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Change Request #:	220
Assigned OGC Document #:	12-071
Name:	*Oaten Lewis
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Document Name/Version:	*Location Service (OpenLS) Implementation Specification: Core Services / 1.2.0
OGC Project Document:	*07-074
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:	* OpenLS GeocodingResponse Polygon/LineString enhancement
Source:	*Lockheed Martin
Work item code:	
Category:	* C (Functional modification of feature)
Reason for change:	* An enhancement to functionality as well as keeping up with common usability practises.
Summary of change:	* Permit use of GML LineString and Polygon instead of only Point in GeocodeResponse and ReverseGeocodeResponse.
Consequences if not approved:	
Clauses affected:	* 8.3.2.1, 8.3.2.2

Additional Documents affected:	
Supporting Documentation:	
Comments:	The change that I would like to see in the OpenLS standard relates to geocoding and reverse geocoding sub-standards. Responses for both include a Point object in GML format. I believe that this should be unconstrained to optionally use LineString or Polylygon instead. The reason for this is that a GeocodingRequest for "Pennsylvania" might return a GeocodingResponse Address FreeFormType like "Pennsylvania, USA" with a Point " 41.203321 -77.194523". For simplicity of typing, I won't provide the full response. The problem is that there is no simple method to determine the scale at which the search has been performed. You could analyse the structure of the returned address, look at the precision of the resulting coordinates or use the bounding box of the users client, but these are very inaccurate methods and cannot guarantee that you will provide a view to the user that frames the returned Address. If a Polygon, LineString or Point was returned with the address then it would be trivial for a client to either calculate the centre point for a marker, create a bounding box to position the users view or overlay a vector which demonstrates the exact position and outline of the object which was searched for. I believe that this is functionality which users now expect as both Google Map's and Open Street Map's geocoding web service provide a Polygon with many results.
Status:	Assigned
Assigned To:	OLS 1.3 SWG
Disposition:	Referred and Posted