CONFIGURATION GUIDE



Cloudpath Enrollment System Microsoft Certificate Authority Configuration Guide, 5.7

Supporting Cloudpath Software Release 5.7

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Overview of Issuing Certificates with the Integration Module for Microsoft CA

The Integration Module for Microsoft[™] CA allows network administrators to issue certificates from a Microsoft CA. As a network administrator, you can configure Cloudpath for the Integration Module.

To implement certificate-based authentication on your WPA-2 Enterprise and 802.1X network, through EAP-TLS, you must set up a certificate infrastructure, which includes a certificate authority (CA) for issuing client certificates.

The Cloudpath Integration Module for Microsoft CA allows Cloudpath to request TLS client certificates from your existing Microsoft CA infrastructure.

While configuring a user's device, Cloudpath prompts the user for credentials. It then generates a CSR, authenticates to the CA, and sends the CSR to the CA via the Integration Module. The Integration Module, in coordination with the CA, authenticates the user and, if valid credentials are provided, signs a certificate for the user. The characteristics of the certificate generated are dictated by the certificate template utilized. The certificate is then streamed back to the Cloudpath Wizard, which installs it and configures the SSID to utilize it.

FIGURE 1 Cloudpath Integration Module for Microsoft CA



NOTE

The Integration Module for Microsoft CA is essentially a sibling to the Microsoft Network Device Enrollment Service (NDES). Unlike Microsoft NDES, which assigns all certificates to the SCEP_ADMIN user account, the Integration Module assigns each issued certificate to the corresponding user account.

Integration Module Specifications

Recommendation

It is recommended that you do not install the Integration Module on a domain controller. By default, you cannot run a web server on a domain controller unless you change policy settings. Also, users typically do not have LOGON_INTERACTIVE rights for domain controllers, as they do for other machines.

Deployment Requirements

- Install on a Windows Domain-joined Microsoft Windows 2008 R2 (IIS) or greater web server.
 - Other servers in the network including the CA and DC can be Windows 2003.
- The web server must meet Microsoft's minimum system requirements.
- The web server should contain a valid certificate to enable HTTPS communication.
- Optionally, the Integration Module can be installed directly onto the CA or RA server.
- Cloudpath must be able to interact with the CA via a URL. It strongly recommend that this URL be HTTPS to provide web server authentication and a secure communication over your network.
- The website that contains the CA's web interface should be configured for appropriate Anonymous authentication.
- To allow communication between the Enrollment Server and the CA, ensure that your firewall is configured for ports 80/443 (HTTP/ HTTPS).

Deployment Process

Perform the following steps to deploy the Integration Module for Cloudpath:

- Configuring Cloudpath on page 6
- Downloading the Integration Module on page 8
- Configuring the Web Server on page 9
- Testing the System on page 13

What You Need

You need the following information to set up the Integration Module for Microsoft CA:

- CA Host Name of the server with which the plug-in should communicate.
- CA Name, which is the primary label for the CA within the Certification Authority snap-in.
- Requires Attributes for the certificate template.

Configuring Cloudpath

Perform the following steps to set up a certificate template for the Microsoft CA. The certificate template allows the certificates to be pulled from the Microsoft CA.

Create a Microsoft CA Certificate Template

- 1. Navigate to **Certificate Authority > Manage Templates**.
- 2. Click Add Template to create a new certificate template.

3. Select Use a Microsoft Certificate Authority. Click Next.

FIGURE 2 Microsoft CA Certificate Template Information

| Reference Information | |
|---|--|
| V. Name | (ar. 8200 Tallalata) |
| | |
| - Notes: | |
| | |
| | - |
| Enabled? | * |
| Microsoft CA Overview | |
| | Coudanth integrates with Microsoft CA via a DLL |
| | referred to as the Ditegration Mooule. |
| 1 | the Integration Module DLL is placed on an IIS server |
| | Server and the Microsoft CA Server may be on the |
| | same machine, but separating them is recommended. |
| | |
| | |
| | \sim \sim |
| Information Defined on IIS Server | |
| | Ooutpath will communicate with the Integration Hotule Dis using HTTPS. To do so, Ooutpath |
| | will need to know the UR, of the Duil. This is most commonly something semilar to |
| | Mark //wriver.company.com. |
| S URL of DELI | (ex. https://ca.company.com) |
| Information Defined In Microsoft CA | |
| | The later size Webde fill all components with Montred (2) one denote components. |
| | To do so, Goudpath will need to know information about the host and the certificate authority. |
| CA Hast Name: | Tex (a company com) |
| 5 (1 None) | Law Samala Com Itaniaa (A) |
| | |
| A Request Advicates: | Centricater emplate User |
| E CA Chaini | (ex. Leave Blank) |
| | 4 |
| | |
| . Key Congos | 2048 |
| - Angorithmi | 504256 |
| Use Static Credentials? | 0 |
| Pelicy | |
| Allew Authentication via RADIUS | 8 |
| | |
| Reply Username: | Certricate Common Name (Default) • |
| Reply Username: Allowed SSID(s): | Certificate Common Name (Default) |
| Reply Username: Allowed SSID(s): VLAN ID: | (e. 50 or 8Y00) |
| Reply Username: Allowed SSID(s): VLAN ID: Filter ID: | Central Common Name (central) • • • • • • • • • • • • • |
| Reply Username: Allowed SSID(s): VLAN ID: Filter ID: Class: | Catricate Common Name (catinut) • (cc. 50 or BTCO) (cc. BTCO) (cc. BTCO) (cc. BTCO) |
| Reply Username: Allowed SSID(s): VLAN ID: Filter ID: Class: Expediationments | Certical common tasks (polsul) • |
| Reply Username: Allowed SSED(s): VLAN ID: Filter ID: Class: Resultentication: | Carteria (cartan tarte (catalat) • |
| Reply Username: Alleweed SSED(s): VLAN IO: Finite: IO: Reauthentication: Subject Values In CSR | Image: control table (citibut) • • • (ec. 55 or BYOD) • (ec. 56 or BYOD) • (ec. 58 or BYOD) • (ec. 86 or BYOD) • |
| Repfy Username: Alfewed SSE0(s): VLAN 10 Finter 10 Gass Reauthentication: Subject Values In CSR | Carteriar Common Name (cartaur) * * (cx. 50 of BTOD) (cx. BTOD) (cx. BTOD) (cx. BTOD) (cx. Bt400) Seconds * WEther a tamping in Microsoft C4. Her balance for |
| Reply Username: Allowed SSE0(s): VLAN 100 Filter 101 Gass Reauthentication: Subject Values In CSR | Certical common have (certical common have |
| Kepty Username: Allowed SSID(4): VALN 10: VALN 10: Filter 10: Reauthentication: Subject Valves In CSR | Leftcale common have (polsult) • • • (cc, 50 or 8100) (cc, 8100) (cc, 8400) • |
| Reply Username: Allewed SSD(s): Value Status Value Status Resuthentication: Subject Values In CSR | Central control tare (parsus) |
| Reply Username: Allowed SSE0(s): Vila Vila Vila Vila Resubentication: Subject Values In CSR | Central common have (parts (parts) |
| Replay Username: Allowed State Solution Solution Solution Solution Solution Solution Solution Solution | Left Call Control Name (Callsult) ● • (cc. 50 or BTOD) (cc. 80 or BTOD) (cc. 80 or BTOD) (cc. 81 or D) (cc. 84 or D) Seconds |
| Reply Username: Allewed SSD(s): Username: Filter (D) Filter (D) Filter (D) Fass: Reauthentication: | LefterLate common have (polsult) ● • |
| Reply Username: Allewed SSE0(s): Viewed SSE0(s): Vi | Central control target (cellsult) • (cs. 58 or 8100) (cs. 180 or 8000) (cs. 180 or 8000) <tr< td=""></tr<> |
| Rept Vacrame: Altered Stoley VLAN ID: VLAN ID: VLAN ID: VLAN ID: VLAN ID: VLAN ID: Case: Stoleyet Values In CSR | Central common name (partsult) • (cs. 58 or 8100) (cs. 1000) |
| Rejt Username: Alfowed Stolay Vian ID: V | Letterized common near (pathul) • |

4. Enter the URL of the DLL.

Cloudpath communicates with the Integration Module DLL using HTTPS, so Cloudpath needs to know the URL of the DLL.

NOTE

If you configure or change settings in the Microsoft CA certificate template, then you must download and install a new copy of the DLL and files.

5. On the Microsoft CA Information page, enter the Name and Notes for the certificate template, and Enable it for use.

6. Enter the Integration Module Configuration settings.

These are the required fields:

- CA Host Name: The DNS name of the CA server.
- CA Name: The name of the CA, which appears in the Certificate Authority console.

NOTE

The *CA Name* should be the name of the CA as displayed in the Certificate Authority snap-in. On Windows, it also displays in the **Issued By** filed when a certificate is viewed in the CertMgr.

- Request Attributes: The attributes used when querying the CA. This typically includes, at a minimum, the certificate template name. For example, *Certificate Template:User*.
- 7. Enter the Communication Information, and click Save.

The Microsoft CA URL is a required field.

• Microsoft CA URL: Enter the URL where the Microsoft CA is installed. You must enter the complete URL, for example, https://msftca.testcompany.com.

TIP

If using multiple certificate templates with the Microsoft CA, the CA URL should reflect the certificate template name. For example, if you create one certificate template for staff and one for guests, the Microsoft CA URLs should be https://msftca.testcompany.com/guests, respectively. See Multiple Certificate Templates on page 12.

- CA Chain: Specify the CA Chain. The client configuration must include the root, and if applicable, the intermediate CAs. The certificates should be concatenated together in PEM format.
- Key Length: The key length, as dictated by the CA, for certificate signing requests.
- Algorithm: The algorithm, as dictated by the CA.
- Use Static Credentials: By default, the system uses user-provided credentials when interacting with the Microsoft CA. Check this box if you want to configure static username and password to use when interacting with the Microsoft CA.
- 8. Specify policy information for the RADIUS server.

If enabled, the RADIUS server will contain policy information for this certificate template.

- Reply Username: The RADIUS server replies with the username based on the CN of the certificate but, additional options are available.
- Allowed SSID: Enter a regex, which defines the SSID(s) from which devices are allowed to authenticate.
- RADIUS Attributes: Specify a VLAN, Filter ID, Class, Reauthentication interval, or use the plus icon to add custom attributes.
- 9. Use the **Specify Subject Values in CSR** settings if you want to configure the subject of the CSR destined for Microsoft CA when the template is set to "Supply in request."

Downloading the Integration Module

The Integration Module for Microsoft CA is downloaded from the Cloudpath Certificate Templates page. It downloads as a compressed Zip file.

Perform the following steps to download the Integration Module:

1. Go to Certificate Authority > Certificate Templates.

2. On the **Certificate Templates** page, click the download icon **W** to download the Integration Module.

FIGURE 3 Download Integration Module for Microsoft CA

| The and bas | e certificate te d remain the s sed on the use | mplates list same for ev er and/or th | ted below define the properties embedded into a certificate when it is issued. Some properties are static ery certificate. Other properties are calculated or use variables, allowing them to differ per certificate eir device. | Add Template |
|-------------------|--|--|--|------------------------------|
| Þ | Template 1: | Onboar | d template Server Template | I 🕲 🛍 🖓 |
| ۲ | Template 2: | Onboar | d template BYOD Policy Template | J 🕲 🛍 🗘 |
| ۲ | Template 3: | Onboar | d template Guest Policy Template | J 🕲 🛍 🗘 |
| ۲ | Template 4: | Onboar | d template username@test.company.com | J 🕲 🖻 🖓 |
| • | Template 5: | Microso | ft CA template BYOD Template | ⊛ (Q) _/ × ↔ |
| | C CA I Request | Setup: Status: CA Type: CA URL: redentials: Host Name: CA Name: Attributes: | greater web server joined to the domain. It may be installed directly on the CA or on a separate server. To install or update the Integration Module, <u>download the Integration Module</u> ZIP package. The setup guide for the Mic can be found on the Support tab. Not Available Microsoft CA https://ca.company.com User-Provided ca.company.com Sample Corp Issuing CA CertificateTemplate:User | crosoft CA Integration Modul |
| | No | tifications: | No notifications currently exist. Add | |

Configuring the Web Server

The Integration Module is placed in IIS on a Windows 2008 or Windows 2012 Server. The server may or may not be on the same server as the CA, but it must be on the same domain as the CA. At a minimum, the web server must have the ASP.NET role services installed.

The following diagram illustrates how the different systems work together, including the communication ports between the components, and where the different pieces of data reside.

FIGURE 4 Example of Cloudpath with Microsoft CA in a Network



Perform the steps in the following procedures to set up your IIS server.

Verify Role Services

Perform the steps in this procedure to verify the role services in the Service Manager.

1. Open the Server Manager.

2. In the left tree view, expand Roles, and select Web Server (IIS).

FIGURE 5 Role Services Installed on the IIS

| Role Serches: 21 installed | | | | |
|----------------------------|-------------------------|---------------|--|--|
| Role Service Status | | | | |
| * | Web Server | Installed | | |
| * | Common HTTP Features | Installed | | |
| * | Static Content | Installed | | |
| 2 | Default Document: | Installed | | |
| * | Directory Browsing | Installed | | |
| | HTTP Errors | Installed | | |
| | HTTP Redirection | Not installed | | |
| | WebDAV Publishing | Not installed | | |
| * | Application Development | Installed | | |
| * | ASP.NET | Installed | | |
| ۵. | .NET Extensibility | Installed | | |
| | ASP | Not installed | | |
| | CGI | Not installed | | |
| 2 | ISAPI Extensions | Installed | | |
| 1 | ISAPI Filters | Installed | | |
| | Server Side Indudes | Not installed | | |
| * | Health and Diagnostics | Installed | | |
| * | HTTP Logging | Installed | | |
| | Logging Tools | Not installed | | |
| * | Request Monitor | Installed | | |
| | Tracing | Not installed | | |
| | Custom Logging | Not installed | | |
| | ODBC Logging | Not installed | | |
| b | Security | Installed | | |
| * | Basic Authentication | Installed | | |
| | Windows Authentication | Not installed | | |
| | Digest Authentication | Not installed | | |
| | · · · · | | | |

3. In the right window, scroll down to the Role Services section. In the list, locate ASP.NET, and verify that it has the Installed status.

Set Up the Integration Module Website

To add the Integration Module Website, perform the following steps:

- On the file system, locate the folder where the Integration Module will reside. In most cases, the physical path is similar to C:\inetpub\cloudpath.
- Create this folder and unzip the downloaded plug-in file into it.
 The folder should contain the files Default.aspx and Web.config, among others.
- 3. In the IIS Manager, locate and select the Sites item in the left tree.

Configuring the Web Server Set Up the Integration Module Website

- 4. Right-click and select Add Website.
- 5. Name the site **Cloudpath**.

FIGURE 6 Site Structure in IIS Manager



- 6. Set the IP address, port, and host name appropriately.
- 7. Set the physical path to the folder created above (for example, C:\inetpub\cloudpath), and click OK.

Multiple Certificate Templates

If using multiple certificate templates (for example one for staff, https://msft-ca.testcompany.com/ staff, and one for guests, https://msft-ca.testcompany.com/guests), create a parent application for https://msft-ca.testcompany.com, and two child applications for staff and guests.

NOTE

The parent and child applications must be set up with Anonymous Authentication Type.

In multiple certificate template configurations, the parent application cannot contain the plug-in files (Default.aspx, Web.config, etc.). You must download the plug-in files into the corresponding child application directories.

For example, download the plug-in files from the staff certificate template and place them in the https://msft-ca.testcompany.com/ staff application directory, and download the plug-in files from the *guests* certificate template and place them in the https://msftca.testcompany.com/guests application directory.

Testing the System

After the Integration Module is deployed, you can test the communication between Cloudpath and the Microsoft CA. The query allows you to enter user credentials and verify interaction with the configured Microsoft CA.

To verify communication between Cloudpath and the Microsoft CA, perform the following steps:

- 1. From the Certificate Templates page, click the Test Integration Module icon 🔎 .
- 2. On the Test Microsoft CA page, enter user credentials to verify Microsoft CA interaction with Cloudpath, and click Continue.

The Microsoft CA Test page displays the results of the query.

Troubleshooting

DNS

Verify that the Microsoft CA can resolve DNS.

CA Name

Verify that CA name is correct. The CA name is case-sensitive.

ASP.NET Installed on the IIS Server

If the Application Settings icon does not appear on the IIS server, verify that ASP.NET is installed on the IIS server. The entire ASP.NET icon set, which includes **Application Settings**, will not display if ASP.NET is not installed.

ASP Hosting Permissions

If you receive the following Security Exception error when trying to access http://site/?action=INFO, this typically indicates that the web server cannot use the files.

FIGURE 7 Security Exception Error

| | | | | | | 04 |
|---|--|--|--|--|--------------------------|--------|
| C (http://192168.4360.0007/Tectione/3VEO | P + C 📕 XpressConnect Envolme | Security Exception | × Security Exception | System Security Security E_ 📒 Cloudpath | H Cloudpath Networks - W | 0 \$ 0 |
| får fåt Len fyrandes Jook Help | | | | | | |
| X Find Ussion of type System.Web.AspNetHostingPermission Previous Net [2] Options • | | | | | | |
| Server Error in '/' Application. | | | | | | |
| Security Exception Description: The application attempted to perform an operation not allowed by the security po | olicy. To grant this application the required perm | ission please contact ; | iour system administrator or | change the application's trust level in the config | uration file. | |
| Exception Details: System Security SecurityException: Request for the permission of type 3 | System Web AspNetHostingPermission, System | Version=2.0.00, Cult | ure=neutral, PublicKeyToke | n=b77a5c561934e089/ failed. | | |
| Source Error: | | | | | | |
| An unhandled exception was generated during the execution o exception stack trace below. | f the current web request. Inf | ormation regar | ding the origin a | nd location of the exception of | an be identified using | the |
| Stack Trace: | | | | | | |
| [SecurityException: Request for the permission of type "System.Nei System.Reflection.AscendbyGetType(String name, Boolean thrown of the bull util GetTyperformspredbiss(Toollection second in System.Neb.UL.TemplateParser.GetType(String TypeName, Boolean System.Neb.UL.TemplateParser.ProcessThering TypeName, Boolean System.Neb.UL.TemplateParser.PostProcessMainDirectiveAttribute | o.AsphetikostingPermission, System Deferror, Boolean ignoredase) 40 (, String typpamae, Boolean ignor IgnoreCase, Boolean throuber prop) setyppamae, String codefileBaseT s(IDictionary parseData) +365 | , Version=2.0.0. eCase) +201 +323 ypeName, String | 0, Culture=neutral, src, Assembly assem | PublicKeyToken=b77a5c561934e089 | failed.] | |
| Version Information: Microsoft NET Framework Version 2.0 50727.4527; ASP NET Version | on 2 0 50727 4927 | | | | | |

The key piece of information in this error message is *System.Web.AspNetHostingPermission*. When Internet Explorer encounters the files in the Integration Module zip files, it flags them as originating from the Internet, and blocks them.

To verify this, right-click one of the Integration Module files and view the **Properties**. With the **General** tab selected, in the **Security** section, you see a message: This file came from another computer and might be blocked to help protect this computer.

FIGURE 8 Integration Module Zip Files Properties

| 📓 CERTCLIENTLib.dll Properties 🛛 🔀 | | | |
|--|--|--|--|
| General Security Details Previous Versions | | | |
| <u>@</u> | | | |
| Type of file: | Application extension (.dll) | | |
| Opens with: | Unknown application <u>Change</u> | | |
| Location: | C:\inetpub\xpces-8007\bin | | |
| Size: | 9.50 KB (9,728 bytes) | | |
| Size on disk: | 12.0 KB (12,288 bytes) | | |
| Created: | Yesterday, February 01, 2014, 11:46:40 PM | | |
| Modified: | Today, February 02, 2014, 12 minutes ago | | |
| Accessed: | Yesterday, February 01, 2014, 11:46:40 PM | | |
| Attributes: | ☐ Bead-only ☐ Hidden Advanced | | |
| Security: | This file came from another computer and might be blocked to help protect this computer. | | |
| | OK Cancel Apply | | |

To correct this issue, check each file in the directory and Unblock any files that are listed as Blocked.

Restart the IIS Server

To apply these changes, the IIS Server must be restarted from the root node.

NOTE

Restarting the application does not apply the changes. You must restart the IIS server from the root node.



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