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<!--
    This is a draft and experimental XML document type
    definition for DIF files in HLA Spec v1.3

    HLAML v0.1
    Date: August 12, 1998
-->

<!-- Simple data types -->
<!ELEMENT parameter  (#PCDATA)>
<!ELEMENT name       (#PCDATA)>
<!ELEMENT transport  (#PCDATA)>
<!ELEMENT order      (#PCDATA)>
<!ELEMENT sname      (#PCDATA)>
<!ELEMENT dimension  (#PCDATA)>
<!ELEMENT Federation (#PCDATA)>
<!ELEMENT FEDversion (#PCDATA)>

<!-- Dimensions should contain at least one dimension -->
<!ELEMENT Dimensions (dimension)+>

<!-- Each routing space has name and a set of dimensions -->
<!ELEMENT space (sname,Dimensions?)>

<!-- Spaces should contain at least one space -->
<!ELEMENT spaces (space)+>

<!-- Objects should contain at least one 'oclass' -->
<!ELEMENT objects (oclass)+>

<!-- Object Class contains attributes and subclasses -->
<!ELEMENT oclass (name,attributeList?,oclass*)>

<!-- attributeList wrappes the attributes of object class -->
<!ELEMENT attributeList (attribute)+>

<!-- Each attribute has name, trasport type, order. Space name is optional -->
<!ELEMENT attribute (name,transport,order,sname?)>

<!-- All interactions are defined in this element. -->
<!ELEMENT interactions (iclass)+>

<!--
     Each interaction class has name, transport type, order. It might have
     routing space, a set of parameters and subclasses.
-->
<!ELEMENT iclass (name,transport,order,sname?,parameter*,iclass*)>

<!--
     Each federation definition file containes name, version, object
     classes and interaction classes. Definition of Routing Spaces are optional.
-->
<!ELEMENT FED (Federation,FEDversion,spaces?,objects,interactions)>
```