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TTCN-3 Language Extensions: Object-Oriented Features

**ETSI Standard**

Reference

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#### 5.1.2.7 Comparison

***Syntactical Structure***

*ObjectReference* "==" *ObjectReference* |

*ObjectReference* "!=" *ObjectReference*

***Semantic Description***

Two object references can be compared for equality or inequality. Two object references are equal if and only if they reference the same object instance. An object reference is equal to the special null object reference if it does not reference an object instance.

***Restrictions***

1. Object references can only be compared if they are type compatible, i.e. if they both have the same declared class type or if the declared type of one of the references is a direct or indirect superclass of the declared type of the other reference.

***Examples***

EXAMPLE 1:

type class Shape {}

type class Circle extends Shape {}

type class Rectangle extends Shape {}

var Circle v\_circle := Circle.create();

var Rectangle v\_rectangle := Rectangle.create();

var Shape v\_shape := v\_circle;

v\_shape == v\_circle // allowed => true

v\_circle != v\_rectangle // not allowed

v\_shape == null // allowed => false

v\_shape == Circle.create() // allowed => false