Deploy CSC for iOS on Additional MDM Platforms

Contents

Introduction

This document describes how to depoloy Cisco Security Connector for iOS on additional mobile device management platforms.

Background Information

The Cisco Security Connector (CSC) for iOS is full Umbrella DNS protection for your iPhone. Before using this guide for deployments, please read the CSC deployment documentation. Your device **must** be in the supervised mode to use the CSC.

This document summarizes additional mobile device management (MDM) software support for the CSC. These MDMs have been validated by a successful deployment but are not yet directly present on the Dashboard.

To verify that a profile exists on an iOS device:

1. Navigate to **Settings** > **General** > **Device Management** > **[MDM Profile Name]** > **More details**.
2. Confirm that the profile type **DNS Proxy** is present along with these details:
   - **App details:** `com.cisco.ciscosecurity.app`
   - **Provider bundle details:** `com.cisco.ciscosecurity.ciscoumbrella`

Read more about which iOS profile details to configure on the Apple MDM site.

All MDMs

These steps apply for deployment to all MDMs and must be completed first:

1. Ensure your admin email address is added to the dashboard under the Mobile Devices page "Settings"

option.
2. Download the `Cisco_Umbrella_Root_CA.cer` file for use on the iOS device. This certificate allows for errorless HTTPS block pages. To obtain the Root CA:
    1. Navigate to **Deployments** > **Configuration** > **Root Certificate**.
    2. Select **Download Certificate**.
    3. Save the download as a `.cer` file.

MobileIron Cloud

Currently, the MobileIron download on the dashboard only supports the on premise version. The Cloud version uses different device variables than the on premise software. Deployment is very similar to on premise, with several exceptions. MobileIron Core depending on version can require this modification.

To deploy to MobileIron Cloud:

1. Ensure your admin email address is added to the dashboard under the Mobile Devices page "Settings" option.
2. Download the Mobile Iron profile from the Umbrella dashboard.
3. Replace these variables:

Generic placeholder variable	New variable
“`$DEVICE_SN$`”	`${deviceSN}`
“`$DEVICE_MAC$`”*	`${deviceWifiMacAddress}`

*This is only used for the Clarity component of the CSC, not for the Umbrella component. If you do not use Clarity, there are no $DEVICE_MAC$ to replace.

Citrix Endpoint Management MDM

To deploy to Citrix, complete these preparation steps in the dashboard:

1. Ensure your admin email address is added to the dashboard under the Mobile Devices page "Settings" option.
2. Download the generic MDM configuration from Umbrella (AMP is configured in the same way).
3. Download the root certificate for Umbrella:
    1. Navigate to **Deployments > Configuration > Root Certificate**.
    2. Select **Download Certificate**.
    3. Save the download as a `.cer` file.
4. Modify the configuration & replace the generic placeholder with the correct variable for the Citrix MDM:

Generic placeholder variable	New variable
`Serial_Number`	`${device.serialnumber}`

`MAC_Address*`	`${device.MAC_ADDRESS}`

*This is only used for the Clarity component of the CSC, not for the Umbrella component.

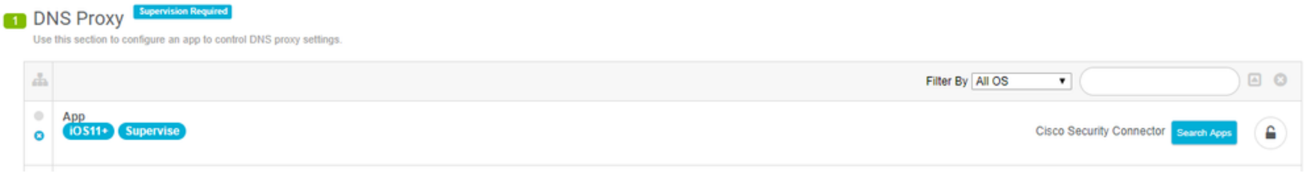
Then, complete these MDM steps:

1. Configure the MDM to install the CSC app using Apple Business Manager (ABM) (formerly known as VPP, Volume Purchase Program).
2. Upload the Umbrella and/or Clarity configuration modified in the preparation steps.
3. Use the steps in the Citrix documentation to import the profile.
4. Upload the certificate for the device to trust the Umbrella Root Certificate Authority.
5. Configure the policies to push the profiles, 1 CA, and the 1 CSC app to the required device(s).

Lightspeed MDM

Lightspeed MDM supports text-based configuration of the iOS DNS proxy. This can be accomplished by modifying the generic MDM profile.

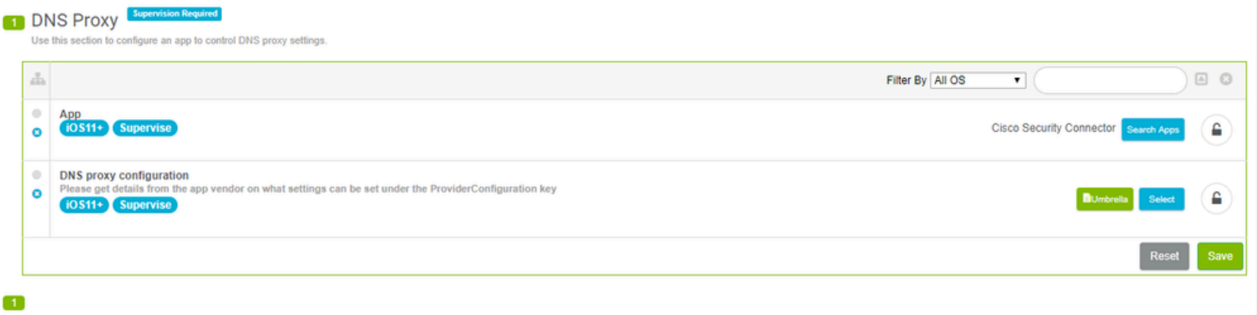
1. Download the "generic mobileconfig file" and change the file extension from **.xml** to **.txt**.
2. Open the file and change the placeholder serial number string on line 58 to `%serial_number%`
3. In Lightspeed, add the Cisco Security Connection to the DNS Proxy Profile as shown



Use this section to configure an app to control DNS proxy settings.

360019477192

4. Add the modified generic mobileconfig file to the DNS proxy configuration option underneath the app.

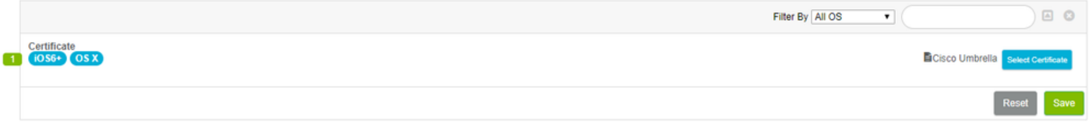


Use this section to configure an app to control DNS proxy settings.

Please get details from the app vendor on what settings can be set under the ProviderConfiguration key

360019477152

5. Finally, download the Cisco Root CA from Umbrella and deploy it in Lightspeed to ensure certificate-free block pages.



360019477132

These steps apply for deployment to all MDMs. Please use these steps first.

JAMF Schools

Deploying CSC with JAMF Schools differs from JAMF. Start with the generic profile and see the steps in the JAMF documentation.

Here is an example configuration of where to select and which variable to use for the serial number:

```
<?xml version="1.0" encoding="UTF-8"?><!DOCTYPE plist PUBLIC "-//Apple//DTD PLI
```

1. Create a new profile in JAMF School.
   For more information, see the JAMF documentation on Device Profiles.
2. Use the DNS Proxy payload to configure these settings:

    1. In the **App Bundle ID** field, enter `com.cisco.ciscosecurity.app`.

    2. In the **Provider Bundle ID** field, enter `com.cisco.ciscosecurity.app.CiscoUmbrella`.

3. Add the XML file you created in step 2 of the JAMF documentation to the **Provider Configuration**.

JAMF Earlier Than 10.2.0

Deploying the CSC with JAMF requires significant profile modification. Use these steps to deploy the CSC with JAMF MDM.

1. Ensure your admin email address is added to the dashboard under the Mobile Devices page **Settings** option.
2. Add the Umbrella root CA:
    1. Navigate to **Deployments** > **Configuration** > **Root Certificate.**
    2. Select Download Certificate.
    3. Save the download as a .cer file.
    4. Provide a name for the certificate and select **Upload Certificate.**
    5. Upload the .cer and leave the password field blank.
    6. Apply to the scope of your devices to push out this certificate.
3. Download the generic profile from the Umbrella dashboard.
4. If you are using JAMF Pro v.10.2.0 or higher, you can skip this step. You can import as-is by adding these:

    ```
    <key>serialNumber</key>
    <string>$SERIALNUMBER</string>
    <key>label</key>
    <string>$DEVICENAME</string>
    ```

5. If you are using a JAMF version earlier than v.10.2.0, edit the XML profile extensively as shown in this example profile. **Do not copy this example, it is not functional as-is. Only use the generic download configuration from your dashboard.**

    ```
    <?xml version="1.0" encoding="UTF-8"?>
    <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.d
    <plist version="1.0">
    ```

```
<dict>
<key>PayloadContent</key>
<array>
<dict>
<key>AppBundleIdentifier</key>
<string>com.cisco.ciscosecurity.app</string>
<key>PayloadDescription</key>
<string>Cisco Umbrella</string>
<key>PayloadDisplayName</key>
<string>Cisco Umbrella</string>
<key>PayloadIdentifier</key>
<string>com.apple.dnsProxy.managed.DBE2A157-E134-3E8C-B4FB-23EDF48A0CD1</string>
<key>PayloadType</key>
<string>com.apple.dnsProxy.managed</string>
<key>PayloadUUID</key>
<string>59401AAF-CDBF-4FD7-9250-443A58EAD706</string>
<key>PayloadVersion</key>
<integer>1</integer>
<key>ProviderBundleIdentifier</key>
<string>com.cisco.ciscosecurity.app.CiscoUmbrella</string>
<key>ProviderConfiguration</key>
<dict>
<key>disabled</key>
<false/>
<key>internalDomains</key>
<array>
<string>10.in-addr.arpa</string>
<string>16.172.in-addr.arpa</string>
<string>17.172.in-addr.arpa</string>
<string>18.172.in-addr.arpa</string>
<string>19.172.in-addr.arpa</string>
<string>20.172.in-addr.arpa</string>
<string>21.172.in-addr.arpa</string>
<string>22.172.in-addr.arpa</string>
<string>23.172.in-addr.arpa</string>
<string>24.172.in-addr.arpa</string>
<string>25.172.in-addr.arpa</string>
<string>26.172.in-addr.arpa</string>
<string>27.172.in-addr.arpa</string>
<string>28.172.in-addr.arpa</string>
<string>29.172.in-addr.arpa</string>
<string>30.172.in-addr.arpa</string>
<string>31.172.in-addr.arpa</string>
<string>168.192.in-addr.arpa</string>
<string>local</string>
<string>cisco.com</string>
</array>
<key>logLevel</key>
<string>{pre-filled in the download}</string>
<key>orgAdminAddress</key>
<string>{pre-filled in the download}</string>
<key>organizationId</key>
<string>{pre-filled in the download}</string>
<key>regToken</key>
<string>{pre-filled in the download}</string>
<key>serialNumber</key>
<string>$SERIALNUMBER</string>
<key>label</key>
<string>$DEVICENAME</string>
</dict>
</dict>
</array>
```

```
<key>PayloadDisplayName</key>
<string>Cisco Security</string>
<key>PayloadIdentifier</key>
<string>com.cisco.ciscosecurity.app.CiscoUmbrella.{pre-filled in the download}</string>
<key>PayloadRemovalDisallowed</key>
<false/>
<key>PayloadType</key>
<string>Configuration</string>
<key>PayloadUUID</key>
<string>{pre-filled in the download}</string>
<key>PayloadVersion</key>
<integer>{pre-filled in the download}</integer>
</dict>
</plist>
```

6. Import to JAMF:
    1. Under the main MDM configuration window, click **New** to create a new profile.

        Note: This must be a separate profile and must not be used with the certificate profile created. For the app to work, these two profiles must be pushed to the device separately.

    2. Name the profile and navigate to DNS Proxy.
    3. Under the DNS proxy, click **Configure**.
    4. Set the proxy configuration to Umbrella details:

    1. In the **App Bundle ID** field, enter `com.cisco.ciscosecurity.app`.
    2. In the **Provider Bundle ID** field, enter `com.cisco.ciscosecurity.app.CiscoUmbrella`.
    3. Paste the edited XML content from Umbrella into the **Provider Configuration** XML section.

5. Click **Scope** and apply to the proper scope of devices.

InTune

InTune is directly added to the Umbrella dashboard. Please review the Umbrella InTune documentation for more information.

Note: Clarity is a product of Cisco AMP for Endpoints. If you are not currently licensed for this product, please skip the related setup portion.

Mosyle

Mosyle support is in the form of the DNS Proxy configuration:

- In the **App Bundle ID** field, enter `com.cisco.ciscosecurity.app`.
- In the **Provider Bundle ID** field, enter `com.cisco.ciscosecurity.app.CiscoUmbrella`.

Add the content within the XML `<key>ProviderConfiguration</key>` to the **Mosyle Provider Configuration** field:

```
<dict>
<key>anonymizationLevel</key>
<integer>0</integer>
***
<key>serialNumber</key>
<string>%SerialNumber%</string>
</dict>
```

Note: The settings require the devices to be scoped to receive the configuration, and scopes are not added by default.

Securly

Configure Securly on the DNS Proxy profile page:

- In the **App Bundle ID** field, enter `com.cisco.ciscosecurity.app`
- In the **Provider Bundle ID** field **,** enter `com.cisco.ciscosecurity.app.CiscoUmbrella`

Use these steps to configure the `.plist` file:

1. Start with the iOS Common Config template and edit the file into a `.plist` with only the `<dict>` through `</dict>` inside the `<key>ProviderConfiguration</key>` comments.
2. Replace the `serialNumber` key with the `$serialnumber` variable as defined by Securly.
3. The `.plist` file content can look very similar to this example. Upload this to the DNS Proxy configuration:

<plist version="1.0"><dict><key>anonymizationLevel</key><integer>0</integer><key>disabled</key><false/>