



AUTOMATA

Technology Services LLC

Device Management Using Microsoft Intune

Introduction to Configuration Profiles

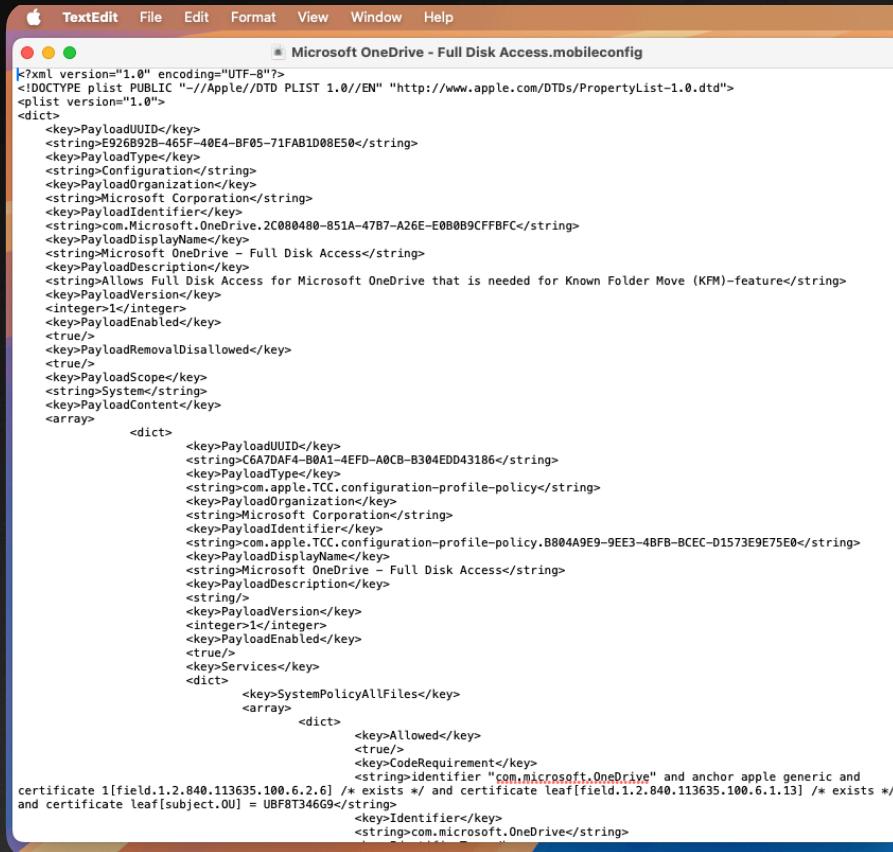
Lecture

Configuration Profiles

- An XML file ending in .mobileconfig
- Contains one or more 'payloads' or settings and authorization information.
- Automates the configuration of restrictions, settings, accounts, credentials, certs.



Example



The screenshot shows a Mac OS X TextEdit window displaying a Property List (plist) file. The title bar reads "TextEdit Microsoft OneDrive - Full Disk Access.mobileconfig". The content of the file is as follows:

```
<?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>PayloadUUID</key>
    <string>E926B92B-465F-40E4-BF05-71FAB1D08E50</string>
    <key>PayloadType</key>
    <string>Configuration</string>
    <key>PayloadOrganization</key>
    <string>Microsoft Corporation</string>
    <key>PayloadIdentifier</key>
    <string>com.Microsoft.OneDrive.2C080480-851A-47B7-A26E-E0B0B9CFFBFC</string>
    <key>PayloadDisplayName</key>
    <string>Microsoft OneDrive - Full Disk Access</string>
    <key>PayloadDescription</key>
    <string>Allows Full Disk Access for Microsoft OneDrive that is needed for Known Folder Move (KFM)-feature</string>
    <key>PayloadVersion</key>
    <integer>1</integer>
    <key>PayloadEnabled</key>
    <true/>
    <key>PayloadRemovalDisallowed</key>
    <true/>
    <key>PayloadScope</key>
    <string>System</string>
    <key>PayloadContent</key>
    <array>
        <dict>
            <key>PayloadUUID</key>
            <string>C6A7DAF4-B0A1-4EFD-A0CB-B304EDD43186</string>
            <key>PayloadType</key>
            <string>com.apple.TCC.configuration-profile-policy</string>
            <key>PayloadOrganization</key>
            <string>Microsoft Corporation</string>
            <key>PayloadIdentifier</key>
            <string>com.apple.TCC.configuration-profile-policy.B804A9E9-9EE3-4BFB-BCEC-D1573E9E75E0</string>
            <key>PayloadDisplayName</key>
            <string>Microsoft OneDrive - Full Disk Access</string>
            <key>PayloadDescription</key>
            <string></string>
            <key>PayloadVersion</key>
            <integer>1</integer>
            <key>PayloadEnabled</key>
            <true/>
            <key>Services</key>
            <dict>
                <key>SystemPolicyAllFiles</key>
                <array>
                    <dict>
                        <key>Allowed</key>
                        <true/>
                        <key>CodeRequirement</key>
                        <string>identifier "com.microsoft.OneDrive" and anchor apple generic and certificate 1[field.1.2.840.113635.100.6.2.6] /* exists */ and certificate leaf[field.1.2.840.113635.100.6.1.13] /* exists */ and certificate leaf[subject.OU] = UBF8T346G9</string>
                        <key>Identifier</key>
                        <string>com.microsoft.OneDrive</string>
                    
```

Profile Distribution

- Via a website or company website / employee portal.
- Via email attachment.
- Using Apple Configurator with an attached device.
- Via MDM

Scaling Configuration Profiles



VPN.mobileconfig



WiFi.mobileconfig



MKT-Apps.mobileconfig

Layering Configurations



In Office Staff

WiFi Configuration



Remote Staff

VPN Configuration



Marketing Staff (Remote)

VPN Configuration

Marketing Dept Apps

Declarations

Lecture

Declarations

- Similar to Configuration Payloads, but based on Declarative Device Management.
- Declarations describe what state they want the device to be in and allow the device to manage itself.



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Creating Your First Configuration Profile

Practical Exercise

Using Scope Tags

Practical Exercise

Understanding Payload Configuration Priority

Practical Exercise

Identifying Supervised Device Payloads

Practical Exercise

Using Policy Sets

Practical Exercise

Creating Policy Filters

Practical Exercise

Import a Custom Profile

Practical Exercise