

ODLUX DB API Guilin Extension

For Guilin inventory tree view extension ([ODLUX Inventory enhancement with treeview](#)) the data-provider ([Data-Provider](#)) is getting a new extension.

Goal:

- Provide a function to analyse a database with inventory entries
- Provide filter function to filter on device level or inside device at different tree-level
- The function provides back tree lists of inventory id's according to given filter
- Additionally a correlation to equipment alarm severity is provided.
- The id's of the result can be used for data-provider's request to get the concrete data

Characteristics:

- Additional API with URL for POST "/tree/read-inventory-tree"
- The request provides back a list of equipment id's according to the request filter
- Two filter levels:
 1. URL path : Points to a subtree of elements that are search by filter in query-body
 2. query-body with textual or field specific search.
- Delivers back all inventory **id's** for the given URL/path query-body filter
- Use data-provider api "inventoryequipment" to get inventory data for an id

Extension of data-provider Web-API in Guilin:

request	Scope to apply query-body to	key-level-0
GET POST /tree/read-inventory-tree/	All equipment entries in the database for every node-id	node-id
GET POST /tree/read-inventory-tree/{nodeId}	All Equipment under node with "nodeId"	uuid (tree-level=0)
GET POST /tree/read-inventory-tree/{nodeId}/{uuid-level-0}	All Equipment under node "nodeId" and next level equipment with "uuid-level-0"	uuid (tree-level=1)

Example 1: Query-body with text if POST-request

```
{
  "query": "2143524123"
}
```

Example 2: Converted to an database (Elasticsearch) query (search through all properties)

```
POST /alias/doctype/_search
{
  "query": {
    "query_string": {
      "default_field": "*",
      "query": "*searchfor*"
    }
  }
}
```

Example 3: Response

```
{
  "{key-level-0}": {
    "label": "1.0 Shelf",
    "children?": {
      "{key-level-1}": {
        ...
      }
    },
    "isMatch": true,
    "ownSeverity?": "major",
    "childrenSeveritySummary?": "minor"
  }
}
```

property	description
{key-level-n}	databaseId to be used for data-provider api "inventoryequipment" to get all information
isMatch	true if query matches any property of the db entry
label	Node-Id if it's a node, uuid if it's an equipment

for future use:

property	description
ownSeverity	Actual severity of this piece of matching equipment
childrenSeveritySummary	Actual severity level of child equipment