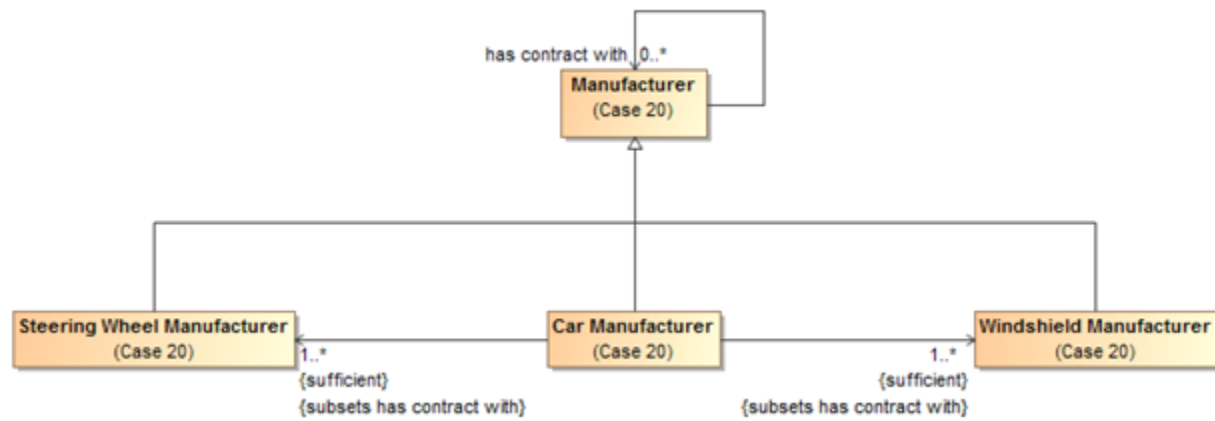


Class with necessary and sufficient property



A class with necessary and sufficient property.

```

Ontology(<http://nomagic.com/ontology/example-case/case-20>
  Declaration(
    Class(:CarManufacturer)
  )
  Declaration(
    Class(:Manufacturer)
  )
  Declaration(
    Class(:SteeringWheelManufacturer)
  )
  Declaration(
    Class(:WindshieldManufacturer)
  )
  Declaration(
    ObjectProperty(:hasContractWith)
  )
  AnnotationAssertion(rdfs:label :CarManufacturer "Car Manufacturer"@en)
  EquivalentClasses(
    :CarManufacturer
    ObjectIntersectionOf(
      ObjectMinCardinality(1 :hasContractWith :SteeringWheelManufacturer)
      ObjectSomeValuesFrom(:hasContractWith :SteeringWheelManufacturer)
    )
  )
  EquivalentClasses(
    :CarManufacturer
    ObjectIntersectionOf(
      ObjectMinCardinality(1 :hasContractWith :WindshieldManufacturer)
      ObjectSomeValuesFrom(:hasContractWith :WindshieldManufacturer)
    )
  )
  SubClassOf(:CarManufacturer :Manufacturer)
  AnnotationAssertion(rdfs:label :Manufacturer "Manufacturer"@en)
  AnnotationAssertion(rdfs:label :SteeringWheelManufacturer "Steering Wheel Manufacturer"@en)
  SubClassOf(:SteeringWheelManufacturer :Manufacturer)
  AnnotationAssertion(rdfs:label :WindshieldManufacturer "Windshield Manufacturer"@en)
  SubClassOf(:WindshieldManufacturer :Manufacturer)

  AnnotationAssertion(rdfs:label
:hasContractWith "has contract with"@en)

  ObjectPropertyDomain(:hasContractWith
:Manufacturer)

  ObjectPropertyRange(:hasContractWith
:Manufacturer)

)

```

Related page

- [UML to Equivalent OWL in OWL Functional Syntax](#)