

XML filter specification

XML filter specification complies with [XML file structure](#) and must meet the following conditions:

- it may contain the optional section <FILTER_OPTIONS> that set a filter
- it must contain <CFGRECORDS> section that set the filter attributes
- must not contain another reserved section than <CFGRECORDS>

Characteristics of <FILTER_OPTIONS> section

- value of parameter <Operator> may be AND or OR
- value AND defines that the object meets the filter only if all the filter conditions are fulfilled
- value OR defines that the object meets the filter only if at least one filter attribute is fulfilled
- element <Type> always filters the objects
- if the optional section is not in filter or it does not contain the parameter <Operator>, the object meets the filter only if all the filter conditions are fulfilled

Characteristics of <CFGRECORDS> section

- contains the filter attributes, they decide whether the object meets or does not meet the filter conditions
- the main filter attributes are placed in <TObjItemData> structure
- element <Type> defines which object will be filtered
- supplementary filter attributes, stated in the particular structure, depends on the object type that will be filtered
- supplementary filter attributes from two different types of object must not be combined, otherwise they are automatically considered to be inconvenient
- structures must not contain the attributes with string values of SDT_EXPRESSION or SDT_RAW_DATA type

Example of XML file representing the XML filter

```
<?xml version="1.0" encoding="windows-1250"?>
<ROOT>
  <FILTER_OPTIONS>
    <Operator>AND</Operator>
  </FILTER_OPTIONS>
  <CFGRECORDS>
    <TObjItemData>
      <Name>A*</Name>
      <Typ>ARCH_VAL</Typ>
      <VHL>100</VHL>
    </TObjItemData>
    <TArchivData_Full>
      <TArchivData>
        <Periode>60</Periode>
        <Offset>0</Offset>
      </TArchivData>
    </TArchivData_Full>
  </CFGRECORDS>
</ROOT>
```

Object of ARCH_VAL type meets the filter if it meets at least one of the conditions: it satisfies the mask A*, VHL attribute = 100, Periode attribute = 0 or Offset attribute = 0.

If OR is not set or if AND is set, the relation between filter attributes will be changed to AND.



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