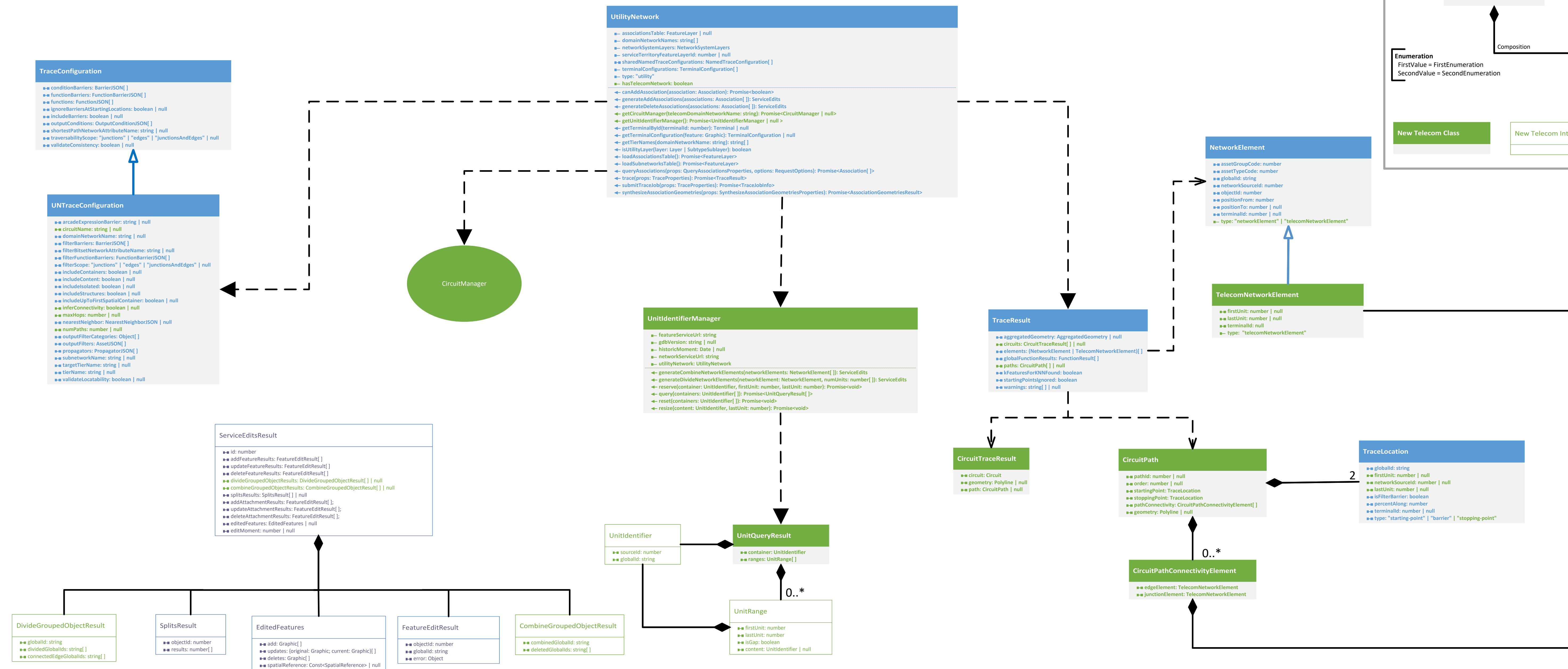


# Telecom Domain Network Tracing and UnitIdentifier

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**Types of Classes**  
 An **Abstract Class** cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance).  
 A **Class** cannot directly create objects, but objects of this class can be created as a property of another class or instantiated by objects from another class.

**Types of Relationships**  
**Associations** represent relationships between classes. They have defined multiplicities at both ends.  
**Inheritance** defines specialized classes of objects which share properties and methods with the superclass and have additional properties and methods.  
**Dependency** defines when one element uses another element to define behavior, but does not own it as part of its runtime state.  
**Instantiation** specifies that one object from one class has a method with which it creates an object from another class.  
**Composition** is a relationship in which objects from the 'whole' class control the lifetime of objects from the 'part' class.  
**A Multiplicity** is a constraint on the number of objects that can be associated with another object. Association and composition relationships have multiplicities on both sides. This is the notation for multiplicities:  
 1 - One and only one  
 0..\* - Zero or many  
 1..\* - One to many

**Property Types & Output Types**  
 These are provided using TypeScript/JavaScript data types. The **[multiplicity]** type indicates that multiple parameter types are passed by reference. The "\*" indicates any type.

**Types**  
 TraceType  
 connected  
 upstream  
 downstream  
 shortest-path  
 subnetwork-controller  
 loops  
 isolation  
 path  
 circuit

# Telecom Domain Network Circuits

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