

RoomWizard Exchange Connector 6.1.0

NTLM Connector Configuration Guide

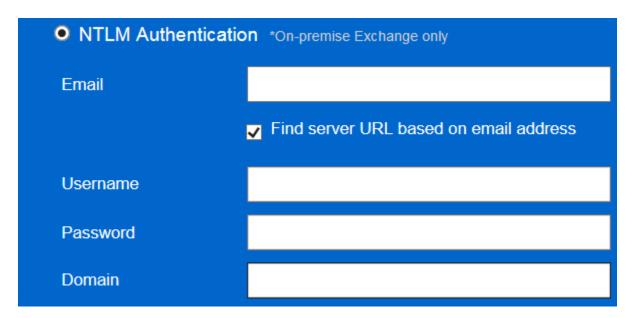
Overview: This Guide describes the configuration steps for NTLM authentication in an on-premise Exchange environment following the installation of Exchange Connector 6.1.0. For steps detailing the Exchange Connector installation process please review the RW Exchange Connector Installation Guide.

Background: Microsoft support for Basic Authentication is set to end in the Fall of 2020. To prepare for this upcoming change a new Exchange Connector was created that utilizes an authentication mechanism called NTLM. This authentication mechanism authenticates with hashing as opposed to passing a username and password between the Connector and on-premise Exchange environment. For additional information please access the following link: https://docs.microsoft.com/en-us/windows/desktop/secauthn/microsoft-ntlm

NTLM Parameters: Administrator access to an on-premise Microsoft Exchange domain is required to complete the configuration for NTLM. The following configurations are needed, depending on the chosen option between Autodiscover or EWS.

Autodiscover Variables: The following fields are needed if Autodiscover is the chosen authentication method:

- 1) Email: This is an email address within the domain that is used to test Autodiscover. This can be any valid email address within the Microsoft Exchange domain used for configuring NTLM. The find server URL based on email address should be selected.
- 2) Username: The username of a service account with the appropriate Impersonation Permissions.
- 3) Password: The password of a service account with the appropriate Impersonation Permissions.
- 4) Domain: The domain name of the Exchange environment.



EWS Variables: The following fields are needed if EWS is the chosen authentication method:

- 1) Exchange Server URL: This is an EWS Exchange URL within the domain that is used to test authentication to EWS. This can be any valid URL within the on-premise Microsoft Exchange environment. The find server URL based on email address should be deselected.
- 2) Username: The username of a service account with the appropriate Impersonation Permissions.
- **3)** Password: The password of a service account with the appropriate Impersonation Permissions.
- 4) Domain: the domain name of the Exchange environment.

NTLM Authentication *On-premise Exchange only		
Exchange Server URL		
	Find server URL based on email address	
Username		
Password		
Domain		

Connector Installation: It is recommended to install the new Exchange Connector on an IIS Server that will not interfere with the current Exchange Connector to maintain the meetings that are currently scheduled. Upgrading the Exchange Connector could result in lost functionality for all RoomWizard devices currently using the Exchange Connector, and this should be considered when upgrading/installing the new Exchange Connector.

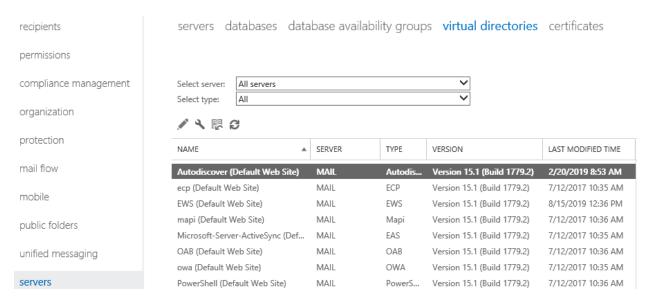
After the install/upgrade is complete, it is advised to find an off-hour time to change from Basic Authentication to NTLM. It should be expected that there will be possible downtime during the change to NTLM, and this should be taken into consideration, especially for RoomWizard devices that are currently utilizing the Exchange Connector.

NTLM Configuration: To begin the NTLM Configuration it needs to be decided whether Autodiscover or EWS will be used. Once a method is confirmed follow the steps for either Autodiscover or EWS shown below.

Autodiscover Option Instructions:

1) Login to the Exchange Administrative Console. Select Servers from the left and highlight Virtual Directories. Choose Autodiscover and click to access configuration page.

Exchange admin center



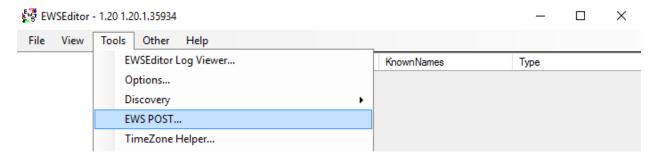
2) Check Integrated Windows Authentication and disable all other options. Click Save.

Autodiscover (Default Web Site)

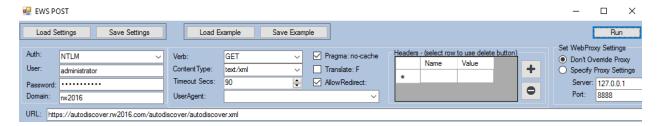


3) Once complete repeat the process on all Exchange Servers if necessary.

Note: Before configuring the Exchange Connector with NTLM it is best to test against EWSEditor. This is a Microsoft tool and is useful in verifying NTLM functionality as well as verifying that Basic Authentication is disabled. To start load EWSEditor and under Tools select EWS POST as shown below.



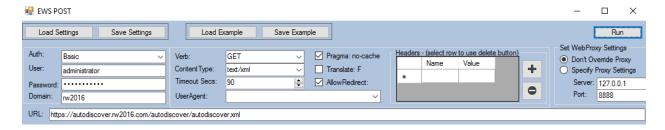
a) Enter the necessary credentials, including the proper Autodiscover URL. Click Run in the top right corner.



b) Verify that the response returned is OK. This confirms that NTLM is configured.



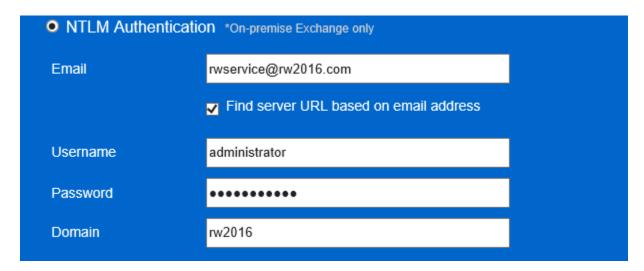
Next verify that Basic Authentication is disabled.



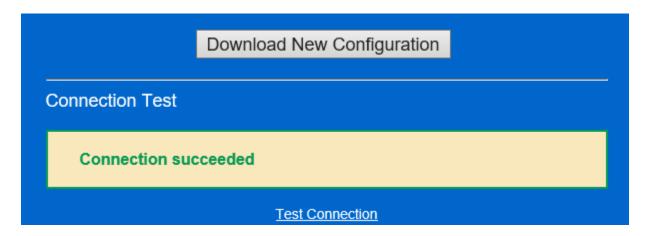
d) Basic Authentication returns a 401 error and is disabled.



4) Login to the new Exchange Connector. For Autodiscover the checkbox needs to be selected. Complete the appropriate fields and click Test Connection:



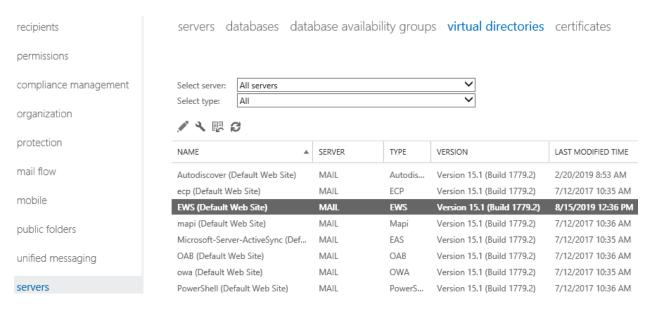
5) After the Test Connection completes click on Download New Configuration and Save to the Site.Config file (found in the bin directly below the root installation folder of the Exchange Connector). The Exchange Connector is now configured for NTLM using Autodiscover.



EWS Option Instructions:

1) Login to the Exchange Administrative Console. Select Servers from the left and highlight Virtual Directories. Choose EWS and click to access configuration page.

Exchange admin center



2) Check Integrated Windows Authentication and disable all other options. Click Save.

EWS (Default Web Site)

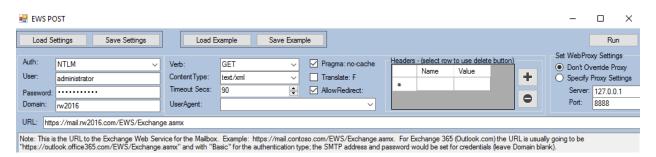
general	
• authentication	✓ Integrated Windows authentication
	☐ Digest authentication for Windows domain servers
	☐ Basic authentication
	(Requires the use of SSL certificates to encrypt the password
	that are normally sent in clear text)

3) Once complete repeat the process on all Exchange Servers if necessary.

Note: Before configuring the Exchange Connector with NTLM it is best to test against EWSEditor. This is a Microsoft tool and is useful in verifying NTLM functionality as well as verifying that Basic Authentication is disabled. To start load EWSEditor and under Tools select EWS POST as shown below.



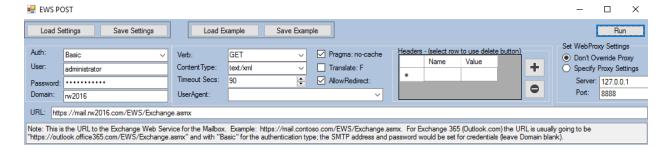
a) Enter the necessary credentials, including the EWS URL. Click Run in the top right-hand corner.



b) Verify that the response returned is OK. This confirms that NTLM is configured.



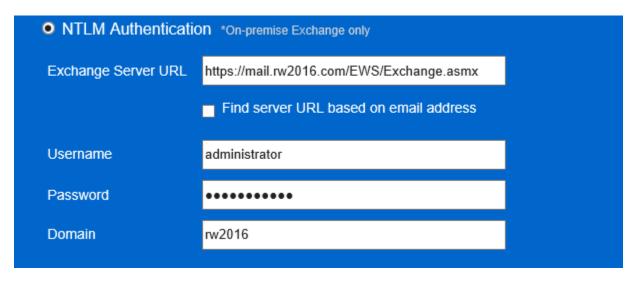
c) Next verify that Basic Authentication is disabled.



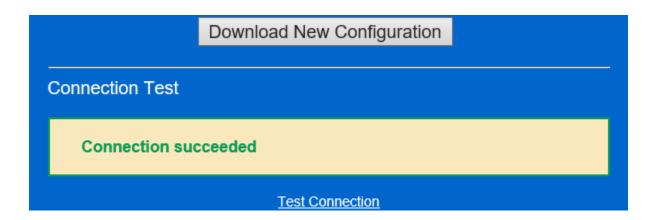
d) Basic Authentication returns a 401 error and is disabled.



4) Login to the Exchange Connector. Complete the appropriate fields and click Test Connection:



5) After the Test Connection completes click on Download New Configuration and Save to the Site. Config file (found in the bin directly below the root directory of the Exchange Connector).



Once the new settings are saved the Website will display NTLM as the configuration. Be sure that the license key is obtained and configured along with the NTLM settings.

Version: 6.1.0

License Key: Licensed

Auth Method: NTLM