easySDI - Defect #1153
Catalog CSW filter can be wrong depending on configuration

10/01/2015 03:18 PM - Blatti Yves

Status:	New	**Start date:**	10/01/2015
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:	CATALOG	**Estimated time:**	0.00 hour
Target version:			
Affected version:	4.0.0		

Description

Catalog CSW filter can be wrong (xsd validation fails) depending on configuration:

Example 1:

If the configured catalog has one (and only one) resource type specified, the output filter will contain:

```
[...]
<ogc:PropertyIsEqualTo>
  <ogc:PropertyName>harvested</ogc:PropertyName>
  <ogc:Literal>false</ogc:Literal>
</ogc:PropertyIsEqualTo>
<ogc:Or>
  <ogc:PropertyIsEqualTo>
    <ogc:PropertyName>resourcetype</ogc:PropertyName>
    <ogc:Literal>geoproduit</ogc:Literal>
  </ogc:PropertyIsEqualTo>
</ogc:Or>
<ogc:PropertyIsEqualTo>
  <ogc:PropertyName>metadatastate</ogc:PropertyName>
  <ogc:Literal>published</ogc:Literal>
</ogc:PropertyIsEqualTo>
[...]
```

You can see an ogc:Or element containing only one element.

Example 2:

The filter contains a 'top level' ogc:And for any catalog level filter. If it is empy, the ogc:And contains only one element ogc:And.

Reason :

http://schemas.opengis.net/filter/1.1.0/filter.xsd

```
[...]
<xsd:element name="logicOps" type="ogc:LogicOpsType" abstract="true"/>
<xsd:element name="And"
        type="ogc:BinaryLogicOpType"
        substitutionGroup="ogc:logicOps"/>
<xsd:element name="Or"
        type="ogc:BinaryLogicOpType"
        substitutionGroup="ogc:logicOps"/>
[...]
<xsd:complexType name="BinaryLogicOpType">
  <xsd:complexContent>
    <xsd:extension base="ogc:LogicOpsType">
      <xsd:choice minOccurs="2" maxOccurs="unbounded">
        <xsd:element ref="ogc:comparisonOps"/>
```

```
            <xsd:element ref="ogc:spatialOps"/>
            <xsd:element ref="ogc:logicOps"/>
          </xsd:choice>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
    [...]
```

ogc:And and ocg:or are BinaryLogicOpType and have ton contain at least 2 elements of type : ogc:comparisonOps, ogc:spatialOps or ogc:logicOps

Solution :

Any BinaryLogicOp element (or/and) should be dropped if it only contains one element, and its content should be placed in the direct parent.