Hvrcatalogexport, hvrcatalogimport

Contents

Name

hvrcatalogexport - Export from hub database into HVR catalog document.

hvrcatalogimport - Import from HVR catalog document into hub database.

Synopsis

hvrcatalogexport [**-c***chn*...] [**-C**] [**-d**] [**-g**] [**-h***class*] [**-l**] [**-u**user] *hubdb catdoc*

hvrcatalogimport [**-h**class] [**-u***user*] *hubdb catdoc*

Description

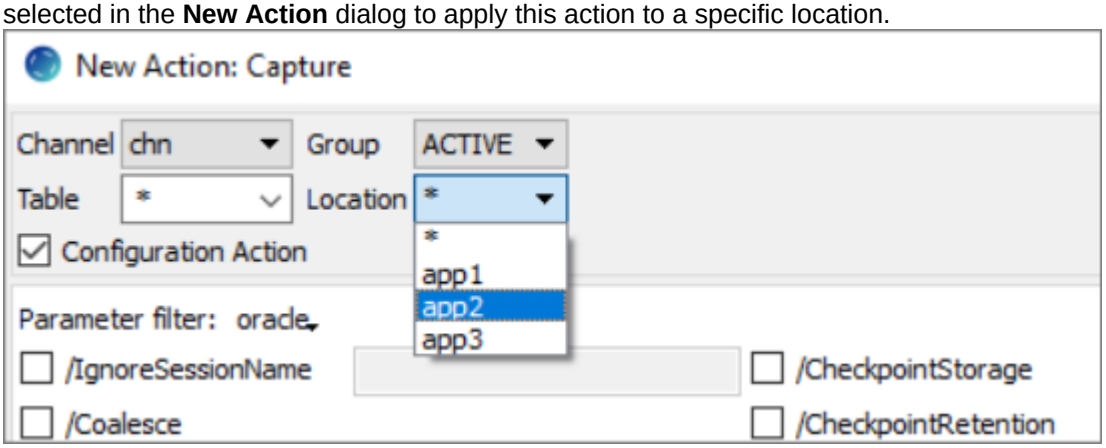
Command **hvrcatalogexport** extracts information from the HVR catalog tables in the hub database and writes it into file *catdoc*. HVR catalog document *catdoc* is an XML file which follows the HVR catalog Document Type Definition (DTD).

You can export the information about:

- Locations (see the **hvr_location** catalog table)
- Channel Definitions (see the **hvr_channel**, **hvr_table**, **hvr_column**, **hvr_loc_group** and **hvr_action** catalog tables)
- Group Membership (see the **hvr_loc_group_member** catalog table)
- Configuration Action (see the **hvr_config_action** catalog table).

Configuration Action

Configuration Actions are the actions defined at a location level. In HVR GUI, when an action is defined on a location (by right-clicking the location), the option **Configuration Action** is automatically selected in the **New Action** dialog. However, when an action is defined for a channel, location group or table (by right-clicking the channel, location group or table), the option **Configuration Action** needs to be manually selected in the **New Action** dialog to apply this action to a specific location.



You can select to export information from all the catalog tables or separately for each of the items from the above list.

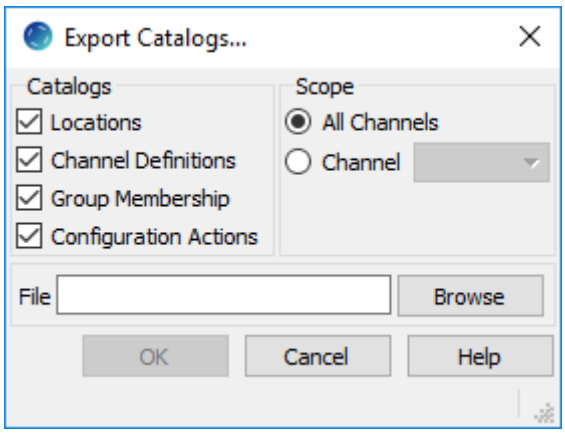
Command **hvrcatalogimport** loads the information from the supplied HVR catalog document into the HVR catalogs in the hub database.

The argument *hubdb* specifies the connection to the hub database. For more information about supported hub databases and the syntax for using this argument, see Calling HVR on the Command Line.

An HVR catalog document file can either be created using command **hvrcatalogexport** or it can be prepared manually, provided it conforms to the HVR catalog DTD.

Options

This section describes the options available for the commands **hvrcatalogexport** and **hvrcatalogimport**.



Parameter	Description
-c*chn*	Only export catalog information for channel *chn*.
-C	Only export information from configuration action catalog **hvr_config_action**.
-d	Only export information from channel definition catalogs **hvr_channel**, **hvr_table**, **hvr_column**, **hvr_loc_group** and **hvr_action**.
-g	Only extract information from group membership catalog **hvr_loc_group_member**.

-h*class*	Location *class* of the hub database. Valid values for *class* are **db2**, **db2i**, **ingres**, **mysql**, **oracle**, **postgresql**, **sqlserver**, or **teradata**. For more information, see Calling HVR on the Command Line.
-l	Only export information from location catalog **hvr_location**.
-u*user*[*/pwd*]	Connect to hub database using DBMS account *user*. For some databases (e.g. SQL Server) a password *pwd* must also be supplied.

HVR Catalog DTD

HVR catalog documents are XML files that must conform to the HVR catalog Document Type Definition (DTD). A formal specification of this DTD can be found in file **HVR_HOME/lib/hvr_catalog.dtd**. Most XML tags in the DTD are directly equivalent to a table or row of the HVR Catalog Tables.

The root tag of the HVR catalog DTD is **<hvr_catalog>**. This root tag contains "table" tags named **<hvr_channels>**, **<hvr_tables>**, **<hvr_columns>**, **<hvr_loc_groups>**, **<hvr_actions>**, **<hvr_locations>**, **<hvr_loc_group_members>** and **<hvr_config_actions>**. Most table tags contain a special optional attribute **chn_name**. This special attribute controls the amount of data that is deleted and replaced as the HVR catalog document is loaded into the catalog tables. For example, a document that contains **<hvr_actions chn_name="hvr_demo01">** would imply that only rows for channel **hvr_demo01** should be deleted when the document is imported. If the special attribute **chn_name** is omitted then all rows for that catalog table are deleted.

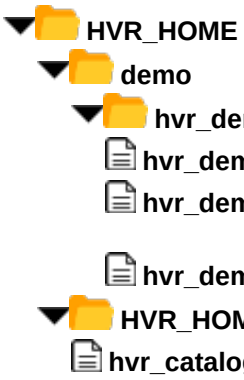
Each table tag contains tags that correspond to rows in the catalog tables. These 'row' tags are named **<hvr_channel>**, **<hvr_table>**, **<hvr_column>**, **<hvr_loc_group>**, **<hvr_action>**, **<hvr_location>**, **<hvr_loc_group_member>** and**<hvr_config_action>**. Each of these row tags has an attribute for each column of the table. For example, tag **<hvr_tables>** could contain many **<hvr_table>** tags, which would each have attributes **chn_name**, **tbl_name** and **tbl_base_name**.

Some attributes of a row tag are optional. For example, if attribute **col_key** of **<hvr_column>** is omitted it defaults to **0** (false), and if attribute **tbl_name** of tag **<hvr_action>** is omitted then it defaults to '*****' (affect all tables).

Example

```
 <syntaxhighlight source lang="xml">
 <?xml version="1.0" encoding="UTF-8"?>
 <!DOCTYPE hvr_catalog SYSTEM "<nowiki>http://www.hvr-software.com/dtd/1.0
/hvr_catalog.dtd</nowiki>">
 <hvr_catalog version="1.0">
  <hvr_channels chn_name="hvr_demo01">
    <hvr_channel chn_name="hvr_demo01" chn_description="Simple reference
channel."/>
  </hvr_channels>
  <hvr_tables chn_name="hvr_demo01">
    <hvr_table chn_name="hvr_demo01" tbl_name="dm01_order" tbl_base_name="
dm01_order"/>
    <hvr_table chn_name="hvr_demo01" tbl_name="dm01_product" tbl_base_name="
dm01_product"/>
  </hvr_tables>
  <hvr_columns chn_name="hvr_demo01">
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_order" col_sequence="
1"                                  col_name="prod_id" col_key="1"
col_datatype="integer4"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_order" col_sequence="
2"                                  col_name="ord_id" col_key="1"
col_datatype="integer4"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_order" col_sequence="
3"                                  col_name="cust_name" col_datatype="
varchar" col_length="100"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_order" col_sequence="
4"                                  col_name="cust_addr" col_datatype="
varchar" col_length="100" col_nullable="1"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_product" col_sequence="
1"                                  col_name="prod_id" col_key="1"
col_datatype="integer4"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_product" col_sequence="
2"                                  col_name="prod_price" col_datatype="
float8"/>
    <hvr_column chn_name="hvr_demo01" tbl_name="dm01_product" col_sequence="
3"                                  col_name="prod_descrip" col_datatype="
varchar" col_length="100"/>
  </hvr_columns>
  <hvr_loc_groups chn_name="hvr_demo01">
    <hvr_loc_group chn_name="hvr_demo01" grp_name="CEN" grp_description="
Headquarters"/>
    <hvr_loc_group chn_name="hvr_demo01" grp_name="DECEN" grp_description="
Decentral"/>
  </hvr_loc_groups>
  <hvr_actions chn_name="hvr_demo01">
    <hvr_action chn_name="hvr_demo01" grp_name="CEN" act_name="DbCapture"/>
    <hvr_action chn_name="hvr_demo01" grp_name="DECEN" act_name="DbIntegrate"
/>
  </hvr_actions>
 </hvr_catalog>
 </syntaxhighlight>
```

Files



HVR_HOME	
demo	
hvr_demo01	
hvr_demo01_def.xml	Catalog document for channel definition.
hvr_demo01_cnf_gm_example.xml	Catalog document for group membership.
hvr_demo01_cnf_loc_oracle_example.xml	Catalog document for HVR locations.
HVR_HOME	
hvr_catalog.dtd	Catalog Document Type Definition.