

Dynamic Parameters - Accepted Refinement

This contribution was previously accepted, a suggestion was made to further refine ParameterSpecValue, separating discrete values from ranges, which has been accepted, with the result as follows.

- [1 Introduction](#)
- [2 Root](#)
 - [2.1 Overview](#)
 - [2.2 Diagrams](#)
 - [2.2.1 Overview](#)
 - [2.2.1.1 Diagrams](#)
 - [Figure 21: Diagram Dynamic Parameters](#)
 - [2.3 RootObjectClasses](#)
 - [2.3.1 Overview](#)
 - [2.3.1.1 Classes](#)
 - [2.3.1.1.1 DiscreteValueSpec class](#)
 - [2.3.1.1.2 Parameter class](#)
 - [2.3.1.1.3 ParameterGroup class](#)
 - [2.3.1.1.4 ParameterValue class](#)
 - [2.3.1.1.5 ParmSpecValue class](#)
 - [2.3.1.1.6 RangeValueSpec class](#)

1 Introduction

This document contains the Word presentation of the model generated from the ONAP Eclipse Papyrus UML Information model using gendoc. This format is provided to assist the reader that does not use UML or has no access to UML tools.

2 Root

2.1 Overview

Qualified Name: Common::Root

Description:

A set of common business entities that collectively serve as the foundation of the ONAP Information Model.. This set of root classess enable the entities in different domains of the Information Model to be associated with each other, providing greater overall coherence.

2.2 Diagrams

2.2.1 Overview

Qualified Name: Common::Root::Diagrams

Description:

2.2.1.1 Diagrams

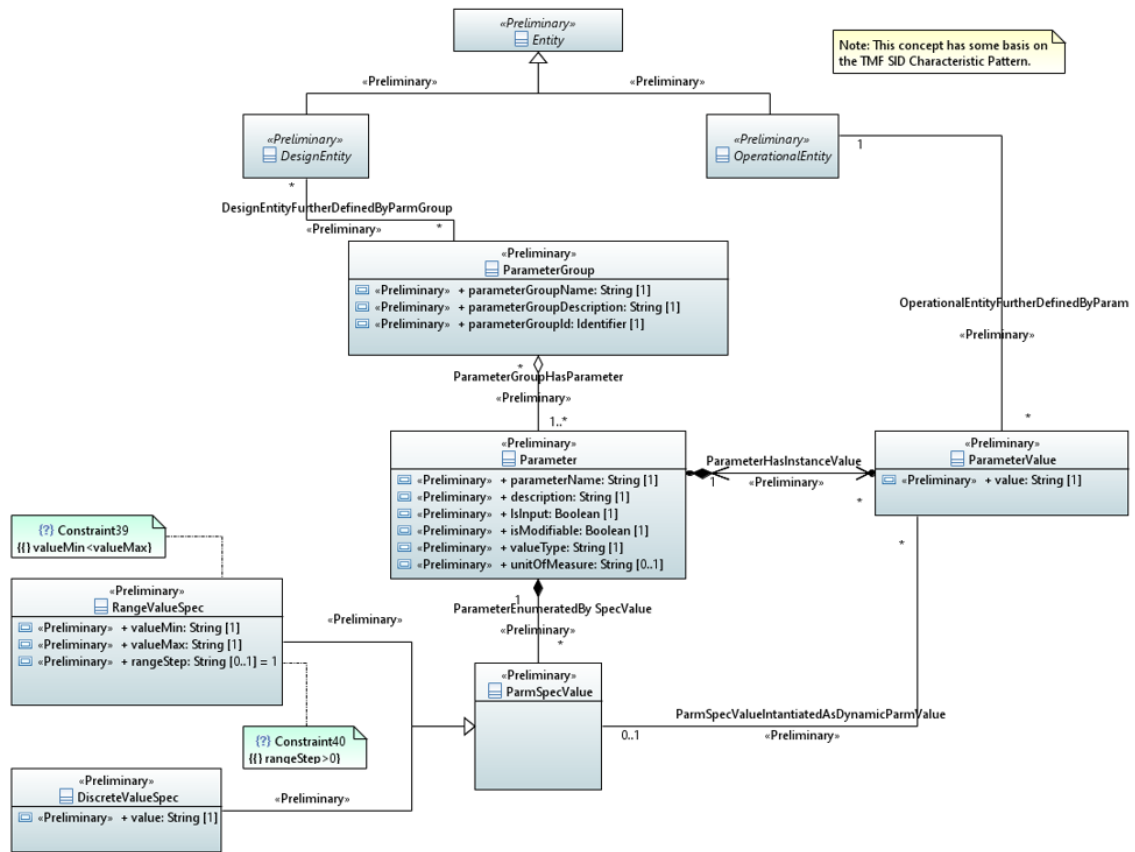


Figure 21: Diagram Dynamic Parameters

2.3 RootObjectClasses

2.3.1 Overview

Qualified Name: Common::Root::RootObjectClasses

2.3.1.1 Classes

2.3.1.1.1 DiscreteValueSpec class

Qualified Name: Common::Root::RootObjectClasses::DiscreteValueSpec

Description:

DiscreteValueSpec represents a specific valid value that a given Parameter can take on.

Parent class: ParmSpecValue

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

Table 21 Attributes for Package RootObjectClasses

Attribute Name	Type	Mult.	Description	Stereotypes
----------------	------	-------	-------------	-------------

value	String	1	A discrete value that the Parameter can take on.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
-------	--------	---	--	---

2.3.1.1.2 Parameter class

Qualified Name: Common::Root::RootObjectClasses::Parameter

Description:

Some parameter that is part of a ParameterGroup. If parameter can only hold certain values, those values are specified via ParameterSpecValue (design time). The actual value is specified via ParameterValue (runtime).

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

Table 22 Attributes for Package RootObjectClasses

Attribute Name	Type	Mult.	Description	Stereotypes
parameter Name	String	1	Name of parameter.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary

IsInput	Boolean	1	Boolean that specifies if this parameter is an input parameter.	OpenModelAttribute partOfObjectKey: 0 uniqueSet: isInvariant: false unsigned: false counter: NA support: MANDATORY Preliminary
parameterValue	ParameterValue	0..*	Parameter can have some number of runtime ParameterValues. Each ParameterValue is also associated with some OperationalEntity (VnfInstance, ServiceInstance, ...).	OpenModelAttribute partOfObjectKey: 0 uniqueSet: isInvariant: false unsigned: false counter: NA support: MANDATORY

isModifiable	Boolean	1	Boolean that specifies if the value can be modified or changed during the life of this parameter.	OpenModelAttribute partOfObjectKey: 0 uniqueSet: isInvariant: false unsigned: false counter: NA support: MANDATORY Preliminary
valueType	String	1	The type of this parameter (integer, string, ...).	OpenModelAttribute partOfObjectKey: 0 uniqueSet: isInvariant: false unsigned: false counter: NA support: MANDATORY Preliminary

unitOf Measure	String	0. 1	A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.	OpenModel Attribute · part OfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
description	String	1	Description of the parameter.	OpenModel Attribute · part OfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary

2.3.1.1.3 ParameterGroup class

Qualified Name: Common::Root::RootObjectClasses::ParameterGroup

Description:

A group of parameters that somehow relate or work together.

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

Table 23 Attributes for Package RootObjectClasses

Attribute Name	Type	Mult.	Description	Stereotypes
parameterGroupName	String	1	Name of ParameterGroup	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
parameterGroupDescription	String	1	Description of ParameterGroup.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
parameterGroupId	Identifier	1	ID of ParameterGroup.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary

2.3.1.1.4 ParameterValue class

Qualified Name: Common::Root::RootObjectClasses::ParameterValue

Description:

The actual value of Parameter (runtime).

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

Table 24 Attributes for Package RootObjectClasses

Attribute Name	Type	Mult.	Description	Stereotypes
parameter	Parameter	1	Runtime ParameterValue is associated with exactly one Parameter. Parameter can have some number of runtime ParameterValues.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY
value	String	1	The actual value of Parameter (runtime).	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary

2.3.1.1.5 ParmSpecValue class

Qualified Name: Common::Root::RootObjectClasses::ParmSpecValue

Description:

A valid value of parameter (design time). Values can be either a range (RangeValueSpec) or discrete (DiscreteValueSpec).

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

2.3.1.1.6 RangeValueSpec class

Qualified Name: Common::Root::RootObjectClasses::RangeValueSpec

Description:

RangeValueSpec generally should have a valueType of either integer or real. valueFrom, valueTo, and rangeStep should all be of the same valuetype for some Parameter.

valueTo should be greater than valueFrom

rangeStep should be greater than zero.

Parent class: ParmSpecValue

Applied Stereotypes:

- OpenModelClass
- support: MANDATORY
- Preliminary

Table 25 Attributes for Package RootObjectClasses

Attribute Name	Type	Multiplicity	Description	Stereotypes
valueMin	String	1	The minimum value that a Parameter can take on.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
valueMax	String	1	The maximum value that the parameter can take on.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary

rangeStep	String	0..1	The specification that a range of values increases in steps, such as a range from 0 to 100 in steps of 5 with the resulting permitted values being 0, 5, 10, 15,...100. This complements the valueFrom and valueTo attributes.	OpenModelAttribute · partOfObjectKey: 0 · uniqueSet: · isInvariant: false · unsigned: false · counter: NA · support: MANDATORY Preliminary
-----------	--------	------	--	---