

# Chapter 1

## Code Sample

```
// namespaces omitted
Ontology(<http://openiaml.org/verification/2009/infiniteRedirect.owl>
Import(<http://openiaml.org/model0.5>)

// some classes omitted

EquivalentClasses(InfiniteRedirectFrame ObjectIntersectionOf(
    ObjectExistsSelf(instantRedirectTo visual:Frame))
SubClassOf(InfiniteRedirectFrame iaml:Scope)
SubClassOf(InfiniteRedirectFrame iaml:VisibleThing)
SubClassOf(InfiniteRedirectFrame visual:Frame)

EquivalentClasses(AccessEventTrigger ObjectIntersectionOf(DataHasValue(
    iaml:name "access") iaml:EventTrigger))

// some properties omitted

TransitiveObjectProperty(instantRedirectTo)
ObjectPropertyDomain(instantRedirectTo visual:Frame)
ObjectPropertyRange(instantRedirectTo visual:Frame)

ObjectPropertyDomain(navigatesToFrame iaml:ActionEdge)
ObjectPropertyRange(navigatesToFrame visual:Frame)

SubObjectPropertyOf(SubObjectPropertyChain(iaml:outEdges isActionEdge
    InverseObjectProperty(isActionEdge)) onAccessNavigate)

SubObjectPropertyOf(SubObjectPropertyChain(iaml:to isFrame
    InverseObjectProperty(isFrame)) navigatesToFrame)

SubObjectPropertyOf(SubObjectPropertyChain(iaml:outActions toFrame)
```

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eventToFrame)

SubObjectPropertyOf(SubObjectPropertyChain(iaaml:to isFrame
  InverseObjectProperty(isFrame)) toFrame)

// defines the verification constraint
SubObjectPropertyOf(SubObjectPropertyChain(iaaml:eventTriggers
  isAccessEventTrigger InverseObjectProperty(isAccessEventTrigger)
  onAccessNavigate navigatesToFrame) instantRedirectTo)

)

```

# **Bibliography**