



4. ATTRIBUTE FACETS

Attribute Facets Correlation



	AttributeNumeric Domain	AttributeRegular Expression	AttributeInterref Domain	Enumeration Domain	MultiLineString	AttributeHelp Text	RecordClass Name	RecordClass Multiplicity
INTEGER	X					X		
DOUBLE	X					X		
STRING		X			X	X		
LONGSTRING		X			X	X		
TIME						X		
ENUMERATION		X		X		X		
ENUMERATIONLIST		X		X		X		
PROGRAMCALL				X		X		
RECORD						X	X	X
EXPRESSION					X	X		
INTERREF			X			X		



Attribute Domain Definition 1

Definition

```
AttrDomainDef: DomainHead
{ DomainInterval }.
DomainHead: DOMAIN
message:"domainMessage".
DomainInterval: INTERVAL
lowerbound:lowerBoundValue
upperbound:upperBoundValue.
```

▶ Example

```
FACET <AttributeNumericDomain>
VALUE "LAYOUT decimals:2"
```

```
FACET <AttributeNumericDomain>
VALUE "DOMAIN
      message:\nEnter a value between 0.25 (quarter of an hour) and 20.\
      INTERVAL
      lowerbound:0.25
      upperbound:20.0"
```

Attribute Domain Definition 2



Example (cont.)

```
FACET <AttributeNumericDomain>
VALUE "DOMAIN
      message:"The valid Value Range of the Attribute lies between 0 and 100
and between 1000 and 1100."
      INTERVAL
      lowerbound:0
      upperbound:100
      INTERVAL
      lowerbound:1000
      upperbound:1100
      "
```

Regular Expression Definition



Definition

RegExpDef: *RegExpHead*.
RegExpHead: **REGEXP**
message: "regExpMessage"
expression: "regularExpression".

▶ Example

```
FACET <AttributeRegularExpression>  
VALUE "REGEXP  
    message:\ "Enter the time in the format MM.YYYY (Domain 01.1950 to 12.2050).\ "  
    expression:\ "(^([0-9]|1[0-2]))\.(19[5-9][0-9]|20[0-5][0-9])$\ " "
```

```
FACET <AttributeRegularExpression>  
VALUE "REGEXP  
    message:"That is not a valid e-mail address!"  
    expression:".*@.*"  
    "
```

```
FACET <AttributeRegularExpression>  
VALUE "REGEXP  
    message:"Input data in format 'DD.MM.YYYY'. "  
    expression:\ "(^())$|^(((0[1-9]|1[0-9]|2[0-9]).(0[1-9]|10|11|12))|(30.(01|0[3-9]|10|11|12))|(31.(  
        "01|03|05|07|08|10|12)))\.[0-2][0-9][0-9][0-9]${10}))",  
    "
```

InterRef Domain Definition



Definition

```
InterRefDomainDef: [ DomainHead ]  
{ ModRefDomain } |  
{ InstRefDomain }.  
DomainHead : REFDOMAIN  
[ max:totalMaxValue ].  
ModRefDomain : MODREF  
mt:"modelName"  
[ max:maxValue ].  
InstRefDomain : OBJREF  
mt:"modelName"  
c:"className"  
[ max:maxValue ].
```

▶ Example

```
FACET <AttributeInterRefDomain>  
VALUE "REFDOMAIN  
      OBJREF  
      mt:"My ModelType"  
      c:"MyModelClass"  
      max:1 "
```

```
FACET <AttributeInterRefDomain>  
VALUE "REFDOMAIN max:1  
      MODREF  
      mt:\\"Knowledge Management  
Process Model\\" "
```

```
FACET <AttributeInterRefDomain>  
VALUE "REFDOMAIN max: 100  
      OBJREF  
      mt:„MyFirstModelType\  
c:"MyClassInMyFirstModelType„  
max: 50  
      OBJREF  
      mt:"MySecondModelType"  
c:„MyClassInMySecondModelType„  
max: 50 "
```



Enumeration Domain Definition

Definition

ITEM *itemText* [**param**:*varName*:*defaultText*] [**fdlg-filterX**:*filterExt* **fdlg-typeX**:*filterName*]

[AdoScript](#) .

▶ Example

```
FACET <EnumerationDomain>  
VALUE "value-1@value-2@value-3@value-n"
```



MultiLineString Definition

Definition

The attribute-facet 'MultiLineString' (only for attributes of type STRING) specifies, whether the text field for the string has a single line (VALUE 0) or several lines (VALUE 1).

The text field allows entering 3700 symbols maximum. In the attribute 'name' entering 255 symbols maximum is possible. A text field with more lines owns scroll-bars in the notebook and can be enlarged to screen size 640x480 by an enlarging button.

Example

```
FACET <MultiLineString>  
VALUE 0
```

```
FACET <MultiLineString>  
VALUE 1
```




Attribute Help Text Definition

Definition

The **attribute-facet 'AttributeHelpText'** defines an i-Button (on the right top of the text field), where the info-text (defined in 'VALUE') is deposited.

Example

```
FACET <AttributeHelpText>  
VALUE "You can change the language from English to German and/or vice versa."
```



Example for Meta-Data

Attributes can be defined and provided with a descriptive default value. They should not be provided in the „Notebook“ to prevent the user from changing these, making them only accessible through processing.

```
ATTRIBUTE <Application>
TYPE STRING
VALUE „All objects of this aggregation belong together and must be considered
as a grup by all functions.  "

    FACET <MultiLineString>
    VALUE 1

    FACET <AttributeHelpText>
    VALUE "Enter a description for documentation purposes."

    FACET <AttributeRegularExpression>
    VALUE " "
```