

adidas

# UEX 3.7

EXPANDING CAPABILITIES OF  
SW DEPLOYMENT WITH JAMF

# 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



OCTOBER 24-26

<https://www.youtube.com/watch?v=OFzDIL-temw&feature=youtu.be&t=22m45s>

# NATION

User Conference

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

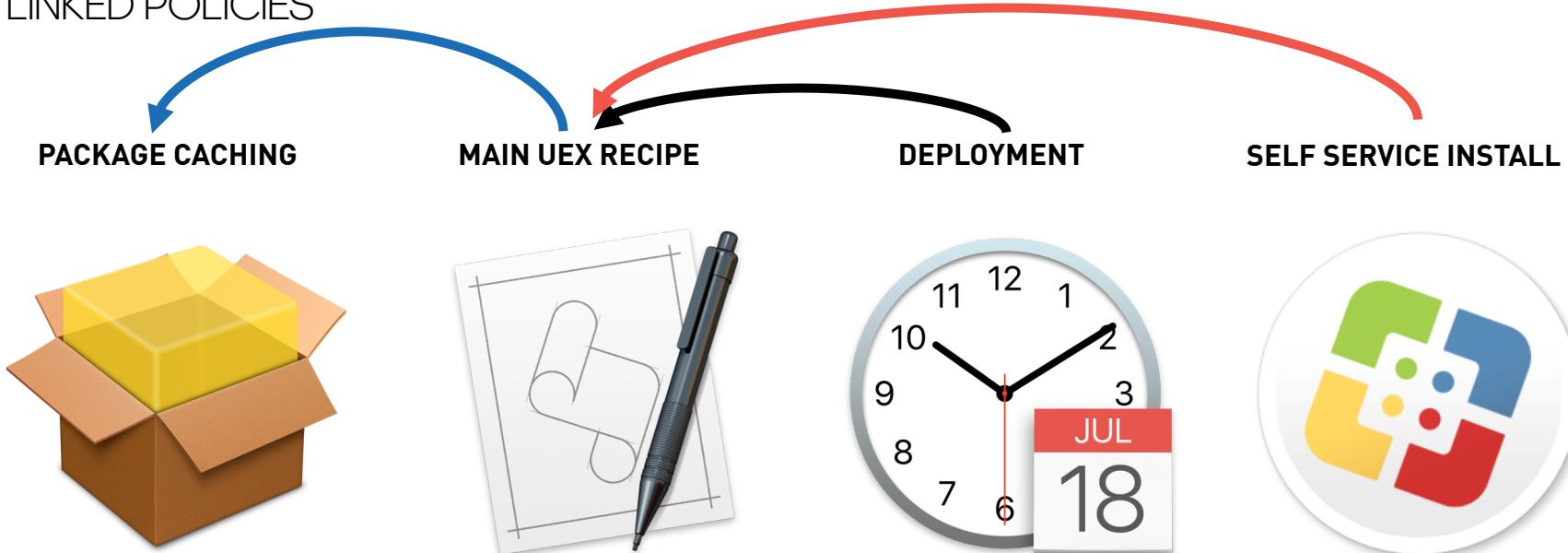
WIP

adidas Group - Global IT  
February 28, 2017

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# HOW UEX POLICIES WILL WORK

## LINKED POLICIES



**Custom event name:** applicationName\_cache  
**Scope All:** Computers  
**Frequency:** Ongoing  
**Notes:** Contains Packages to Cache

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

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

**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 POLICIES WILL HAVE THEM AUTOMATICALLY

Computers > Policies >  
GoogleChrome - UEX Trigger

Options	Scope	Self Service	User Interaction
Scripts 1 Script	>	00-UEX-Jamf-Interaction.sh	
Printers 0 Printers		PRIORITY Priority to use for running the script in relation to other actions	
Disk Encryption Not Configured		After	
Dock Items 0 Dock Items		Parameter Values Values for script parameters. Parameters 1–3 are	
Local Accounts 0 Accounts		VENDOR;APPNAME;VERSION;SPACEREQ	
Management Accounts Not Configured		Google;Chrome;66.0.3359.117	
Directory Bindings 0 Bindings		CHECKS	
EFI Password Not Configured		quit ssavail	
Restart Options Configured		APPS FOR QUICK AND BLOCK	
Maintenance Not Configured		Google Chrome.app	
Files and Processes Not Configured		INSTALLDURATION - MUST BE INTEGER	
Microsoft Intune Integration Not Configured		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

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 ssavail

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

# 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**

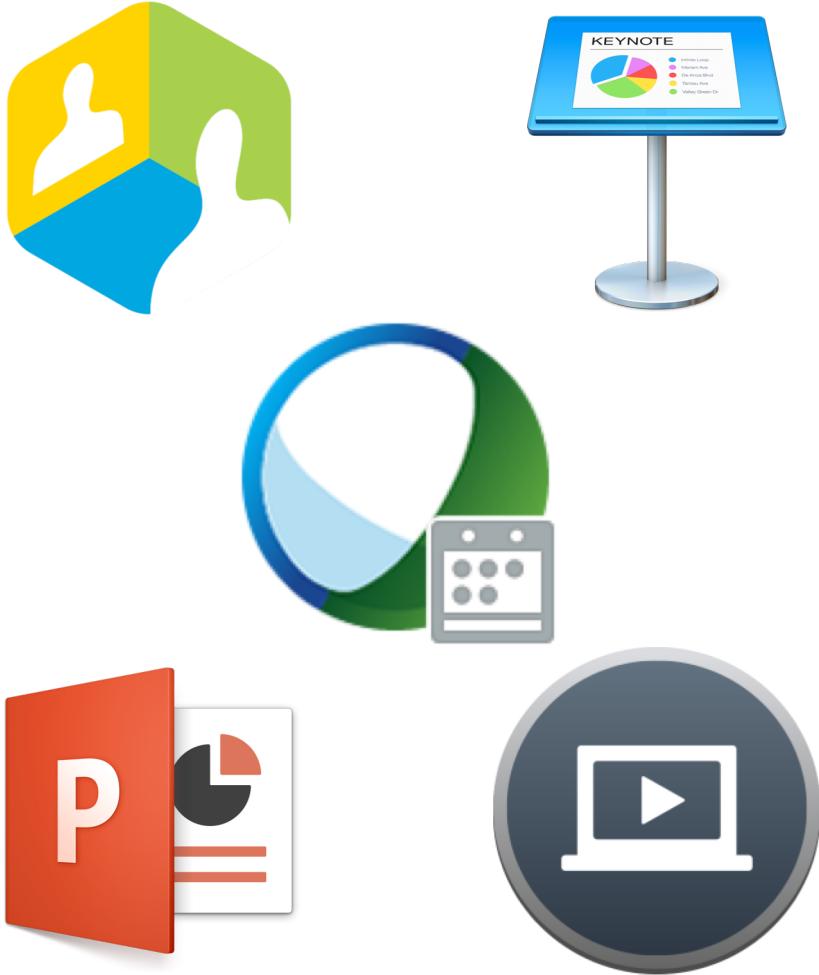
- Used to update the inventory when the deferral status changes or when the install has ben run.

The screenshot shows a software interface with a dark theme. On the left is a vertical sidebar with icons for navigation. The main area has a header 'Computers > Policies' with a search bar 'Filter Pc' and a page indicator '1 - 12 of 12'. A table lists policies under two categories: 'Applications' and 'User Experience'. Each policy entry includes a green circular icon, the policy name, and the status 'Ongoing'. The 'User Experience' category contains seven entries, while 'Applications' contains one.

NAME	FREQUENCY
No category assigned	
User Experience	
00-PleaseWaitUpdater-jss - Trigger	Ongoing
00-uex_inventory_update_agent-jss - Trigger	Ongoing
00-uexblockagent-jss - Trigger	Ongoing
00-uederralservice-jss - Checkin and Logout	Ongoing
00-uederralservice-jss - Trigger	Ongoing
00-uexlogoutagent-jss - Trigger	Ongoing
00-uexresources-jss - Trigger	Ongoing
00-uexrestartagent-jss - Trigger	Ongoing

# 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 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



A wide-angle photograph of a mountainous landscape during autumn. The foreground features a calm lake reflecting the surrounding colors. A dense belt of trees in vibrant orange and yellow autumn hues stretches across the middle ground. Above them, the mountain slopes transition through various shades of brown and green, eventually reaching a peak covered in patches of white snow. The sky is a clear, pale blue.

**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 YOUR JAMF  
PRO SERVER
6. RUN THE API CONFIGURATION TOOL
7. MAKE SOME MAGIC!



A wide-angle photograph of a mountainous landscape during autumn. The foreground features a calm lake reflecting the surrounding colors. A dense belt of trees in vibrant orange, yellow, and red hues stretches across the middle ground. Above this, the mountain slopes transition through various shades of brown and green, eventually reaching a peak covered in patches of white snow. The sky is a clear, pale blue.

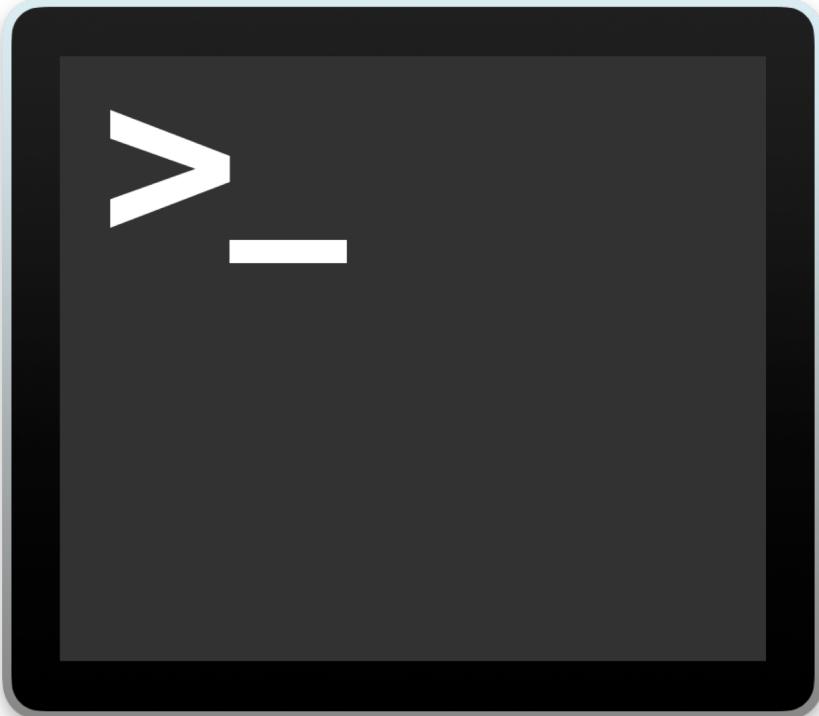
**DEMO**

## 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!

# adidas