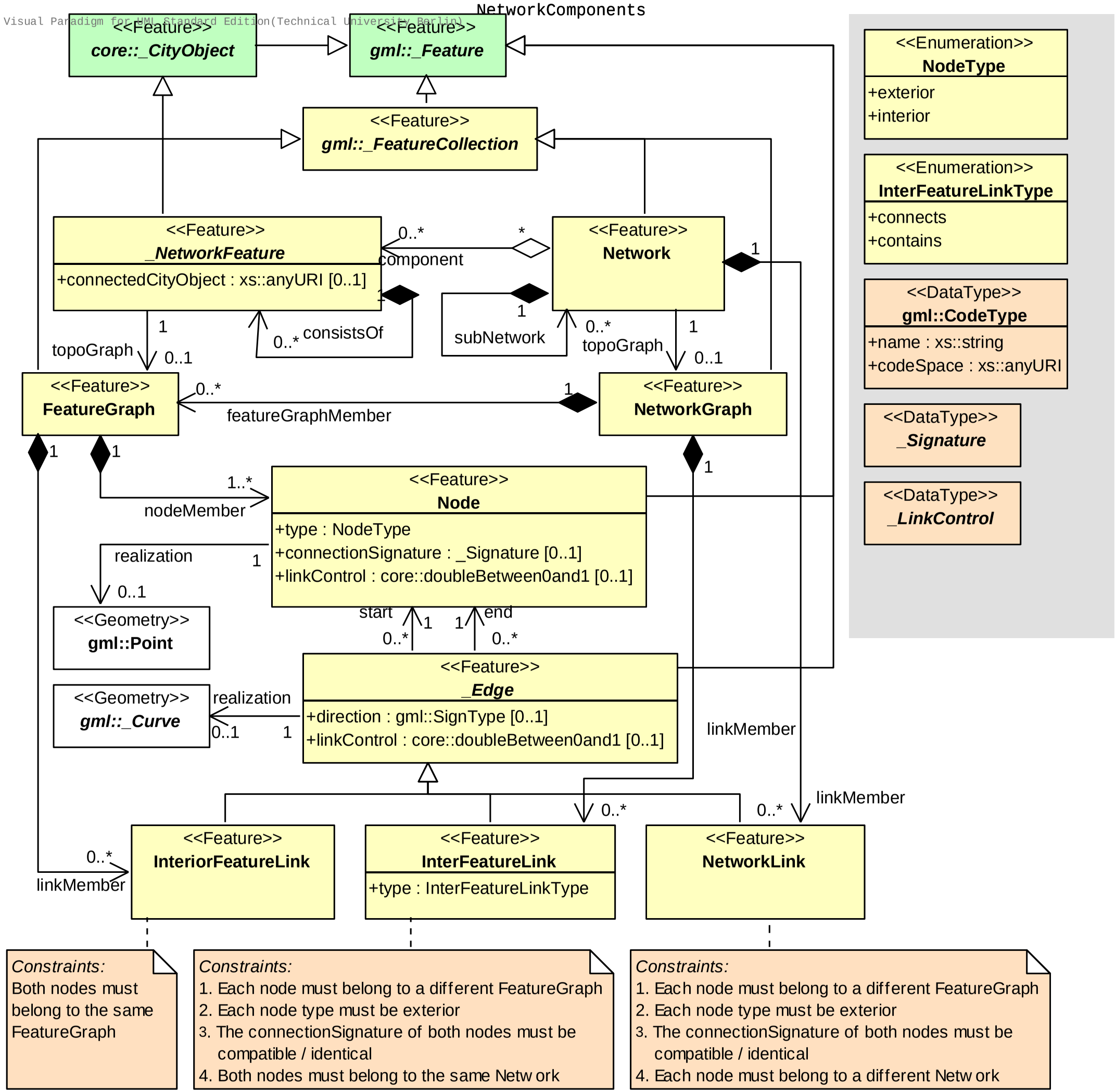
NetworkComponents
Visual Paradigm for UML Standard Edition(Technical University Berlin)
<<Feature>>
core::_CityObject
<<Feature>>
gml::_Feature
<<Feature>>
gml::_FeatureCollection
<<Feature>>
_NetworkFeature
+connectedCityObject : xs::anyURI [0..1]
<<Feature>>
Network
0..*
*
component
1
1
subNetwork
0..*
topoGraph
1
0..1
0..*
consistsOf
1
topoGraph
0..1
<<Feature>>
FeatureGraph
0..*
featureGraphMember
1
<<Feature>>
NetworkGraph
1
1
1
1..*
nodeMember
<<Feature>>
Node
+type : NodeType
+connectionSignature : _Signature [0..1]
+linkControl : core::doubleBetween0and1 [0..1]
realization
1
0..1
<<Geometry>>
gml::Point
start
1
0..*
1
end
0..*
<<Geometry>>
gml::_Curve
realization
0..1
1
<<Feature>>
_Edge
+direction : gml::SignType [0..1]
+linkControl : core::doubleBetween0and1 [0..1]
linkMember
0..*
0..*
linkMember
0..*
linkMember
<<Feature>>
InteriorFeatureLink
<<Feature>>
InterFeatureLink
+type : InterFeatureLinkType
<<Feature>>
NetworkLink
Constraints:
Both nodes must belong to the same FeatureGraph
Constraints:
1. Each node must belong to a different FeatureGraph
2. Each node type must be exterior
3. The connectionSignature of both nodes must be compatible / identical
4. Both nodes must belong to the same Network
Constraints:
1. Each node must belong to a different FeatureGraph
2. Each node type must be exterior
3. The connectionSignature of both nodes must be compatible / identical
4. Each node must belong to a different Network
<<Enumeration>>
NodeType
+exterior
+interior
<<Enumeration>>
InterFeatureLinkType
+connects
+contains
<<DataType>>
gml::CodeType
+name : xs::string
+codeSpace : xs::anyURI
<<DataType>>
_Signature
<<DataType>>
_LinkControl

02.08.2011