

# Device Component Inventory

Custom CA PC app which displays device components with several attributes in a table view. The app runs typically in a device context but can also be used in interface context.

## Use Case

Provide a comprehensive view with Data Aggregator attributes such as poll/filter/present status.

## Example

App View - Device Component Inventory

CSV

ID	Name	Description	Name Alias	Interface Alias	Connects To	Operational Status	Metric Family	Vendor Cert	Is Present	Is Filtered	Is Polled
<a href="#">1521</a>	CPU 1	Revised Cisco CPU Statistics 1					NormalizedCPUInfo	CiscoCPUMibRev	true	false	true
<a href="#">1519</a>	MemoryPool Processor 1	MemoryPool Processor 1					NormalizedMemoryInfo	CiscoMemMib	true	false	true
<a href="#">1520</a>	MemoryPool I/O 2	MemoryPool I/O 2					NormalizedMemoryInfo	CiscoMemMib	true	false	true
<a href="#">1528</a>	Fa0/1	FastEthernet0/1	Site A to Site B	auto-generation Vlan1	site-a-to-site-b	1	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1528</a>	Fa0/2	FastEthernet0/2	FastEthernet0/2	auto-generation Vlan1		1	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1530</a>	Fa0/3	FastEthernet0/3	FastEthernet0/3	auto-generation Vlan1		1	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1531</a>	Fa0/4	FastEthernet0/4	Fa0/4_alias_4	auto-generation Vlan1		1	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1532</a>	Fa0/5	FastEthernet0/5	Fa0/5_alias_5	auto-generation Vlan1		1	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1533</a>	Fa0/6	FastEthernet0/6	Fa0/6	auto-generation Vlan1		2	NormalizedPortInfo	IXTableMib	true	false	true
<a href="#">1534</a>	Fa0/7	FastEthernet0/7	Fa0/7	Patchfeld1-Muc-25		1	NormalizedPortInfo	IXTableMib	true	false	true

Search  |< < 1 2 3 4 5 6 > >| Showing 1 to 10 of 54 entries Show 10 entries

In interface context, it will only display a single line

App View - Device Component Inventory

ID	Name	Description	Name Alias	Interface Alias	Custom Attribute1	Operational Status	Metric Family	Vendor Cert	Is Present	Is Filtered	Is Polled
1528	Fa0/1	FastEthernet0/1	Site A to Site B	auto-generation Vlan1		1	NormalizedPortInfo	IXTableMib	true	false	true

## Approach

CA PC app with following characteristics

- uses DA REST calls to retrieve component information and component retired information
- uses CA PM OpenAPI to query interface specific attributes
- Uses DataTables graphics library
- Can live on device or interface context page
- The following component attributes are included:
  - o DA component ID (in device context with hyperlink to the component context page)
  - o Name
  - o Description
  - o Name Alias (interfaces)
  - o Interface alias (interfaces)
  - o Optional: custom attribute (interfaces)
  - o OperStatus (interfaces)
  - o Metric Family name
  - o Vendor Cert name
  - o IsPresent
  - o IsFiltered
  - o IsPolled

## Prerequisites

CA PM 3.5. The app retrieves the AlternateName for interfaces which is new to 3.5.

## Installation

The app is packed in a ZIP archive and can be installed through CA PM 3.2+ App Deployment function.

1. Download the master zip archive on your workstation
2. extract DevComplInventory.zip
3. Under CA PC Administration -> App Deployment, select DevComplInventory.zip and install it.
4. Navigate e.g. to a device context page.
5. Add a context tab, name it e.g. Components
6. 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.
7. If needed, add any interface custom attribute as a parameter to the URL definition

### App view parameters:

#### Default:

#### URL:

*/pc/apps/user/DevComplInventory/DevComplInventory.html?id={ItemIdDA}&ItemTypeName={ItemTypeName}&limit=1000*

which consists of

- *id={ItemIdDA}* page context (device OR interface item ID DA)
- *ItemTypeName={ItemTypeName}* page context type
- *limit=1000* query limit: the number of rows retrieved
- optionally, if a custom attribute is defined for interfaces:
  - o *ca1=ConnectsTo* custom attribute
  - o *ca1Label=Connects To* custom attribute label

Height: 600 default for device context

Height: 80 sufficient view height in interface context

URL Example with custom attribute:

*URL:/pc/apps/user/DevComplInventory/DevComplInventory.html?id={ItemIdDA}&limit=1000&ca1=ConnectsTo&ca1Label=Connects To*

## NOTES

- The app is provided as an example and no warranties are provided or made
- 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> )