



Mapping av IFC EXPRESS i til ISO/TC 211 UML



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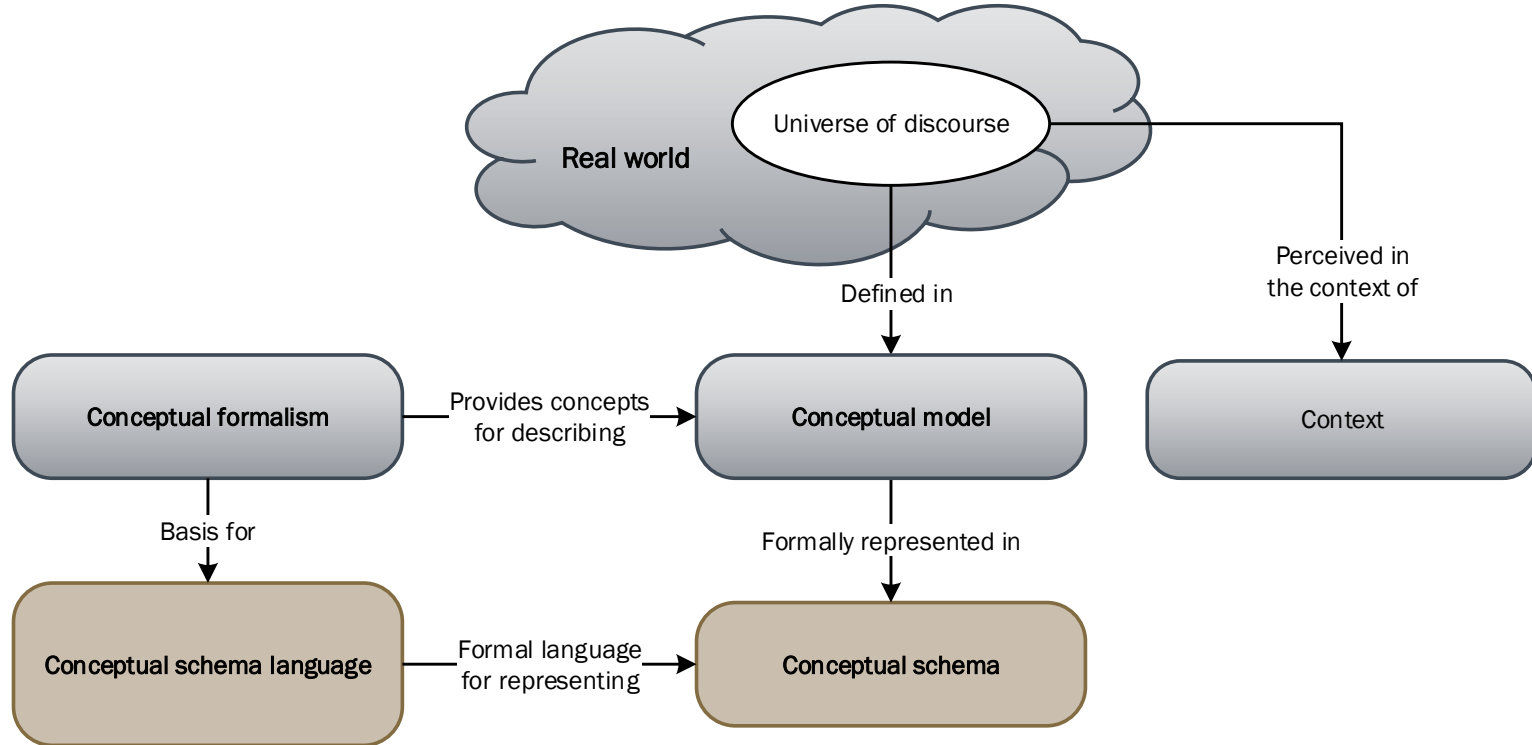
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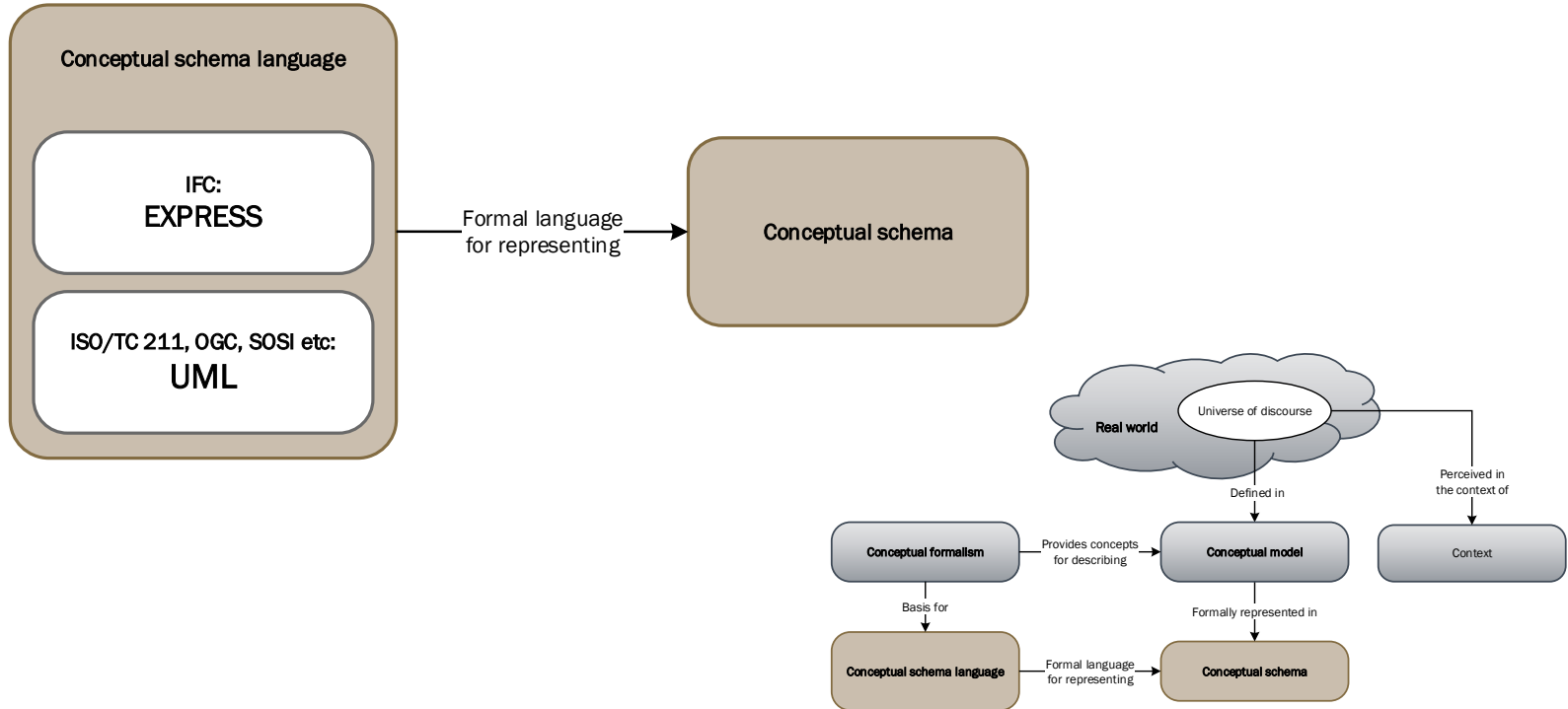
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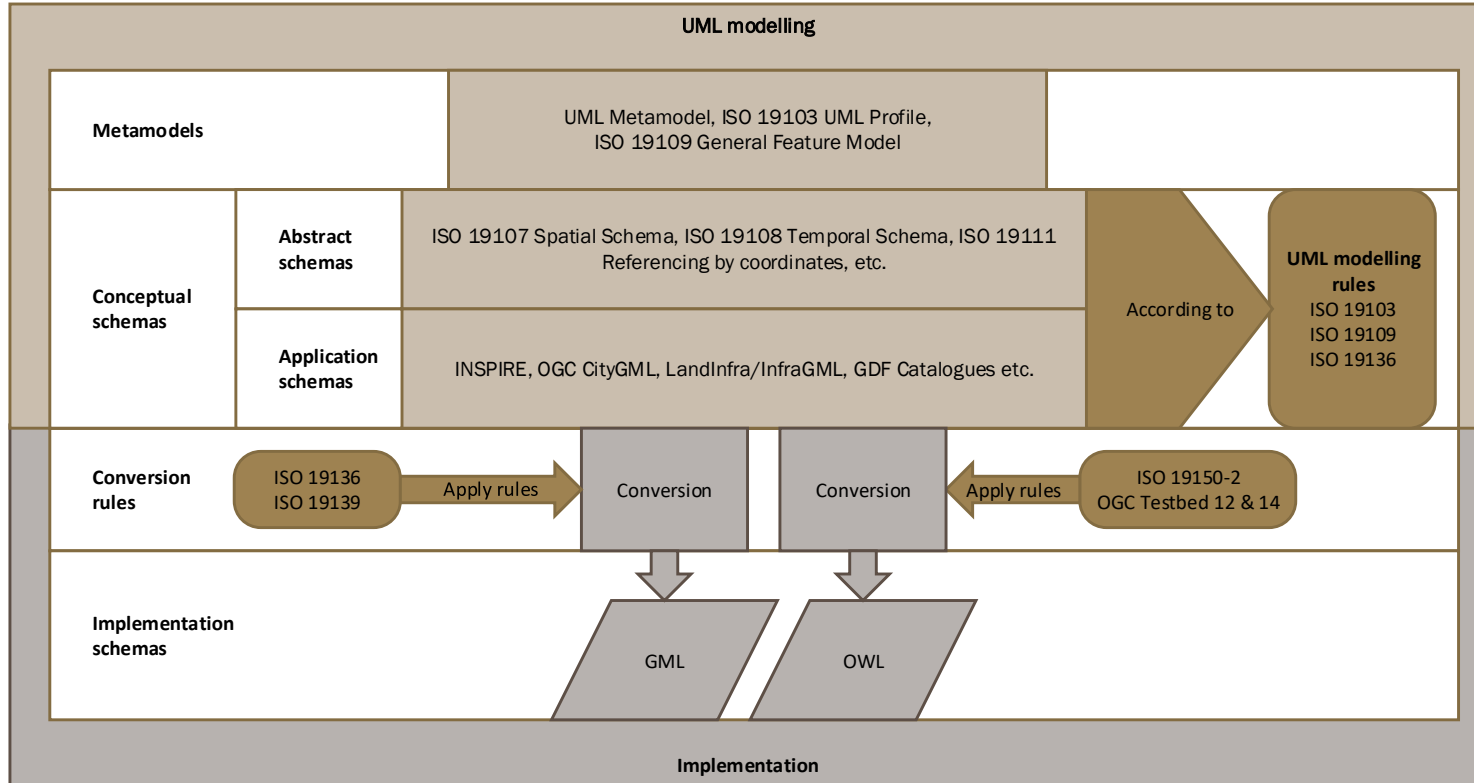
Informasjonmodellering



Konseptuelt skjemaspråk



ISO/TC 211 Modelldreven arkitektur



Mapping mellom skjemaspråk

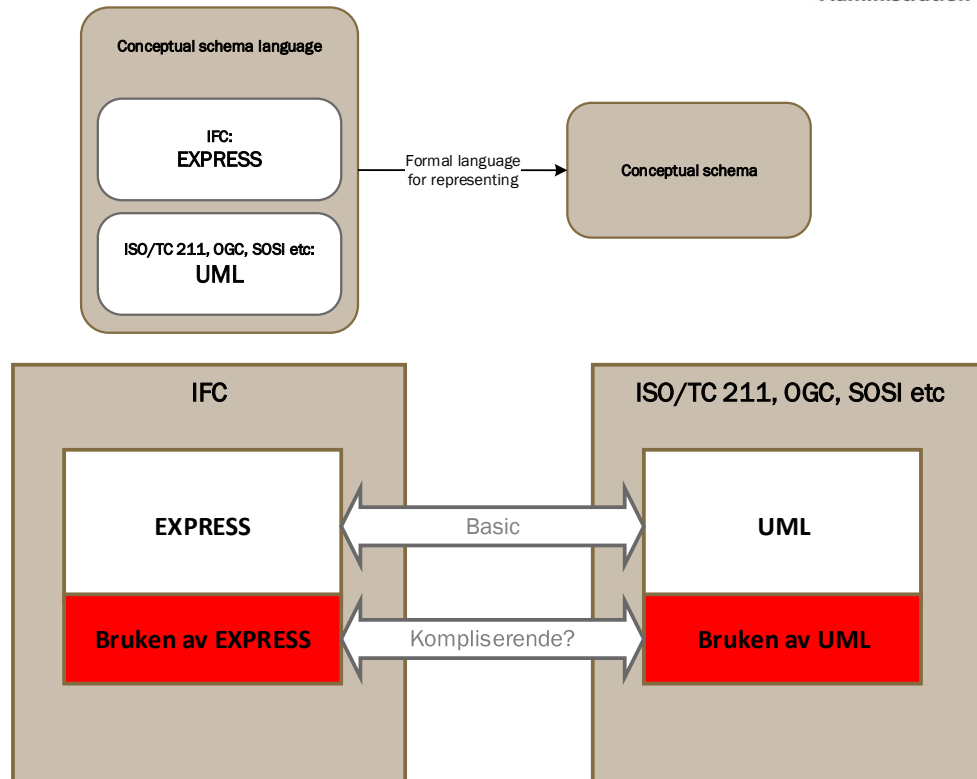


```

Session.Output(Now & " Express Entity: " & strName)
set e1 = getElementFromList(lstClasses, strName)
if e1 is nothing then
  Session.Output(Now & " Create class: " & strName)
  set e1 = thePackage.Elements.AddNew(strName,"Class")
  e1.update
  Session.Output(Now & " Adding class to list: " & e1.Name)
  lstClasses.Add e1.Name,e1.ElementGUID
end if
e1.StereoTypeEx = ""
e1.StereoType = "FeatureType"
'Read next line
strNextLine = LTrim(objTextFile.Readline)
If left(strNextLine, 8) = "ABSTRACT" then e1.Abstract = "1"
e1.update

'Add connector
Session.Output(Now & " Adding generalization from " & strName)
set con = e1.Connectors.AddNew("", "Generalization")
con.ClientID = relEl.ElementID
con.SupplierID = e1.ElementID
con.Update()

'Add attribute
set e1Attr = e1.Attributes.AddNew(attrName,dtName)
e1Attr.Visibility = "Public"
e1Attr.LowerBound = minCard
e1Attr.UpperBound = maxCard
e1Attr.isOrdered = ordered
e1Attr.Update
e1.Attributes.Refresh
  
```

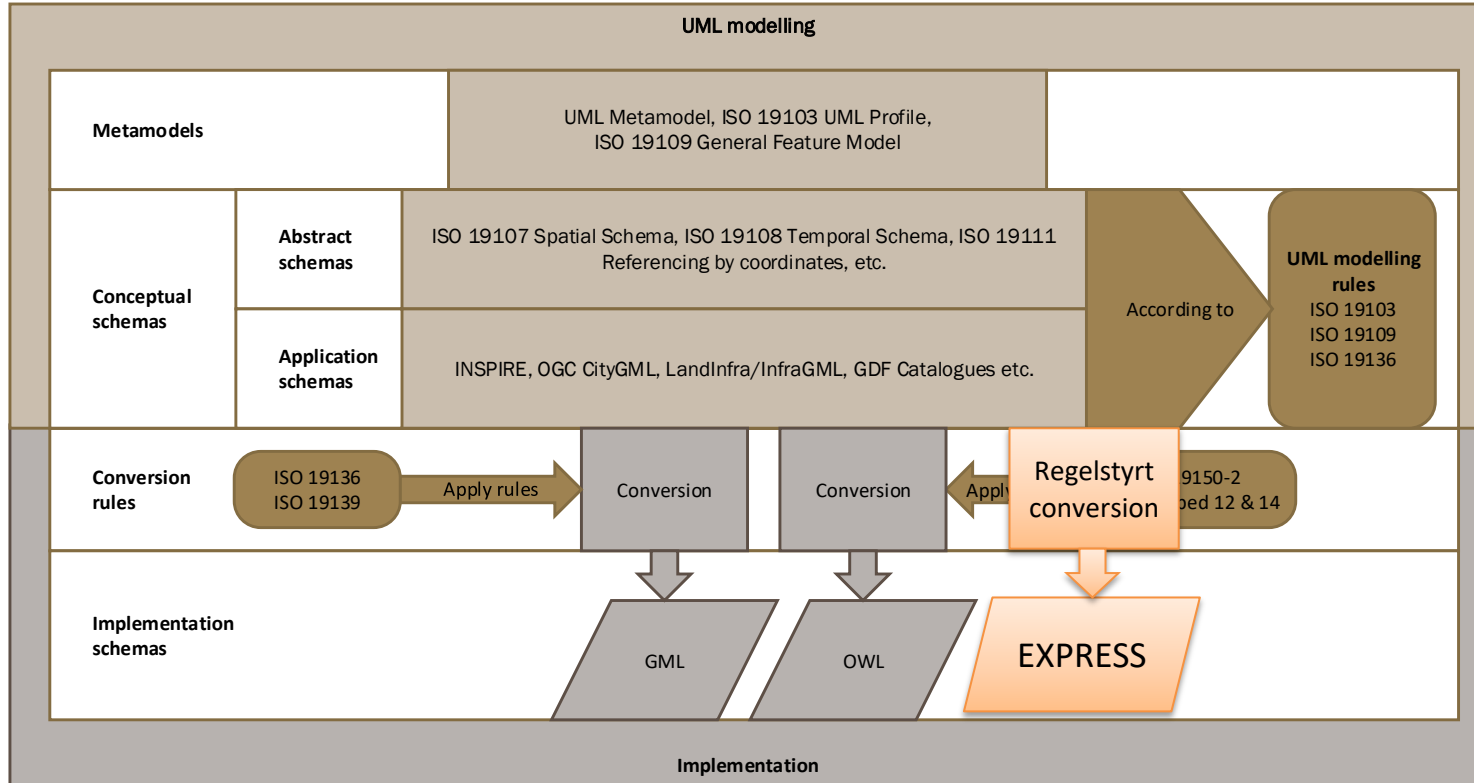


Hvorfor mappe skjema til UML?

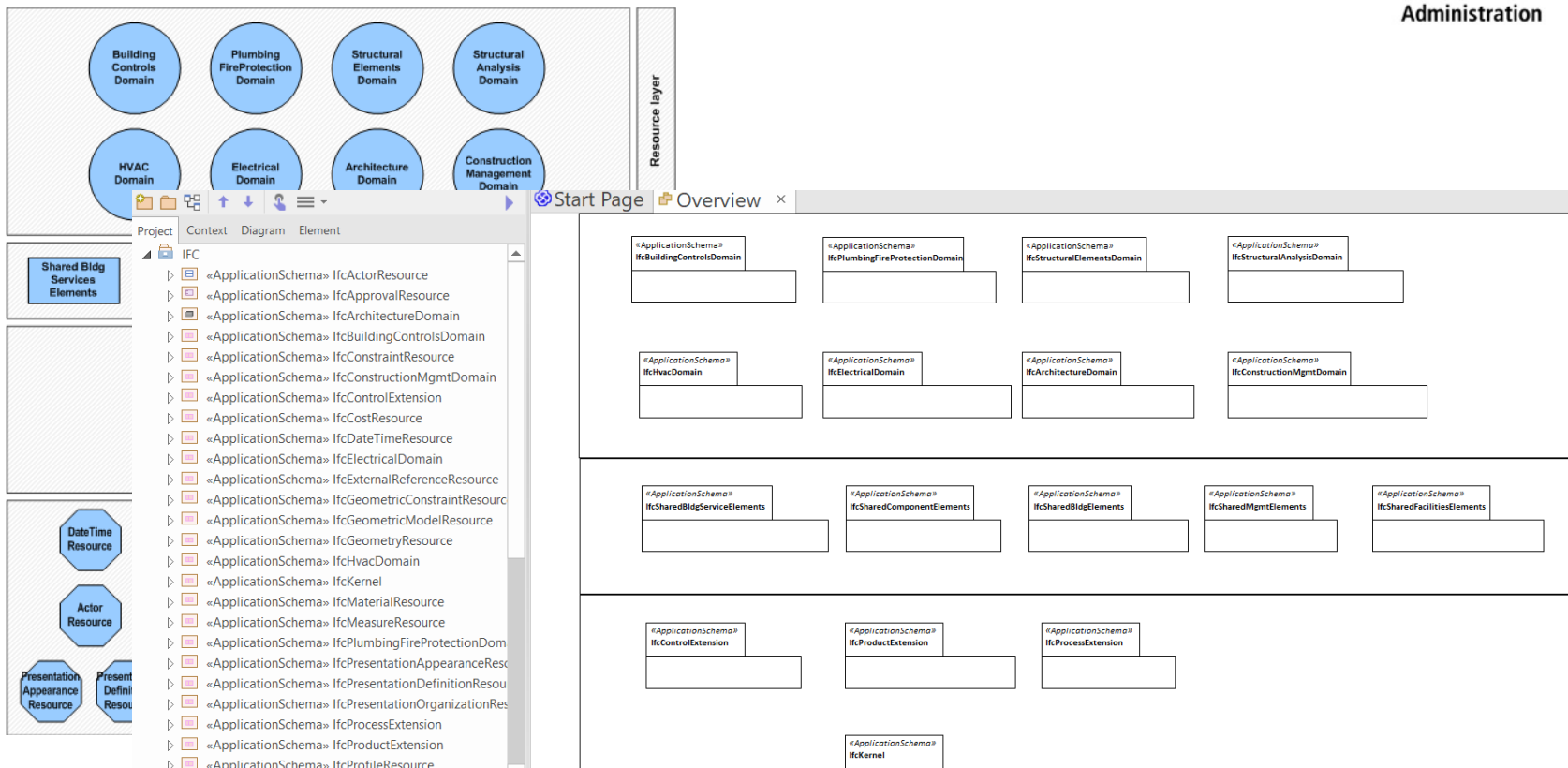


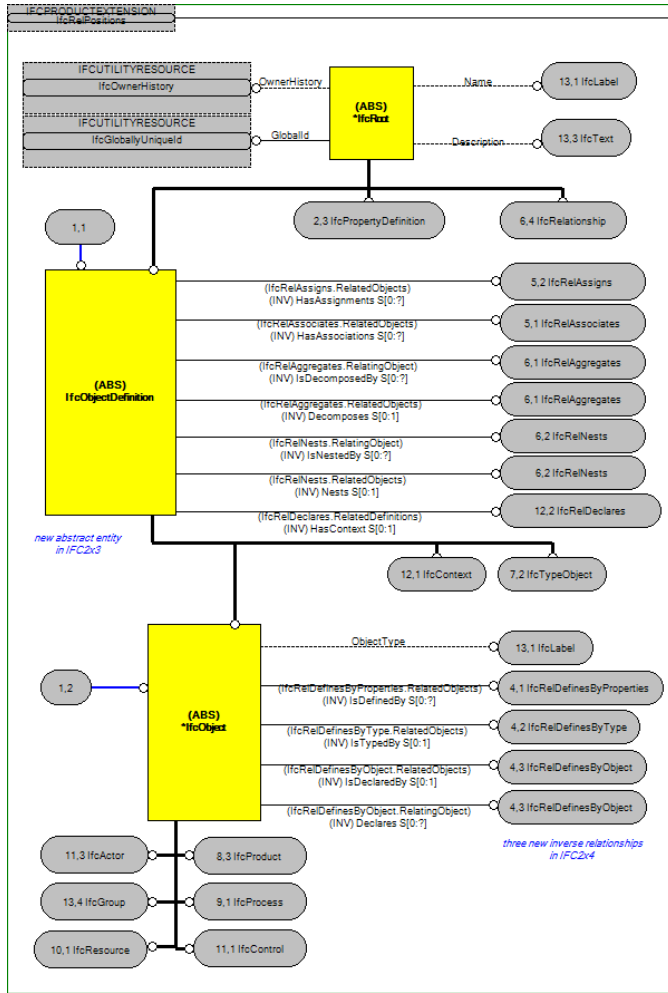
- Sammenligning av modeller for harmonisering
 - IFC Infrastructure (Road)
 - LandInfra (Road)
 - SOSI Vegkropp
- Modelldreven arkitektur – generere implementasjonsskjema for ulike formater
 - GML
 - IFC (EXPRESS)
 - IFC PropertySetDefiniton-XSD
 - OWL & SKOS
 - JSON
 - Databaseskjema
- Fordeler UML
 - Det mest utbredte modelleringsspråket
 - Standardisert grafisk visning
 - Bedre enn EXPRESS-G
 - Håndtering av semantikk for implementasjon
 - Støttet av applikasjoner

Modelldriven arkitektur



Skjema- og pakkestruktur IFC

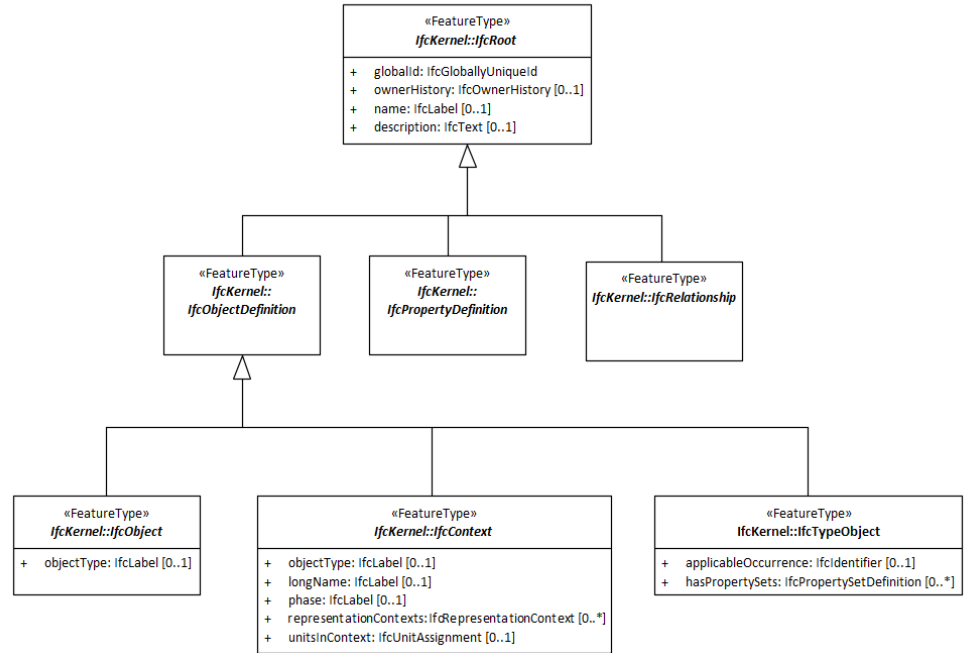




IFC Kernel



Statens vegvesen
Norwegian Public Roads
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