

Big Search: Display Complex CU's

Description: Search results in Big Search should also show Complex CU's. Currently they are excluded.

Example attached with Screenshot

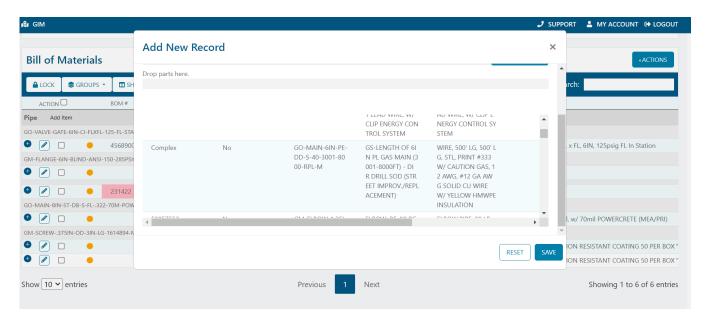
• Example of complex CU

| Major Components Add Item | | | | | | | | |
|---------------------------|----------|--------|--------------------------|---------------------|--|--|--|--|
| GM-BLOW-OFF-0.50IN-IPS-M | | | | | | | | |
| • 🕜 🗆 • | complex | 1.0000 | GM-BLOW-OFF-0.50IN-IPS-M | BLOW OFF 0.50IN IPS | | | | |
| | 50056723 | 1.0000 | GM-BLOW-OFF-0.50IN-IPS-M | BLOW OFF 0.50IN IPS | | | | |
| • • | 1553205 | 1.0000 | GM-BLOW-OFF-0.50IN-IPS-M | BLOW OFF 0.50IN IPS | | | | |
| | 1556281 | 1.0000 | GM-BLOW-OFF-0.50IN-IPS-M | BLOW OFF 0.50IN IPS | | | | |

Example of how it currently shows up in Big Search. No indication that it is a complex CU and no list of the additional parts included in the complex CU



Analysis: I did the analysis based on the screenshot attached as shown in example so I found that how the complex CU's are displayed on a particular Design so when we click on design Id -> design number(15804) -> AddItem -> Inside the Add New Record -> Click on Filter table from here I analysis that how they are displaying the Complex CU's as shown below:



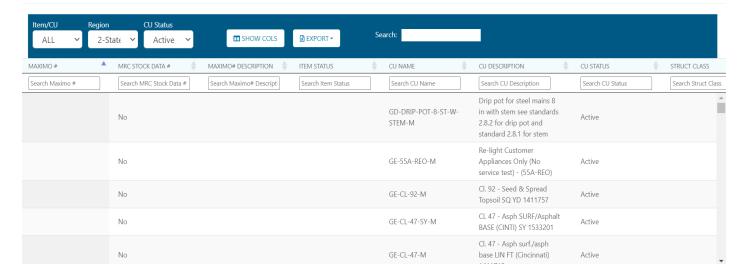
Conclusion: When the user click on Filter Table then in the backend (/ehubMaterialList) is called First they getting all the duplicates CU name -> then get only one CU name from duplicate List ad finally setting the itemNum as Complex as shown below:

```
SA added 08-21-2019 method
@RequestMapping(value = "/ehubMaterialList", method=RequestMethod. POST, produces = "application/json", consumes = "application/json")
  public @ResponseBody List<Bomv2AddRowMaterialDTO> ehubMaterialList (@RequestBody GenericMessageRequest request,Model model) {
      logger.debug("Starting ehubMaterialList()..");
      Instant processingStart = Instant.now();
      String region = (String) request.getData().get("region");
      List<Bomv2AddRowMaterialDTO> dataList=ehubGIMCompatibleUnitMaterialDao.getAllByFilter("ALL", region);
      //List<Bomv2AddRowMaterialDTO> dataList1=ehubGIMCompatibleUnitMaterialDao.getAllByFilter("ALL", region);
      /*List<Bomv2AddRowMaterialDTO> finalList = Stream.concat(dataList.stream(), getComplexByItemNumForMultiCU().stream()).collect(Collectors.toList());*/
      List<Bomv2AddRowMaterialDTO> LabordataList1=ehubCompatibleUnitDao.getAllByFilterLabor("ALL");
      dataList.addAll(LabordataList1);
      List<Bomv2AddRowMaterialDTO> duplicates =dataList.stream().collect(Collectors.groupingBy(p->p.getCompatibleUnitName(),Collectors.toList()))
              .values().stream().filter(i->i.size()>1).flatMap(j->j.stream()).collect(Collectors.toList()); //get duplicate cu name
      List<Bomv2AddRowMaterialDTO> unique= duplicates.stream()
      .collect(Collectors.collectingAndThen(Collectors.toCollection(() -> new TreeSet<>(Comparator.comparing(Bomv2AddRowMaterialDTO::getCompatibleUnitName,String
                                 ArrayList::new)); //get only one cu name from duplicate list
      unique.stream().forEach(u -> u.setItemNum("Complex")); //Set itemnum as Complex
```

Solution: So after click on BigSearch it will triggere the backend control with an API name (/getAllItemsFromEhub) as shown below:

The Big Kahuna Parts Search

CLOSE



So In the Controller method I did the changes that getting all the duplicates CU name & then get only one CU name from duplicate List & then set the ItemNum as "Complex" as shown below:

RESULT:

The Big Kahuna Parts Search

CLOSE

| Item/CU Region ALL Y AL | | ☐ SHOW COLS ☐ EX | XPORT → Searce | h: | | |
|-------------------------|-------------------------|---|---|--|--|--------|
| MAXIMO# | MRC STOCK DATA # | MAXIMO# DESCRIPTION ITEM | M STATUS $\qquad \qquad \qquad$ | CU NAME | CU DESCRIPTION | CU ST. |
| Search Maximo # | Search MRC Stock Data # | Search Maximo# Descripti | earch Item Status | Search CU Name | Search CU Description | Searc |
| Complex | No | | | GM-COUPLING- 1/2INCTS-ELEC-FUS- PE4710-ASTMD2513- F1055-P | COUPLING, PIPE, 1/2IN CTS, ELECTROFUSION, PE 4710, ASTM D2513, F1055, ELECTROFUSION X ELECTROFUSION, 4.0MM | Penc |
| Complex | No | POST, DRIVE, 30 INCHES IN LENGTH, F/ GAS SERVICE RISER, STL, DRIVE | | GD-NEW-1IN-PE-CM- FS-150-250-M | 1IN CTS Service C-M Free Standing Meter 150 to 250 Feet | Inact |
| Complex | No | POST, DRIVE, 30 INCHES IN LENGTH, F/ GAS SERVICE RISER, STL, DRIVE | | GD-NEW-1IN-PE-CM- FS-0-75-M | 1IN CTS Service C-M Free Standing Meter 0 to 75 Feet | Inact |
| Complex | No | POST, DRIVE, 30 INCHES IN LENGTH, F/ GAS | | GD-NEW-1IN-PE-CM- | 11M CTS Sanica C-M Fron Standing Mater 75 to 150 Foot | Inact |