

Device Component Inventory

Custom CA PC app to display all components of a device with their status in a table view.

Use Case

Identify device components regardless of type, along with their present/filtered/poll status. In v1.1 for PM 3.6, the poll enable flag for any component can be changed.

Example

App View - Device Component Inventory

CSV Select all Select none Toggle Poll Enabled

ID	Name	Description	Name Alias	Interface Alias	Custom Attribute1	Operational Status	Metric Family	Vendor Cert	Is Present	Is Filtered	Is Polled	Poll Enabled
6085	CPU 1	Empire CPU Statistics 1					NormalizedCPUInfo	EmpireCPUMib	true	false	true	true
60788	CPU 2	Empire CPU Statistics 2					NormalizedCPUInfo	EmpireCPUMib	true	false	true	true
60789	CPU 3	Empire CPU Statistics 3					NormalizedCPUInfo	EmpireCPUMib	true	false	true	true
60790	CPU 4	Empire CPU Statistics 4					NormalizedCPUInfo	EmpireCPUMib	true	false	true	true
6083	Disk 1	SPIM Disk 1					NormalizedGenericDiskInfo	SystemEDGEStorageMib	true	false	true	true
6084	Disk 2	SPIM Disk 2					NormalizedGenericDiskInfo	SystemEDGEStorageMib	true	false	true	true
6086	Physical Memory	Physical Memory					NormalizedMemoryInfo	SystemEDGEMemoryMib	true	false	true	true
6087	Partition /	Partition /dev/mapper/centos-root					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
6088	Partition /boot	Partition /dev/sda1					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
6089	Partition /dev	Partition devtmpfs					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
6090	Partition /dev/shm	Partition tmpfs					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
6091	Partition /run	Partition tmpfs					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
6092	Partition /sys/fs/cgroup	Partition tmpfs					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
60791	Partition /run/user/0	Partition tmpfs					NormalizedPartitionsInfo	SystemEDGEStorageMib	true	false	true	true
7030	ens192	ens192					NormalizedPortInfo	IFXTableMib	false	false	false	true
9421	lo	lo					NormalizedPortInfo	IFXTableMib	false	true	false	true
60943	tun0	tun0					NormalizedPortInfo	IFXTableMib	true	true	false	true
60944	eno16777736	eno16777736					NormalizedPortInfo	IFXTableMib	true	true	false	true
6082	Virtual Memory	Virtual Memory					NormalizedVirtualMemoryInfo	SystemEDGEMemoryMib	true	false	true	true
8690	VNA wildfly	java:26237					ProcessWatch	EmpireProcessWatch	true	false	true	true

Search 1 Showing 1 to 20 of 20 entries Show 20 entries

Versions and Prerequisites

V1.0 CA PM 3.5

v1.1 CA PM 3.6

Approach

CA PC app with following characteristics

- uses odata and DA REST webservice queries to compile the result set
- Uses data tables graphics library
- lives on device context page
- uses CA PC redirector hyperlink that opens the device component context page in new browser tab
- Provides CSV export
- V1.1: table allows multiple row selections (Ctrl+click) and change of the "IsPollEnabled" flag.

Installation

The app is packed in a ZIP archive and can be installed through App Deployment function.

1. Store DevComplInventory.zip on your workstation
2. Under CA PC Administration -> App Deployment, select the zip archive and install it.
3. Navigate to a device context page.
4. Add a context tab, name it e.g. Components
5. In page editor, select single column layout and create an App View (under External Links) and select "Device Component Inventory" in the app drop down.

App view parameters:

URL: `/pc/apps/user/DevComplInventory/DevComplInventory.html?id={ItemIdDA}&limit=1000`

(default settings) which consists of

- `id={ItemIdDA}` page context (device item ID DA)
- optional:
- `ca1=YourCA` custom attribute name
- `ca1Label=Your CA Name` custom attribute label
-
- Height: 600 (to display 20 entries per page)

NOTES

- The app is provided as an example and no warranties are provided or made
- Techniques use are serialization and merge of three queries
- Users other than "admin" need to be enabled for DA REST access in CA PC (see <https://communities.ca.com/docs/DOC-231174750-ca-pc-apps-and-user-authorization>)
- If you see a large amount of components with "Is Present=false" state, you should consider cleaning up the not present items: <https://docops.ca.com/ca-performance-management/3-5/en/building/manage-devices/delete-components-that-are-not-present>