

UEX 3.7

EXPANDING CAPABILITIES OF
SW DEPLOYMENT WITH JAMF

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AGENDA

1. OBJECTIVES OF UEX
2. MAIN FEATURES
3. PARAMETER DEFINITIONS
4. HOW UEX WILL POLICIES WORK
5. PRESENTATION DELAY
6. IDLE DELAY
7. BLOCKING 3.0
8. ISSUE TRACKER



NATION

User Conference

OCTOBER 24-26

2017

OBJECTIVES OF UEX

- RUN AS SILENT AS POSSIBLE
- STANDARDIZE THE LOOK OF INTERACTIONS
- SIMPLIFY PACKAGING AND SCRIPTING
- COMMUNICATE CLEARLY WITH THE USER
- PERFORM SUCCESSFUL INSTALLATIONS

TOOLS USED

JAMFHELPER



JAMF PRO

COCOA DIALOG



[HTTPS://COCOADIALOG.COM/V2/#](https://cocoadialog.com/v2/#)

PLEASE WAIT



[HTTPS://GITHUB.COM/MACBRAINED/USER-INTERFACES](https://github.com/macbrained/user-interfaces)

MAIN FEATURES

- **UEX RUNS FROM THE JSS**
- **APPLICATION DETECTION FOR BLOCK**
- **SUPPORT FOR UNINSTALL POLICIES**
- **DYNAMIC DIALOGS WITH BULLET POINTS**
- **IDLE DETECTION**
- **PRESENTATION DETECTION**
- **LOGGING SUPPORT FOR LOCAL AND JSS POLICY LOGS**
- **SELF SERVICE SUPPORT**

OPTIONS FOR UEX

- **QUIT** – Quits applications before running the changes
- **BLOCK** – Quits and runs agent to keep applications from running during changes
- **RESTART** – Starts an agent after changes to prompt a restart after 1 hr
- **LOGOUT** – Starts an agent after changes to prompt a user logout after 1 hr
- **POWER** – Verifies that AC power is connected before changes occur
- **CRITICAL** – flag for mission critical changes that user's cant postpone
- **SAVEALLWORK** – Notifies the user to save all work and quit all apps
- **MACOSUPGRADE** – Notifies that restart will begin automatically
- **NOTIFY** – Show dialog as just a a notice useful for misc communication
- **CUSTOM** – Override the default dialog to only show parameter 11
- **TRIGGER** – Can be used to run additional triggers in parameter 10
- **SSAVAIL** – flag for changes that that can also be run via Self Service.app
- **DEBUG** – Used to see increase logging
- **INSTALL, UPDATE, UNINSTALL** – Used to communicate the action to the user
- **SUSPACKAGE** – Checks for Apple software updates and present the right UEX

Software Deployment User Interaction Toolkit - macOS (UEX)

Manual for Creation of Policies in jamf

Author David Ramirez

Version 3.0

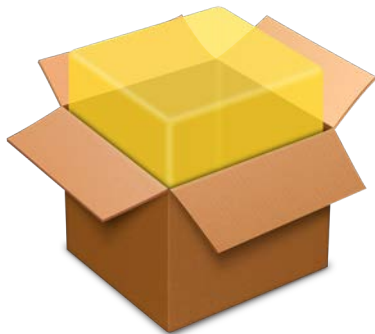
Updated February 28, 2017

WIP

HOW UEX POLICIES WILL WORK

LINKED POLICIES

PACKAGE CACHING



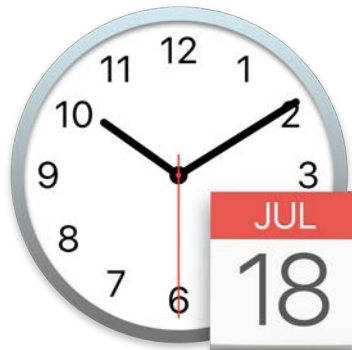
Custom event name:
applicationName_cache
Scope All: Computers
Frequency: Ongoing
Notes: Contains Packages to Cache

MAIN UEX RECIPE



Custom event name:
applicationName
Scope All: Computers
Frequency: Ongoing
Notes: Contains UEX Instructions

DEPLOYMENT



Execute command:
jamf policy -trigger applicationName
Scope: Configured as needed
Frequency: Configured as needed

SELF SERVICE INSTALL



Execute command:
jamf policy -trigger applicationName
Scope: All computers if free
Static Group if licensed
Exclude: Computers With
Application
Frequency: Ongoing

HOW UEX POLICIES WILL WORK

ONE UEX RECIPE

With the conversion to running UEX from the jamf server there are several benefits.

- **ALL UEX POLICIES USE THE SAME SCRIPTS**
- **THE BEHAVIOR IS DICTATED BY THE PARAMETERS GIVEN**
- **SELF SERVICE AND DEPLOYMENT REFER BACK TO THE SAME UEX TRIGGER/RECIPE**
- **THE POLICIES CAN INSTALL MULTIPLE PACKAGES**
- **AS NEW FEATURES RELEASE ALL UEX POLICES WILL HAVE THEM AUTOMATICALLY**

Computers > Policies >
GoogleChrome - UEX Trigger

Options Scope Self Service User Interaction

Scripts
1 Script

Printers
0 Printers

Disk Encryption
Not Configured

Dock Items
0 Dock Items

Local Accounts
0 Accounts

Management Accounts
Not Configured

Directory Bindings
0 Bindings

EFI Password
Not Configured

Restart Options
Configured

Maintenance
Not Configured

Files and Processes
Not Configured

Microsoft Intune Integration
Not Configured

00-UEX-Jamf-Interaction.sh

PRIORITY Priority to use for running the script in relation to other actions

After

Parameter Values Values for script parameters. Parameters 1-3 are

VENDOR;APPNAME;VERSION;SPACEREQ

Google;Chrome;66.0.3359.117

CHECKS

quit ssavil

APPS FOR QUICK AND BLOCK

Google Chrome.app

INSTALLDURATION - MUST BE INTEGER

15

MAXIMUM DEFERRAL - MUST BE INTEGER

3

PACKAGES SEPARATED BY SEMI-COLON

GoogleChrome-66.0.3359.117.pkg

TRIGGER NAMES SEPARATED BY SEMI-COLON

GoogleChrome

CUSTOM MESSAGE - OPTIONAL

PARAMETER DEFINITIONS

4. Vendor;AppName;Version;SpaceReq
5. Checks
6. Apps for Quick and Block
7. InstallDuration - Must be integer
8. maximum deferral - Must be integer
9. Packages separated by semi-colon
10. Trigger Names separated by semi-colon
11. Custom Message - optional

00-UEX-Jamf-Interaction.sh

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TRIGGER NAMES SEPARATED BY SEMI-COLON

GoogleChrome

CUSTOM MESSAGE - OPTIONAL

HOW UEX POLICIES WILL WORK

THE AGENTS TO RUN ALL ACTIONS

- **PLEASEWAITUPDATER**

- Starts the progress bar indicator for long installs and display the requirements of the UEX Policy.

- **UEXDEFERRALSERVICE**

- This checks the system for existing UEX policies that have been deferred by the user and runs them when enough time has passed

- **UEXBLOCKAGENT**

- This agent blocks application from if required by the UEX policy.

- **UEXLOGOUTAGENT**

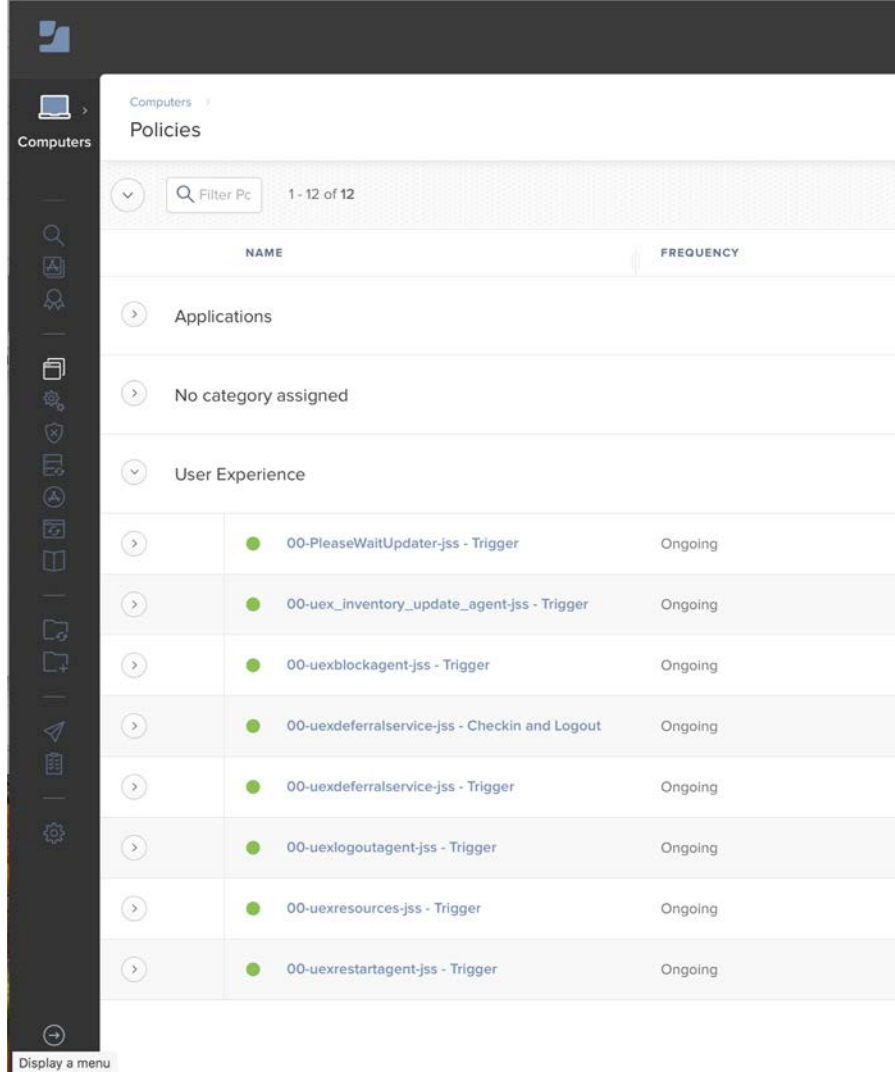
- This agent prompts then logs the user out of their account after all policies have completed.

- **UEXRESTARTAGENT**

- This agent prompts then restarts the computer after all policies have completed

- **UEX_INVENTORY_UPDATE_AGENT**

- Used to update the inventory when the deferral status changes or when the install has ben run.



PRESENTATION DELAY

- **DO NOT BOTHER THE USER IF THERE IS A SCHEDULED DEPLOYMENT AND THE USER IS RUNNING ANY OF THE APPS BELOW**
 - PowerPoint
 - Keynote
 - Vidyo Desktop
 - Webex Meeting Center
 - People + Content IP
- **DELAY THE PROMPT FOR 1 HOUR FOR UP TO 3 TIMES INCASE THEY ARE IN A LONG MEETING**
- **IF THEY'RE STILL IN MEETINGS THEN FORCE THE DIALOG TO SHOW.**



IDLE DETECTION

- **BRING UP THE DECISION WINDOW FOR UEX FOR 15 MINS**
- **IF THERE IS NO RESPONSE THE USER MIGHT BE AWAY FROM THEIR DESK OR NOT EVEN WITH THEIR COMPUTER**
- **AFTER 15 MINS HAVE THE WINDOW DISAPPEAR AND COME BACK AGAIN IN 2 HOURS.**
- **REPEAT THIS UP TO 3 TIMES**
- **AFTER 3 TIME IF THEY STILL HAVEN'T ACKNOWLEDGED THE UEX THEN TAKE AWAY A POSTPONE**



BLOCKING 3.0

- **CHECK TO SEE IF THE THE APPLICATIONS ARE EVEN THERE**
- **IF THE APPLICATIONS ARE NOT THERE THE BLOCKING IS NOT REQUIRED**
- **CURRENTLY CHECKING FOR APPLICATION IN THE FOLLOWING FOLDERS UP TO 3 LEVELS DEEP**
 - /Applications/
/Library/Internet Plugins/
/Library/Applications Support/
~/Applications/
~/Library/Applications Support/
/Users/Shared





DEMO

API CONFIGURATION TOOL

SETUP YOUR JAMF PRO SERVER IN A JIFFY

1. CUSTOMIZE UEX RESOURCES PACKAGE WITH YOUR BRANDING
2. CUSTOMIZE WORDING IN SCRIPTS
3. UPLOAD PKG WITH “JAMF ADMIN.APP”
4. UPLOAD SCRIPTS WITH “JAMF ADMIN.APP”
5. UPLOAD EXTENSION ATTRIBUTE XML TO YOU JAMF PRO SERVER
6. RUN THE API CONFIGURATION TOOL
7. MAKE SOME MAGIC!





DEMO

LIMITATIONS/KNOWN ISSUES

- **PARAMETERS CAN ONLY BE A MAXIMUM OF 256 CHARACTERS**
- **RESTART AND LOGOUTS CAN BE CANCELED IF THE USER HASN'T SAVED THEIR DOCUMENTS**

PLANNED NEW FEATURES

- **SPACE REQUIREMENT**
- **NEW CHECKS**
 - LOGINWINDOW, LOCK
- **BETTER RESTART INTERACTIONS**
- **RELAUNCH APPS AFTER INSTALL COMPLETES**
- **SUPPORT FOR DEPNOTIFY**
- **SMARTER DIALOGS FOR UPDATES**

- **HAVE AN IDEA? SHARE IT!!**



ISSUE TRACKER

- **FOR SUBMITTING ISSUES RELATED TO THE TOOL PLEASE SUBMIT ANY FEED BACK TO THE ISSUES TRACKER ON GITHUB**

THANK YOU!

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