chromelook

By Bill Sanders

Chromelook is a graphical user interface to compliment Advanced GAM for managing enterprise enrolled Chromebooks.

As of August 7, 2019, Advanced GAM is now highly recommended for use when gathering CROS data for Chromelook.

This document is written from a Windows perspective. OSX and Linux users should be prepared to interpret meaning! This is a beta version. If you get an expiration popup, download a new copy.

GAM is a command line tool for managing Google Apps. Chromelook was written for those who wish to use GAM to manage their Chromebook fleet, but prefer a GUI. Chromelook leverages SQLite to make GAM management tasks fast and simple. This guide assumes that you have installed GAM already.

Chromelook is not a standalone application. It does not interact with Google. It requires an already downloaded copy of your data using GAM. Changes you make to your data in Chromelook are not sent to Google. Instead, a GAM script is created and presented to you. You can then paste the script in a command prompt to upload the changes using GAM.

Chromelook has no installer and makes no significant changes to your system. It can be run from anywhere, including a network share. Extract it to any folder. On launch, it will create a settings folder in %appdata% and copy queries and setting to the settings folder. No registry changes, program associations or shortcuts are created.

Chromelook has SQLite version 3.25.3 built in. Nothing is required to use this.

Chromelook is not affiliated with Google or GAM. For information on Advanced GAM, please visit their site.

GAMADV-XTD3

https://github.com/taers232c/GAMADV-XTD3

How to Upgrade from Standard GAM

https://github.com/taers232c/GAMADV-XTD3/wiki/How-to-Upgrade-from-Standard-GAM

Note that while Chromelook CROS input data now requires using Advanced GAM, Chromelook output can use either GAM. Chromelook can still use CSV as input, but escaped lines are ignored.

OBTAINING DATA FILE

To use Chromelook, you will need to download your Chrome data from Google using Advanced GAM. We now recommend a Tab Separated Value type file. From a command prompt, type

gam config csv_output_column_delimiter "\t" print cros fields

active time ranges, annotated asset id, annotated location, annotated user, boot mode, device id, ethernet macaddress, firmware version, lastenroll ment time, last sync, macaddress, model, notes, order number, orgunit path, osversion, platform version, recent users, serial number, status > cros.txt

OSX or Linux users use

gam config csv_output_column_delimiter '\t' print cros fields activetimeranges,annotatedassetid,annotatedlocation,annotateduser,bootmode,deviceid,ethernetmacaddress,firmwareversion,lastenrollment time,lastsync,macaddress,model,notes,ordernumber,orgunitpath,osversion,platformversion,recentusers,serialnumber,status

CROS.txt will be downloaded to the current folder.

It is okay to specify allfields instead of listing them. It will produce a file 4 X larger than you need though. It is also possible to leave out some fields for smaller file sizes.

To use Chromelook daily, we recommend using a scheduled task to download a fresh cros.txt file daily or hourly. Use Windows Scheduled Task Manager to execute a batch file containing the line:

A sample cros.txt is provided to allow you to try out Chromelook without having your own data. The sample has 30,000 devices. The data is fictional. Serial number, MACs, DeviceIDs were all artificially generated, with usage based on actual data. GAM does not need to be installed to try out the sample data.

NOTES about TAB SEPARATED FILES (TSV). Google recently began using commas throughout their data. Parsing CSV became too slow. We therefore made the switch to TSV files. Advanced GAM is required to generate TSV files. Either GAM can be used for uploading your changes.

THE ADVANCED GAM COMMAND

From the Chromelook Edit Menu, choose Get CROS. This will generate the required command line, and allow you to copy it. Just click 'Copy'.

GAM CROS Command	_		×
Chromelook now works best with a Tab Separated Value file. Use AdvancedGAM commands below for best results.	(GAMADV->	(TD3) wit	h the
gam config csv_output_column_delimiter "\t" print cros fields activetimeranges,annotatedassetid,annotatedlocation,annotateduser,bootmode, ess,firmwareversion,lastenrollmenttime,lastsync,macaddress,model,notes,orderr ion,platformversion,recentusers,serialnumber,status > cros.txt	,deviceid,eth 1umber,orgu	ernetmac nitpath, o	caddr isvers
Сору			

SPLASH SCREEN

To begin, launch Chromelook. Click on the folder icon and locate your cros.txt file.



Chromelook will load the data to its built in SQLite database. For a large database (30,000 devices), this process will take from 10 to 20 seconds depending on your workstation RAM and Processor.

From the Edit Menu, clicking 'Skipped Log' will give you a list of any entries that could not be parsed. This may include malformed entries. Check this if you think Chromelook isn't seeing all of your devices

ROOT VIEW TAB

Once cros is loaded, you are shown the Root View tab.

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File Edit Help										
Root View Org View Device View Search SOL Query Bulk Edit Bulk Import	Device Replace Org M	love GAM Scrit	nt (0)							
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/Chrome Devices/Assigned/Staff	Starr	1345	2	0	71 2010-11-29	2018-12-23	0			
/Chrome Devices/Assigned/Students	Students	1035		02	71 2018-03-12	2018-12-21	0 -	-	-	
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/Chrome Devices/Cart Config/HS/Adams HS/Cart0105	Cart0105	40	0	64	70 2018-07-17	2010-12-19	0 True	True	True	
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/Chrome Devices/Cart Config/HS/Blake Alternative HS/Cart0023	Cart0023	27	ő	00	70 2010-12-10	2018-12-20	0 True	True	True	
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/Chrome Devices/Cart Config/HS/Blake Alternative HS/Cart0144	Cart0145	20	0	69	70 2018-11-50	2018-12-21	0 True	True	True	
/Chrome Devices/Cart Config/HS/Blake Alternative HS/Cart0143	Cart0277	27	ŏ	64	70 2018-11-30	2018-12-20	0 True	True	True	
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/Chrome Devices/Cart Config/HS/Blake Alternative HS/Cart0285	Cart0285	27	ő	64	70 2018-01-09	2018-12-23	0 True	True	True	
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0 selected of 29005 total							recen	tUse Days	15	
Load Time: 8.3 seconds					C	hr	ome	ele	00	k

In the Root view tab, you will see all of the organizational units that contain Chrome devices. The columns are as follows:

orgUnitPath is the organizational path the device is in.

org is the organizational unit for the devices.

devices is the number of devices in that org.

recentUse is sum of minutes of use for all device in that org. This is not a precise value.

osVersion [] is the lowest (floor) value os found in the org.

osVersion [] is the highest (ceiling) value os found in the org.

lastSync b is the oldest last sync in the org.

lastSync [] is the newest last sync in the org.

macErr is the number of devices not reporting a MAC addres.

assetErr indicates if any devices in the org do not have an annotated assetId

userErr indicates if any devices in the org do not have an annotated user.

locErr indicates if any devices in the org do not have an annotated location.

From the Edit menu, Org Path Filters can be set to exclude certain orgs, or only include certain orgs in Root View.

Additionally, from the Edit menu, Sticky / History settings can be edited.

At the bottom, recentUse Days can be set to limit how recentUse is calculated. Chrome devices store the minutes and dates of the last 15 uses, regardless of how long ago that was. This makes recentUse information unreliable beyond the last 15 days. This setting defaults to 15 days. You can change the default by clicking the gear in Org Path Filters area.

The spreadsheet icon at bottom right will produce a report of the items in the current view.

Orgs in the list can be double clicked or right clicked. Double clicking opens an org in the Org View tab. Right clicking bring up a menu of options.

• chromelook									-		×
File Edit Help											
Root View Org View Device View Search SQL Quer	y Bulk Edit Bulk Import	Device Replace Org Move	e GAM Scrip	ot (0)							
Org Path Filters											
Exclude Org /Chrome Devices Deprovisioned	~ 🕨	Include Org				· /					
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/Chrome Devices/Assigned/Special Ed		Special Ed	123	0	64	70 2018-09-18	2018-12-20	0			^
/Chrome Devices/Assigned/Staff		Staff	1345	2	0	71 2016-11-29	2018-12-23	0			
/Chrome Devices/Assigned/Students		Students	1035	1	62	71 2018-03-12	2018-12-21	0			
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/Chrome Devices/Cart Config/HS/Adams HS/Cart0287		Cart0287	40	0	64	70 2018-05-14	2018-12-18	0 True	True	True	
/Chrome Devices/Cart Config/HS/Adams HS/Cart0555		Cart0555	40	0	62	70 2018-10-17	2018-12-17	0 True	True	True	
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/Chrome Devices/Cart Config/HS/Blake Alternative HS/C	artu145	Cart0145	27	0	09	70 2018-12-18	2018-12-20	0 True	True	True	
Chrome Devices/Cart Config/HS/Blake Alternative HS/C	artu2//	Cart0204	27	0	64	70 2018-11-30	2018-12-20	0 True	True	True	
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14 selected of 29005 total								rece	entUse Days	15	
Load Time: 8.3 seconds						C	hro	ome	ele)0	k

Bulk Edit will send items in selected orgs to the Bulk Edit tab.

Export options allow you to export MAC's, Serials or a mini report to a csv or as Excel data.

Move Org's sends the org to the Org Move tab to allow for moving an entire org.

Search sends whatever info the mouse cursor is over to the Search tab.

Toggle Checkboxes turns on a checkbox field for each row, making selections easier.

ORG VIEW TAB

The Org View tab shows you the devices in a selected org.

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File Edit About											
Root View Org View	Device View Search SQL Query Bulk Edit	Bulk Import Dev	vice Replace	Org Move GA	M Script (0)						
/Chrome Devices/Assig	/Chrome Devices/Assigned/Students										
annotatedAssetId	serialNumber status	osVersion	lastSync	lastEnroll	model	macAddress	annotatedUser	annotatedLocation	recentUse org		
SD-CB-00001015	NXMJAAA0044300000001829 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f0000001829	87654321@somedistrict.edu	Take Home	1068 Student	s	^
SD-CB-00001016	NXMJAAA0044300000012798 ACTIVE	70.0.3538.110	2018-12-13	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000012798	87654322@somedistrict.edu	Take Home	1055 Student	s	
SD-CB-00001017	NXMJAAA0044300000016551 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000016551	87654323@somedistrict.edu	Take Home	1119 Student	s	
SD-CB-00001018	NXMJAAA0044300000017800 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000017800	87654324@somedistrict.edu	Take Home	1226 Student	s	
SD-CB-00001019	NXMJAAA0044300000019999 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000019999	87654325@somedistrict.edu	Take Home	1218 Student	s	
SD-CB-00001020	NXMJAAA0044300000028504 ACTIVE	70.0.3538.110	2018-12-14	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000028504	87654326@somedistrict.edu	Take Home	317 Student	s	
SD-CB-00001021	NXMJAAA0044300000029381 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f0000029381	87654327@somedistrict.edu	Take Home	1238 Student	s	
SD-CB-00001022	NXMJAAA0044300000035850 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000035850	87654328@somedistrict.edu	Take Home	1127 Student	\$	
SD-CB-00001023	NXMJAAA0044300000039468 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000039468	87654329@somedistrict.edu	Take Home	1160 Student	s	
SD-CB-00001024	NXMJAAA0044300000039811 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000039811	87654330@somedistrict.edu	Take Home	1266 Student	s	
SD-CB-00001025	NXMJAAA0044300000050449 ACTIVE	70.0.3538.110	2018-12-14	2016-08-18	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000050449	87654331@somedistrict.edu	Take Home	266 Student	\$	
SD-CB-00001026	NXMIAAA0044300000056344 ACTIVE	70.0.3538.110	2018-12-17	2018-04-25	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000056344	87654332@somedistrict.edu	Take Home	906 Student		
SD-CB-00001027	NXMJAAA0044300000060911 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000060911	87654333@somedistrict.edu	Take Home	1126 Student	s	
SD-CB-00001028	NXMIAAA0044300000066972 ACTIVE	70.0.3538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f0000066972	87654334@somedistrict.edu	Take Home	1305 Student	\$	
SD-CB-00001029	NXMIAAA0044300000070443 ACTIVE	70.0.3538.110	2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000070443	87654335@somedistrict.edu	Take Home	1055 Student		
SD-CB-00001030	NXMIAAA0044300000071970 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CR5-132T / C738T / CR3-132)	£00000071970	87654336@somedistrict.edu	Take Home	1148 Student		
SD-CB-00001031	NXMJAAA0044300000072071 ACTIVE	70.0.3538.110	2018-12-17	2016-07-27	Acer Chromebook B11 (CB5-132T / C738T / CB3-132)	f00000072071	87654337@somedistrict.edu	Take Home	900 Student	Ś	
SD-CB-00001032	NXMIAAA0044300000072191 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000072191	87654338@somedistrict.edu	Take Home	1297 Student	c c	
SD-CB-00001033	NXMIAAA0044300000074397 ACTIVE	70.0.3538.110	2018-12-17	2016-07-23	Acer Chromebook R11 (CR5-132T / C738T / CR3-132)	£00000074397	87654339@somedistrict.edu	Take Home	1195 Student		
SD-CB-00001034	NXMIAAA0044300000089028 ACTIVE	70.0 3538 110	2018-12-17	2016-08-18	Acer Chromebook B11 (CB5-132T / C738T / CB3-132)	£00000089028	87654340@somedistrict.edu	Take Home	1056 Student		
SD-CB-00001035	NXMIAAA0044300000092498 ACTIVE	70.0 3538 110	2018-12-14	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000002498	87654341@somedistrict.edu	Take Home	812 Student		
SD-CB-00001036	NYMIAAA004430000003245 ACTIVE	70.0 3538 110	2018-12-14	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f0000003745	87654342@comedictrict.edu	Take Home	881 Student		
SD-CB-00001030	NYMIA A A00442000000035145 ACTIVE	70.0.2529.110	2010-12-14	2016-07-24	Acer Chromebook R11 (CP5-1321 / C7301 / CP3-132)	f000000004547	87654242@comedistrict.edu	Take Home	1202 Student	, ,	
SD-CB-00001037	NXMIAAA0044300000095104 ACTIVE	70.03538.110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-1321 / C7381 / CB3-132)	f00000094347	87654344@comedistrict.edu	Take Home	1295 Student	, ,	
SD-CB-00001030	NXMIAAA00443000000050104 ACTIVE	70.0 3538 110	2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000006284	87654345@comedistrict.edu	Take Home	1078 Student		
SD-CB-00001035	NXMIAAA00443000000100452 ACTIVE	70.0 3538 110	2018-12-14	2016-07-24	Acer Chromebook R11 (CB5-1321 / C7381 / CB3-132)	f00000100452	87654346@somedistrict.edu	Take Home	422 Student	, c	
SD-CB-00001041	NXMIAAA00443000000104319 ACTIVE	70.0 3538 110	2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000104319	87654347@somedistrict.edu	Take Home	736 Student	-	
SD-CB-00001042	NYMIAAA0044300000109412 ACTIVE	70.0 3538 110	2018-12-17	2016-07-29	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000109412	87654348@comedistrict.edu	Take Home	1020 Student		
SD-CB-00001042	NXMIAAA00443000000112338 ACTIVE	70.0 3538 110	2018-12-17	2016-07-20	Acer Chromebook R11 (CB5-1321 / C7381 / CB3-132)	f00000112338	87654349@comedistrict.edu	Take Home	843 Student	, c	
SD-CB-00001044	NXMIAAA0044300000112848 ACTIVE	70.0 3538 110	2018-12-17	2016-08-18	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000112848	87654350@comedistrict.edu	Take Home	940 Student	-	
SD-CB-00001045	NXMIAAA00443000000121872 ACTIVE	70.0.3538.110	2018-12-14	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000121872	87654351@somedistrict.edu	Take Home	562 Student	, ,	~
0 selected of 1035 total									Recent Days	60	
Load Time: 7.8 secor	nds						С	:hro	melo	90	k

In this view, you see each device for the org. Included in the data is the most useful individual information for an org, including serial numbers, status, lastSync, model, mac address, recentUse. Items that are able to be set include annotatedAssetId, annotatedUser and annotatedLocation. At the bottom right is a spreadsheet icon to output a report from this view. The recentUse Days can be adjusted here as well.

You may wish to use these annotated items as follows:

annotatedAssetId is your own control number, such as a sticker on the device.

annotatedUser is the email of the user the device is assigned to.

annotatedLocation is the physical location of the device.

Double clicking on an item sends it to Device View. Right click options for Org View are shown below.

🕑 chrom	elook									-		×
File Edit	About											
Root View	Org View	Device View	Search	SQL Qu	ery B	ulk Edit	Bulk Import	Device Replace	Org Move	GAM Script (0)		
/Chrome De	evices/Ass	igned/Students										
								1.10	1.15.11			
annotated/	AssetId	serialNumber		S	tatus		osversion	lastSync	lastEnroll	model	macAd	ddre
SD-CB-000	01015	NXMJAAA004	43000000	001829 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	<u>∧ 3100/</u>
SD-CB-000	01016	NXMJAAA004	43000000	012798 A	CTIVE		70.0.3538.11	0 2018-12-13	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0127
SD-CB-000	01017	NXMJAAA004	43000000	016551 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0165
SD-CB-000	01018	NXMJAAA004	43000000	017800 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0178
SD-CB-000	01019	NXMJAAA004	43000000	019999 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0199
SD-CB-000	D.,	IL FUEL		ADAFAI A	TIVE		70.0.3538.11	0 2018-12-14	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0285
SD-CB-000	Bu	K Edit			TIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0293
SD-CB-000	Eve	ort MACs for s	alacted		TIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0358
SD-CB-000	Ext.	OUT MACS FOR S	elected		TIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0394
SD-CB-000	Exp	ort Serials for s	elected		TIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0398
SD-CB-000					TIVE		70.0.3538.11	0 2018-12-14	2016-08-18	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0504
SD-CB-000	- Sea	arch for: SD-CB-	00001020)	TIVE		70.0.3538.11	0 2018-12-17	2018-04-25	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0563
SD-CB-000	01027		15000000		TIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0609
SD-CB-000	01028	NXMJAAA004	43000000	066972 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0669
SD-CB-000	01029	NXMJAAA004	43000000	070443 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0704
SD-CB-000	01030	NXMJAAA004	43000000	071970 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0719
SD-CB-000	01031	NXMJAAA004	43000000	072071 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	10720
SD-CB-000	01032	NXMJAAA004	43000000	072191 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0721
SD-CB-000	01033	NXMJAAA004	43000000	074397 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	/0743
SD-CB-000	01034	NXMJAAA004	43000000	089028 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-08-18	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	/0890
SD-CB-000	01035	NXMJAAA004	43000000	092498 A	CTIVE		70.0.3538.11	0 2018-12-14	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0924
SD-CB-000	01036	NXMJAAA004	43000000	093745 A	CTIVE		70.0.3538.11	0 2018-12-14	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0937
SD-CB-000	01037	NXMJAAA004	43000000	094547 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0945
SD-CB-000	01038	NXMJAAA004	43000000	096104 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-23	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0961
SD-CB-000	01039	NXMJAAA004	43000000	096284 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	0962
SD-CB-000	01040	NXMJAAA004	43000000	100452 A	CTIVE		70.0.3538.11	0 2018-12-14	2016-07-24	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	/1004
SD-CB-000	01041	NXMJAAA004	43000000	104319 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	/1043
SD-CB-000	01042	NXMJAAA004	43000000	109412 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-28	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	1094
SD-CB-000	01043	NXMJAAA004	43000000	112338 A	CTIVE		70.0.3538.11	0 2018-12-17	2016-07-27	Acer Chromebook R11 (CB5-132T / C738T / CB3-132)	f00000	/1123
SD_CR-000	01044	NYMIAAAAA	12000000	1179/9 A	CTIVE		70.0 2528 11	0 2018-12-17	2016-08-18	Acer Chromehook R11 (CR5-122T / C728T / CR2-122)	f00000	1175
1												2

15 selected of 1035 total

Recent Days 15

Load Time: 13.1 seconds

chromelook

Bulk Edit sends selected items to the Bulk Edit tab.

Export options allow you to extract data for reports.

Search will send the item clicked on to the Search tab.

DEVICE VIEW TAB

The Device View tab gives you a detailed view of the selected device. It also permits editing items that are configurable. Those items include annotatedAssetId, annotatedUser, annotatedLocation, notes, orgUnitPath and status. Those items each have a recent icon next to them.

🕑 chromelook			_		Х
File Edit About					
Root View Org View Device View Sea	rch SQL Query Bulk Edit Bulk Import	Device Replace Org Move GAM Script (0)			
Activity		Annotated			
Date Min Email 2018-12-13 146 2018-12-12 72 2018-12-12 72 2018-12-12 72 2018-12-10 123 2018-12-07 196 2018-12-06 184 2018-12-05 31 2018-12-04 84 2018-12-03 46 2018-11-30 46 2018-11-29 127	Туре	Property annotatedAssetId annotatedLocation annotatedUser notes Related Selections Item 1 Assigned to student Cristina Burton			
00041ab1-0f93-4d48-a7dd-000000012798					
Property orgUnitPath status model serialNumber macAddress ethernetMacAddress lastEnrollmentTime lastSync osVersion platformVersion firmwareVersion bootMode	Value /Chrome Devices/Assign ACTIVE ACE Chromebook R11 (NXMJAAA00443000000 f00000012798 2016-07-24T14:17:25.544 2018-12-13T20:03:56.028 70.0.3538.110 11021.81.0 (Official Build Verified	ned/Students (CB5-132T / C738T / CB3-132))12798 4Z 3Z d) stable-channel cyan			<
Load Time: 7.8 seconds		chrome	0	Oł	<

The Activity section shows dates and minutes of use. When available, it will also show users, if they were logged in to the device.

The Annotated section shows (and makes editable) the items you can configure.

The Related Selections section is a selector to quickly navigate to other devices that are related. A related device would be one from the same tab that brought you to Device View.

The Details section shows all other info about the particular device. In this section, you can also edit the orgUnitPath and the status.

The Green Arrow icon sends any edits you have made to the GAM tab.

Editable items in Device View have a 'recent' icon (clock). Typically you can directly edit items, or click the recent icon to see suggestions.

🕐 chromelook			-		×
Root View Org View Device View Search SOL Out	erv Bulk Edit Bulk Import D	evice Replace Org Move GAM Script (0)			
Activity		Annotated			
Activity					
Date Min Email 2018-12-14 18 2018-12-12 48 2018-12-10 104 2018-12-04 147	Туре	Property Value annotatedAssetI SD-CB-00001020 annotatedLocation Take Home annotatedUser 87654326@somedistrict.edu notes Assigned to student Patience	Irwin		
		Related Selections Item 4 ^ 5 6 7 v			
00041ab1-0f93-4d48-a7dd-000000028504					
Drawatte	Value				
orglinitPath	/Chrome Devices/Assigne	d/Students			
status	ACTIVE				
model serialNumber macAddress ethernetMacAddress	Revert disable				
lastEnrollmentTime	denominian different	andel secles a described a desire terrals securitements			
lastSync	aeprovision_aifferent_i	nodel_replace acknowledge_device_toucn_requirement			
osVersion	deprovision_same_mo	del_replace acknowledge_device_touch_requirement			
firmwareVersion	deprovision_retiring_d	evice acknowledge_device_touch_requirement			
bootMode	Verified				~
Load Time: 13.1 seconds		chrom	elo	0	K

Show above are the 'recent' choices for status. Revert will revert any change you just made, prior to clicking the GAM arrow. Disable would be used to disable a Chromebook (lost, stolen..). Reenable restores a disabled device. Deprovison will cause the device to wipe and unenroll.

Restoring a deprovisioned Chromebook is a manual hands on operation. It must be enterprise enrolled at the device. Use caution with this command.

Note that any changes you make in Chromelook are not actually applied to any Chromebook until you copy & paste the GAM tab script to a command prompt. It is safe to experiment. When you click the green GAM arrow, a script is sent to the GAM tab and the Chromelook internal database reflects the change.

Non editable items can be copied to the clipboard by right clicking them.

SEARCH TAB

The Search tab allows for two methods of searching.

-													
Chrom	nelook										-		×
Root View	Org View	Device View	Search	SQL Query	Bulk Edit	Bulk Import	Device Replace	Org Move	GAM Script (0)				
Comn	non Items				1								Q
	Serial List	NXMJAAA004 NXMJAAA004 NXMJAAA004 NXMJAAA004	43000000 43000000 43000000 43000000	029381 035850 039468 039811							~	Q	
serialNum NXMJAAA NXMJAAA NXMJAAA NXMJAAA NXMJAAA	iber 0044300000 0044300000 0044300000 0044300000 0044300000 0044300000	annot 0019999 SD-CE 0028504 SD-CE 0029381 SD-CE 0039468 SD-CE 0039468 SD-CE 0039811 SD-CE	atedAsset 3-000101 3-0000102 3-0000102 3-0000102 3-0000102 3-0000102	tild sta 9 AC 0 AC 1 AC 2 AC 3 AC 4 AC	tus TIVE TIVE TIVE TIVE TIVE TIVE TIVE	lastSync 2018-12-17. 2018-12-14. 2018-12-17. 2018-12-17. 2018-12-17. 2018-12-17.	annotatedU 87654326@s 87654326@s 87654327@s 87654328@s 87654329@s 87654329@s 87654329@s	ser iomedistrict.e iomedistrict.e iomedistrict.e iomedistrict.e iomedistrict.e	annotatedLocation du Take Home du Take Home du Take Home du Take Home du Take Home du Take Home du Take Home	orgUnitPath /Chrome Devices// /Chrome Devices// /Chrome Devices// /Chrome Devices// /Chrome Devices//	Assigned/Stu Assigned/Stu Assigned/Stu Assigned/Stu Assigned/Stu	idents idents idents idents idents	
<													>
0 selected	of 6 total												
Load Ti	me: 7.8 seco	nds							chro	ome	0	•	k

Search by almost any common data item such as model, MAC, Serial, org, date...

The other method is search by list of serial numbers. Copy a column of serial numbers from a spreadsheet and paste them to the Serial List box. If they exist, they will be retrieved and listed. This feature makes it simple to Bulk Edit items if you already have them in lists.

Items retrieved can be selected and sent to Bulk Edit by right clicking on the selections. Double clicking will send them to Device View.

The spreadsheet icon will create a report.

SQL QUERY TAB

When you loaded cros.csv, it was imported in to an internal SQLite database. Each of the other tabs are in fact generated by SQL queries. This makes Chromelook extremely useful. You can use the queries provided or write new ones. Queries can be saved and retrieved as well.



The query in the above screenshot is for retrieving a list of devices with outdated os versions. Note that the query has some unfamiliar items in it.

SELECT Id, model, osVersion, orgUnitPath, serialNumber, status FROM deviceTable WHERE osVersion < [ask]Version[ask] and status = 'ACTIVE' AND orgUnitPath LIKE '%/[ask]Paths containing[ask]%'

The unfamiliar are: [ask]Version[ask] [ask]Paths containing[ask]

These are variables. When the query is executed, you will be prompted to enter a value for 'Version', then one for 'Paths Containing'. This allows you to use different values each time you run the query, without editing the query. Make your own variable by putting [ask] on each side of the question item. If you wanted the user to enter a date, you would use [ask]Please provide a date[ask] in the portion of the query where you otherwise would have placed a date. You can use multiple variables by simply asking different questions.

The Column Picker drop down lists all of the available SQL columns to write a query. Clicking on one inserts it at the current cursor position.

Column Picker	
Starter Query - deviceTable.ld deviceTable.deviceId deviceTable.annotatedAssetId	^
deviceTable.annotated.ocation deviceTable.annotatedUser deviceTable.macAddress deviceTable.model deviceTable.orgUnitPath deviceTable.org	
deviceTable.osVersion deviceTable.serialNumber deviceTable.notes deviceTable.status deviceTable.ethernetMacAddress	
device Lable.lastEnrollment Lime deviceTable.lastSync deviceTable.platformVersion deviceTable.firmwareVersion deviceTable.bootMode	
- usageTable.ld usageTable.deviceld usageTable.activeTimeRangesminutes usageTable.activeTimeRangesdate	
usageTable.activeTimeRangesactiveTime usageTable.activeTimeRangesduration usageTable.recentUsersemail	~

Several useful queries are included. Click on the icon that looks like a database with a gear to retrieve them.

The following query will prompt you for a number of days, then show you all devices that have not been used since that many days ago. This is great for reallocating unused devices.

SELECT deviceTable.Id, deviceTable.serialNumber, deviceTable.orgUnitPath, deviceTable.org, deviceTable.lastSync

FROM deviceTable

WHERE deviceTable.status = 'ACTIVE' AND deviceTable.lastSync <= DateTime('Now', 'LocalTime', '-[ask]Hasn't sync'd in this many days[ask] Day') AND deviceTable.orgUnitPath LIKE '%/[ask]org path includes[ask]%'

GROUP BY deviceTable.serialNumber

ORDER BY deviceTable.lastSync

Selecting and sharing queries is simple. Click the database with a plus icon to bring up Query Manager.

Ouery Manager		×
Query Library Saved Queries	Description	
Asset D is missing Chromebooks running beta OS version Enrolled on or after the date entered at prompt Find devices unused in so many days Find devices unused since a date Inactive in wrong OU MAC is missing Org View Tab Information OS outdated Root Tab View with MAC and Annotated Details Root View Tab Information incl assetId Root View Tab Information Show C720's in use Site all devices Staff Chromebooks Total Usage for Last 14 days		
Query SELECT deviceTable.ld, deviceTable.serialNumber, deviceTable.orgUnit FROM deviceTable WHERE deviceTable.status = 'ACTIVE' AND deviceTable.lastSync <= Da deviceTable.orgUnitPath LIKE '%/[ask]org path includes[ask]%' GROUP BY deviceTable.serialNumber ORDER BY deviceTable.lastSync	, Path, deviceTable.org, deviceTable.lastSync steTime('Now', 'LocalTime', '-[ask]Hasn't sync'd in this many days[ask] Day') AND	

Scrolling down the save queries list will provide you with a description and a look at the query. Double click on a query to use it.

After writing and testing a query, you can save it by clicking the icon that is a database with a plus sign.

Query Add	X
Current Query Name	You query name here
Description	Your query description here
Query	SELECT Id, model, osVersion, orgUnitPath, serialNumber, status FROM deviceTable WHERE osVersion < [ask]Version[ask] and status = 'ACTIVE' AND orgUnitPath LIKE '%/[ask]Paths containing[ask]%

The Query Add window will pop up with your query almost ready to save.

Give your query a name (this will be a filename). Give it a good description too. Once you are satisfied, click the floppy icon to save it.

The folder icon will open the queries location in Windows Explorer. This is handy for manually adding, removing or sharing queries.

📙 > User >	AppData > Roaming > chromelook-v.0.4 > chromelook Queries
Name	^
Asset ID) is missing.desc.txt
Asset ID) is missing.query.txt
Chrome	books running beta OS version.desc.txt
Chrome	books running beta OS version.query.txt
Find de	vices unused in so many days.desc.txt
Find de	vices unused in so many days.query.txt
Find de	vices unused since a date.desc.txt
Find de	vices unused since a date.query.txt
Inactive	in wrong OU.desc.txt
Inactive	in wrong OU.query.txt
MAC is	missing.desc.txt
MAC is	missing.query.txt

Each query has two files. One is the description in plain text, the other is the query in plain text. This makes it simple to hand edit if needed.

BULK EDIT TAB

This is where you can get some serious work done on an existing fleet.

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							– U	~
File Edit About		coulo Bully	Edite in a second					
Root View Org View D	Vevice View Search	SQL Query Bulk	Edit Bulk Import	Device Replace Org Move 0	SAM Script (0)			
serialNumber	status	lastSync a	nnotatedAssetId	annotatedUser	annotatedLocation	notes		
NXMJAAA004430000002	28504 ACTIVE	2018-12-14 S	D-CB-00001020	87654326@somedistrict.edu	u Take Home	Assigned to student Pa	tience Irwin	
NXMIAAA004430000002	5850 ACTIVE	2018-12-17 5	D-CB-00001021	87654328@somedistrict.edu	u Take Home	Assigned to student Ta Assigned to student 7a	id Berry	
NXMJAAA004430000003	9468 ACTIVE	2018-12-17 S	D-CB-00001023	87654329@somedistrict.ed	u Take Home	Assigned to student Cla	aire Carpenter	
NXMJAAA004430000003	9811 ACTIVE	2018-12-17 S	D-CB-00001024	87654330@somedistrict.ed	u Take Home	Assigned to student De	egan Moses	
NXMJAAA004430000005	0449 ACTIVE	2018-12-14 S	D-CB-00001025	87654331@somedistrict.edu	u Take Home	Assigned to student Br	aden Franklin	
NXMJAAA004430000005	6344 ACTIVE	2018-12-17 S	D-CB-00001026	87654332@somedistrict.edu	u Take Home	Assigned to student Ar	mani Murillo	
NXIVIJAAA004430000000 NXMIAAA004430000000	6072 ACTIVE	2018-12-17 5	D-CB-00001027	87654333@somedistrict.edu	u Take Home	Assigned to student Sa Assigned to student Re	m wicgrath illy Gates	
< 9 selected of 9 total Editor annotatedAssetID annotatedI ocation	ACTIVE	SomeDist-CBC	art989] - 0001	annotated	Jser shared@sor	nedistrict.edu		, Ø
annotatedeocation	Cart							$\mathbf{\circ}$
notes	Assigned to Ca	ırt 989						٢
orgUnitPath	/Chrome Devi	ces/Cart Config/HS	/Adams HS/Cart989			\sim		
org Description	Adams HS Car	t 989				C)	
status						~		Ø
Load Time: 7.8 second	5				chro	omel	00	k

Items are sent to the Bulk Edit tab by selecting them from nearly any other tab. Just select, right click and choose Bulk Edit. Once in Bulk Edit, you can pick any or all items in the Editor section to change.

annotatedAssetId has three sections to it. The base name, separator and sequence. To sequentially add Asset Ids, enter the base name, then choose a separator (-), then enter the starting digits. Add leading zeroes as desired.

In the screenshot, we are changing the nine selected devices as follows:

annotatedAssetId will begin at SomeDist-CBCart989-0001 and stop at SomeDist-CBCart989-0009 annotatedUser will change to shared@somedistrict.edu annotatedLocation will change to Cart notes will change to Assigned to Cart 989 All devices will be moved to /Chrome Device/Cart Config/HS/Adams HS/Cart989. The org will be created if needed. If an org is created, its description will be Adams HS Cart 989

Once devices are selected and Editor changes are ready, click the mix icon. The selected devices will have changes applied. Further changes to other selected items can be made. Changed items will be in bold in the list. Once all

changes are made and you are ready, click the green GAM arrow. The required GAM script will be sent to the GAM tab.

The only item we skipped was status. It is used to disable, reenable or deprovision.

Mass deprovisioning is easy. A walk through will be shown at the end of the guide.

TIP

An important time saving feature is the recent icon. When you click the recent icon, a quick pick menu pops up with the choices you have made in this session, or choices that are common to the item.

NXMJAAA00443000000139339 NXMJAAA0044300000053948 NXMJAAA00443000000111767	aeprovision_retiring_aevice acknowi deprovision_retiring_device acknowi deprovision_retiring_device acknowi	2017-05-10 2017-05-23 2017-05-26	To the recycler ::: To the recycler !!! To the recycler !!!	/Chrome Devices Deprov /Chrome Devices Deprov /Chrome Devices Deprov	isionea isioned isioned		
<						>	
0 selected of 13 total	/Chrome Devices Deprovisioned			14		0	
annotatedAssetID	Collection###-	- 01	annotatedUser			٩	
annotatedLocation						0	
notes						C	Assigned to
orgUnitPath				~		_	to the recycler in

In the screenshot, we clicked the recent icon for *notes*. *To the recycler !!!* was added in our last example session. These items persist until you close Chromelook, then they are gone. You can make them persistant by simply filling out the item, then hold down the shift key and click the recent icon. They will then be saved for future use. Notice that *Assigned to* is incomplete. This makes it handy for a variety of assignees.

BULK IMPORT TAB

The Bulk Import tab is the perfect way to apply changes from a spreadsheet. If you already have an Excel sheet full of serial numbers and end user names or carts, you can easily apply that data here.

												_	П	×
File Edit About														
Root View Org View	Device View Search	SQL Query Bulk Edit	Bulk Import	Device Repla	ace Org N	love GAM	Script (0)							
annotatedAssetId	serialNumber	status	lastSync	an	notatedUse	er a	nnotatedLocation	model	notes	orgUnitPath	orgDesc	deviceld		
0 selected of 0 total				18									C	2
Import from Excel copy	paste			00										
parentPathOrg									~ 🕒					
					·	00001037	NIVA 414 4 4 00 4 420	0000001570	0765 42220	Taballana	Assisted to student Co			
org	SD-CB			0	SD-C	B-00001027 B-00001028	NXMJAAA004430	00000001578	87654334@somedistrict.edu	Take Home	Assigned to student Sa Assigned to student Re	illy Gates		^
orgDescription				()	SD-C SD-C	B-00001029 B-00001030	NXMJAAA004430 NXMJAAA004430	00000001630 000000001662	87654335@somedistrict.edu 87654336@somedistrict.edu	Take Home Take Home	Assigned to student M Assigned to student Ra	legan Oneill segan Pruitt		
annotatedUser				()	SD-C SD-C	B-00001031 B-00001032	NXMJAAA004430 NXMJAAA004430	00000001689	87654337@somedistrict.edu 87654338@somedistrict.edu	Take Home Take Home	Assigned to student O Assigned to student Ni	wen Kim ia Mcfarland	d	
annotated location				0	SD-C	B-00001033	NXMJAAA004430	00000001818	87654339@somedistrict.edu 87654340@somedistrict.edu	Take Home Take Home	Assigned to student Lu	ikas Armstri annah Aller	ong	
					SD-C	B-00001035	NXMJAAA004430	00000001888	87654341@somedistrict.edu	Take Home	Assigned to student Ka	ilyn Weiss		
notes				G	SD-C	B-00001038 B-00001037	NXMJAAA004430	00000001915	87654343@somedistrict.edu 87654343@somedistrict.edu	Take Home	Assigned to student De Assigned to student Eil	leen Cohen		
	1													
														~
				0	23 lte	ms								0
													_	
Load Time: 8.4 second	ds									chr	omo			1
													J	

In a nutshell, select the area in Excel, copy then paste to the area in Chromelook.

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5	SD-CB-00001018	NXMJAAA0044300000000869	87654324@somedistrict.edu	Take Home	Assigned to student Darrell Bradford				
6	SD-CB-00001019	NXMJAAA0044300000000957	87654325@somedistrict.edu	Take Home	Assigned to student Alia Baxter				
7	SD-CB-00001020	NXMJAAA0044300000000996	87654326@somedistrict.edu	Take Home	Assigned to student Patience Irwin				
8	SD-CB-00001021	NXMJAAA0044300000001183	87654327@somedistrict.edu	Take Home	Assigned to student Tatiana Bray				
9	SD-CB-00001022	NXMJAAA0044300000001327	87654328@somedistrict.edu	Take Home	Assigned to student Zaid Berry				
10	SD-CB-00001023	NXMJAAA0044300000001335	87654329@somedistrict.edu	Take Home	Assigned to student Claire Carpenter				
11	SD-CB-00001024	NXMJAAA0044300000001421	87654330@somedistrict.edu	Take Home	Assigned to student Deegan Moses				
12	SD-CB-00001025	NXMJAAA0044300000001422	87654331@somedistrict.edu	Take Home	Assigned to student Braden Franklin				
13	SD-CB-00001026	NXMJAAA0044300000001519	87654332@somedistrict.edu	Take Home	Assigned to student Armani Murillo				
14	SD-CB-00001027	NXMJAAA0044300000001578	87654333@somedistrict.edu	Take Home	Assigned to student Sam Mcgrath				
15	SD-CB-00001028	NXMJAAA0044300000001608	87654334@somedistrict.edu	Take Home	Assigned to student Reilly Gates				
16	SD-CB-00001029	NXMJAAA0044300000001630	87654335@somedistrict.edu	Take Home	Assigned to student Megan Oneill				
17	SD-CB-00001030	NXMJAAA0044300000001662	87654336@somedistrict.edu	Take Home	Assigned to student Raegan Pruitt				
18	SD-CB-00001031	NXMJAAA0044300000001689	87654337@somedistrict.edu	Take Home	Assigned to student Owen Kim				
19	SD-CB-00001032	NXMJAAA0044300000001715	87654338@somedistrict.edu	Take Home	Assigned to student Nia Mcfarland				
20	SD-CB-00001033	NXMJAAA0044300000001818	87654339@somedistrict.edu	Take Home	Assigned to student Lukas Armstrong				
21	SD-CB-00001034	NXMJAAA0044300000001885	87654340@somedistrict.edu	Take Home	Assigned to student Alannah Allen				
22	SD-CB-00001035	NXMJAAA0044300000001888	87654341@somedistrict.edu	Take Home	Assigned to student Kailyn Weiss				
23	SD-CB-00001036	NXMJAAA00443000000001913	87654342@somedistrict.edu	Take Home	Assigned to student Deandre Case				
24	SD-CB-00001037	NXMJAAA0044300000001917	87654343@somedistrict.edu	Take Home	Assigned to student Eileen Cohen	挃			
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The spreadsheet needs to contain the first and second column, the rest are optional. At the bottom right of the Bulk Import tab is a notes icon. Click it to get headers for a spreadsheet. The columns must be in this order:

annotatedAssetId(req)

serialNumber(req) annotatedUser

r annotatedLocation notes

orgUnitPath orgDesc

The more data the spreadsheet has, the less you need to do in Chromelook. If the spreadsheet has all of the items, you only need to hit the mix icon (twice actually). Then hit the GAM arrow.

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If all you have to provide are the first two columns, it's still pretty easy to add the rest. Paste your data in the paste area.

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Fill in the fields to the bottom left. *parentPathOrg* and *org* are required fields. Notice that *org* already has a suggestion! To accept it, click the magic wand next to it on the right. The rest are not required items. Organizational paths and orgs not already existing will be created. Hit the mix button.

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Changes are shown in bold. Anything left in the paste area should be examined. Headers and items Chromelook can't locate as a serial number are left here. A serial number left behind is one that may not be properly enterprise enrolled. Him the GAM arrow and the script is created.

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DEVICE REPLACE TAB

The Device Replace tab is where you go to quickly replace a failed device with a replacement. If you have ever done this in Google Admin, you know it is a pain.



Enter the serial number for the broken device in the Device 1 Serial Number box. Select the disposition from the Disposition drop down and select your org for deprovisioned devices in the Deprovision Org drop down. To save time later, hold shift down and click the recent icon to make it a quick pick. Now hit the search icon.

Enter the unit serial number replacing it in Device 2. Hit the search icon.

Review your choices, then hit the transfer button.

In the screenshot, the Current data for Device 1 was transferred to Proposed data for Device 2. Device 1 is now Proposed for deprovision and moving to /Chrome Devices Deprovisioned. All that is left is to hit the GAM button to create a script.

ORG MOVE TAB

The Org Move tab is for moving an entire organizational unit to a new parent. From the Root View, right click on Orgs to be moved. Then come here to do the move.

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Cart0162 Cart0281 Cart0282	/Chrome Devices/Cart Config/Charter/Hillman Charter School/Cart0162 /Chrome Devices/Cart Config/Charter/Hillman Charter School/Cart0281 /Chrome Devices/Cart Config/Charter/Hillman Charter School/Cart0282		
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Highlight the orgs to work on. Choose the new parent in orgUnitPath drop down. Be careful that you select a parent only. The drop down will have both parent paths and complete paths with child orgs.

Hit the mix button and the changes will apply to the selected items only. Changes will appear in the newParent column. Make sure it looks correct. The final full path will be newParent/org

Hit the GAM button to create the script.

GAM SCRIPT TAB

This is where created GAM scripts are placed.

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GAM Script	F]	>_
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You can review what you have created here. Items here are waiting to be applied to Google via GAM. When you are ready to apply these, just copy paste them to a command prompt. The clipboard icon will copy them to the system clipboard (or you can use ctrl-a, ctrl-c). The command prompt icon's will attempt to open a command prompt in GAMADV-XTD3 or C:\GAM, depending on the button you choose. You will then need to hit ctrl-v or right click and paste.

The script expects GAM to be installed to C:\GAMADV-XTD3 or C:\GAM . If C:\GAMADV-XTD3 or C:\GAM does not exist, a regular command prompt is still opened.

Other options are to add the path to GAM to the Windows environment path variable. The following articles shows how to add a folder to the system path:

https://www.howtogeek.com/118594/how-to-edit-your-system-path-for-easy-command-line-access/

MASS DEPROVISION WALKTHROUGH

The Google Admin console allows you to deprovision just over 30 devices at a time. This is a safeguard against. Once deprovisioned, a Chrome device requires physical access to reprovision. Using GAM or Chromelook, you can easily deprovision thousands of devices. Be careful.

The following assumes you know that you are going to have a lot of work to perform if you are not careful.

In my example, I've decided to get rid of devices not seen since 2017-06-01. I run a query (Find devices unused since a date) to find my targets. You could just as easily use Search tab to find a list of serials.

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After the query runs, I have 13 items. I look them over to be sure. I can click on each one to get more details in Device View tab.

Now I select the items in the list. Then right click and choose Bulk Edit to send them to the Bulk Edit tab.

chromelook File Edit About		- 🗆 X								
Root View Org View Device View Search SQL Query Bulk Edit Bulk Import Device Replace Org Move	GAM Script (0)									
SELECT deviceTable.ld, deviceTable.serialNumber, deviceTable.orgUnitPath, deviceTable.org, deviceTable.lastSync FROM deviceTable.status = 'ACTIVE' AND deviceTable.lastSync < '[ask]Include dates (YYYY-MM-DD) prior to[ask]' AND deviceTable.orgUnitPath LIKE '%/[ask]org path includes[ask]%' GROUP BY deviceTable.serialNumber ORDER BY deviceTable.lastSync										
Column Picker										
serialNumber orgUnitPath	org	lastSync								
NXMJAAA00443000000149307 /Chrome Devices/Cart Config/JHS/Pearl JHS/Cart0120	Cart0120	2016-01-27								
NXMJAAA00443000000138039 /Chrome Devices/Cart Config/JHS/Pearl JHS/Cart0063	Cart0063	2016-09-16								
NXMJAAA00443000000162961 /Chrome Devices/Assigned/Staff	Staff	2016-11-29								
NXMJAAA0044300000064377 /Chrome Devices/Cart Config/HS/Carver HS/Cart0297	Cart0297	2017-01-27								
NXMJAAA0044300000082357 /Chrome D Bulk Edit	Cart0175	2017-04-07								
NXMJAAA00443000000122/94 /Chrome D Dank Edit	Cart0392	2017-04-18								
NXMJAAA00443000000137/85 /Chrome Devices/Assigned/Staff	Staff	2017-04-27								
NXMJAAA004430000002149/ /Chrome Devices/Assigned/Staff	Staff	2017-04-27								
NXMJAAA004430000000/8483 / Chrome Devices/Assigned/Statt	Staff	2017-04-27								
NXMUAAA004430000000/8570 / Chrome Devices/Assigned/Statt	Statt	2017-04-27								
NXNDAAA00443000000139339 / Chrome Devices/Cart Config/Hs/Harrison Hs/Cart0333	Cart0355	2017-05-22								
NXMIAAA004430000000000000000000000000000000	Cart0197	2017-05-26								
The state of the s	Curtorist	2017 05 2011								

13 selected of 13 total

In the Bulk Edit tab, we add a note if we want. We select the orgUnitPath for deprovisioned devices. We change status to one of the deprovision options. The we hit the mix button to apply it to the selected items above.

C chromelook \times File Edit About Root View Org View Device View Search SQL Query Bulk Edit Bulk Import Device Replace Org Move GAM Script (0) serialNumber status lastSync annotatedAssetId annotatedUser annotatedLocation notes m NXMJAAA004 ACTIV NXMJAAA00443000000138039 ACTIVE 2016-09-16 XMJAAA00443000000162961 ACTIVE SD-CB-00005321 jase.ward@somedistrict.edu Staff Assigned to staff Jase Ward 2016-11-29 XMJAAA0044300000064377 ACTIVE JXMJAAA0044300000082357 ACTIVE 2017-04-07 2017-04-18 CTIVE SD-CB-00005120 SD-CB-00004162 SD-CB-00004641 Assigned to staff Annabel Calderon MJAAA00443000000137785 rylan.mcneil@somedistric... Staff cesar.martin@somedistric... Staff silas.thompson@somedist... Staff Assigned to staff Rylan Mcneil Assigned to staff Cesar Martin 017-04-27 2017-04-27 CTIV XMJAAA00443000000 SD-CB-00004642 Assigned to staff Silas Thompson XMIAAA00443000000159559 ACTIVE 2017-05-10 A0044300000005394 CTIVI < > Ŷ 13 selected of 13 total Editor **(** Collection###- - 01 annotatedUser annotatedAssetID ٩ 9 annotatedLocation (notes To the recycler !!! orgUnitPath /Chrome Devices Deprovisioned 0 org Description 0 deprovision_retiring_device acknowledge_device_touch_requirement status chromelook Load Time: 12.5 seconds

We're only doing 13 here. We could easily do 7,000. We now hit the green GAM arrow to send them to the GAM Script tab.

The script that was created is all that GAM needs to deprovision these.

File E de About Root View Org View Device View Search SQL Query Bulk Edit Bulk Import Device Replace Org Move GAM Script Image: Comparison of Comparis	• chromelook	=		×
Red View Qrg View Device View Search SQL Query Bulk Edit Bulk Import Device Replace Org Move GAMScript GAM script Image: Control Contenteric Control Control Control Control Cont	File Edit About			
GMA Sript Image: Constraint of the start of the st	Root View Org View Device View Search SQL Query Bulk Edit Bulk Import Device Replace Org Move GAM Script (26)			
GAM update cros 00041ab1-093-4448-37d4 0000014937 AU "/Chrome Devices Deprovisioned" Notes "To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000138039 AU "/Chrome Devices Deprovisioned" Notes "To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000128510 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000128510 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 000000128510 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 0000004377 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000004377 Aution deprovision_retimg. device acknowledge_device.touch_requirement GAM update cros 00041ab1-093-4448-37d4 00000002357 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000002357 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000002375 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 00000012279 U '/Chrome Devices Deprovisioned Notes To the recycler !!" GAM update cros 00041ab1-093-4448-37d4 0000001279 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 0000001279 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 000000137785 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 00000013785 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 00000013850 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 00000013850 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-093-4448-37d4 00000013850 U '/Chrome Devices Deprovisioned Notes To the recycler !!!" GAM update cros 00041ab1-	SAM Script	Ē	1	>_
Load Time: 12.5 seconds Chromelook	DAM update cros 00041ab1-0f93-4d48-a7dd-00000149307 Action deprovision_retriing_device achnowledge_device_touch_requirement DAM update cros 00041ab1-0f93-4d48-a7dd-00000138039 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" DAM update cros 00041ab1-0f93-4d48-a7dd-00000138039 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" DAM update cros 00041ab1-0f93-4d48-a7dd-00000162961 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" DAM update cros 00041ab1-0f93-4d48-a7dd-00000064377 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" DAM update cros 00041ab1-0f93-4d48-a7dd-0000006377 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" DAM update cros 00041ab1-0f93-4d48-a7dd-0000006377 Action deprovision_retiring_device achnowledge_device_touch_requirement GAM update cros 00041ab1-0f93-4d48-a7dd-00000082357 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" GAM update cros 00041ab1-0f93-4d48-a7dd-000000122794 Action deprovision_retiring_device achnowledge_device_touch_requirement GAM update cros 00041ab1-0f93-4d48-a7dd-00000012795 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" GAM update cros 00041ab1-0f93-4d48-a7dd-00000012795 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" GAM update cros 00041ab1-0f93-4d48-a7dd-00000012795 OU "/Chrome Devices Deprovisioned" Notes "To the recycler !!!" GAM update cros 00041ab1-0f93-4d48-a7dd-00000012795 OU '/Chrome Devices Deprovisioned" Notes "To the recycler !!!" GAM update cros 00041ab1-0f93-4d48-a7dd-000000021497			
	Load Time: 12.5 seconds	elo	0	<

The first line tells GAM to move this particular device to the deprovision org and add our not.

The second line tells GAM to deprovision it.

If we copy paste this scrip to a GAM prompt, it will execute each line. The process takes a second or two per line.

The result is that the selected items all now have the proposed changes show in bold.

O chromelook					-		×
File Edit About	- View Search SOL Query Bulk Edit	Bulk Import	Device Replace Org	Move GAM Script (0)			
serialNumber NXMJAAA00443000000149307 NXMJAAA00443000000138039	status deprovision_retiring_device acknowl. deprovision_retiring_device acknowl.	lastSync 2016-01-27 2016-09-16	annotatedAssetId	notes To the recycler !!! To the recycler !!!	orgUnitPath /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned		
NXMJAAA0044300000162961 NXMJAAA0044300000064377 NXMJAAA00443000000082357 NXMJAAA00443000000122794	deprovision_retiring_device acknowl. deprovision_retiring_device acknowl. deprovision_retiring_device acknowl. deprovision_retiring_device acknowl.	2016-11-29 2017-01-27 2017-04-07 2017-04-18	SD-CB-00005321	To the recycler !!! To the recycler !!! To the recycler !!! To the recycler !!!	/Chrome Devices Deprovisioned /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned		
NXMJAAA0044300000137785 NXMJAAA0044300000021497 NXMJAAA00443000000078483 NXMJAAA0044300000078576	deprovision_retiring_device acknowl. deprovision_retiring_device acknowl. deprovision_retiring_device acknowl. deprovision_retiring_device acknowl.	2017-04-27 2017-04-27 2017-04-27 2017-04-27	SD-CB-00005120 SD-CB-00004162 SD-CB-00004641 SD-CB-00004642	To the recycler !!! To the recycler !!! To the recycler !!! To the recycler !!!	/Chrome Devices Deprovisioned /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned		
NXMJAAA0044300000159559 NXMJAAA0044300000053948 NXMJAAA00443000000111767	deprovision_retiring_device acknowl. deprovision_retiring_device acknowl. deprovision_retiring_device acknowl.	2017-05-10 2017-05-23 2017-05-26		To the recycler !!! To the recycler !!! To the recycler !!!	/Chrome Devices Deprovisioned /Chrome Devices Deprovisioned /Chrome Devices Deprovisioned		
<							>
0 selected of 13 total	deprovision_retiring_device ackr	iowledge_devi	ce_touch_requirement		¥		0
annotatedAssetID	Collection###	- 01	🕒 an	notatedUser			٩
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Load Time: 12.5 seconds				ch	romeloo))	<