



Software Updates. Think Different.



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Sales Engineer

Jamf



Agenda

Updates of Old

Rise of the MDM

DDM Enters the Chat

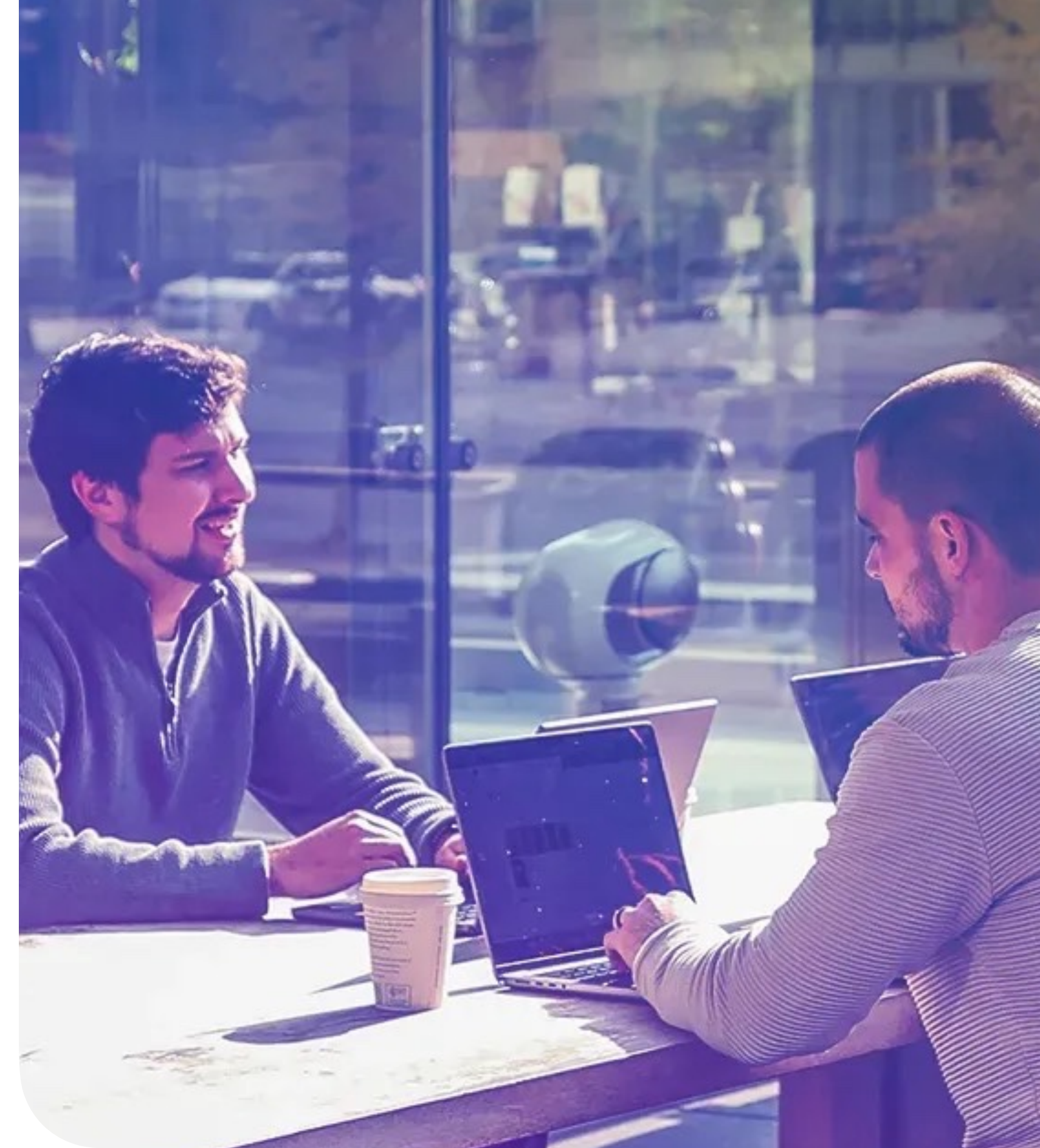
Takeaways

Glossary

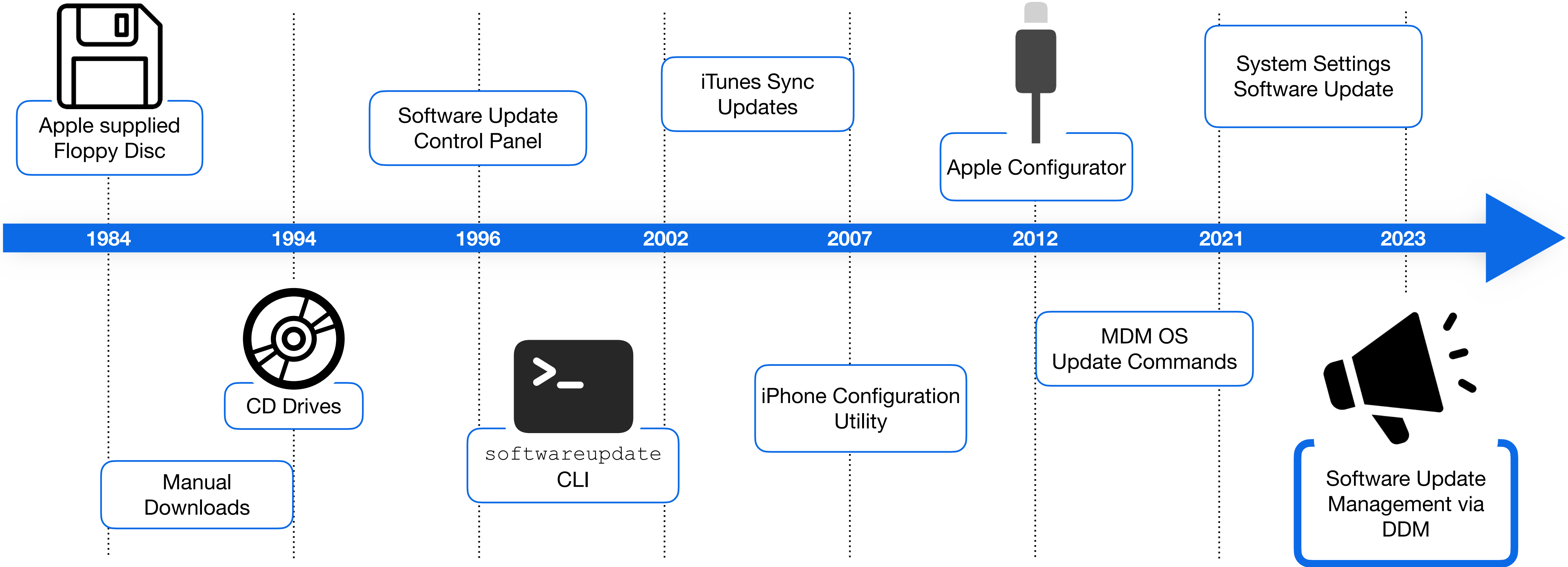
ARD	Apple Remote Desktop
APNs	Apple Push Notification Service
Software Updates	Minor Updates e.g 26.4
Software Upgrades	Major OS Upgrades e.g 26.0
MDM	Mobile Device Management
DDM	Declarative Device Management
BSI	Background Security Improvement



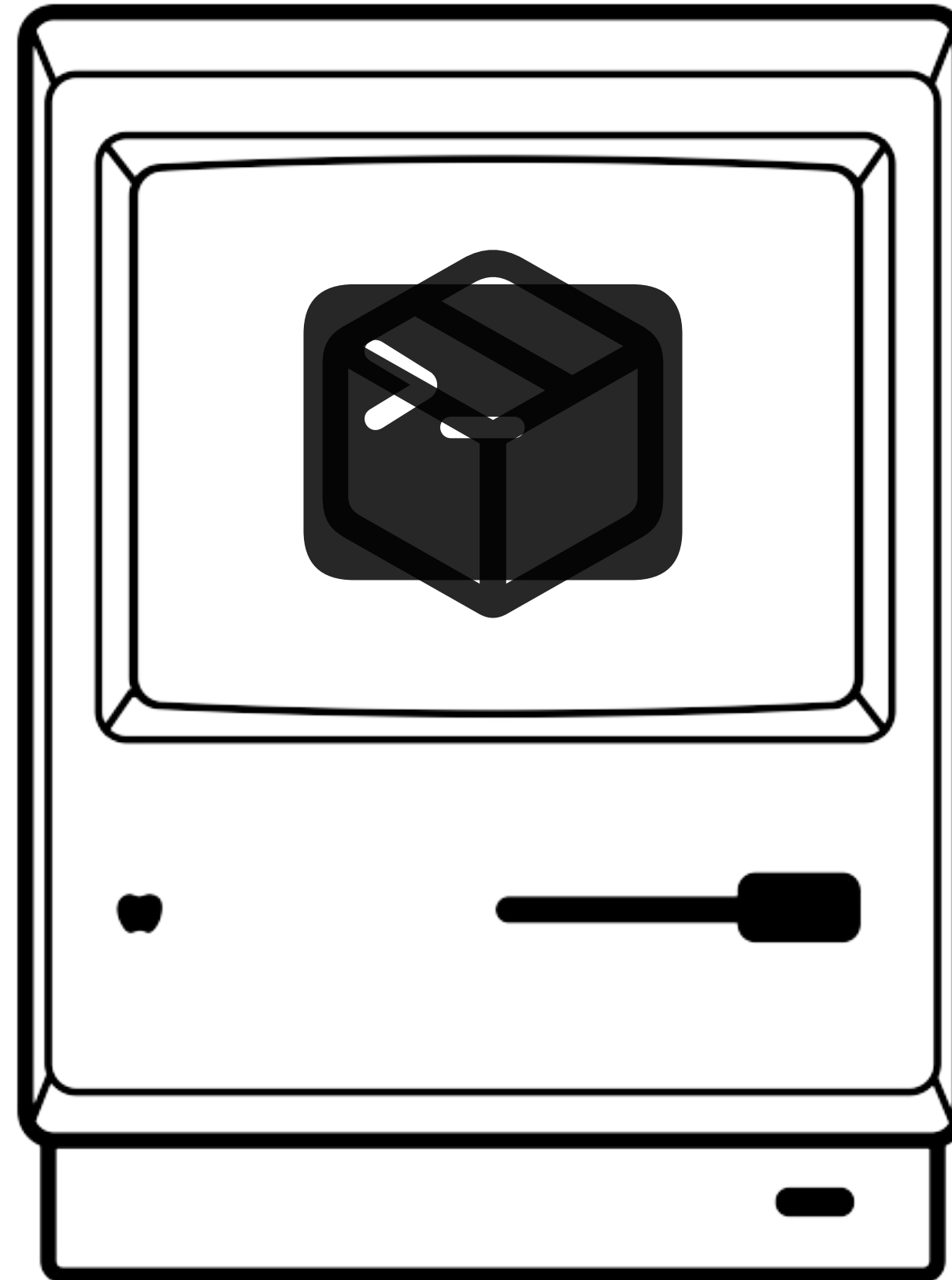
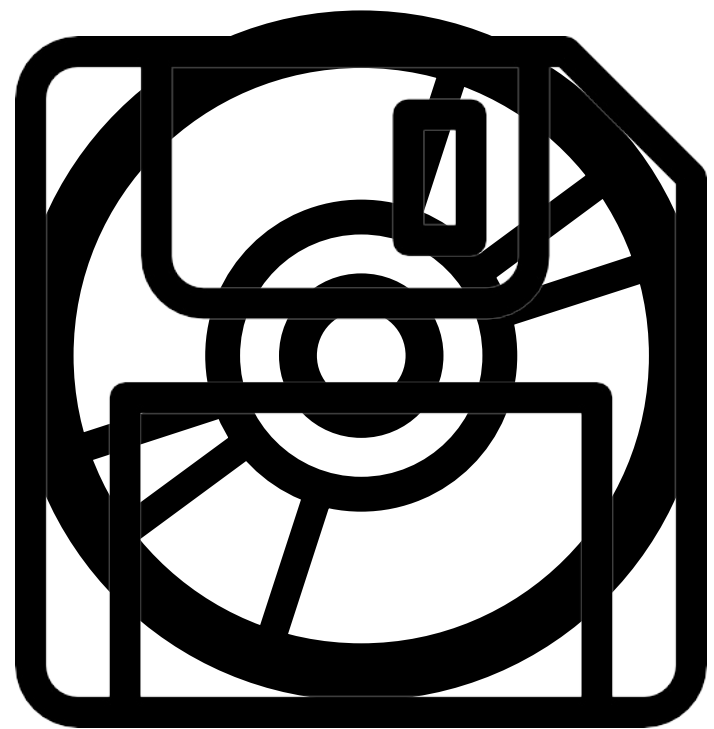
Updates of Old



The Software Update Journey

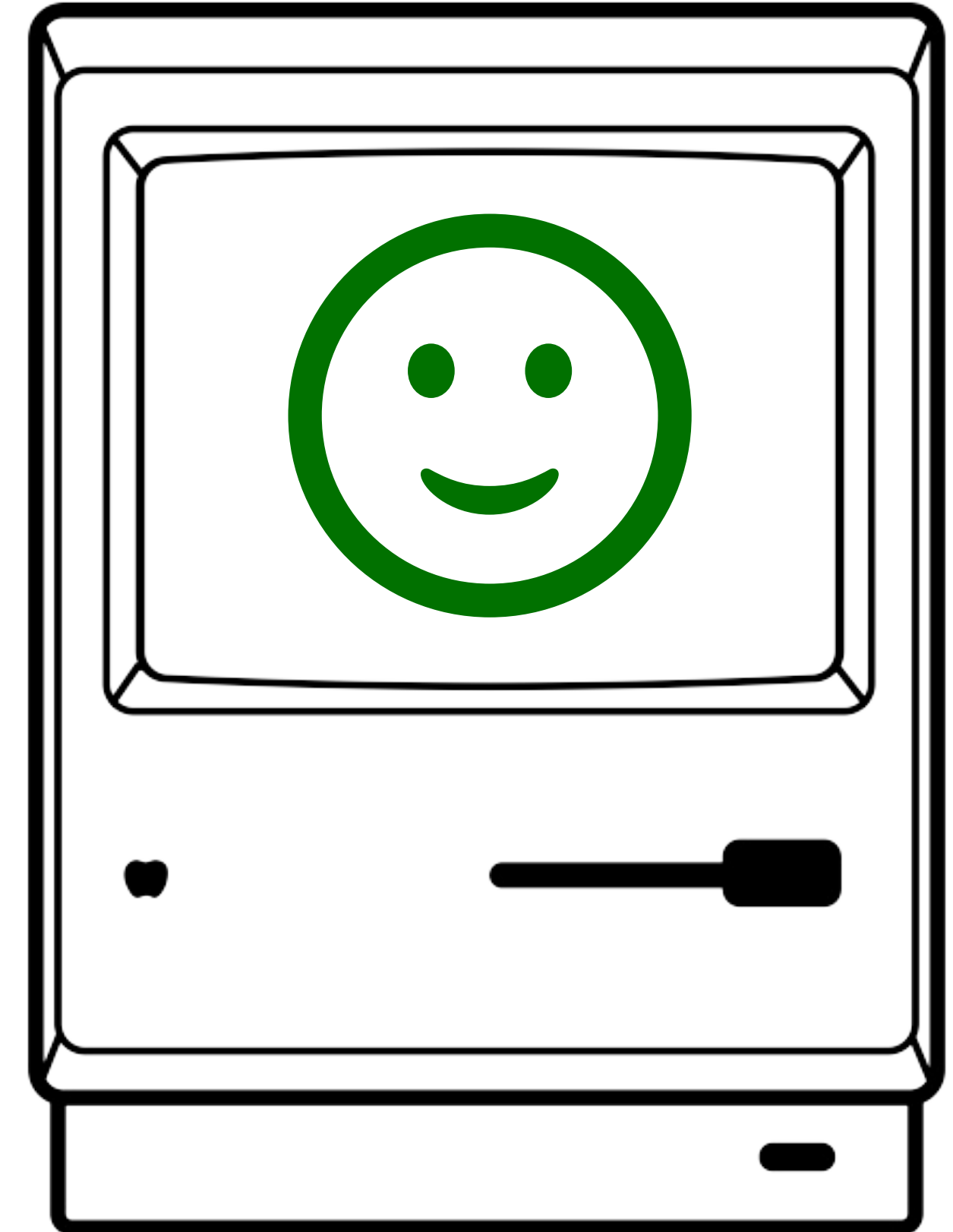


Pre-MDM Update Workflow



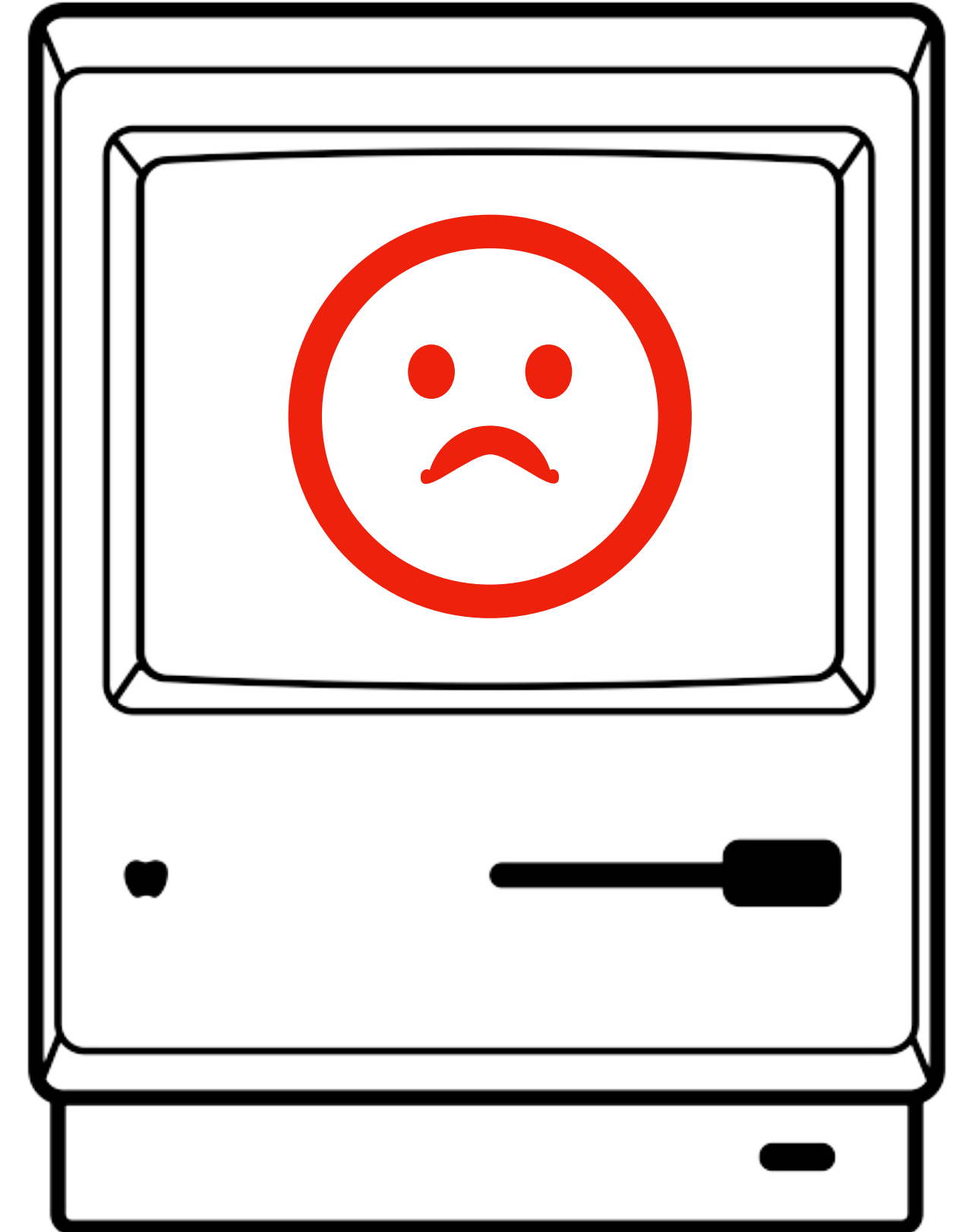
Pre-MDM Update Workflow

- Stability and Performance Improvements
- New Features and Enhancements
- Enhanced Hardware and File Support



Pre-MDM Update Workflow

- Physically touch the device or use imaging workflows
- No enforcement
- No visibility

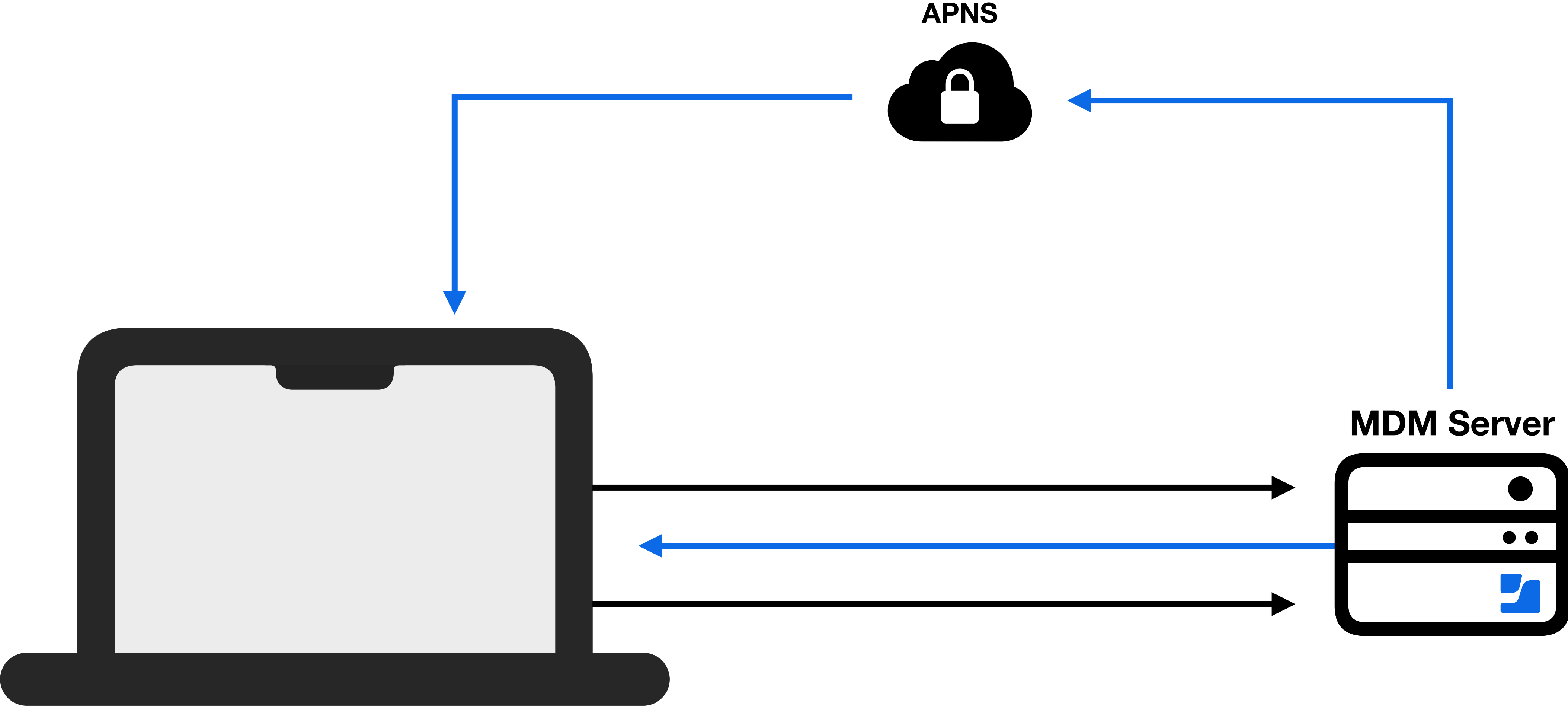




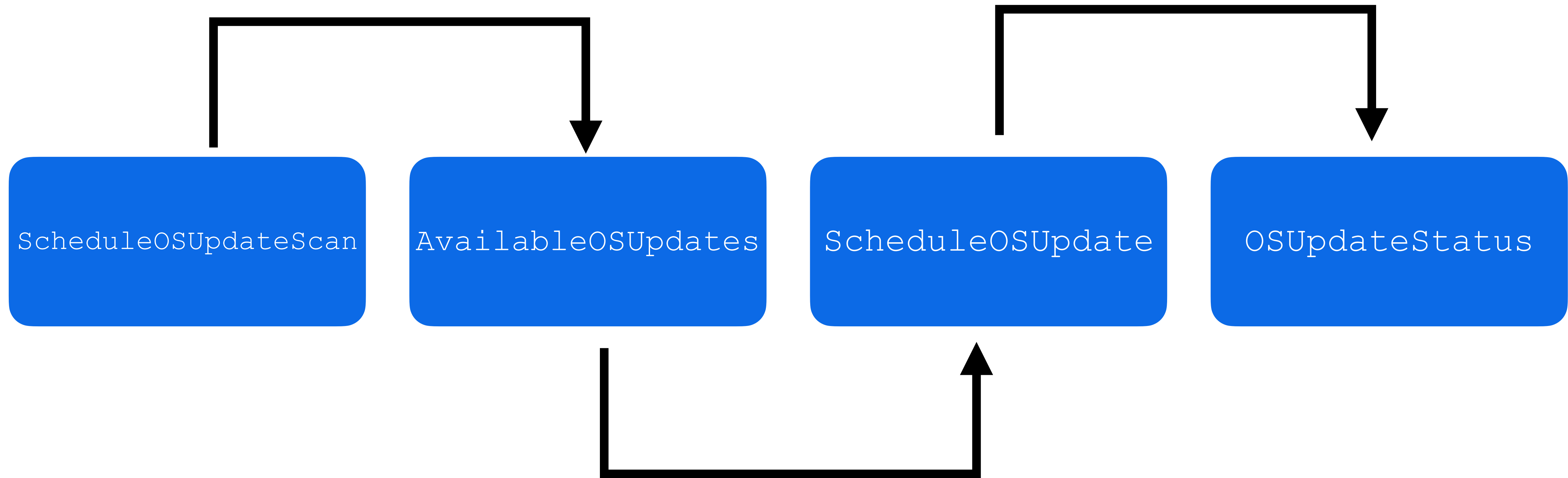
Rise of the MDM



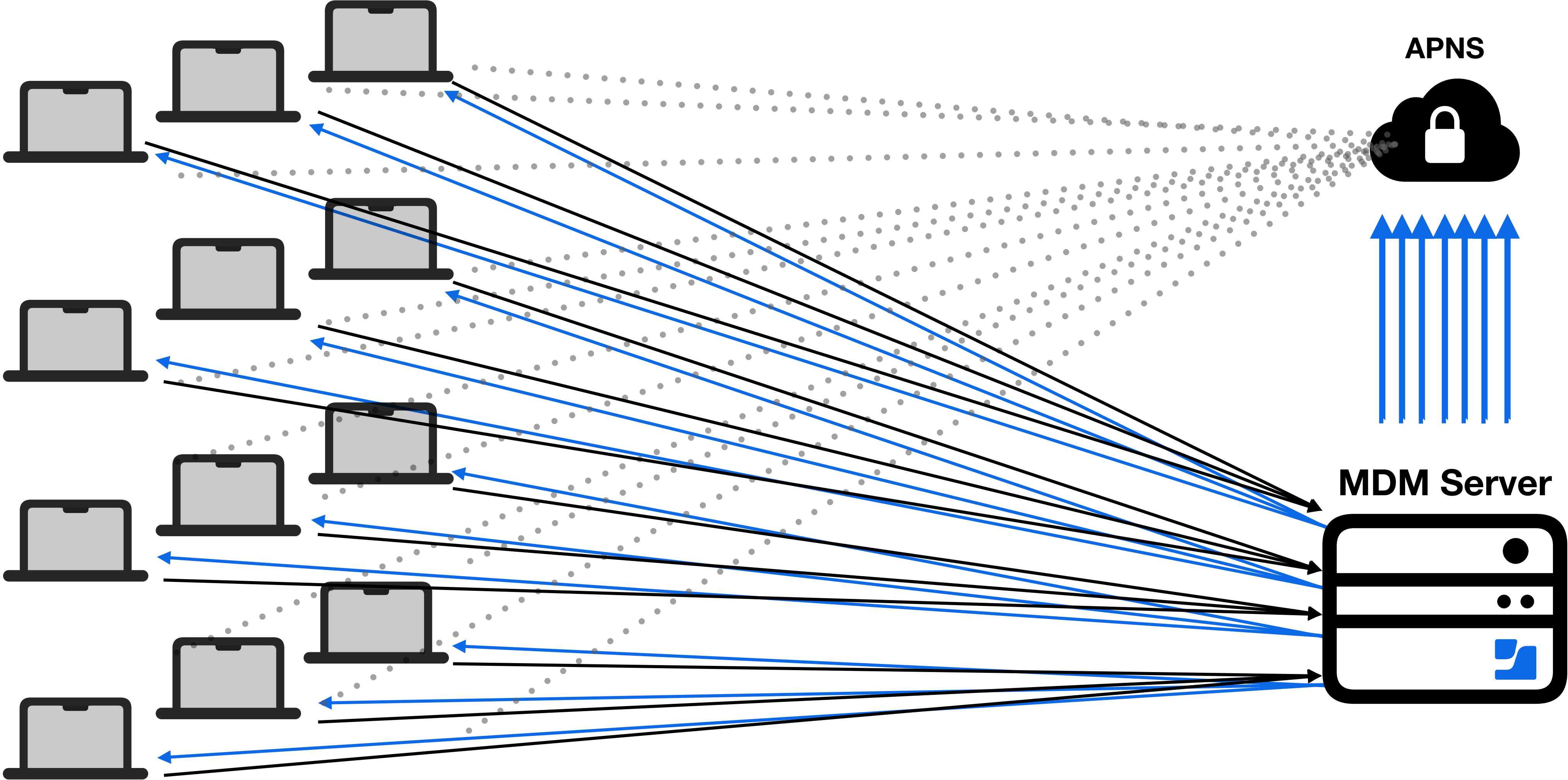
Mobile **Device Management**



MDM Update Workflow



Mobile **Device Management**



Deprecations

Schedule OS Update Scan **Deprecated**

Schedule a background scan for operating-system updates on a device.

macOS 10.11–26.0 **Deprecated** | Device Assignment Services | VPP License Management

Deprecated

Use Declarative Device Management's software update features instead.

Available OS Updates **Deprecated**

Get a list of available operating-system updates for a device.

iOS 9.0–26.0 **Deprecated** | iPadOS 9.0–26.0 **Deprecated** | Mac Catalyst 9.0–26.0 **Deprecated** | macOS 10.11–26.0 **Deprecated** |
tvOS 12.0–26.0 **Deprecated** | Device Assignment Services | VPP License Management

Deprecated

Use Declarative Device Management's software update features instead.

Schedule OS Update **Deprecated**

Schedule an update of the operating system on a device.

iOS 9.0–26.0 **Deprecated** | iPadOS 9.0–26.0 **Deprecated** | Mac Catalyst 9.0–26.0 **Deprecated** | macOS 10.11–26.0 **Deprecated** |
tvOS 12.0–26.0 **Deprecated** | Device Assignment Services | VPP License Management

Deprecated

Use Declarative Device Management's software update features instead.

OS Update Status **Deprecated**

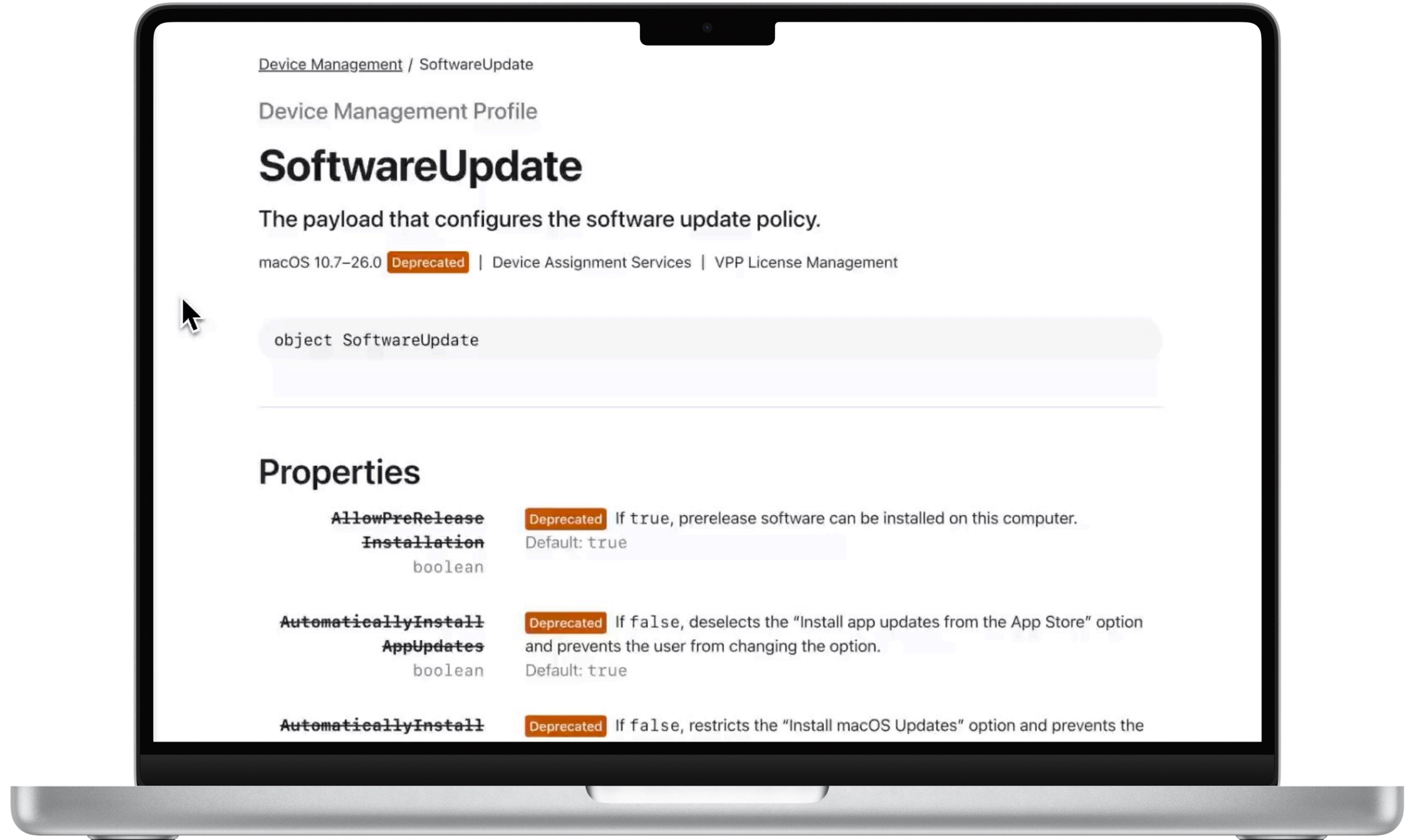
Get the status of operating-system updates on a device.

iOS 9.0–26.0 **Deprecated** | iPadOS 9.0–26.0 **Deprecated** | Mac Catalyst 9.0–26.0 **Deprecated** | macOS 10.11.5–26.0 **Deprecated** |
tvOS 12.0–26.0 **Deprecated** | Device Assignment Services | VPP License Management

Deprecated

Use Declarative Device Management's software update features instead.

Deprecations





DDM has entered the chat



DDM: **Core Pillars**

Declarations

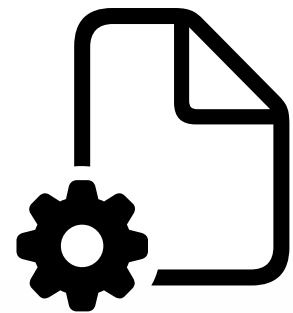
Status
Channels

DDM: Declaration Types

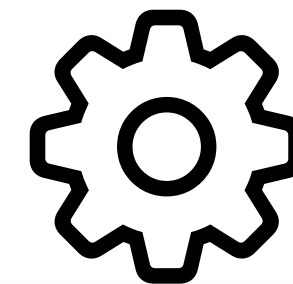
Declarations



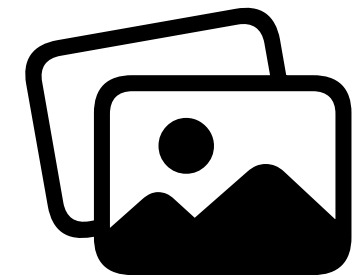
Management



Activations

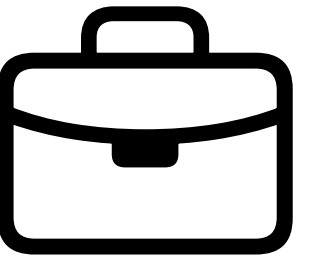


Configuration



Assets

Declarations: **Management**



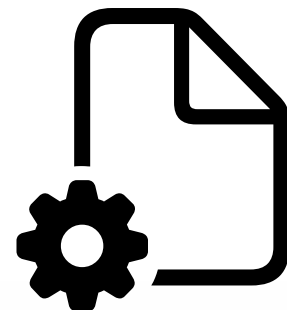
```
{
  "Type": "com.apple.management.properties",
  "Identifier": "com.example.management",
  "Payload": {
    "AccessRights": 8191,
    "CheckInURL": "https://your-jamf-instance.jamfcloud.com/checkin",
    "ServerCapabilities": ["com.apple.mdm.per-channel-capabilities"]
  }
}
```

DDM: **Declaration Types**

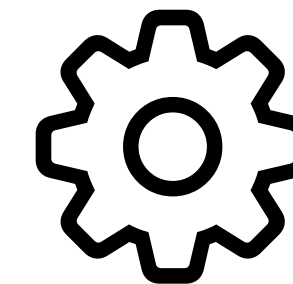
Declarations



Management



Activations

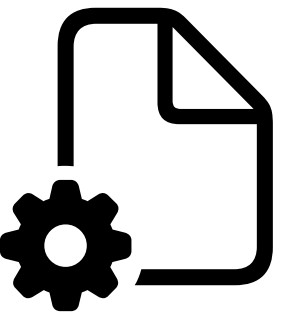


Configuration



Assets

Declarations: **Activations**



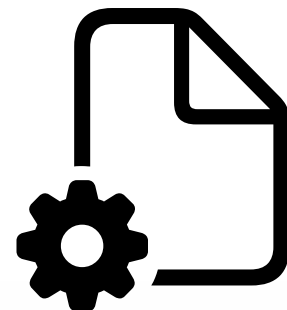
```
{
  "Type": "com.apple.activation.simple",
  "Identifier": "com.example.activation.softwareupdate",
  "Payload": {
    "StandardConfigurations": [
      "com.example.softwareupdate.enforcement"
    ],
    "Predicate": "device.model.family == 'Mac'"
  }
}
```

DDM: **Declaration Types**

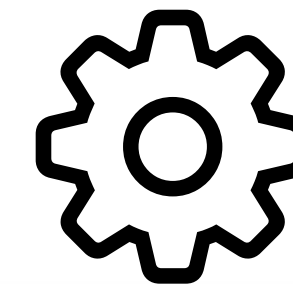
Declarations



Management



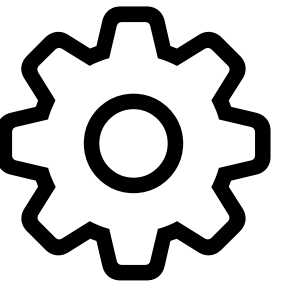
Activations



Configuration



Assets

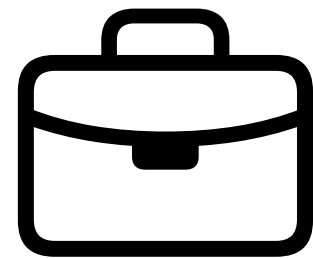


Declarations: **Configuration**

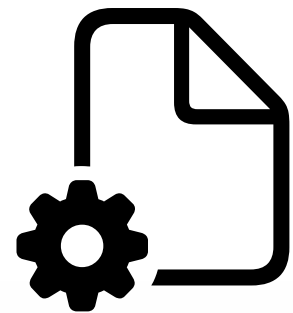
```
{  
  "Type": "com.apple.configuration.softwareupdate.enforcement.specific",  
  "Identifier": "com.example.softwareupdate.enforcement",  
  "Payload": {  
    "TargetOSVersion": "26.4.1",  
    "TargetLocalDateTime": "2026-05-01T18:00:00",  
    "DetailsURL": "https://example.com/update-info"  
  }  
}
```

DDM: **Declaration Types**

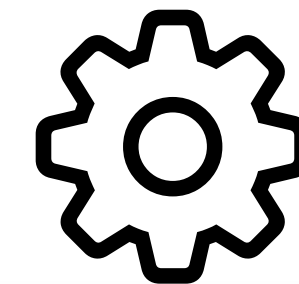
Declarations



Management



Activations

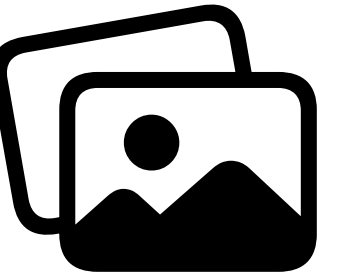


Configuration



Assets

Declarations: **Asset**



```
{
  "Type": "com.apple.asset.useridentity",
  "Identifier": "com.example.asset.useridentity",
  "Payload": {
    "FullName": "Jane Smith",
    "EmailAddress": "jane.smith@example.com"
  }
}
```

DDM: **Core Pillars**

Declarations

Status
Channels

Status Channels

`device`

`device.operating-system.version`

`softwareupdate`

`device.operating-system.build-version`

`management`

`device.operating-system.supplemental.build-version`

`diskmanagement`

`device.operating-system.supplemental.extra-version`

`passcode`

Status Channels

device

softwareupdate

management

diskmanagement

passcode

softwareupdate.install-state

softwareupdate.pending-version

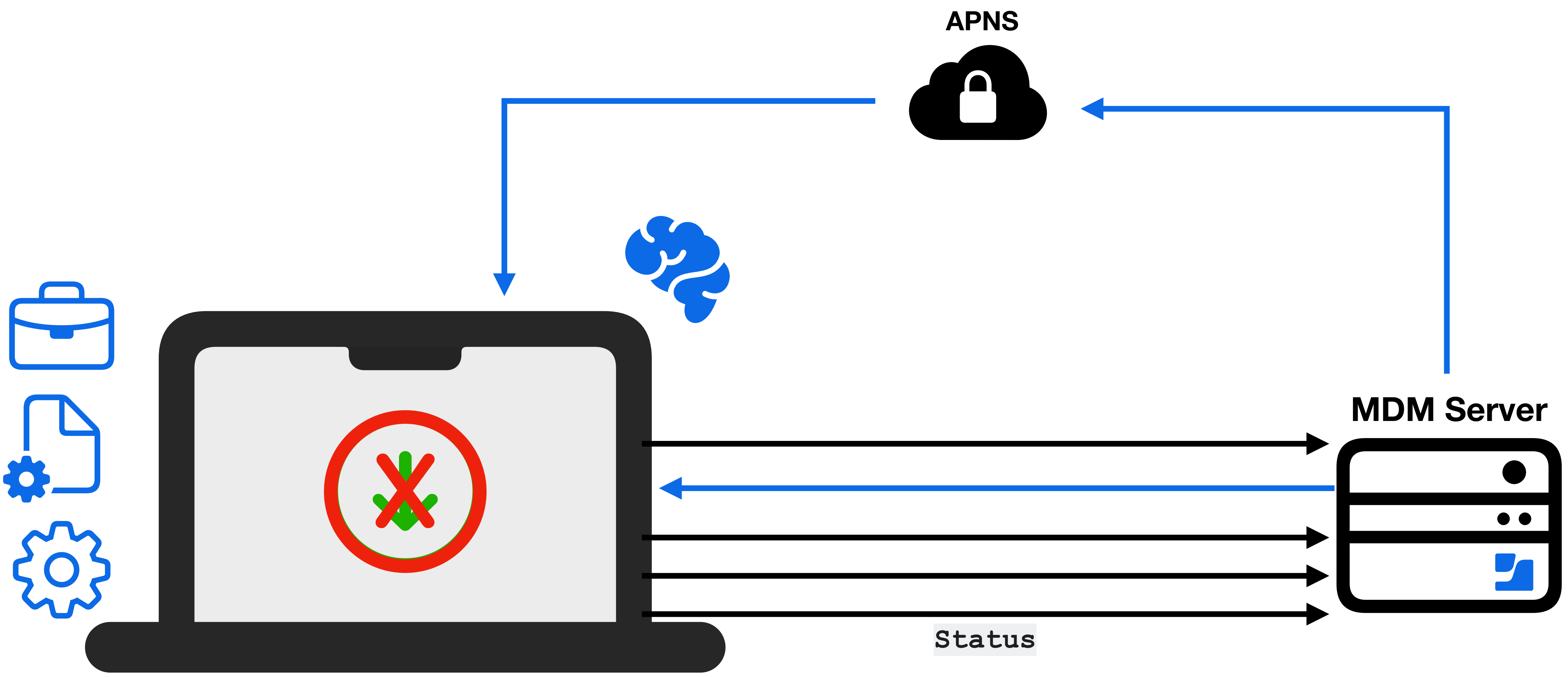
softwareupdate.install-reason

softwareupdate.failure-reason

System

User

Declarative Device Management



DDM and BSI



DDM and BSI

About the security content of Background Security Improvements for iOS 26.3.1, iPadOS 26.3.1, macOS 26.3.1, and macOS 26.3.2

This document describes the content of Background Security Improvements.

About Background Security Improvements

Background Security Improvements deliver important security improvements between software updates and are available only for the latest versions of iOS, iPadOS, and macOS. Learn more about [Background Security Improvements](#). Releases for which we publish security advisories are also included on the [Apple security releases](#) page.

iOS 26.3.1 (a), iPadOS 26.3.1 (a), macOS 26.3.1 (a), macOS 26.3.2 (a)

Released March 17, 2026

DDM and BSI



Custom Declarations

Multiple BSIs exist for the
same OS version

Custom Declarations

Testing a specific build
before broader rollout

Custom Declarations

Post-incident response

Custom Declarations

Untitled blueprint — Settings Extender Active

No components configured

Blueprints / **Software Update**

Software Update
Describe what this blueprint is used for.

Status
Incomplete
Define scope

Scope
Not co
Select gr

Components library All

Q soft ⌘K

- Software Updates**
com.apple.configuration... Configuration
- Software Update Settings**
com.apple.configuration... Configuration

Software Updates com.apple.configuration.softwareupdate.enforcement.specific
Enforce software updates for your devices

iOS 17.0+ iPadOS 17.0+ macOS 14.0+ tvOS 18.4+ visionOS 26.0+

Q Search ⌘K

Enforcement type

Latest OS version Specific OS version and time

Date and time of the update
TargetLocalDateTime
Select a date and time to enforce the software update.

📅 yyyy-mm-dd, hh:mm

Target OS version
TargetOSVersion
Choose the version the device must update to.

18.0

Details URL
DetailsURL
 Enter a webpage URL that provides details about this update.

https://example.com

Delete Cancel Save

Custom Declarations

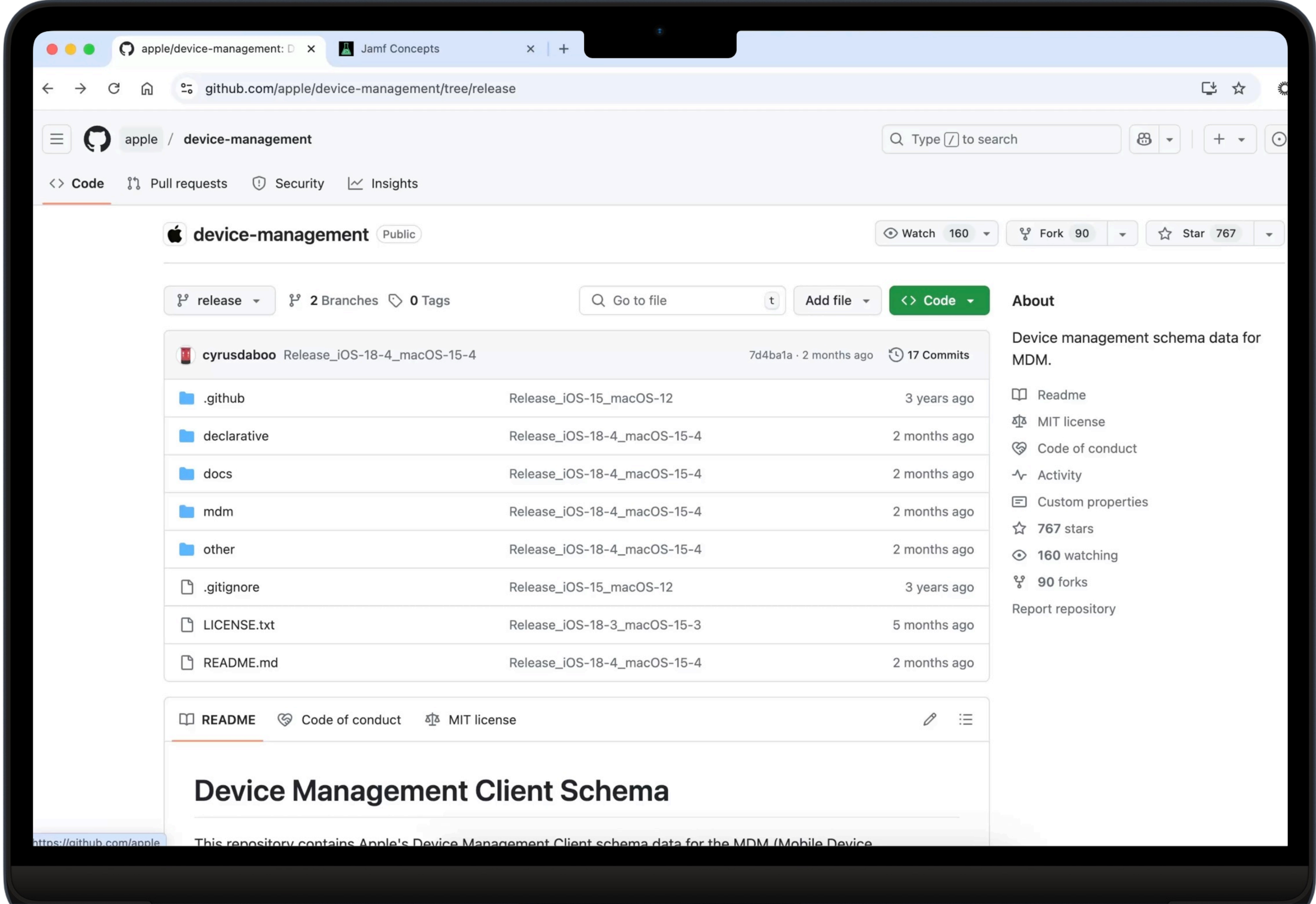
The screenshot displays the Jamf Pro interface. On the left is a navigation sidebar with options: Dashboard, Computers, Devices, Users, Blueprints, Compliance, Settings, and Extender. The main content area shows a blueprint titled "Custom SWU 26.3.1(a)" with a status of "Incomplete". Below this is a "Components library" with a search bar and a list of components. The "Accessibility" component is highlighted with a red rectangle. The "Custom Declarations" modal window is open on the right, showing a "Custom Configuration" card with the following details:

- Kind: Configuration
- Channel: System
- Type: com.apple.configuration.softwareupdate.enforcement.specific
- Payload:

```
{
  "id": "",
  "type": "com.apple.configuration.softwareupdate.enforcement.specific",
  "payload": {
    "TargetOSVersion": "26.3.1",
    "TargetBuildVersion": "25D771280a",
    "TargetLocalDateTime": "2026-05-1T18:00:00"
  }
}
```

At the bottom of the modal, there are buttons for "Delete", "Cancel", and "Save".

DDM Explorer



Custom Declarations

Coming Soon

The screenshot displays the Jamf Pro interface for configuring a blueprint. The main window shows the 'Blueprints / Custom SWU 26.3.1(a)' configuration page. The status is 'Incomplete' with the instruction 'Define scope'. A 'Components library' is visible with a search bar and a list of components including Accessibility, Accounts, AirPrint, App Lock, App Store, Audio accessory settings, and Autonomous Single App Mode. An 'Activation' dialog box is open, showing the declaration: `@status(device.operating-system.family) == 'macOS'`. The dialog has 'Cancel' and 'Save' buttons at the bottom right.

Custom Declarations

Coming Soon

Full Jamf Pro

Extender Active

Blueprints / Custom SWU 26.3.1(a)

Custom SWU 26.3.1(a)

Describe what this blueprint is used for.

Deploy

Status	Scope	Recent activity	
Incomplete Define scope	Not configured Select groups to begin configuring this blueprint	Just now Last updated	Never Last deployed

Components library: All

Search

- Accessibility**
com.apple.universalaccess
Legacy payload
- Accounts**
com.apple.MCX.Accounts
Legacy payload
- AirPrint**
com.apple.airprint
Legacy payload
- App Lock**
com.apple.app.lock
Legacy payload
- App Store**
com.apple.appstore
Legacy payload
- Audio accessory settings**
com.apple.configuration.audio-...
Configuration
- Autonomous Single App Mode**
com.apple.asam
Legacy payload

Components in this blueprint

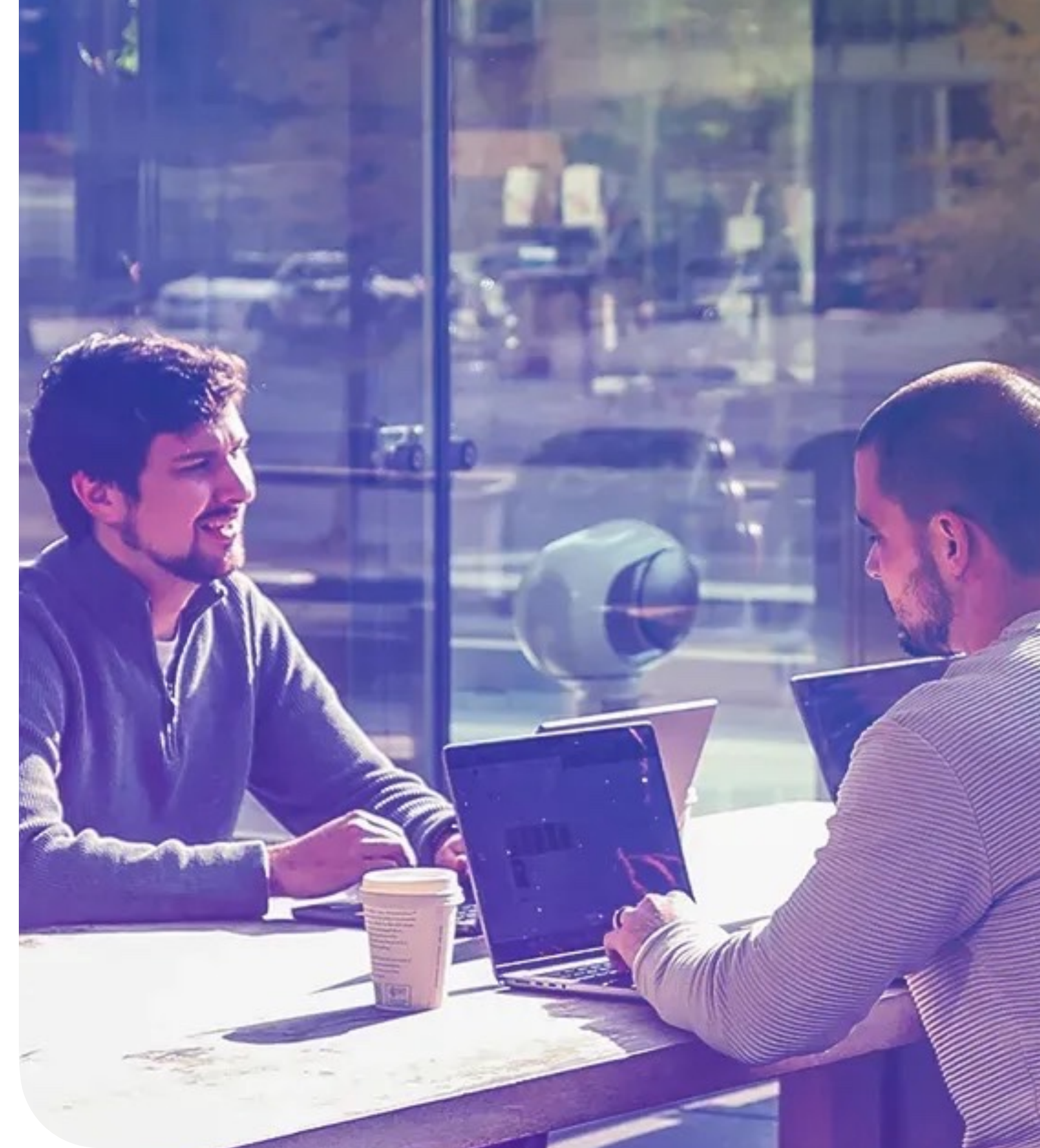
Activation: @status(device.operating-system.family) == 'macOS'

- Custom Declarations**
Configuration

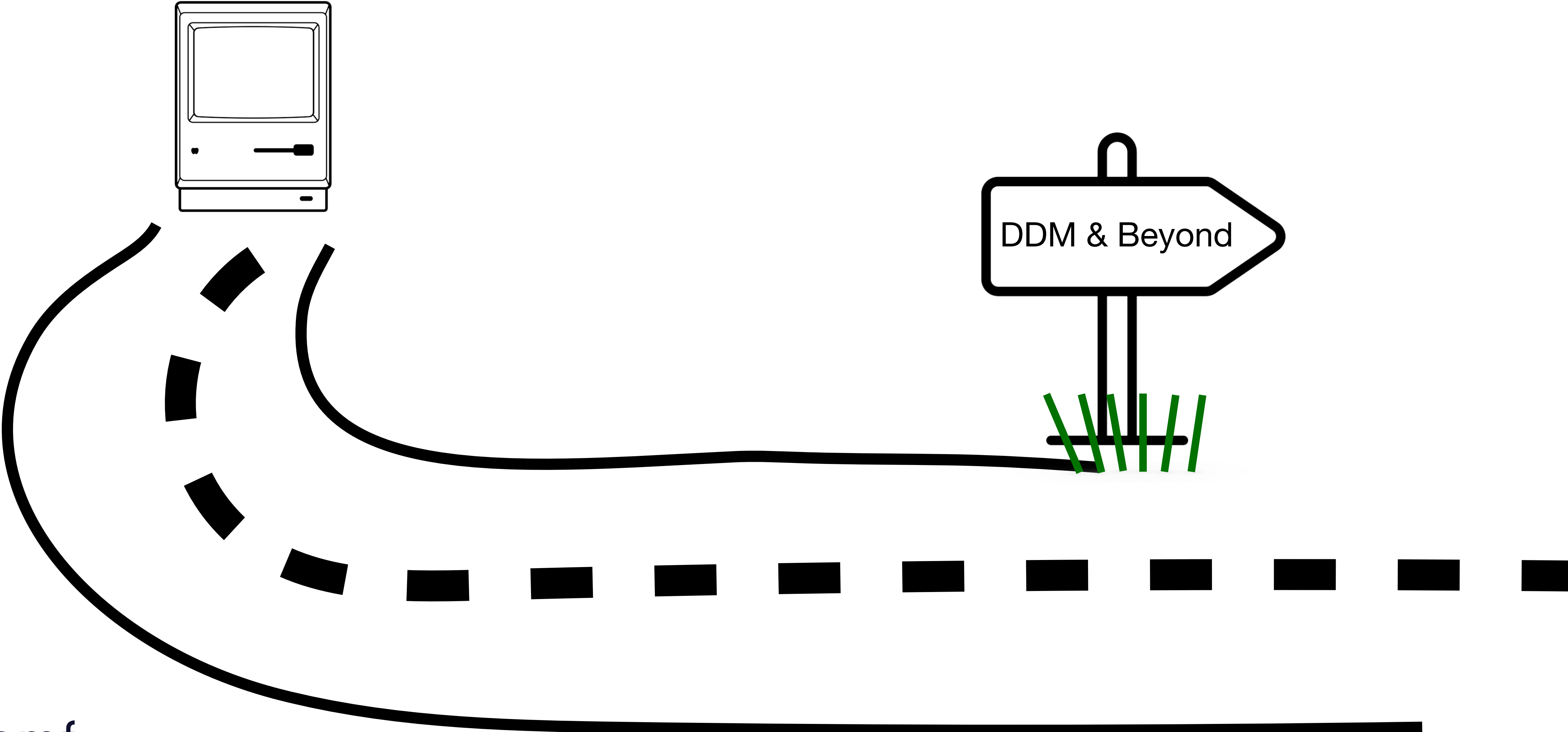
Resource center



Takeaways



Key Takeaways



Key Takeaways

Real Time
Visibility

Failure
Detection

Automated
Software
Update

The Future is
Now



REDUCING THE FRICTION

Introducing Upgrade Manager

Available in Private Beta

Upgrade Manager is a Universal app built to streamline Software Update management for Jamf Pro environments.

- Identify **out-of-date** devices
- Schedule device upgrades at scale
- Monitor progress **in real-time**
- Take action when things fail

Right from the device you use everyday!





UPGRADE MANAGER

Beta Program

- Join the TestFlight Private Beta
 - jamf.it/UpgradeManager





Thank You