Open Standards and Open Source Software Code Sprint

OGC Standards, OSGeo projects, and ASF Apache Projects

(April 25th to April 27th, 2023)

● **OGC Standards:**

Drafting GeoAPI Implementation Standard: The GeoAPI Implementation Standard defines the way to implement the API for geospatial data and its application in different programming languages, mainly Java and Python are taken into consideration. There exists a draft for Java programming language. To bridge the gap between two programming languages, i.e., Java and Python, a draft is being prepared for Python programming language with similar functions and libraries of Java programming language Both the GeoAPI Implementation Standards will comply with ISO Standards.

Draft link for Java GeoAPI:

https://opengeospatial.github.io/ogcna-auto-review/23-016.html#_ae9cec78-5470-4e72-91ef-5cee3a2b85b5

Draft link for Python GeoAPI bridging gap for Java:

https://docs.google.com/document/d/1wC08x9mImnCxNybutRy5qGRersvZTI5RkWMFJrOQ0yw/edit?usp=sharing

● **Indoor GML**: The e-learning material for indoor GML will be prepared from the very basics to intermediate to an advanced level in the next few months (approx. 6-9 months from basic to advance).
Issue: When there will be different sizes of walls in the room, how will the cells be assigned? Example: Considering an office area where a hall is divided into different cubicles. The cubicles are created with the help of temporary partitions which are not of the height of the wall. Each cubicle is allocated for a designated task and needs a unique location point. Since it is not divided by walls, there is no unique distinction for that cubicle. In this case, how can the temporary walls creating the cubicles be marked and a specific location be created for the cubicle so that navigation to that cubicle is feasible?

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