Subject: Re: [railml3] Proposing new @epsgCode for <geometricPositioningSystem>
Posted by Milan Wölke on Wed, 25 Feb 2026 17:15:08 GMT
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Hi Mathias,

The problem is, that URI is not a URL. So your example of EPSG:4326 is an URI but it doesn't help you understanding the way the coordinates are formed. The idea of using a simple int is to work around this, so that an importer can decide if he can work with the coordinates or not. After all the vast majority of systems will only support a limited set of coordinate systems that is specifically implemented. Converting CH1903 or DB_REF to WGS84 is not always straight-forward.
The problem with the string or URI approach is that not even the format of the URI is standardized. You can indicate usage of WGS84 with an URI like this: EPSG:4326 or like this: urn:ogc:def:crs:EPSG::4326. I have also seen sth like this: https://spatialreference.org/ref/epsg/4326/projjson.json

When implementing an importer I think the only thing you can do is to use a regular expression, and that is probably not exactly safe.

Does this make sense to you, or am I overlooking something here?

Best regards, Milan