

# hMC

## MODULE-04

# Contents

## ► **hybris Management Console**

- Overview of the hMC
- Storing Layout Configuration
- hMC Localization
- Type System Localization

# What is the hybris Management Console?

- Highly generic
- Component-based
- Database-oriented view
- Everything is displayed as it is defined in the items.xml
- Easy to configure and customize via XML configuration
- You can extend the hMC functionality by implementing
  - Actions: Allow running custom business logic
  - WebChips: MVC model-compliant stateful components
  - Wizards: Allow better control of the sequence in which a user specifies data (e.g.: skipping tabs and data validation)
- Distributed as an extension

# hMC - Use Cases

- Useful for developers during the implementation phase
  - Check the data model
  - Manage complex business processes (imports, automated tasks)
  - Manage user-related settings (access rights, groups)
- Not recommended for business/end users (too complex, too technical)
  - Use different Cockpits instead, such as the Product Cockpit
  - For more complex or proprietary processes, create your own Cockpits

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# hMC - Components

The screenshot displays the hMC interface with the following components labeled:

- Toolbar**: Located at the top center, containing navigation icons and a 'New' button.
- Explorer Tree**: Located on the left side, showing a hierarchical tree of system components like System, Catalog, and Catalog Management Tools.
- Search Area**: Located in the upper right, featuring search filters for Type, Category, and Attribute, and a table for defining search criteria.
- Result Area**: Located in the lower right, displaying search results in a table format.
- History**: Located at the bottom left, showing a list of recent items.

**Search Area Details:**

Attribute	Locale	Comparator	Value
Article Number		contains	
Identifier	de		
Product variants type		is equal	
Catalog version		is equal	Default - Staged

**Result Area Details:**

Article Number	Locale	Approval	Catalog version
BMW-M3	n/a	approved	Default - Staged

# hMC Tree

Explorer: Administrator@localhost/master:9001: Product

hybris platform

New | Quick Search: | Language: English

Search

Type: Product Category: Attribute: Search additional attributes... Saved Queries

Attribute	Locale	Comparator	Value
Article Number		contains	
Identifier	de	contains	
Product variants type		is equal	
Catalog version		is equal	Default - Staged

Search ☒ Include Subtypes

```
<explorertree width="185" columns="2">
  <group name="system" expand="false" description="group.system.description">
  </group>

  <group name="catalog" expand="false" description="group.catalog.description">
    <typeref type="Product" description="typeref.product.description"/>
    <typeref type="Unit" description="typeref.unit.description"/>
  </group>
</explorertree>
```



# hMC Search

Explorer: Administrator@localhost/master:9001: Product

hybris platform

New | Quick Search: | Language: English

Administrator

- System
- Catalog
  - Catalog Browser
  - Catalogs
  - Categories
  - Products**
  - Product Variant Types
  - Units
  - Keywords
- Catalog Management Tools
- Classification Systems
- Multimedia
- User
- Order
- Price Settings
- Internationalization
- Marketing

Recent items

- BMW-M3 - n/a

**Search**

Type: Product Category: Attribute: Search additional attributes... Saved Queries

Attribute	Locale	Comparator	Value
Article Number		contains	
Identifier	de	contains	
Product variants type		is equal	
Catalog version		is equal	Default - Staged

Search ☒ Include Subtypes

```
<type name="Product" icon="images/icons/e_product.gif" mode="append">
  <organizer>
    <search mode="replace">
      <condition attribute="code" operator="contains"/>
      <condition attribute="name" operator="contains"/>
    </search>
  </organizer>
</type>
```

Editor - Product



# hMC Result

The screenshot displays the hMC interface with the following components:

- Explorer:** Administrator@localhost/master:9001: Product
- Left Navigation Panel:** System, Catalog, Catalog Browser, Catalogs, Categories, **Products**, Product Variant Types, Units, Keywords, Catalog Management Tools, Classification Systems, Multimedia, User, Order, Price Settings, Internationalization, Marketing.
- Search Panel:** Type: Product, Attribute, Article Number, Identifier, Product variants, Catalog version, Search button, Include subtypes checkbox.
- Results Panel:** Contains a table with the following data:

Article Number	Identifier	Approval	Catalog version
BMW-M3	n/a	approved	Default - Staged
- XML Code Snippet:**

```
<attribute name="name" width="180"/>
</itemlayout>
</listview>
<editview mode="replace">
  <itemlayout>
    <attribute name="code" width="120"/>
    <attribute name="name" width="180"/>
  </itemlayout>
</editview>
<treeview mode="replace">
  <itemlayout>
    <attribute name="code" width="120"/>
  </itemlayout>
</treeview>
</result>
```
- Recent items:** BMW-M3 - n/a - (Default - !)
- Editor - Product:** Editor - Product

# hMC Editor - Tab

Save Reload Copy Delete Start Publication for this product

Properties Attributes Category System Prices Multimedia Variants Extended Attributes Versions BMECat Administration

Article Number:  Identifier:

Catalog version:  Approval:

Validity Period

Online from:  (MM/DD/YYYY) Online to:

Descriptions

Description:


Sales unit:

```
<editor>
  <essentials>
    <columnlayout>
      <row>
        <attribute name="code"/>
        <attribute name="name"/>
      </row>
    </columnlayout>
  </essentials>
  <tab name="tab.product.properties" position="1">
    <section name="product.descriptions">
      <listlayout>
        <attribute name="description">
          <wysiwygeditor/>
        </attribute>
        <attribute name="unit"/>
      </listlayout>
    </section>
  </tab>
```

# hMC Editor - Essentials

Save Reload Copy Delete Start Publication for this product

Properties Attributes Category System Prices Multimedia Variants Extended Attributes Versions BMECat Administration


Article Number: BMW-M3 Identifier: 


Catalog: default - Staged Approval: approved

Validity Period

Online from:  (MM/DD/YYYY) Online to:

Descriptions

Description: 



Sales unit:

```
<editor>
<essentials>
  <columnlayout>
    <row>
      <attribute name="code" />
      <attribute name="name" />
    </row>
  </columnlayout>
</essentials>

<tab name="tab.product.property" />
<section name="product.description" />
  <listlayout>
    <attribute name="description" />
    <wysiwygeditor />
  </attribute>
  <attribute name="unit" />
</listlayout>
</section>
</tab>
```

```
<editor>
  <essentials>
    <columnlayout>
      <row>
        <attribute name="code"/>
        <attribute name="name"/>
      </row>
    </columnlayout>
  </essentials>

  <tab name="tab.product.properties" position="1">
    <section name="product.descriptions">
      <listlayout>
        <attribute name="description">
          <wysiwygeditor/>
        </attribute>
        <attribute name="unit"/>
      </listlayout>
    </section>
  </tab>
```

# hMC Editor - Section

The screenshot displays the hMC Editor interface. The top menu bar includes 'Save', 'Reload', 'Copy', 'Delete', and 'Start Publication for this product'. Below the menu, there are tabs for 'Properties', 'Attributes', 'Category System', 'Prices', 'Multimedia', 'Variants', 'Extended Attributes', 'Versions', 'BMECat', and 'Administration'. The 'Properties' tab is active, showing fields for 'Article Number' (BMW-M3), 'Catalog version' (Default - Staged), 'Identifier', 'Approval' (approved), and 'Validity Period' (Online from and Online to). A red box highlights the 'Descriptions' tab in the left sidebar. A red arrow points from this tab to a large XML snippet on the right. The XML snippet is as follows:

```
<editor>
  <essentials>
    <columnlayout>
      <row>
        <attribute name="code"/>
        <attribute name="name"/>
      </row>
    </columnlayout>
  </essentials>

  <tab name="tab.product.properties" position="1">
    <section name="product.descriptions">
      <listlayout>
        <attribute name="description">
          <wysiwygeditor/>
        </attribute>
        <attribute name="unit"/>
      </listlayout>
    </section>
  </tab>
```

The 'product.descriptions' section in the XML is highlighted with a red box, matching the 'Descriptions' tab in the interface.



# hMC Editor - Attributes

Save Reload Copy Delete Start Publication for this product

Properties Attributes Category System Prices Multimedia Variants Extended Attributes Versions BMECat Administration

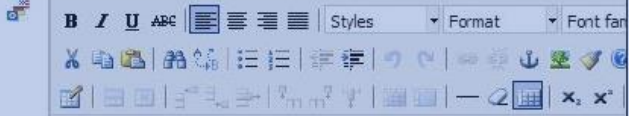
Article Number:  Identifier:

Catalog version:  Approval:

Validity Period

Online from:  (MM/DD/YYYY) Online to:

Descriptions

Description: 

Sales unit:

```
<editor>
  <essentials>
    <columnlayout>
      <row>
        <attribute name="code"/>
        <attribute name="name"/>
      </row>
    </columnlayout>
  </essentials>

  <tab name="tab.product.properties" position="1">
    <section name="product.descriptions">
      <listlayout>
        <attribute name="description">
          <wysiwygeditor/>
        </attribute>
        <attribute name="unit"/>
      </listlayout>
    </section>
  </tab>
```

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# Storage Location for XML Definition

- All hmc.xml configuration files are assebled into one final file during the system build
- The final hmc.xml is loaded into database during the system update
- In order to avoid lengthy system update during the development, it's recomended to specify:
  - the `hmc.structure.db=false` property in the `local.properties` file.
- It's possible to upload this file in the hMC manually:
  - Go to group "System" -> "hMC configuration"
  - Click on the button "hmc.xml upload"

# Clearing the hMC Configuration From the Database

You can clear the hMC layout definition stored in the database manually via the hybris Administration Console:

## General settings

**TenantID**

master

**Master**

true

- ☐ Update running system
- ☒ Clear the hMC configuration from the database
- ☐ Create essential data
- ☐ Localize types

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# hMC - Localization

- ➔ hMC localizations are stored in `locales_XY.properties` files in the directory:

`${extension}/hmc/resources/${package}/hmc`

- ➔ `XY` indicates the ISO code of the language  
(mandatory parameter when a language is created)
- ➔ Can contain parameters (refer to the wiki for further information)
- ➔ Unlike on type system localization, there is no convention here:

<code>section.name</code>	= The name of a section
<code>tab.name.more</code>	= The name of the tab
<code>error.the.name.of.error</code>	= Error message
<code>value.with.unicode</code>	= Asterisk is <code>\u002A</code>

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## ▶ **Type System Localization**

# Type System Localization

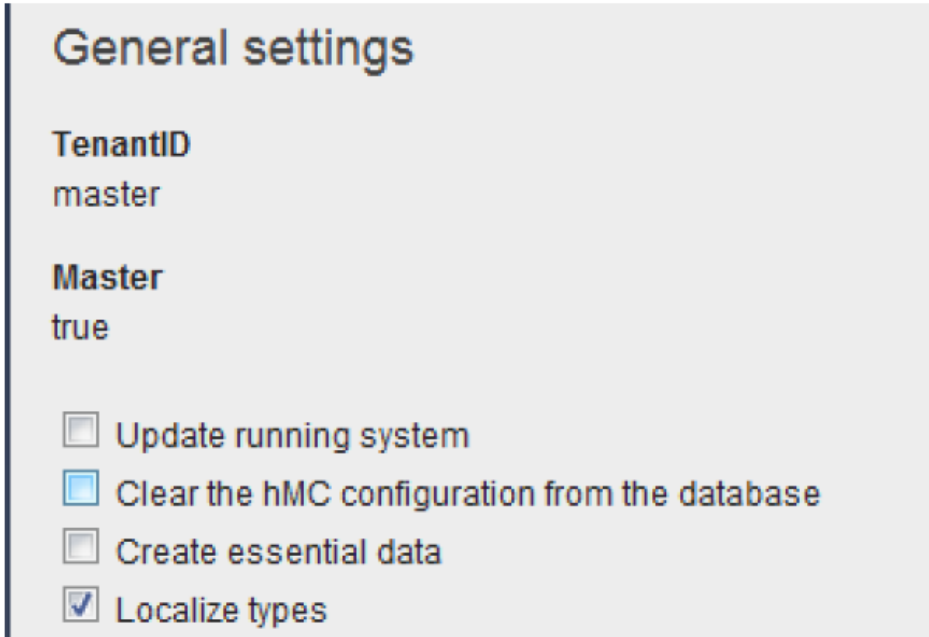
- ➔ The localization strings for types and attributes are stored in files named *extension-locales\_XY.properties*
  - ➔ *extension*: the name of the extension
  - ➔ *XY*: the ISO code of the language
  - ➔ Properties convention:

```
type.{typename}.name=value  
type.{typename}.description=value  
type.{typename}.{attributename}.name=value  
type.{typename}.{attributename}.description=value  
type.{enumcode}.{valuecode}.name=value
```
- ➔ Use generator from hmc to get all properties keys generated for selected extensions



# System Initialization / Update - Localize Types

➔ Type localizations are stored in the database

A screenshot of a software configuration window titled "General settings". It contains several fields and checkboxes. The "TenantID" field is set to "master". The "Master" checkbox is checked, and the value "true" is displayed below it. There are four checkboxes at the bottom: "Update running system" (unchecked), "Clear the hMC configuration from the database" (checked), "Create essential data" (unchecked), and "Localize types" (checked).

General settings

TenantID  
master

Master  
true

☐ Update running system

☒ Clear the hMC configuration from the database

☐ Create essential data

☒ Localize types

➔ Overrides type localizations in the database with the ones from the `locales_XY.properties` files

# Quizzes

- ▶ 1. What does the abbreviation hMC stand for?
- ▶ 2. When would you use the hMC and when would you use the hybris Administration Console?
- ▶ 3. Which file is used to configure hMC layout?
- ▶ 4. What do you have to do after modifying the hMC configuration-file?
- ▶ 5. What is the difference between type system localization and hMC localization?