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

In interface context, it will only display a single line

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:
  - DA component ID (in device context with hyperlink to the component context page)
  - Name
  - Description
  - Name Alias (interfaces)
  - Interface alias (interfaces)
  - Optional: custom attribute (interfaces)
  - OperStatus (interfaces)
  - Metric Family name
  - Vendor Cert name
  - IsPresent
  - IsFiltered
  - 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 DevCompInventory.zip
3. Under CA PC Administration -> App Deployment, select DevCompInventory.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/DevCompInventory/DevCompInventory.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:
  - ca1=ConnectsTo   custom attribute
  - 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/DevCompInventory/DevCompInventory.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)