Change Request #: 323

Assigned OGC Document #: 13-105

Name: *Pedro Goncalves
Organization: *Terradue Srl
Email: *pedro.goncalves@terradue.com

Document Name/Version: *MIME Media Types for GML / 1.0
OGC Project Document: *09-144

If this is a revision of a previous submission and you have a Change Request Number, then check here: ☐
Enter the CR number here:  
Enter the Revision Number that you are revising here:  

Title: * [GML 3.3 SWG] Addition of profile parameter to GML MIME type

Source: *pedro.goncalves@terradue.com

Work item code: 

Category: *C (Functional modification of feature)

Reason for change:

The current usage of GML MIME types show that users/applications have the need to express the profile they are supporting.

For example, it is quite normal to see WFS output format to announce values like:

```
text/xml; subType=gml/3.1.1/profiles/gmlsf/1.0.0/0
```

to express the support of simple features.

This usage of the text/xml is invalid and breaks MIME type formatting rules so we need to support this directly on the GML MIME type.

Currently, in the GML MIME type we can only express the version like:

```
application/gml+xml; version=3.1
```

(note: only the major and the first minor version number are supported)

but it is not possible to express the profile.

Summary of change:

#1 Add an optional parameters called "profile" that allows resource representations to indicate that they are following one or more profiles.

The profile definition is inline with rfc6906:

"A profile is defined not to alter the semantics of the resource representation itself, but to allow clients to learn about additional semantics (constraints, conventions, extensions) that are associated with the resource representation, in addition to those defined by the media type and possibly other mechanisms."

the notions of profile and media types is also discussed here http://tools.ietf.org/html/rfc6906#page-4

Note: There is precedence for an equivalent profile parameter on RFC6381

"The Codecs and Profiles Parameters for Bucket Media Types"

http://tools.ietf.org/html/rfc6381#page-12

#2 Remove the restriction on the version number to the first minor version.

Currently the document says:

- Only the major and the first minor version number are provided, e.g. "3.2".

1 of 2
<table>
<thead>
<tr>
<th><strong>Consequences if not approved:</strong></th>
<th>Proliferation of multiple, incompatible and invalid mime type for GML documents on OGC services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clauses affected:</strong></td>
<td>* N/A</td>
</tr>
<tr>
<td><strong>Additional Documents affected:</strong></td>
<td></td>
</tr>
</tbody>
</table>
| **Supporting Documentation:**    | http://tools.ietf.org/html/rfc6906  
http://www.ietf.org/rfc/rfc2045.txt  
http://peakgis.com/2013/07/18/wfs-and-true-interoperability-is-the-key-really-gml-simple-features-gmlsf-profile/#comments  
http://www.ietf.org/mail-archive/web/ietf-types/current/msg01243.html |
| **Comments:**                    |                                                                                                  |
| **Status:**                      | Assigned                                                                                       |
| **Assigned To:**                 | GML 3.3 SWG                                                                                    |
| **Disposition:**                 | Referred                                                                                       |