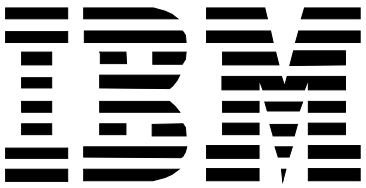

Hardware Configuration Manager

User's Guide Update

OS/390 2.7.0 HCM Service Level 3

OS/390 2.4.0 HCM Service Level 8

HCM for MVS 1.1.0 Service Level 18

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Preface

This update applies to the User's Guide of OS/390 2.7.0 Hardware Configuration Manager SC33-6595-01 for PTFs UR90314 (HCM 2.7.0 Service Level 3), OS/390 2.4.0 Hardware Configuration Manager SC33-6595-00 for PTFs UR90312 and UR90313 (HCM 2.4.0 Service Level 8), and Hardware Configuration Manager 1.1.0 SC33-6469-00 for PTFs UR90315 and UR90316 (HCM 1.1.0 Service Level 18).

With HCM 2.7.0 SL 3, HCM 2.4.0 SL8, and HCM 1.1.0 SL 18 it is possible to save the list of objects in the *Edit* and *Locate* menu to a file in format, that can be used by a spreadsheet program (like *Lotus 1-2-3*). Together with the capabilities of the enhanced Filter mechanism in the *Locate* and *Edit* menu (see also OS/390 2.4.0 HCM User's Guide Update for Service Level 2 and HCM for MVS Version 1.1.0 User's Guide Update for Service Level 16), this allows to create reports of an HCM configuration according to the user specified criteria. To guide you through these capabilities, this update to the HCM User's Guide is provided.

This update contains information that either enhances or replaces parts of the HCM User's Guide.

This document is available from the HCM home page on the Internet:

http://www.ibm.com/s390/hcm/

Please, see also the EEQREAD.ME file of HCM which resides on the HCM product directory.

Introduction

To browse properties or to change (edit) properties of a particular object stored in HCM the object can be selected directly in the diagram. Sometimes the desired object can not be seen or it is not displayed in the diagram as it is not part of the current view. If the desired object can not be found in the diagram, a user can either use the *Locate* menu to include the object into the diagram and put it into the focus, so it can be selected for editing by double clicking or the user can use the *Edit* menu to select directly the object in order to edit it. In both cases, the *Locate* and *Edit* menu contain lists of objects of a particular class. Besides the object identifiers, there are also other useful properties of the objects listed. It is possible to include or exclude these additional properties of the listed objects so that the user has the possibility to determine himself which kind of information is useful for his purposes. The appearance of these object properties allows to identify an object easier if the user does not know exactly the object identifier of the desired object. The provided possibility to apply SQL like filter techniques to these lists helps to reduce the number of objects with regard to user chosen aspects (see also OS/390 2.7.0 Hardware Configuration User's Guide SC33-6595-01, page 42, or HCM 2.4.0 User's Guide Update of Service Level 2, or HCM 1.1.0 User's Guide Update for Service Level 16 for more details).

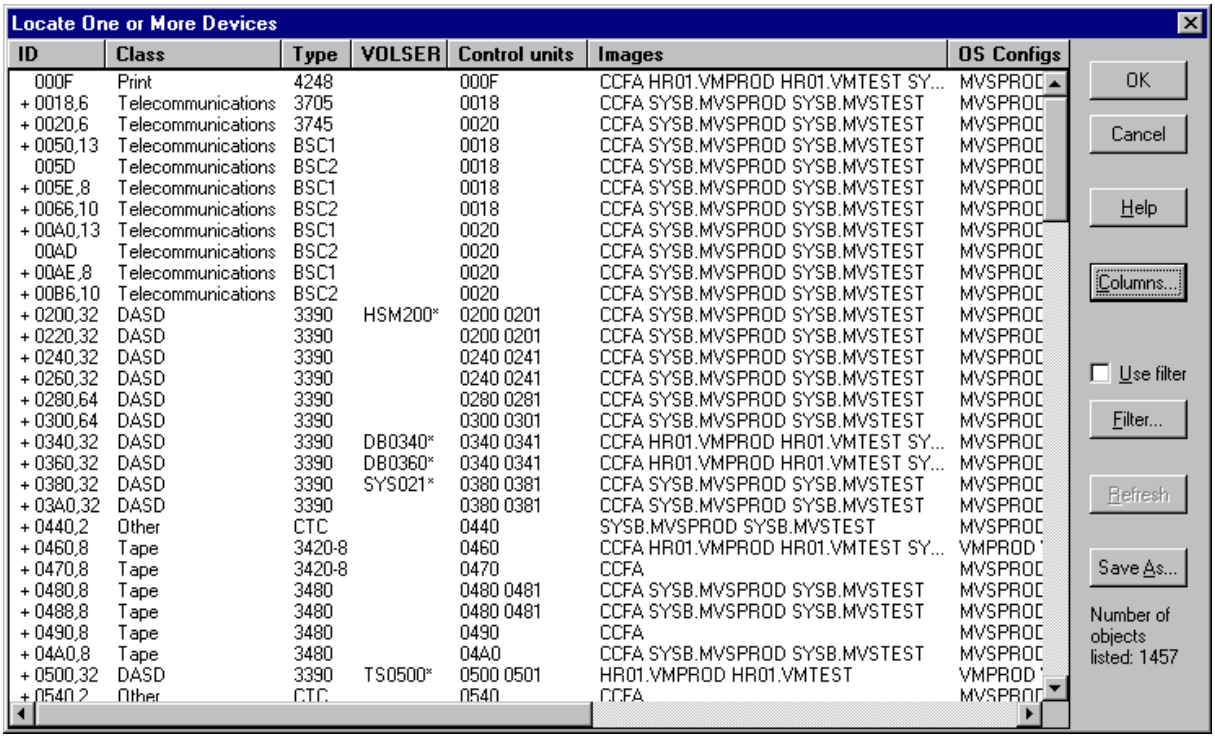
Originally, the lists in the *Edit* and *Locate* menu have been intended to be used to identify particular objects in the configuration. But soon, we recognized, that applying filters to these lists provide the possibility to create tailored reports: By including or excluding properties of objects in the list of objects and by applying specific filter criteria to the list, the user has the chance to create a list of objects of his configuration with just the information of his interest. Therefore, we decided to provide a way that these lists can be used for reporting purposes. According to some customer feedback which we have received, we found that we will not provide these lists in form of printed reports, but to save the lists in a file in a format which is compatible with usual spreadsheet programs (like *Lotus 1-2-3*). This allows customers to apply their own processes to the saved information and to manipulate these tables.

Save List Function

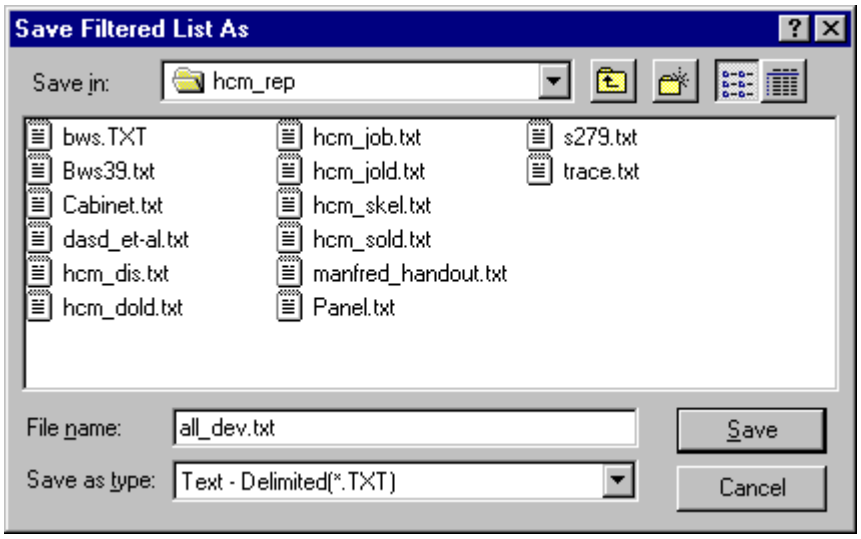
The *Edit* and *Locate* menu contain list of objects of a particular class. It is possible to apply filters to these lists, so that these lists can be of particular interest to the HCM user. Therefore we provide a new *Save* function on the *Edit* and *Locate* window for following objects:

Processor...	Control Unit...
Partition...	String...
CHPID...	Device...
Director...	Convertor...
Port...	Patchport...
Crossbar Switch...	Cabinet...
Controller...	Cable... (*Locate* menu only)

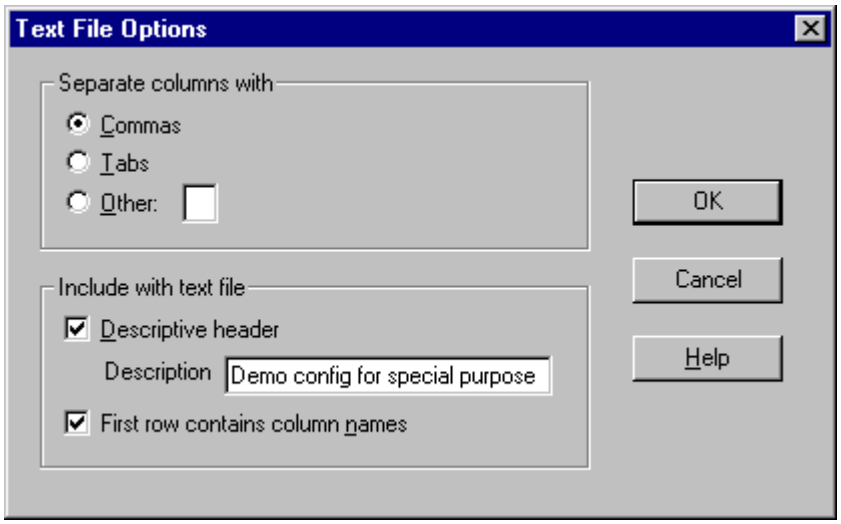
The *Edit object* and *Locate object* windows now contain a *Save As...* button. This new button allows to save all the listed objects including the displayed columns in a file. For your convenience we have also included the total *Number of objects* listed in the bottom right corner of the window.



After pressing the *Save As...* button, a dialog pops up in which you can determine the location and the file name in which the data has to be stored. Per default, the file extension *.TXT will be used. The location of the last saved folder will be remembered across HCM sessions.



After specifying a file name and pressing the *Save* button, a window will appear in which the



format of the stored data is to be determined.

In the *Separate Columns with* section you can determine which separator is to be used between the columns in the text file. The specified setting will be remembered for the length of an HCM session.

In the *Include with text file* section you can determine that a *Descriptive header* including a user specified *Description* (up to 254 characters) is to be included in the saved file. Further, with the option *First Row contains column names* you can determine whether a header text line for the column names is to be included before the data.

If a *Descriptive header* is to be included in the saved file, 15 lines will be added at the top of the file. In the following table you can see the content of each of these 15 lines:

Line	**Content**
1	Name of the HCM configuration
2	Name of the associated IODF
3	Date/time stamp of the creation of the file
4	Description (up to 254 characters for free text)
5	blank line
6	Selection criteria title
7 to 14	selection criteria
15	blank line

If a *Descriptive header* is to be included in the saved file, then the header for the column names resp. the data will be stored beginning in line 16.

Some Examples

In the following you will find some examples of saved files.

Example 1: With a Descriptive Header and No Filter has been Applied

Using *commas* as separator and requesting the *First row contains column names* as well as a *Descriptive header* and without applying a filter to the list in the *Locate One or More Devices* dialog (see above), the following file would be generated:

```
HCM configuration name: E:\hcm_demo\D27s3.hcr
IODF name: TH01.IODF23.H27S3.PROD
Created: 1999-06-03 14:01
Description: Demo config for special purpose

Select Device where
    All objects are listed
```

```
"ID","Class","Type","VOLSER","Control units","Images"
"000F","Print","4248","","000F","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD SYSB.MVSTEST"
"0018","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0019","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001A","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001B","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001C","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001D","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0020","Telecommunications","3745","","0020","CCFA SYSB.MVSPROD SYSB.MVSTEST"
...
"0200","DASD","3390","HSM200","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0201","DASD","3390","HSM201","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0202","DASD","3390","HSM202","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0203","DASD","3390","HSM203","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0204","DASD","3390","HSM204","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0205","DASD","3390","HSM205","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
...
```

Example 2: Without a Descriptive Header and No Filter has been Applied

Using *Commas* as separator and requesting the *First row contains column names* (but **no** *Descriptive header*) and without applying a filter to the list in the *Locate One or More Devices* dialog (see above), the following file would be generated:

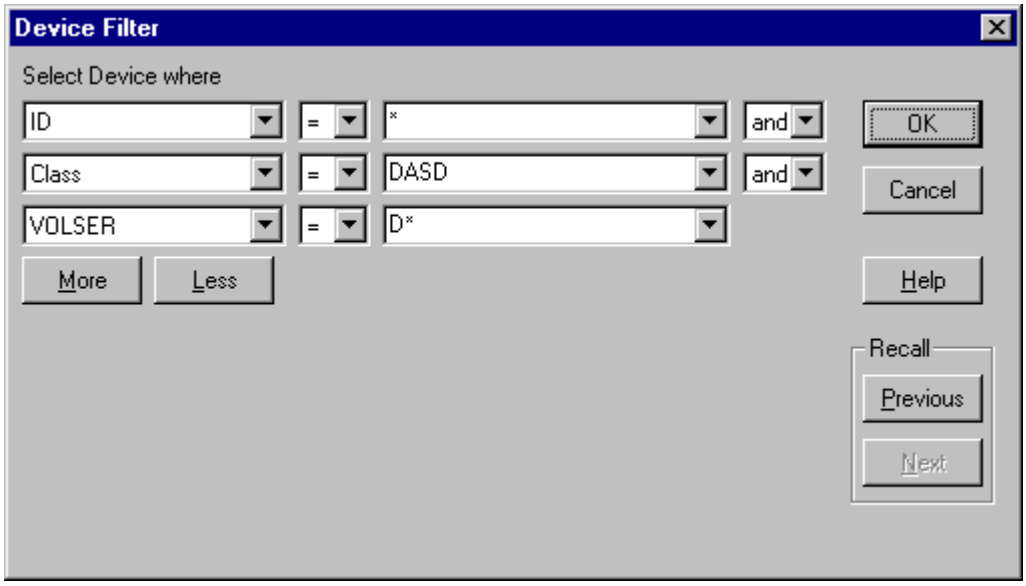
```
"ID","Class","Type","VOLSER","Control units","Images"
"000F","Print","4248","","000F","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD SYSB.MVSTEST"
"0018","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
```



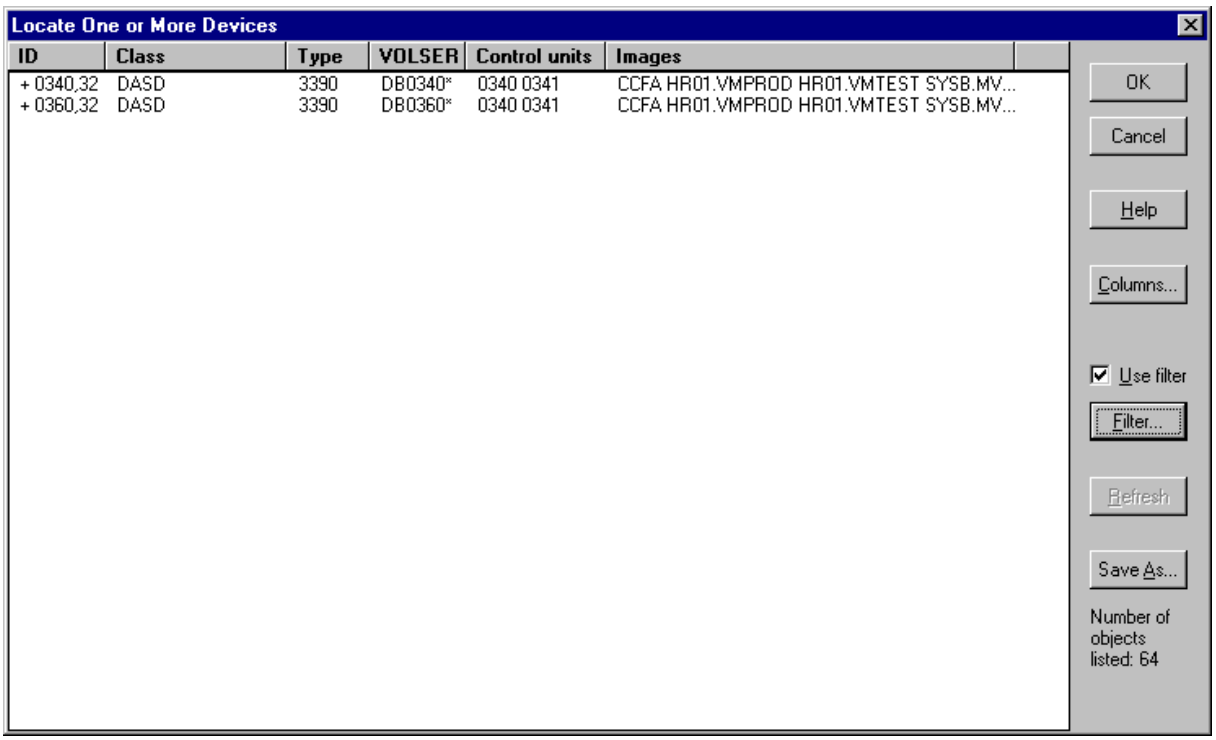
```
"0019","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001A","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001B","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001C","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"001D","Telecommunications","3705","","0018","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0020","Telecommunications","3745","","0020","CCFA SYSB.MVSPROD SYSB.MVSTEST"
...
"0200","DASD","3390","HSM200","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0201","DASD","3390","HSM201","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0202","DASD","3390","HSM202","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0203","DASD","3390","HSM203","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0204","DASD","3390","HSM204","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
"0205","DASD","3390","HSM205","0200 0201","CCFA SYSB.MVSPROD SYSB.MVSTEST"
...
```

Example 3: With a Descriptive Header and Filter has been Applied

The following Filter



has been applied to the list of devices (see above) to see only devices of the class DASD in the *Locate One or More Devices* dialog box which have a VOLSER starting with "D". Using this filter, the number of listed devices is reduced in the *Locate One or More Devices*.



Saving this list with commas as separator and including a *Descriptive header*, the following file would be generated:

```
HCM configuration name: E:\hcm_demo\D27s3.hcr
IODF name: TH01.IODF23.H27S3.PROD
Created: 1999-06-03 15:27
Description: Demo config for special purpose - only some DASD

Select Device where
    ID = "*" and
    Class = "DASD" and
    VOLSER = "D*"
```

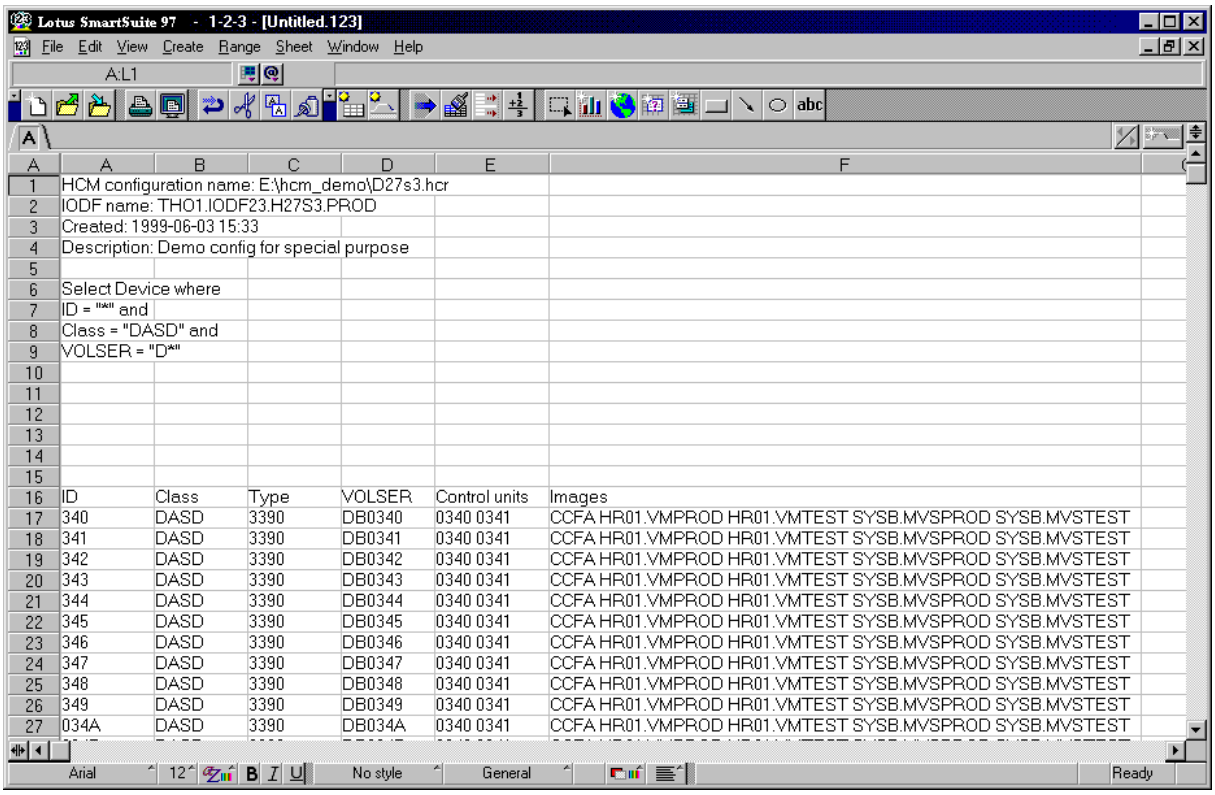
```
"ID","Class","Type","VOLSER","Control units","Images"
"0340","DASD","3390","DB0340","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0341","DASD","3390","DB0341","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0342","DASD","3390","DB0342","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0343","DASD","3390","DB0343","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
```



```
"0344","DASD","3390","DB0344","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0345","DASD","3390","DB0345","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0346","DASD","3390","DB0346","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0347","DASD","3390","DB0347","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0348","DASD","3390","DB0348","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"0349","DASD","3390","DB0349","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"034A","DASD","3390","DB034A","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"034B","DASD","3390","DB034B","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"034C","DASD","3390","DB034C","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"034D","DASD","3390","DB034D","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
"034E","DASD","3390","DB034E","0340 0341","CCFA HR01.VMPROD HR01.VMTEST SYSB.MVSPROD
SYSB.MVSTEST"
```


Usage Hint

To browse or manipulate the saved information or to print these stored information, a spreadsheet program is a good way to do this. For example, if the file generated in Example 3 will be opened with *Lotus 1-2-3*, the result is



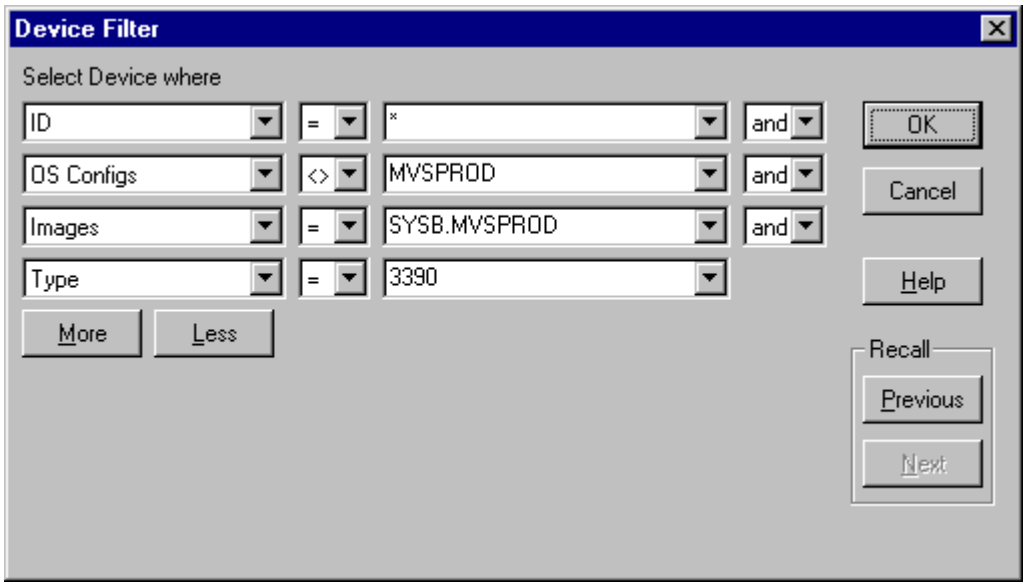
Some Useful Report Examples

Applying the SQL like filter in the *Locate* or *Edit* menu to the list of objects and saving the reduced list to a file, this allows to create useful reports. You will find here some examples of the possibilities. Of course you might find a lot of other possibilities for using this function...

Define All Devices to an Operating System which are Reachable by an Image

After creating some I/O equipment like DASD and connecting them to a set of CHPIDs which are accessible by a particular image, typically these devices also have to be defined to the operation system which runs on this image. To ensure that all of the just connected devices are also defined to the according operating system, you can use the *Locate device* and apply a *Filter*... to the list which reduces the devices to the class DASD and to those devices connected to the particular image and which are not assigned to the desired operating system. If there are any devices left in the list, you may want to save this list and decide your next actions.

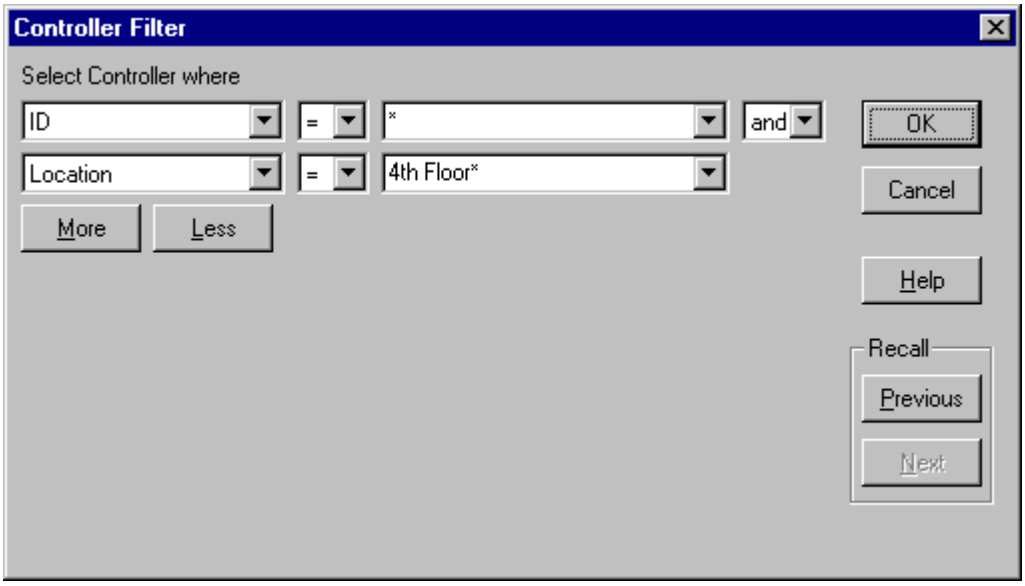
Here you see a sample of a filter to get all devices of the type 3390, which can be reached by image SYSB.MVSPROD, but have not yet been assigned to the operating system MVSPROD.



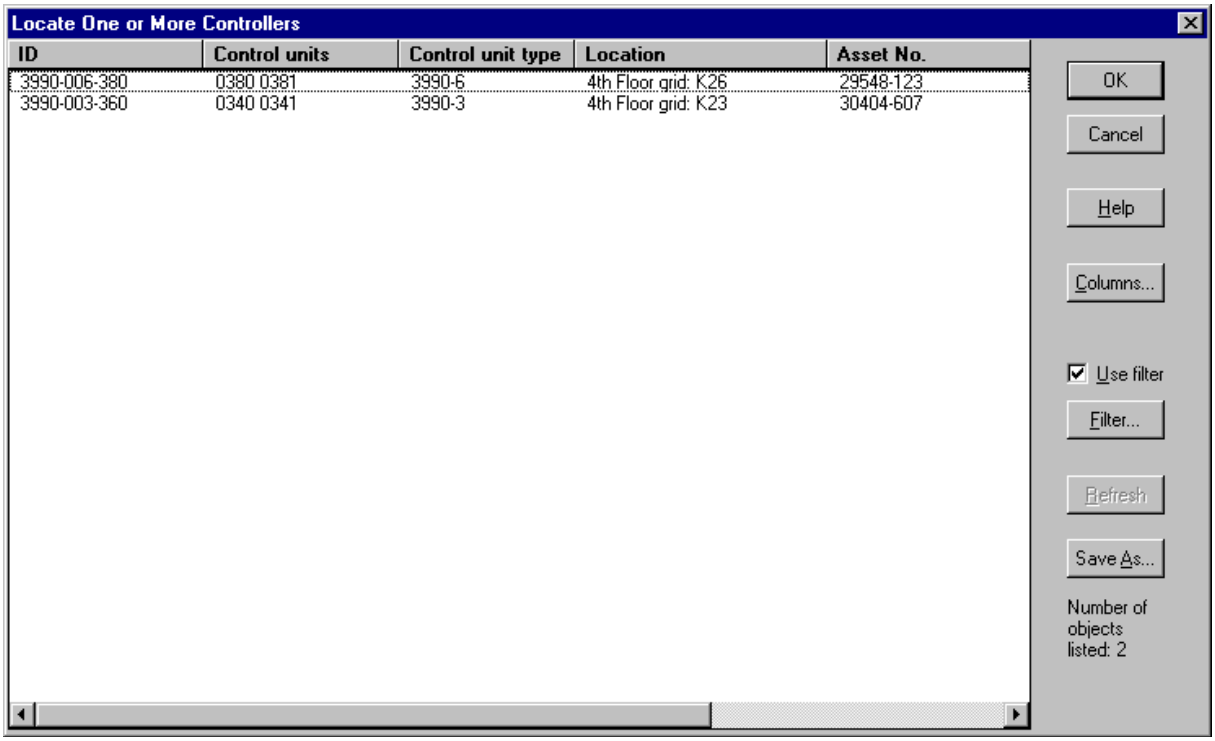
Create a List of Controllers Depending on their Location

It is possible to provide your own names for the User fields. For example you can provide the name "Location" to one of the 5 fields.
You can now fill in your location information for physical objects into this field. In the *Locate* window, it is then possible to include the column with the location information. If you are interested in all of your controllers which have a particular location information, you simply

specify a filter in the *Locate One or More Controllers* window. For example, if you are interested in all controllers on the 4th floor, you could specify a filter like this:



The result of this filter is a list of controllers, which match the desired location information:



You can now save this list to a file including the filtering information and your own description (*Descriptive header*) and you have a list with the desired content.

*** *End of Document* ***

