

# Road Infrastructure Publication Extension Proposal

## Introduction

This is an initial draft for a level B extension proposal for a road infrastructure catalogue and the corresponding quality of service.

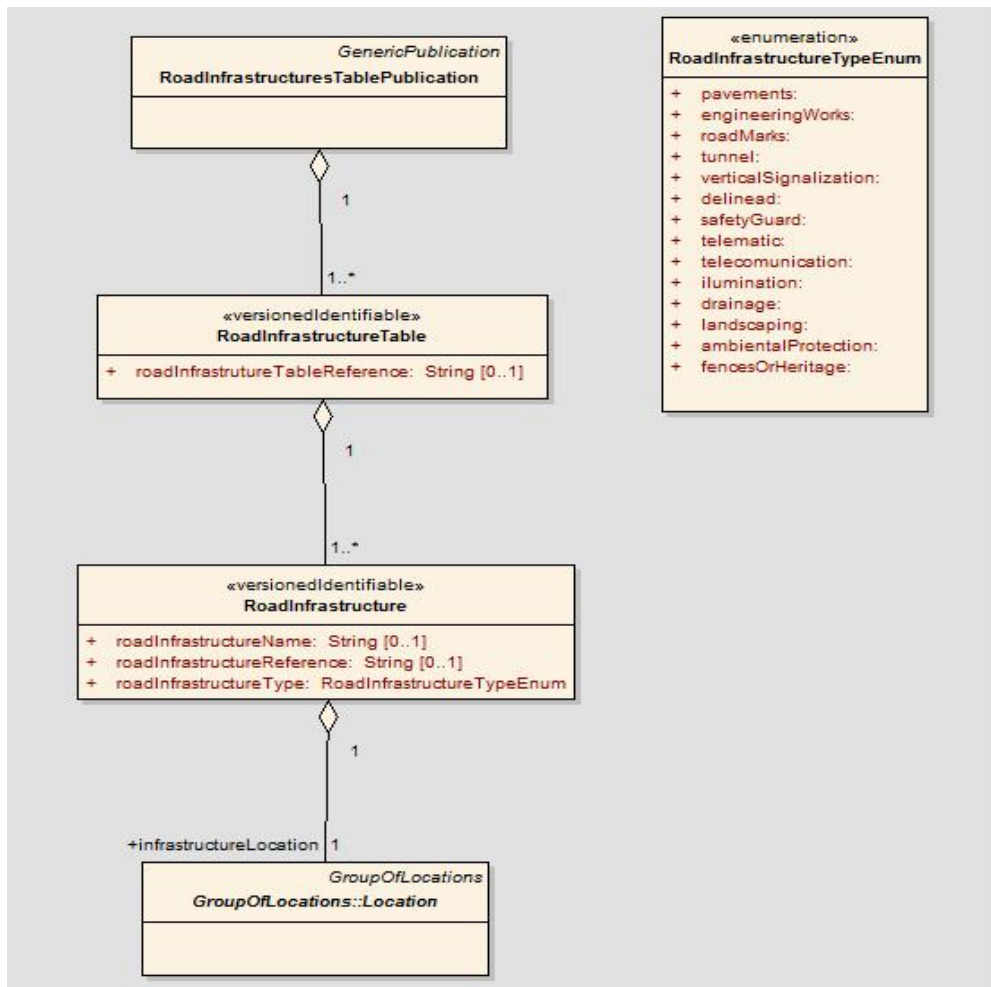
This extension includes the following publications:

- Road Infrastructure Table Publication – The catalogue of road infrastructures
- Road Infrastructure Quality of Service Publication – Measures of QoS for the infrastructure catalogue

## RoadInfrastructureTablePublication

The Road Infrastructure Table Publication supports the description of infrastructure characterization as a catalogue. With this publication each component of a road can be described per location, such as Pavements, Tunnels, Bridges, Road Marks, Telecommunication Equipments, among others.

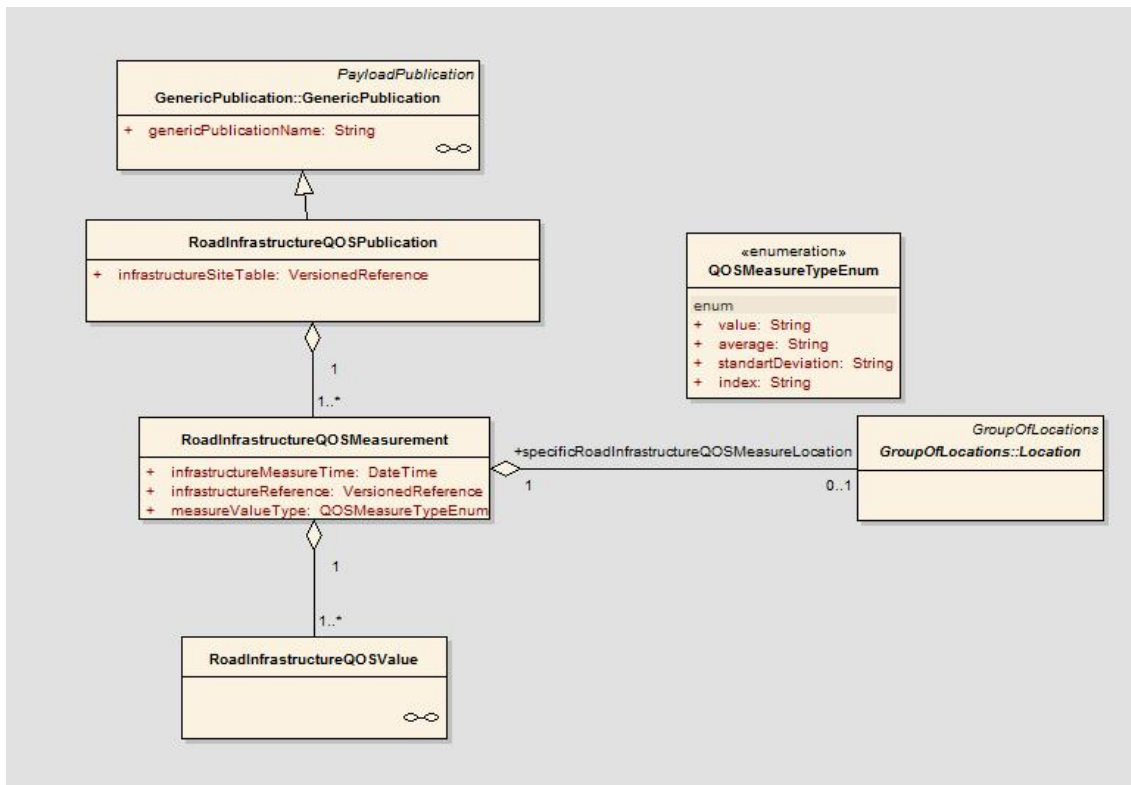
A Road Infrastructure table defines the catalogue that contains all Road Infrastructure records. Each road infrastructure record can be defined by a Reference, Name, Type (enumeration *RoadInfrastructureTypeEnum*) and a Group of locations.



## RoadInfrastructureQOSPublication

This publication allows publishing all the measures of QoS for a catalogue table (Road Infrastructure Table Publication).

Each Road Infrastructure QoS Publication (references a Road Infrastructure Table) can define the measures data (Road InfrastructureQOSMeasurement) taken for all the road infrastructure record. Each Road InfrastructureQOSMeasurement has a date/time, a specific location and a type – QOSMeasureTypeEnum: absolute value, average, standard deviation and one or more measured data values.



## RoadInfrastructureQOSValue

According to the infrastructure type, several quality parameters are considered in this publication. For example, to evaluate the quality of the pavement, the publication considers:

- Estimated Texture Depth
- Friction

- Settlements
- Crusting
- Superficial Texture
- Wheel Path Depth

