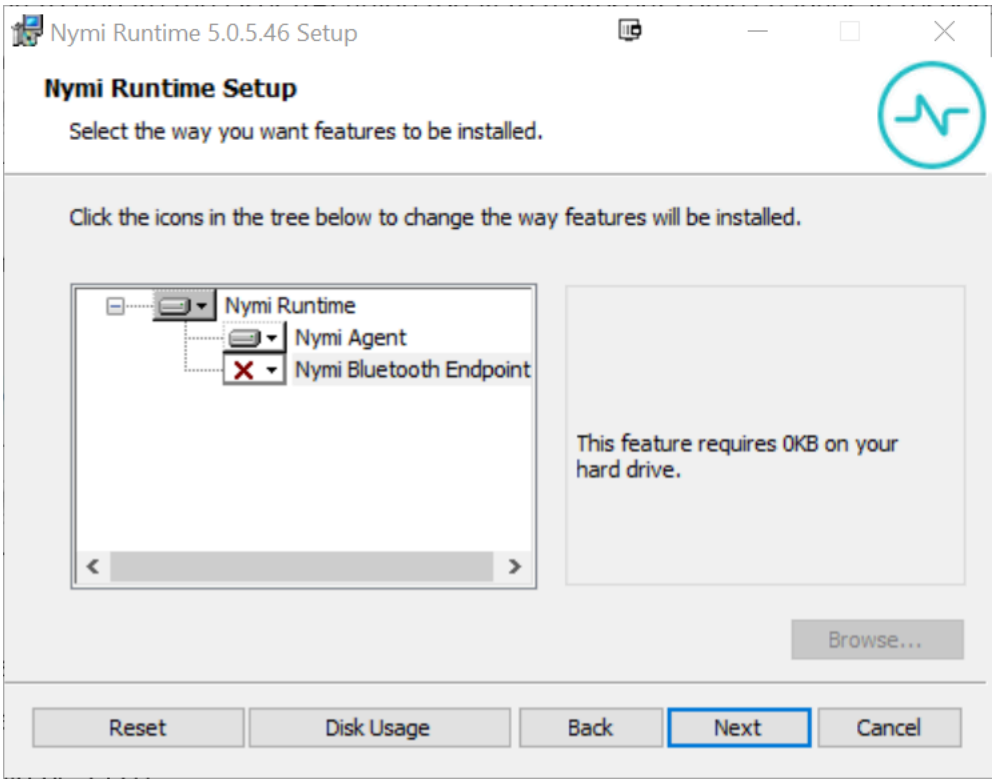


Figure 5: Nymi Bluetooth Endpoint feature is not available

10. On the `Service Account` window, perform one of the following actions to choose the account that starts the service:

    - Accept the default service account NTAuthority\LocalService, click **`Next`**.
    - For non-English Windows Operating Systems and for Nymi WebAPI configurations where you install the centralized Nymi Agent on the NES server, choose the LocalSystem account from the drop list, and then click **`Next`**.

    Note: The service account must have permission to run as a service. Enable Service Log On provides more information about how to modify the local policy to enable this permission for the service account.

    The following figure shows the `Service Account` window.

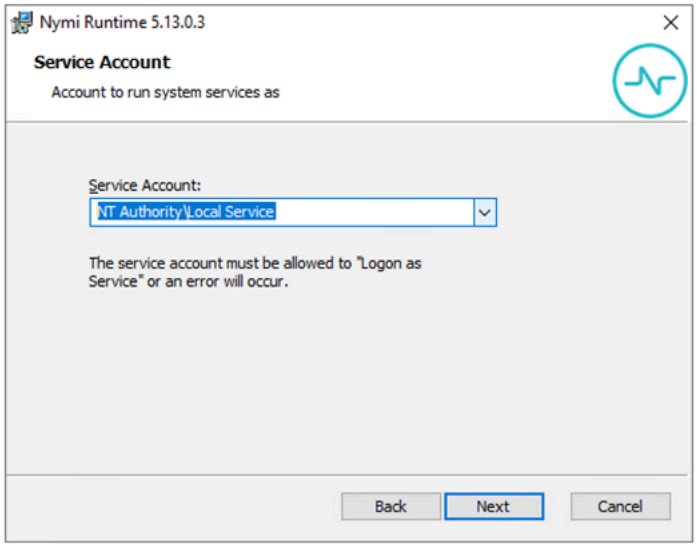


Figure 6: Nymi Runtime Service Account window

11. On the `(Optional) Nymi Infrastructure Service Account` window, specify the username and password of the Nymi Infrastructure Service Account. When you specify the username, include the domain name, for example *tw-lab\nymi_infra_service_acct*. Refer to *Appendix—Record the CWP Variables* for the service account name.

    The following figure shows the `Nymi Infrastructure Service Account` window.

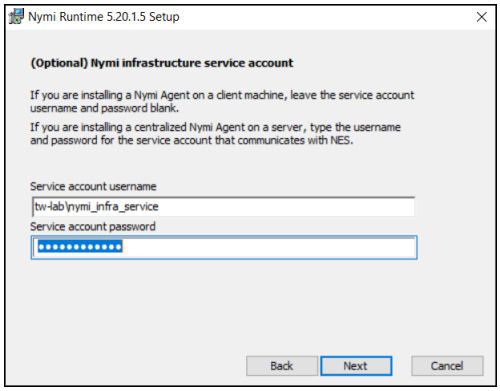


Figure 7: Nymi Infrastructure Service Account window

    The installer creates the following files in the *C:\Nymi\NymiAgent\certs* folder:

    - credentials-contains the encrypted credentials for the Nymi Infrastructure Service Account
    - Private key
    - Public key

12. On the `Ready to install` page, click **`Install`**.
13. Click **`Finish`**.
14. On the `Installation Completed Successfully` page, click **`Close`**.

Installing Nymi Bluetooth Endpoint

Install the Nymi Bluetooth Endpoint, which is included in the Nymi Runtime installation package, on each user terminal in the environment.

About this task

When you install the Nymi Runtime software, you can choose to install the Nymi Bluetooth Endpoint only.

Procedure

1. Log in to the terminal, with an account that has administrator privileges.
2. Create a backup copy of the *C:\Nymi\Bluetooth_Endpoint\nbe.toml* file.
3. Extract the Nymi SDK distribution package.
4. From the *..\nymi-sdk\windows\setup* folder, right-click the *Nymi Runtime Installer version.exe* file, and select **`Run as administrator`**.
5. On the `Welcome` page, click **`Install`**.
6. On the `User Account Control` page, click **`Yes`**.
   The installation wizard appears. If the installation detects missing prerequisites, perform the steps that appear in the prerequisite wizards.
7. On the `Welcome to the Nymi Runtime Setup Wizard` page, click **`Next`**.
8. On the `Nymi Runtime Setup` window, expand **`Nymi Runtime`**.
9. Select **`Nymi Agent`**, and then select **`Entire feature will be unavailable`**, as shown in the following figure, and then click **`Next`**.

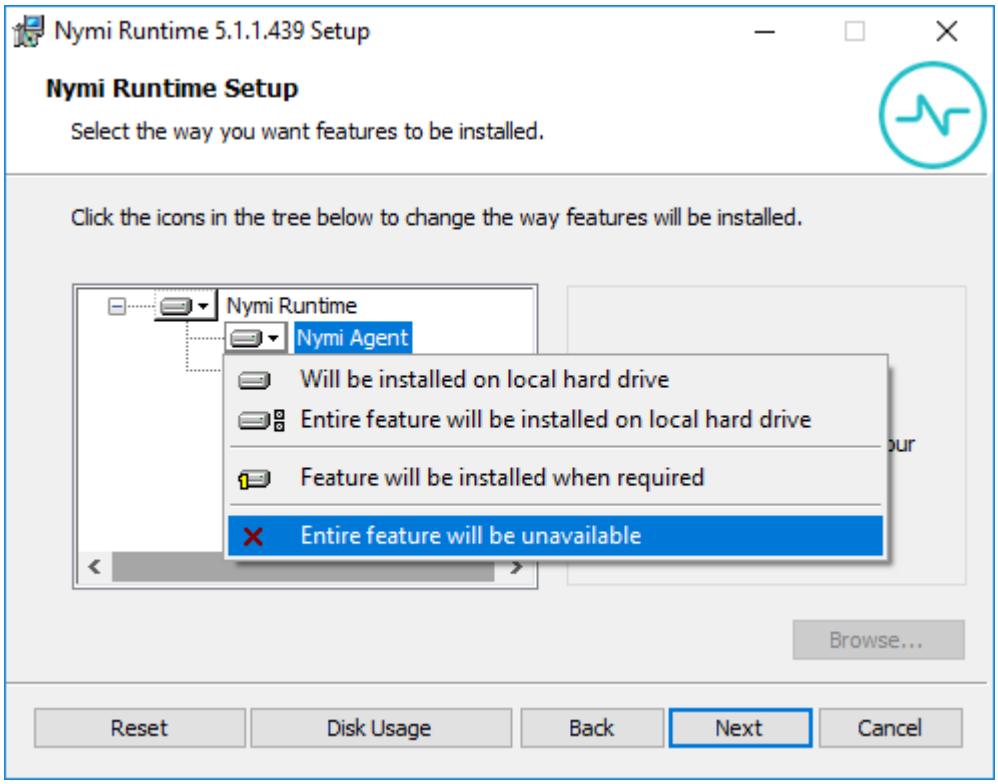


Figure 8: Nymi Agent feature will be unavailable

10. Observe that **`Nymi Agent`** is not available, as shown in the following figure, and then click **`Next`**.

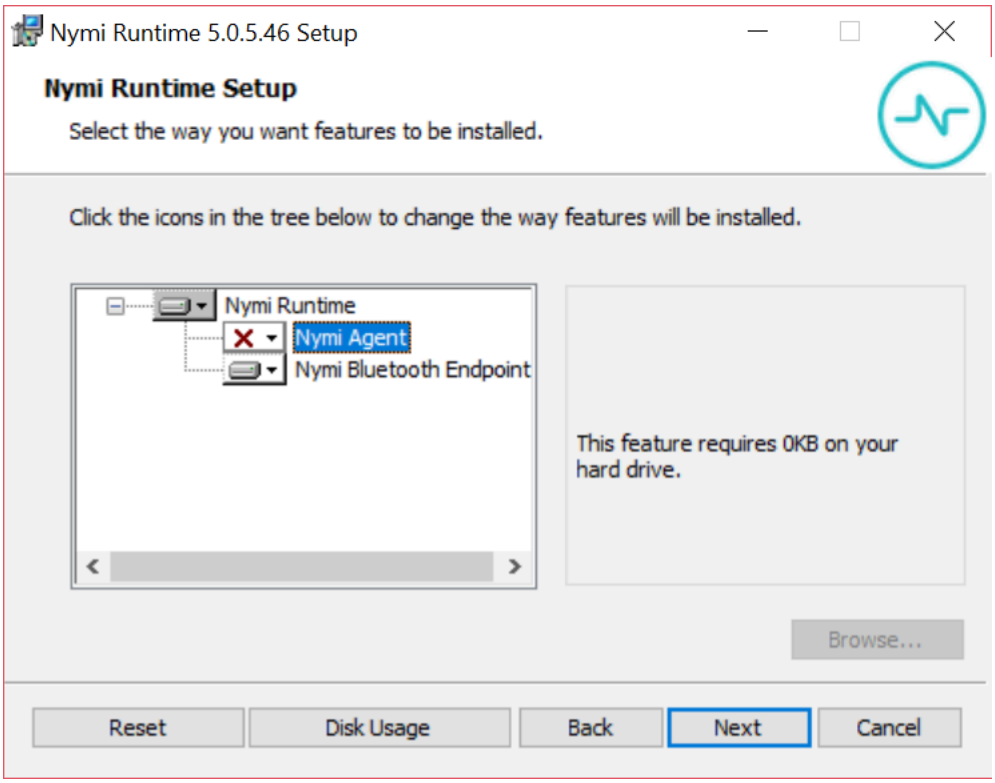


Figure 9: Nymi Agent feature is not available

11. On the `Service Account` window, perform one of the following actions to choose the account that starts the service:
    - Accept the default service account NTAuthority\LocalService, click **`Next`**.
    - For non-English Windows Operating Systems, choose the LocalSystem account from the drop list, and then click **`Next`**.
12. On the `(Optional) Nymi Infrastructure Service Account`, click **`Next`**.

    Only deployments that use web-based Nymi-enabled Applications(NEAs) with a centralized Nymi Agent require you to configure the Nymi Infrastructure Service Account.
13. On the `Ready to install` page, click **`Install`**.
14. Click **`Finish`**.
15. On the `Installation Completed Successfully` page, click **`Close`**.
16. Open the Windows `Services` application and confirm that the Nymi Bluetooth Endpoint service appears and the status is Running.

Updating the Nymi Bluetooth Endpoint Configuration File

The Nymi Bluetooth Endpoint file uses the *nbe.toml* file to define the location of a remote Nymi Agent.

About this task

Perform the following steps to specify the URL to the remote Nymi Agent.

Procedure

1. Make a copy of the *C:\Nymi\Bluetooth_Endpoint\nbe.toml* file (On HP Thin Pro, */usr/bin/nbe.toml*).
2. Edit the *nbe.toml* file with a text editor in administrator mode.
3. Edit the default agent_url parameter and replace the default IP address (127.0.0.1) with the FQDN of the machine that is running the remote Nymi Agent.

   For example:

   ```
   agent_url = "ws://agent.nymi.com:9120/socket/websocket"
   ```

   where ***agent.nymi.com*** is the FQDN of the remote Nymi Agent machine.
4. Save the *nbe.toml* file.
5. Restart the Nymi Bluetooth Endpoint service.

Bluetooth Adapter Placement

The enrollment terminal and each user terminal requires a Bluetooth adapter. The Bluetooth Low Energy (BLE) radio antenna in the Nymi-supplied BLED112 USB Adapter provides seamless Bluetooth capability between the Nymi Band and devices such as a laptop computer.

To ensure optimal system performance, place the Bluetooth adapter in a location that meets the following criteria:

- Is in clear line of sight to the Nymi Band.
- Is on the same side of the computer that you wear your Nymi Band.
- Is near the computer keyboard.

Note: The presence of liquids between the Nymi Band and Bluetooth adapter negatively affects the Bluetooth signal quality. This includes beverages and the human body. If Bluetooth (BLE) taps behave unexpectedly, consider another placement for the Bluetooth adapter, or edit the Nymi Bluetooth Endpoint configuration file to adjust the signal strength thresholds to perform a BLE tap (see *Edit the nbe.toml File* in the).

Configuring the Nymi-eInfotree Excel Module

Before you begin

The Nymi-eInfotree Excel Module requires .NET Framework 4.6.1 on each user terminal.

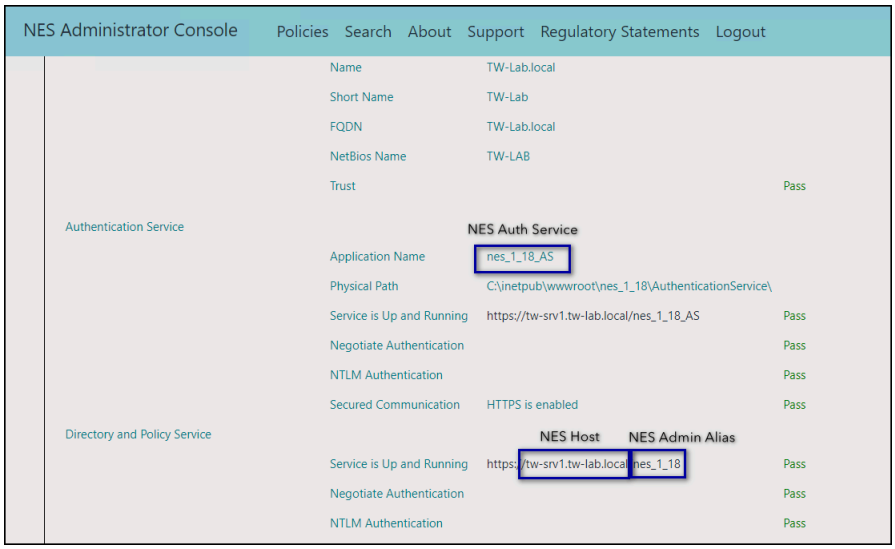
Procedure

1. Log into the NES Administrator Console as an NES Administrator, and then click **About**.
2. Click **View Full System Diagnostics**, and review the output.

   You require the following information:

   - Authentication Service instance name, which the Cimcon Nymi Server Configuration Utility refers to as *NES Auth Service*.
   - Nymi Enterprise Server(NES) hostname, which the Cimcon Nymi Server Configuration Utility refers to as *NES Host*
   - IIS instance name for NES, which the Cimcon Nymi Server Configuration Utility refers to as *NES Admin Alias*.

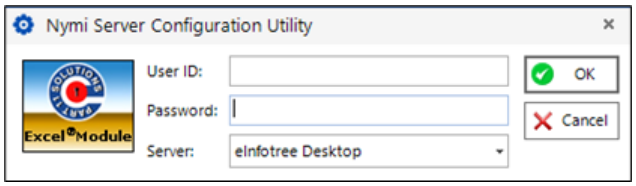
   The following figure highlights each value.



3. Navigate to the eInfotree Excel Desktop installation folder, and double-click the **Nymi Server Configuration Utility.exe**.

   The default folder location is *C:\CIMCON Software\"eInfotree Excel Module"*.
4. On the Login window, type the credentials of an eInfotree administrator account, and then click **OK**.

The following figure provides an example of the `Login` window.



5. On the `Nymi Server Configuration` window, perform the following steps:
   a) In the **`NES Host`** field, type the FQDN of the NES.
   b) In the **`NES Admin Alias`** field, type the IIS instance name of NES.
   c) In the **`NES Auth Service`** field, type the NES Authentication Service instance name.
   d) In the **`User Name`** and **`Password`** fields, type the credentials of an NES Administrator account.
   e) In the **`AT User`** field, type the user name of a service account for the solution.

      The Cimcon Nymi Active Directory (AD) Sync Utility uses the service account update the properties of user accounts that were imported into the eInfotree Excel Desktop application with the Nymi Band ID of their enrolled Nymi Band. You can specify the Nymi Infrastructure Service Account or any domain user account.

      The following figure shows the `Nymi Server Configuration` window.

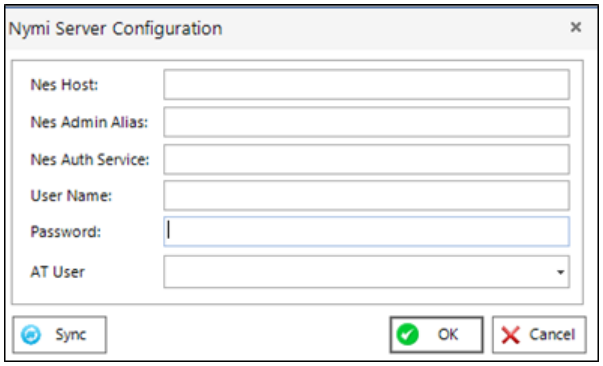


Figure 10: Cimcon_Nymi Server Configuration window

   f) Click **Sync** to synchronize the Nymi Band ID for the users.
   g) Click **`OK`**.

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