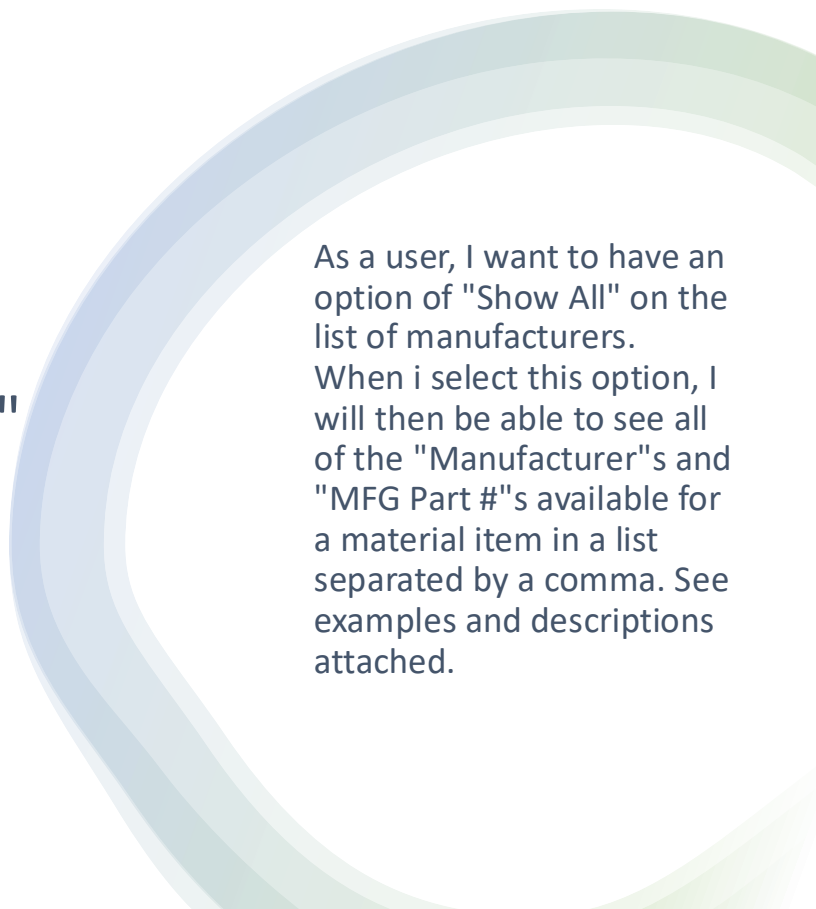




CADT – 1630 BOM/Designs : "Show All" Option for Manufacturer Info



As a user, I want to have an option of "Show All" on the list of manufacturers. When i select this option, I will then be able to see all of the "Manufacturer"s and "MFG Part #"s available for a material item in a list separated by a comma. See examples and descriptions attached.

Analysis: While doing the Export from the Table let us suppose if we are going to download an CSV file from the Export option so here we want like when the user choose an option called *ShowAll* from the dropdown list then after that while doing an Export inside the CSV file under the Manufacturer column we want to display all the Manufacturer items with comma separated before this there is one option is present only *multiple* option is present and one by one Manufacturer item so here when user select an *multiple* option from the list then while doing an Export under the Manufacturer column he only saw the like *multiple* but here the need is we have to display the *showAll* option under the list and when user select this option we have to display all the Manufacturer items rather than showing one by one or as *multiple* as I attached an screen shot below:

GIM							SUPPORT	MY ACCOUNT	LOGOUT
Bill of Materials							+ ACTIONS		
LOCK GROUPS SHOW COLS EXPORT DELETE							Search:		
ACTION BOM # MAXIMO # QTY COMPATIBLE UNIT #									
Fittings Add Item									
GM-NIPPLE-1.5IN-4.5IN-M									
GM-ELBOW-4IN-CONDUIT-SWEEP-90-M									
Valves Add Item									
GO-MAIN-4IN-ST-DB-S-D-237-1001-2000-STI-M									
GM-REDUCER-8INX4IN-Y52-WELD-CONCENTRIC-M									
Miscellaneous									
GM-FLANGE-WELD-FF-12IN-STL-A105-B16.5 1614616-M									

Conclusion: Let us suppose here if we are going to add an Item into the table then on the Add New Record popup window it is showing as two Manufacturer names are present so when we are going to select the two manufacturer from the list of available Manufacturer items then we are able to view the option as **multiple** in the dropdown list.

Add New Record

Drop parts here.

Yes	GO-VALVE-PLUG-75N-FNPT-CS-BODY-LEVER-API-6D-M	VALVE-PLUG, 3/4" NPS, CLASS 600, FNPT, CS BODY, DM-ST-2080, LEVER, REGULAR PATTERN, PRESSURE BALANCED, API 6D	VALVE-PLUG, 3/4" NPS, CLASS 600, FNPT, CS BODY, DM-ST-2080, LEVER, REGULAR PATTERN, PRESSURE BALANCED, API 6D	NORDSTROMAU SERCKAUDCOVA
No	GM-PRESSURE-STEM-2IN-PE-PIPE	Install Pressure Stem on 2IN Plastic Pipe	PIPE, 1" CTS, EXTRUDED, 1" CTS, 0.099"	

RESET SAVE

Add New Record

VALVE-PLUG, 3/4" NPS, CLASS 600, FNPT, CS BODY, DM-ST-2080, LEVER, REGULAR PATTERN, PRESSURE BALANCED, API 6D

Finno Codes

Manufacturer: *multiple*

Model

MFG PART#

SERCKAUDCOVA

NORDSTROMAU

RESET SAVE



So here after selectin the option as *multiple* from the dropdown and after saving the data into the BOM table then if we are going to select an EXPORT from the top then we can find CSV , Excel & Pdf option are listed below then suppose if we select an option as CSV then after downloading the sheet we can find only *multiple* is visible under the Manacturer column I will attached an screenshot below:

Bill of Materials

LOCK

GROUPS

SHOW COLS

EXPORT

DELETE

ACTION	BOM #	MAX	QTY	COMPATIBLE UNIT #
Fittings Add Item				
1/4-NIPPLE-1.5IN-4.5IN-M				
			5001	
1/4-ELBOW-4IN-CONDUIT-SWEEP-90-M				
			50110650	
Valves Add Item				
1/2-MAIN-4IN-ST-DB-S-D-237-1001-2000-STI-M				
			1551335	
1/2-REDUCER-8INX4IN-Y52-WFLD-CONCENTRIC-M				

Group	BOM #	Maximo #	Qty	Compatibl	CL#	Descr	Maximo#	Descr1	Manufacturer	Model	Mfg. Part	Ordering	Ordering	Finwo	Coc	MRC	Stod	Is	SendTo
Fittings		50056766	1	GM-NIPPL		NIPPLE,PIF	NIPPLE,PIPE,1-1/4	PROFLO			IBNR					No		T	
Fittings		50110650	1	GM-ELBO		ELBOW,CC	ELBOW,CONDUIT	*multiple*								No		T	
Valves		1551335	1	GO-MAIN		MAIN 4IN	PIPE, 4" NPS, 4"	I WHEATLANDTUB,AMERICAN								Yes		T	
Valves		1554011	1	GM-REDU		REDUCER, REDUCER,PIPE, CHACKNEYLADIS,TECTUBIRACCO,HACKNEYLADIS										Yes		T	
Valves		1556721	1	GO-VALVE		VALVE,PULV	VALVE,PLUG, 3/4"	*multiple*								Yes			
Miscellaneous		1614616	1	GM-FLAN		FLANGE,PI	FLANGE,PIPE, WIGALPERT,HACKNEYLADIS									No		T	
Miscellaneous		1551340	1	GO-MAIN		MAIN 6IN	PIPE, 6" NPS, 6"	*multiple*								Yes		T	
Miscellaneous		1551464	1	GM-NIPPL		NIPPLE,PIF	NIPPLE,PIPE, SEALUNKNOWN, WESTBROOKMAN									Yes		T	
Miscellaneous		1551341	1	GO-MAIN		Length of	PIPE, 8" NPS, 8"	*multiple*								No		T	
Long Lead		1474255	1	GM-CLAM		CLAMP,PHI	CLAMP,PIPE REP	DRESSERPIPI			0118-0306-009					No			

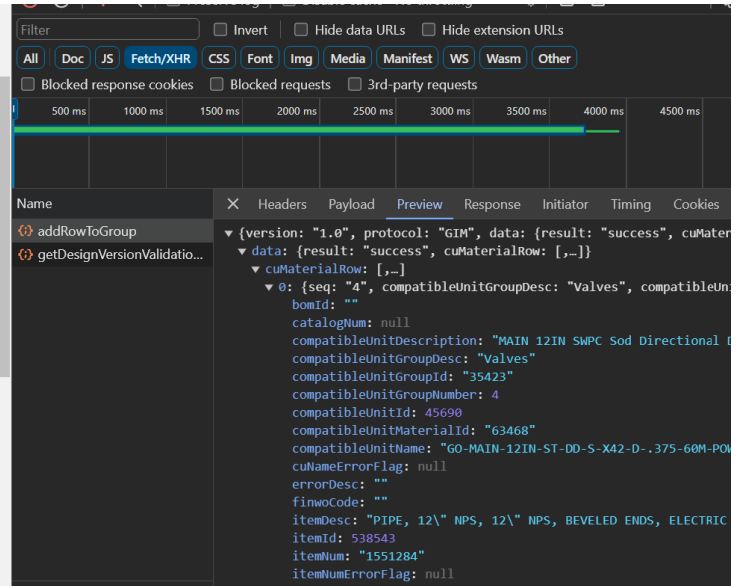
Solution: I have to add the option as *showAll* in the list of Manufacturer names so then user select this and do the export then he finds the list of Manufacturer names with comma separated and this should be applicable only if when there are multiple Manufacturer are there as shown below:

```
    }
    else
    {
        $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('textarea[id="orderInstr"]').val(""); //$('#orderInstr').val("");
    }
});

//SA 09-30-2019 multiple design issue
$.post("getMultipleManufacturersBYItemNum",
{
    'itemNum': (itemNum),
    function(response) {
        console.log(response);
        $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').empty();
        if(response.length==0)
        {
            console.log($("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').length);
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').append('<option value=""></option>').selectpicker('render').selectpicker('refresh');

            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('input[id="model"]').val(' ');
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('input[id="mfgPartNum"]').val(' ');
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').val(' ');
        }
        else if(response.length>1)
        {
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').append('<option selected>*multiple*</option>','<option>*Show All*</option>');
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('input[id="model"]').val(' ');
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('input[id="mfgPartNum"]').val(' ');
            for (var i=0; i<response.length; i++) {
                $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').append('<option id="'+response[i].modelNumber+'" data-info="'+response[i].mfgName+'">'+response[i].mfgName+'</option>');
            }
        }
        else
        {
            $("#addNewRecordBOMV2Form_"+addNewRecordDesignId).find('select[id="mfgName"]').append('<option value=""></option>');
        }
    }
});
```

Bill of Materials						+ ACTIONS		
LOCK	GROUPS ▾	SHOW COLS	EXPORT ▾	DELETE	Search: <input type="text"/>			
ACTION	GROUP	BOM #	MAXIMO #	QTY				
Fittings Add Item								
	Fittings		50056766	1.0000				
4-NIPPLE-1.5IN-4.5IN-M								
	Fittings		50110650	1.0000				
4-ELBOW-4IN-CONDUIT-SWEEP-90-M								
Valves Add Item								
	Valves		1551335	1.0000				
2-MAIN-4IN-ST-DB-S-D-237-1001-2000-STI-M								
	Valves		1554011	1.0000				
4-REDUCER-8INX4IN-V52-WELD-CONCENTRIC-M								
	Valves		1556721	1.0000				
2-VALVE-PLUG-.75IN-FNPT-CS-BODY-LEVER-API-6D-M								
	Valves		1551284	1				
2-MAIN-12IN-ST-DD-S-X42-D-375-60M-POWER-M								
	Valves							



And here we can find that in the response which returned by /addrowTogroup controller endpoint we found that "mfgName:" "*multiple*" as multiple is showing but here I want to return as a response as comma separated list of Manufacturer names when user select as *showAll* option from the dropdown list:

Bill of Materials

+ ACTIONS

LOCK

GROUPS

SHOW COLS

EXPORT

DELETE

Search:

ACTION

GROUP

BOM #

MAXIMO #

QTY

Fittings

Add Item

GM-NIPPLE-1.5IN-4.5IN-M

Fittings

50056766

1.0000

GM-ELBOW-4IN-CONDUIT-SWEEP-90-M

Fittings

50110650

1.0000

Valves

Add Item

GO-MAIN-4IN-ST-DB-S-D--237-1001-2000-STI-M

Valves

1551335

1.0000

GM-REDUCER-8INX4IN-Y52-WELD-CONCENTRIC-M

Valves

1554011

1.0000

GO-VALVE-PLUG-.75IN-FNPT-CS-BODY-LEVER-API-6D-M

Valves

1556721

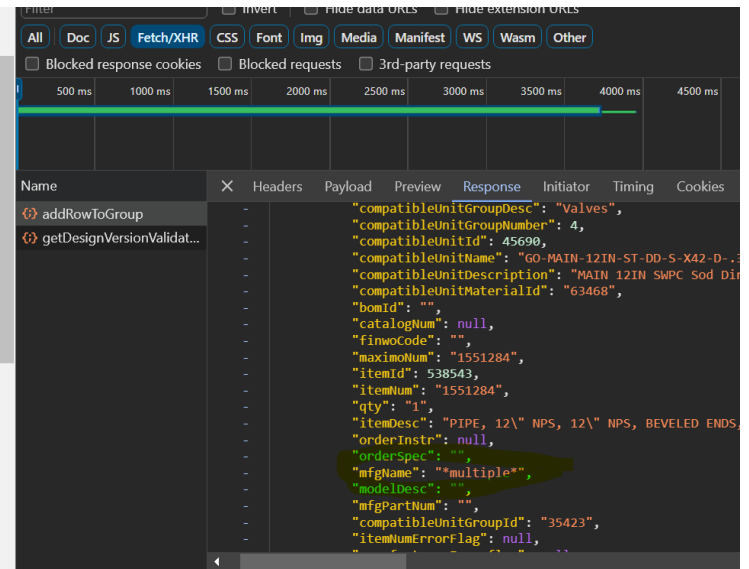
1.0000

GO-MAIN-12IN-ST-DD-S-X42-D-.375-60M-POWER-M

Valves

1551284

1



So here in the Controller method for /addRowToGroup

```
*/
@RequestMapping(value = "/addRowToGroup", method = RequestMethod.POST, produces = "application/json", consumes = "application/json")
public @ResponseBody GenericMessageResponse addRowToGroup(@RequestBody GenericMessageRequest request,
    HttpSession session) {

    Logger.debug("Starting addRowToGroup(..");
    Logger.debug("Request which is coming---->" + request.toString());
    //System.out.println(request.getFieldAsObject("bomdata"));
    GenericMessageResponse response = new GenericMessageResponse("1.0", "GIM", "addRowToGroup");
    UserTim userTim = (UserTim) session.getAttribute("userTim");
    ObjectMapper mapper = new ObjectMapper();
    Bomv2AddRowMaterialDTO bomv2AddRowMaterialDTO = null;
    try {
        bomv2AddRowMaterialDTO = mapper.readValue(request.getFieldAsString("bomdata"),
            Bomv2AddRowMaterialDTO.class);
    } catch (JsonParseException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (JsonMappingException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }

    int cuGroupId = request.getFieldAsInt("cuGroupId");
    Logger.debug("cuGroupId ->: " + cuGroupId);
    int cuMaterialId = request.getFieldAsInt("cuMaterialId");
    Logger.debug("cuMaterialId ->: " + cuMaterialId);
    String itemNum = request.getFieldAsString("itemNum");
```


So as this is the class which is taken as the response data which is return to the server as shown below in the screenshot:

```
*/
@RequestMapping(value = "/addRowToGroup", method = RequestMethod.POST, produces = "application/json", consumes = "application/json")
public @ResponseBody GenericMessageResponse addRowToGroup(@RequestBody GenericMessageRequest request,
    HttpSession session) {

    logger.debug("Starting addRowToGroup(..");
    logger.debug("Request which is coming--->" + request.toString());
    //System.out.println(request.getFieldAsObject("bomdata"));
    GenericMessageResponse response = new GenericMessageResponse("1.0", "GIM", "addRowToGroup");
    UserTim userTim = (UserTim) session.getAttribute("userTim");
    ObjectMapper mapper = new ObjectMapper();
    Bomv2AddRowMaterialDTO bomv2AddRowMaterialDTO = null;
    try {
        bomv2AddRowMaterialDTO = mapper.readValue(request.getFieldAsString("bomdata"),
            Bomv2AddRowMaterialDTO.class);
    } catch (JsonParseException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (JsonMappingException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }

    int cuGroupId = request.getFieldAsInt("cuGroupId");
    logger.debug("cuGroupId ->: " + cuGroupId);
    int cuMaterialId = request.getFieldAsInt("cuMaterialId");
    logger.debug("cuMaterialId ->: " + cuMaterialId);
    String itemNum = request.getFieldAsString("itemNum");
```

As shown here what I have did like whenever user select an option as *showAll* from the dropdown list from the available list of manufacturer items so the controller point will move here and check the condition like if bomv2AddRowMaterialDTO.getMfgname().equalsIgnoreCase(*showAll*) then it will move inside the if condition and then what I have did like I have taken the List and there I am getting the All the ManufacturerByItemNum based on the itemNum then using for loop I have append those names as comma separated one by one from the list to StringBuilder object then I have return those commaseperated as an String as shown in the code and then I have set MfgName as commaSeperatedManufacturerNames as shown below:

```

    }
    if(bomv2AddRowMaterialDTO.getMfgName() != null && bomv2AddRowMaterialDTO.getMfgName().equalsIgnoreCase("**Show All**")) {
        List<EhubItemRequest> ehubItemRequestList = ehubCompatibleUnitMaterialDao.getManufacturerByItemNum(itemNum);

        StringBuilder manufacturerNamesBuilder = new StringBuilder();

        for(EhubItemRequest ehub: ehubItemRequestList) {
            logger.debug("EhubRequestList--->" + ehub.getManufacturerName());

            manufacturerNamesBuilder.append(ehub.getManufacturerName()).append(",");
        }

        if(manufacturerNamesBuilder.length() > 0 ) {
            manufacturerNamesBuilder.setLength(manufacturerNamesBuilder.length() - 1);
        }

        String commaSeparatedManufacturerNames = manufacturerNamesBuilder.toString();
        compatibleUnitMaterial.setCompatibleUnitGroup(compatibleUnitGroup);
        compatibleUnitMaterial.setCompatibleUnit(compatibleUnit);
        compatibleUnitMaterial.setItemNum(bomv2AddRowMaterialDTO.getItemNum());
        compatibleUnitMaterial.setBomNum(bomv2AddRowMaterialDTO.getBomNum());
        compatibleUnitMaterial.setCatalogNum(bomv2AddRowMaterialDTO.getCatalogNum());
        //compatibleUnitMaterial.setOrderInstr(bomv2AddRowMaterialDTO.getOrderInstr());
        compatibleUnitMaterial.setOrderSpec(bomv2AddRowMaterialDTO.getOrderSpec());
        compatibleUnitMaterial.setMaterialQty(new BigDecimal(bomv2AddRowMaterialDTO.getQty()));
        compatibleUnitMaterial.setMfgName(commaSeparatedManufacturerNames);
        compatibleUnitMaterial.setModelDesc(bomv2AddRowMaterialDTO.getModel());
        compatibleUnitMaterial.setMfgPartNum(bomv2AddRowMaterialDTO.getMfgPartNum());
    }

```

And here I am saving the data into the compatibleunitMaterial table rather than saving as *showAll* I have save all the Manufactrer names with comma separated- as shown below:

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays a list of tables under the 'Tables' folder, including 'CompatibleUnitMaterial'. The main window shows a SQL query window with the following query:

```

SELECT TOP (1000) [CompatibleUnit_Material_Id]
, [CompatibleUnit_Group_Id]
, [BOM_Num]
, [Catalog_Num]
, [Item_Id]
, [Item_Num]
, [Item_Desc]
, [Order_Instr]
, [Order_Spec]
, [Mfg_Name]
, [Model_Desc]
, [Mfg_PartNum]
, [Create_User_Id]

```

The results of the query are displayed in a table with the following columns: er_Instr, Order_Spec, Mfg_Name, Model_Desc, Mfg_PartNum, Create_User_Id, and Create_ts. The results show data for rows 482 through 490.

er_Instr	Order_Spec	Mfg_Name	Model_Desc	Mfg_PartNum	Create_User_Id	Create_ts
482		BONNEYFORGEC,		39850	dgarc5	2019-09-25 19:38:1
483		Bonney Forge	THREDOL...	G1900114-2	dgarc5	2019-09-25 19:38:1
484		UNKNOWN,		1551461	dgarc5	2019-09-25 19:38:1
485		CONBRACOINDU,		73A-143-24...	dgarc5	2019-09-25 19:38:1
486		GEAPROCESS GREENVILLE...		80-451965...	dgarc5	2019-09-25 19:38:1
487		SWAGELOCKCO.SWAGELOK...		SS-600-1-4...	dgarc5	2019-09-25 19:38:1
488		SANDVIK		67220226	dgarc5	2019-09-25 19:38:1
489		Bonney Forge	THREDOL...	G1900114-2	dgarc5	2019-09-25 19:38:1
490		ROSFMOI INTINC,		00914050T	dgarc5	2019-09-25 19:38:1

The status bar at the bottom indicates: Query executed successfully. tcp://WCNC16F55DBD01.51433 (1... GIMDEV (198) GIMDB Dev 00:00:00 1,000 rows

```

compatibleUnitMaterial.setItemId(bomv2AddRowMaterialDTO.getItemId());
compatibleUnitMaterial.setItemDesc(bomv2AddRowMaterialDTO.getItemDesc());

compatibleUnitMaterial.setCreateUserId(userTim.getLoginId());
// Get the Next RowNum Seq
compatibleUnitMaterial.setRowNumber(wrkRowSeq + 1);
}
// InsertOrUpdate Compatible Unit
if (compatibleUnitMaterial != null && wrkRowSeq == 0) {
    compatibleUnitMaterialService.update(compatibleUnitMaterial);
} else {
    compatibleUnitMaterialService.save(compatibleUnitMaterial);
}

```

Result: And now here this time when I have choose the *showAll* option from the list of dropdown option then hit save then this /addRowToGroup controller endpoint has return the response as as hown in the screenshot as “mfgName:” “UNKNOWN , IPSOINIC” with comma separated list of available manufacturer Items.

Bill of Materials

LOCK

GROUPS

SHOW COLS

EXPORT

DELETE

Search:

ACTION

GROUP

BOM #

MAXIMO #

QTY

Fittings

Add Item

GM-NIPPLE-1.5IN-4.5IN-M

Fittings

50056766

1.0000

GM-ELBOW-4IN-CONDUIT-SWEEP-90-M

Fittings

50110650

1.0000

Valves

Add Item

GO-MAIN-4IN-ST-DB-S-D-237-1001-2000-STI-M

Valves

1551335

1.0000

GM-REDUCER-8INX4IN-Y52-WELD-CONCENTRIC-M

Valves

1554011

1.0000

GO-VALVE-PLUG-.75IN-FNPT-CS-BODY-LEVER-API-6D-M

Valves

1556721

1.0000

GO-MAIN-12IN-ST-DD-S-X42-D-375-60M-POWER-M

Valves

1551284

1

GO-MAIN-2IN-ST-DR-P-D-X52-MFA-M

Filter

All

Doc

JS

Fetch/XHR

CSS

Font

Img

Media

Manifest

WS

Wasm

Other

Blocked response cookies

Blocked requests

3rd-party requests

500000 ms

1000000 ms

1500000 ms

2000000 ms

2500000 ms

Name

Headers

Payload

Preview

Response

Initiator

Timing

Cookies

addRowToGroup

-

-

-

"bomId": "",

getDesignVersionValidat...

-

-

"catalogNum": null,

getItemOrderInstr

-

-

"finwoCode": "",

getMultipleManufacture...

-

-

"maximoNum": "1552396",

addRowToGroup

-

-

"itemId": "539601,

getDesignVersionValidat...

-

-

"itemNum": "1552396",

-

-

"qty": "1",

-

-

"itemDesc": "PIPE, 2\" NPS, 2\" NPS, DBL RANDOM

-

-

"orderInstr": null,

-

-

"orderSpec": "",

-

-

"mfgName": "UNKNOWN,IPSCOINC",

-

-

"modelDesc": "",

-

-

"mfgPartNum": "",

-

-

"compatibleUnitGroupId": "35423",

-

-

"itemNumErrorFlag": null,

-

-

"manufacturerErrorFlag": null,

-

-

"cuNameErrorFlag": null,

-

-

"parentCUMaterialId": null,

-

-

"mrcStockData": "Yes",

-

-

"errorDesc": "",

-

-

"sendToMaximo": null,

And here finally when I am going to Export the file we find like having comma separated list of Manufacture names

[illegible]