

MDM Profile Usage

General Information

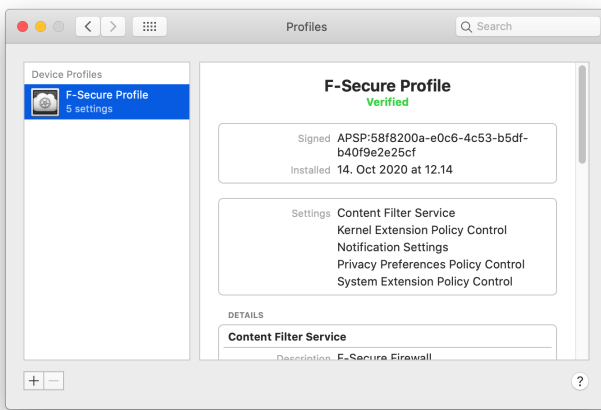
Mobile Device Management profile (MDM profile) can be used to simplify product setup process by configuring device's System Preferences, such as:

- allowed system extensions (required by F-Secure Application Layer Firewall, on macOS >= 10.15.5)
- allowed kernel extensions (required by file-scanning operations, F-Secure Application Layer Firewall and XFENCE, on macOS < 10.15.5)
- allowed network filters (required by F-Secure Application Layer Firewall, on macOS >= 10.15.5)
- allowed Full Disk Access (required by file-scanning operations, F-Secure Application Layer Firewall and XFENCE)
- user notifications

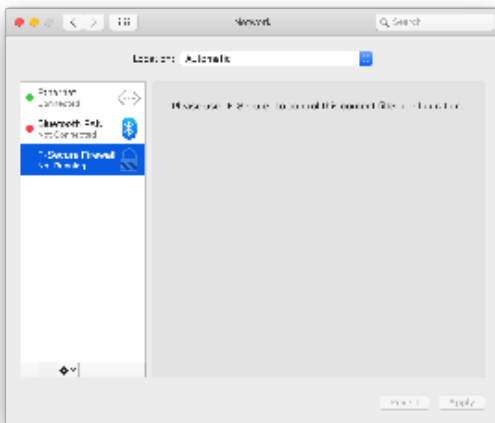
System Preferences on managed device

Here is a samples of how System Preferences should look when MDM profile with all payloads is installed correctly:

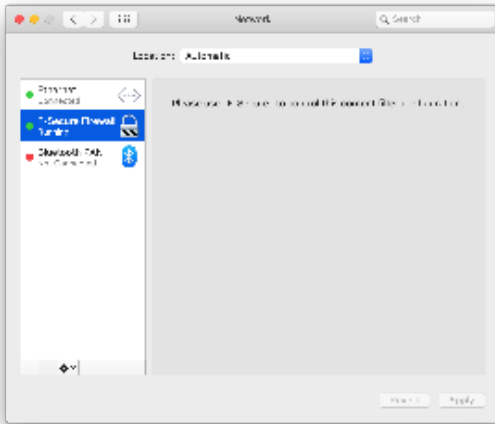
- Profiles (depending on your MDM provider there could be additional device profiles in the list)



- Network Preferences with F-Secure Application Layer Firewall disabled

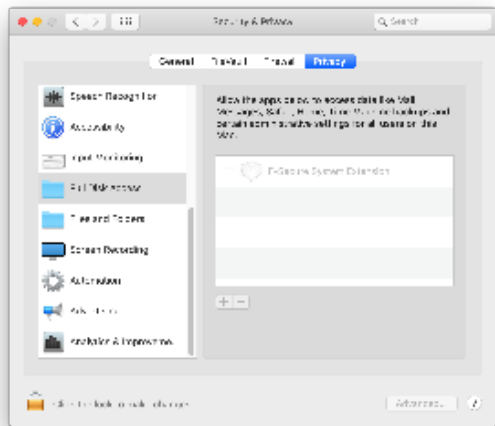


- Network Preferences with F-Secure Application Layer Firewall enabled

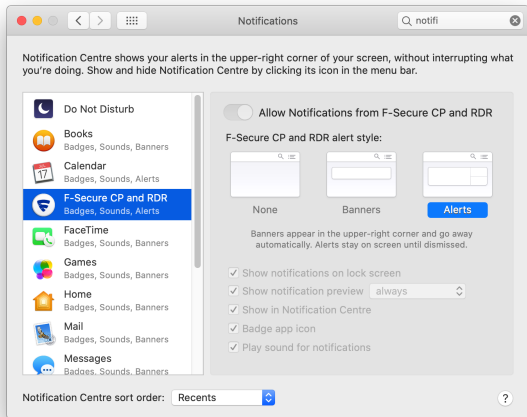


- Full Disc Access

⚠ There is a problem with macOS which could lead to displaying unchecked F-Secure bundles while Full Disc Access is actually granted. Enabling or disabling it manually would not affect product behavior.



- User notifications for F-Secure CP and RDR should be locked in **Allow** state



If MDM profile was installed correctly before the product installation, there **should not** be any alerts, related to configured settings, such as:



"F-Secure CP and RDR" Notificati...

Notifications may include alerts, sounds and icon badges.

Don't Allow

Allow



System Extension Blocked

The program "F-Secure Mac Protection" tried to load new system extension(s). If you want to enable these extensions, open Security & Privacy System Preferences.

Open Security Preferences

OK

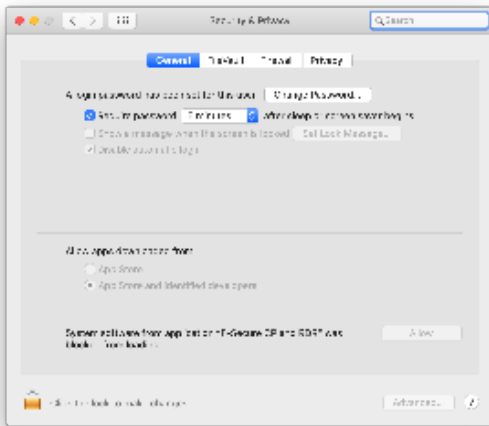


"F-Secure" Would Like to Filter Network Content

All network activity on this Mac may be filtered or monitored.

Allow

Don't Allow



Advanced topic: payloads description

Official Apple documentation on MDM profiles: https://developer.apple.com/documentation/devicemanagement/profile-specific_payload_keys

Use the following samples as a template to create/extend your own MDM profiles manually.



You may want to replace PayloadUUID and PayloadIdentifier from the samples with your own. UUIDs can be generated using, for example, 'uuidgen' command-line tool.

Per-case MDM profiles

You can create several MDM profiles, one per each preference. Use samples from this section as a reference.

Allow all F-Secure kernel extensions

Apple docs: <https://developer.apple.com/documentation/devicemanagement/systemextensions>

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>AllowUserOverrides</key>
      <true/>
      <key>AllowedTeamIdentifiers</key>
      <array>
        <string>6KALSAFZJC</string>
      </array>
      <key>PayloadDescription</key>
      <string>Allows F-Secure Kernel Extensions</string>
      <key>PayloadDisplayName</key>
      <string>F-Secure Kernel Extensions</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.syspolicy.kernel-extension-policy.88C7AA59-0157-4267-B00B-
E908A7D50123</string>
      <key>PayloadType</key>
      <string>com.apple.syspolicy.kernel-extension-policy</string>
      <key>PayloadUUID</key>
      <string>88C7AA59-0157-4267-B00B-E908A7D50123</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
  </array>
  <key>PayloadDisplayName</key>
  <string>F-Secure CP and RDR Profile</string>
  <key>PayloadIdentifier</key>
  <string>SAMPLE.00000000-0000-0000-0000-000000000001</string>
  <key>PayloadRemovalDisallowed</key>
  <false/>
  <key>PayloadType</key>
  <string>Configuration</string>
  <key>PayloadUUID</key>
  <string>00000000-0000-0000-0000-000000000001</string>
  <key>PayloadVersion</key>
  <integer>1</integer>
</dict>
</plist>

```

Allow all F-Secure system extensions

Apple docs: <https://developer.apple.com/documentation/devicemanagement/systempolicykernelextensions>

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>AllowUserOverrides</key>
      <true/>
      <key>AllowedTeamIdentifiers</key>
      <array>
        <string>6KALSAFZJC</string>
      </array>
      <key>PayloadDescription</key>
      <string>Allows F-Secure System Extension</string>
      <key>PayloadDisplayName</key>
      <string>F-Secure System Extension</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.system-extension-policy.B1E740C4-052A-4B64-AB54-2962327B6512</string>
      <key>PayloadType</key>
      <string>com.apple.system-extension-policy</string>
      <key>PayloadUUID</key>
      <string>B1E740C4-052A-4B64-AB54-2962327B6512</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
  </array>
  <key>PayloadDisplayName</key>
  <string>F-Secure CP and RDR Profile</string>
  <key>PayloadIdentifier</key>
  <string>SAMPLE.00000000-0000-0000-0000-000000000001</string>
  <key>PayloadRemovalDisallowed</key>
  <false/>
  <key>PayloadType</key>
  <string>Configuration</string>
  <key>PayloadUUID</key>
  <string>00000000-0000-0000-0000-000000000001</string>
  <key>PayloadVersion</key>
  <integer>1</integer>
</dict>
</plist>

```

Allow content filtering for F-Secure system extension

Apple docs: <https://developer.apple.com/documentation/devicemanagement/webcontentfilter>

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>UserDefinedName</key>
      <string>F-Secure Firewall</string>
      <key>PluginBundleID</key>
      <string>com.f-secure.fsmac.gui</string>
      <key>FilterDataProviderBundleIdentifier</key>
      <string>com.f-secure.fsmac.gui.FSCSystemExtension</string>
      <key>FilterDataProviderDesignatedRequirement</key>
      <string>identifier "com.f-secure.fsmac.gui.FSCSystemExtension" and anchor apple generic
and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
      <key>FilterSockets</key>
      <true/>
      <key>FilterPackets</key>
      <false/>
      <key>FilterBrowsers</key>
      <false/>
      <key>FilterType</key>
      <string>Plugin</string>
      <key>PayloadDescription</key>
      <string>Allow F-Secure Firewall to filter network traffic</string>
      <key>PayloadDisplayName</key>
      <string>F-Secure Firewall</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.webcontent-filter.9FF6DE99-59E2-47A1-8918-CE259D92E785</string>
      <key>PayloadType</key>
      <string>com.apple.webcontent-filter</string>
      <key>PayloadUUID</key>
      <string>9FF6DE99-59E2-47A1-8918-CE259D92E785</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
  </array>
  <key>PayloadDisplayName</key>
  <string>F-Secure CP and RDR Profile</string>
  <key>PayloadIdentifier</key>
  <string>SAMPLE.00000000-0000-0000-0000-000000000001</string>
  <key>PayloadRemovalDisallowed</key>
  <false/>
  <key>PayloadType</key>
  <string>Configuration</string>
  <key>PayloadUUID</key>
  <string>00000000-0000-0000-0000-000000000001</string>
  <key>PayloadVersion</key>
  <integer>1</integer>
</dict>
</plist>

```

Grant Full Disk Access for F-Secure processes

Apple docs: <https://developer.apple.com/documentation/devicemanagement/privacypreferencespolicycontrol/services>

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>PayloadDescription</key>
      <string>Grant Full Disk Access to F-Secure processes</string>
      <key>PayloadDisplayName</key>
      <string>Grant Full Disk Access to F-Secure processes</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.TCC.configuration-profile-policy.F8432F17-1ECD-420D-B3D0-2A35F0BB144E<
/string>

      <key>PayloadUUID</key>
      <string>F8432F17-1ECD-420D-B3D0-2A35F0BB144E</string>
      <key>PayloadType</key>
      <string>com.apple.TCC.configuration-profile-policy</string>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
      <key>Services</key>
      <dict>
        <key>SystemPolicyAllFiles</key>
        <array>
          <dict>
            <key>Identifier</key>
            <string>com.f-secure.fsmac.gui</string>
            <key>IdentifierType</key>
            <string>bundleID</string>
            <key>CodeRequirement</key>
            <string>identifier "com.f-secure.fsmac.gui" and anchor apple
generic and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
            <key>Allowed</key>
            <true/>
            <key>Comment</key>
            <string>Grant Full Disk Access to F-Secure processes</string>
          </dict>
          <dict>
            <key>Identifier</key>
            <string>com.f-secure.fsmac.gui.FSCSystemExtension</string>
            <key>IdentifierType</key>
            <string>bundleID</string>
            <key>CodeRequirement</key>
            <string>identifier "com.f-secure.fsmac.gui.FSCSystemExtension"
and anchor apple generic and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
            <key>Allowed</key>
            <true/>
            <key>Comment</key>
            <string>Grant Full Disk Access to F-Secure System Extension'<
/string>

          </dict>
        </array>
      </dict>
    </array>
    <key>PayloadDisplayName</key>
    <string>F-Secure CP and RDR Profile</string>
    <key>PayloadIdentifier</key>
    <string>SAMPLE.00000000-0000-0000-0000-000000000001</string>
    <key>PayloadRemovalDisallowed</key>
    <false/>
    <key>PayloadType</key>
    <string>Configuration</string>
    <key>PayloadUUID</key>
    <string>00000000-0000-0000-0000-000000000001</string>
    <key>PayloadVersion</key>
    <integer>1</integer>
  </dict>
</plist>

```


Allow User Notifications for F-Secure processes

Apple docs: <https://developer.apple.com/documentation/devicemanagement/notifications/notificationsettingsitem>

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>NotificationSettings</key>
      <array>
        <dict>
          <key>AlertType</key>
          <integer>2</integer>
          <key>BadgesEnabled</key>
          <true/>
          <key>BundleIdentifier</key>
          <string>com.f-secure.fsmac.gui</string>
          <key>CriticalAlertEnabled</key>
          <false/>
          <key>NotificationsEnabled</key>
          <true/>
          <key>ShowInLockScreen</key>
          <true/>
          <key>ShowInNotificationCenter</key>
          <true/>
          <key>SoundsEnabled</key>
          <true/>
        </dict>
      </array>
      <key>PayloadEnabled</key>
      <true/>
      <key>PayloadDescription</key>
      <string>Allow notifications for F-Secure products</string>
      <key>PayloadDisplayName</key>
      <string>Allow notifications for F-Secure products</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.notificationsettings.A134E8B3-AE82-4AE9-8D39-F9976B5BEEE1</string>
      <key>PayloadType</key>
      <string>com.apple.notificationsettings</string>
      <key>PayloadUUID</key>
      <string>A134E8B3-AE82-4AE9-8D39-F9976B5BEEE1</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
  </array>
  <key>PayloadDisplayName</key>
  <string>F-Secure CP and RDR Profile</string>
  <key>PayloadIdentifier</key>
  <string>SAMPLE.00000000-0000-0000-0000-000000000001</string>
  <key>PayloadRemovalDisallowed</key>
  <false/>
  <key>PayloadType</key>
  <string>Configuration</string>
  <key>PayloadUUID</key>
  <string>00000000-0000-0000-0000-000000000001</string>
  <key>PayloadVersion</key>
  <integer>1</integer>
</dict>
</plist>
```

Combined MDM profile

You can create single MDM profile, which will contain necessary all preferences. Use sample from this section as a reference.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>PayloadContent</key>
  <array>
    <dict>
      <key>AllowUserOverrides</key>
      <true/>
      <key>AllowedTeamIdentifiers</key>
      <array>
        <string>6KALSAFZJC</string>
      </array>
      <key>PayloadDescription</key>
      <string>Allows F-Secure Kernel Extensions</string>
      <key>PayloadDisplayName</key>
      <string>F-Secure Kernel Extensions</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.syspolicy.kernel-extension-policy.88C7AA59-0157-4267-B00B-
E908A7D50123</string>
      <key>PayloadType</key>
      <string>com.apple.syspolicy.kernel-extension-policy</string>
      <key>PayloadUUID</key>
      <string>88C7AA59-0157-4267-B00B-E908A7D50123</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
    <dict>
      <key>AllowUserOverrides</key>
      <true/>
      <key>AllowedTeamIdentifiers</key>
      <array>
        <string>6KALSAFZJC</string>
      </array>
      <key>PayloadDescription</key>
      <string>Allows F-Secure System Extension</string>
      <key>PayloadDisplayName</key>
      <string>F-Secure System Extension</string>
      <key>PayloadIdentifier</key>
      <string>com.apple.system-extension-policy.B1E740C4-052A-4B64-AB54-2962327B6512</string>
      <key>PayloadType</key>
      <string>com.apple.system-extension-policy</string>
      <key>PayloadUUID</key>
      <string>B1E740C4-052A-4B64-AB54-2962327B6512</string>
      <key>PayloadVersion</key>
      <integer>1</integer>
      <key>PayloadOrganization</key>
      <string>F-Secure Corporation</string>
    </dict>
    <dict>
      <key>UserDefinedName</key>
      <string>F-Secure Firewall</string>
      <key>PluginBundleID</key>
      <string>com.f-secure.fsmac.gui</string>
      <key>FilterDataProviderBundleIdentifier</key>
      <string>com.f-secure.fsmac.gui.FSCSystemExtension</string>
      <key>FilterDataProviderDesignatedRequirement</key>
      <string>identifier "com.f-secure.fsmac.gui.FSCSystemExtension" and anchor apple generic
and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
      <key>FilterSockets</key>
      <true/>
      <key>FilterPackets</key>
      <false/>
      <key>FilterBrowsers</key>
      <false/>
      <key>FilterType</key>
      <string>Plugin</string>
      <key>PayloadDescription</key>

```

```

        <string>Allow F-Secure Firewall to filter network traffic</string>
        <key>PayloadDisplayName</key>
        <string>F-Secure Firewall</string>
        <key>PayloadIdentifier</key>
        <string>com.apple.webcontent-filter.9FF6DE99-59E2-47A1-8918-CE259D92E785</string>
        <key>PayloadType</key>
        <string>com.apple.webcontent-filter</string>
        <key>PayloadUUID</key>
        <string>9FF6DE99-59E2-47A1-8918-CE259D92E785</string>
        <key>PayloadVersion</key>
        <integer>1</integer>
        <key>PayloadOrganization</key>
        <string>F-Secure Corporation</string>
    </dict>
</dict>
    <key>PayloadDescription</key>
    <string>Grant Full Disk Access to F-Secure processes</string>
    <key>PayloadDisplayName</key>
    <string>Grant Full Disk Access to F-Secure processes</string>
    <key>PayloadIdentifier</key>
    <string>com.apple.TCC.configuration-profile-policy.F8432F17-1ECD-420D-B3D0-2A35F0BB144E<
/string>

    <key>PayloadUUID</key>
    <string>F8432F17-1ECD-420D-B3D0-2A35F0BB144E</string>
    <key>PayloadType</key>
    <string>com.apple.TCC.configuration-profile-policy</string>
    <key>PayloadOrganization</key>
    <string>F-Secure Corporation</string>
    <key>Services</key>
    <dict>
        <key>SystemPolicyAllFiles</key>
        <array>
            <dict>
                <key>Identifier</key>
                <string>com.f-secure.fsmac.gui</string>
                <key>IdentifierType</key>
                <string>bundleID</string>
                <key>CodeRequirement</key>
                <string>identifier "com.f-secure.fsmac.gui" and anchor apple
generic and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
                <key>Allowed</key>
                <true/>
                <key>Comment</key>
                <string>Grant Full Disk Access to F-Secure processes</string>
            </dict>
            <dict>
                <key>Identifier</key>
                <string>com.f-secure.fsmac.gui.FSCSystemExtension</string>
                <key>IdentifierType</key>
                <string>bundleID</string>
                <key>CodeRequirement</key>
                <string>identifier "com.f-secure.fsmac.gui.FSCSystemExtension"
and anchor apple generic and certificate leaf[subject.OU] = "6KALSAFZJC"</string>
                <key>Allowed</key>
                <true/>
                <key>Comment</key>
                <string>Grant Full Disk Access to F-Secure System Extension'<
/string>

            </dict>
        </array>
    </dict>
</dict>
<key>NotificationSettings</key>
<array>
    <dict>
        <key>AlertType</key>
        <integer>2</integer>
        <key>BadgesEnabled</key>
        <true/>
        <key>BundleIdentifier</key>

```

```
        <string>com.f-secure.fsmac.gui</string>
        <key>CriticalAlertEnabled</key>
        <false/>
        <key>NotificationsEnabled</key>
        <true/>
        <key>ShowInLockScreen</key>
        <true/>
        <key>ShowInNotificationCenter</key>
        <true/>
        <key>SoundsEnabled</key>
        <true/>
    </dict>
</array>
    <key>PayloadEnabled</key>
    <true/>
    <key>PayloadDescription</key>
    <string>Allow notifications for F-Secure products</string>
    <key>PayloadDisplayName</key>
    <string>Allow notifications for F-Secure products</string>
    <key>PayloadIdentifier</key>
    <string>com.apple.notificationsettings.A134E8B3-AE82-4AE9-8D39-F9976B5BEEE1</string>
    <key>PayloadType</key>
    <string>com.apple.notificationsettings</string>
    <key>PayloadUUID</key>
    <string>A134E8B3-AE82-4AE9-8D39-F9976B5BEEE1</string>
    <key>PayloadVersion</key>
    <integer>1</integer>
    <key>PayloadOrganization</key>
    <string>F-Secure Corporation</string>
</dict>
</array>
<key>PayloadDisplayName</key>
<string>F-Secure CP and RDR Profile</string>
<key>PayloadIdentifier</key>
<string>com.f-secure.fsmac.ECB3785B-1071-4041-9816-52D1DDF77346</string>
<key>PayloadRemovalDisallowed</key>
<false/>
<key>PayloadType</key>
<string>Configuration</string>
<key>PayloadUUID</key>
<string>ECB3785B-1071-4041-9816-52D1DDF77346</string>
<key>PayloadVersion</key>
<integer>1</integer>
<key>PayloadOrganization</key>
<string>F-Secure Corporation</string>
</dict>
</plist>
```