

# Verizon MDM: Trusted Connection Managed Configuration



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# Summary

Managed Configuration is a methodology for MDM to provide application settings to a device when it installs the application.

- These settings can be used to pre-fill dialogs with logon information or set flags which control the application behavior.
- The 4 operating systems supported by Trusted Connection, iOS, macOS, Android and Windows, all support this methodology, although in different ways.
- These settings are applied when the Trusted Connection application is assigned to a Group, which allows for different settings applied to different groups.
- Verizon MDM Managed Configuration supports the use of replacement tokens. This feature allows an admin to set a setting value once, and reference that value in multiple configurations.

## iOS and macOS

iOS and macOS work the same way regarding Managed Configuration.

- An Apple format plist xml file is used to specify the settings.

### Trusted Connection All Settings plist

The following plist contains all the supported settings.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "https://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
  <dict>
    <key>fqdn</key>
    <string>car01.safe.redv1.com</string>
    <key>enterprise_name</key>
    <string>mdm-ts010438a</string>
    <key>user_id</key>
    <string>emily.acmecorp89@gmail.com</string>
    <key>device_id</key>
    <string>%DeviceSysID%</string>
    <key>managed_device</key>
    <true/>
  </dict>
</plist>
```

### Trusted Connection All Settings plist

The following plist contains all the supported settings.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "https://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
  <dict>
    <key>fqdn</key>
    <string>car01.safe.redv1.com</string>
    <key>enterprise_name</key>
    <string>mdm-ts010438a</string>
    <key>managed_device</key>
    <true/>
  </dict>
</plist>
```

## Verizon MDM Portal Applying Trusted Connection Managed Configuration

When we assign the Trusted Connection iOS application to a Group in the Verizon MDM portal, we can specify the Managed Configuration plist.

- The plist is added when the application is assigned to a Group

### Group Assignment

Assign <b>Trusted Connection</b> to	<input type="text" value="Trusted Connection (Global)"/>	
Mandatory	<input type="button" value="Yes ▾"/>	i
Per-App VPN Gateway	<input type="button" value="-- None -- ▾"/>	i
Per-App DNS Proxy	<input type="button" value="-- None -- ▾"/>	i
Per-App Web Content Filter	<input type="button" value="-- None -- ▾"/>	i
5G Network Slice	<input type="text"/>	i
Enable Direct Downloads For Associated Domains	<input type="button" value="No ▾"/>	i
Associated Domains	<input type="text"/>	i
Install Window	<input type="button" value="Immediately ▾"/>	i
<b>Managed Configuration</b>		i
<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "https://www.apple.com/DTDs/PropertyList-1.0.dtd"&gt; &lt;plist version="1.0"&gt; &lt;dict&gt;     &lt;key&gt;fqdn&lt;/key&gt;     &lt;string&gt;car01.safe.redvl.com&lt;/string&gt;     &lt;key&gt;enterprise_name&lt;/key&gt;     &lt;string&gt;mdm-ts010438a&lt;/string&gt;     &lt;key&gt;managed_device&lt;/key&gt;</pre>		i
<input style="background-color: black; color: white; border-radius: 10px; padding: 5px 10px; margin-right: 10px;" type="button" value="Assign"/> <input style="border-radius: 10px; padding: 5px 10px;" type="button" value="Cancel"/>		

## Android

For Android, the Google Play Store provides the Managed Configuration settings schema for all apps which support managed configuration..

- The Verizon MDM portal reads this schema from Google Play and uses it to dynamically generate a UI dialog to enter the settings, without requiring the creation of a json settings file.
- The Verizon MDM portal also supports importing a json file containing the managed configuration settings.

### Trusted Connection All Settings JSON

The following json contains all the supported settings.

```
{  
  "managedProperty": [  
    {  
      "valueString": "car01.safe.redv1.com",  
      "key": "fqdn"  
    },  
    {  
      "valueString": "mdm-ts040138a",  
      "key": "enterprise_name"  
    },  
    {  
      "valueString": "emily.acmecorp89@gmail.com",  
      "key": "user"  
    },  
    {  
      "valueString": "%DeviceSysID%",  
      "key": "device_id"  
    },  
    {  
      "valueBool": true,  
      "key": "managed_device"  
    }  
  ]  
}
```

## Trusted Connection Current Settings JSON

The following json contains the settings which we are currently using.

```
{  
  "managedProperty": [  
    {  
      "valueString": "car01.safe.redvl.com",  
      "key": "fqdn"  
    },  
    {  
      "valueString": "mdm-ts040138a",  
      "key": "enterprise_name"  
    },  
    {  
      "valueBool": true,  
      "key": "managed_device"  
    }  
  ]  
}
```

## Verizon MDM Portal Applying Trusted Connection Managed Configuration

When we assign the Trusted Connection Android application to a Group in the Verizon MDM portal, we can specify the Managed Configuration settings.

- The settings are added when the application is assigned to a Group.
- The settings can be entered into the Managed Configuration dialog or imported from a json file.

**NOT** “Managed Device” setting is not shown in the dialog below. The current application version in the Google Play Store (7.5.17) does not support this setting, therefore it was not included in the schema which the Verizon MDM portal read from Google Play.

### Android Managed Application Configuration

Optionally Load Settings from a file

Choose File No file chosen

**Managed Settings**

Device ID

FQDN

Enterprise Name

User

## Windows

For Windows, the Managed Configuration settings are added to the MSI installation command line.

- Windows MDM requires MSI installations to run silently.
- The following command line must be used to run the installer silently and specify the managed configuration settings.

### Windows MSI Install Command Line All Settings

The following command line contains all the supported settings.

```
/qn WRAPPED_ARGUMENTS="/verysilent EnterpriseName=mdm-ts010438a HostName=car01.safe.redv1.com  
UserId=emily.acmecorp89@gmail.com"
```

### Windows MSI Install Command Line Current Settings

The following command line contains the settings which we are currently using.

```
/qn WRAPPED_ARGUMENTS="/verysilent EnterpriseName=mdm-ts010438a HostName=car01.safe.redv1.com"
```

## Verizon MDM Portal Applying Trusted Connection Managed Configuration

When we create the Trusted Connection Windows application policy, we specify the command line used to run the installer.

APPLICATIONS		APPLIES TO
<b>Trusted Connection</b>		
Deploy applications to devices. Applications can be distributed directly from the App Stores or by uploading a binary to the portal.		
Platform	Windows Desktop	i
Type	Local Provision	
Source	<input type="button" value="File Upload"/>	i
Package Type	<input type="button" value="General App"/>	i
Enabled	<input type="button" value="Yes"/>	i
Display Name	Trusted Connection	i
Identifier	{AB2822AA-2B85-4363-8823-557FCA99EBDA}	i
Version	7.8.11	i
Package Checksum	D9ACB14B189EA64F7CE635A25E4EF80CCF46C933D0587C55B1	i
Download URL	<a href="https://verizonmdm-dev1zw.com/emm/customers/RonsTestCompany/updates/02b33af3-de8f-4e84-99fd-bd475c30861d/TrustedConnection_v7.8.11_x64.msi">https://verizonmdm-dev1zw.com/emm/customers/RonsTestCompany/updates/02b33af3-de8f-4e84-99fd-bd475c30861d/TrustedConnection_v7.8.11_x64.msi</a>	i
Upload Application Binary	<input type="button" value="Choose File"/> No file chosen	i
WindowsStoreID		
Command Line	/qn WRAPPED_ARGUMENTS="/verysilent EnterpriseName=mdm-t	i

