

## Paper for Consideration by Data Quality Working Group

## ISO TC211 standards





<b>Submitted by:</b>	DQWG-Chair
<b>Executive Summary:</b>	Monitor development of ISO standards and implementation within IHO.
<b>Related Documents:</b>	ISO TC211.
<b>Related Projects:</b>	S-1xx standards

**Introduction / Background**

ISO TC211 standards describe the standards for Geographic Information. With the transition from S-57 to S-1xx, the relevant ISO standards should be used as reference for development of HSSC standards. HSSC tasked DQWG to develop a minimum standard for data validation and to develop a data quality checklist.

**Analysis/Discussion**

At [www.iso.org](http://www.iso.org) there is a list of TC211 standards available for Geographic Information. The relevant items are listed below, with in indication for which WG/PT this standard may be relevant. .

ISO standard	Year of release	Description	WG/PT relevant
19107	2003	Spatial Schema	ENCWG – S-58
19107	Under development	Spatial Schema	ENCWG – S-58 
19125-1	2004	Simple feature access – part 1: common architecture	ENCWG – S-58
19130-2	2014	Imagery sensor models for geopositioning – Part 2: SAR, InSAR, lidar and sonar	HSPT – S-44
19131	2007	Data product specifications	S-100WG – S-1xx
19131	Under development	Data product specifications	S-100WG – S-1xx 
19152	2012	Land Administration Domain Model	S-121PT
19157	2013	Data Quality	DQWG – S-1xx
19157	Under development	Describing data quality using coverages	DQWG – S-1xx 
19157-2	2016	Data Quality Part 2: XML schema implementation	DQWG – S-1xx
19158	2012	Quality assurance of data supply	S-100WG – S-1xx
19159-2	2016	Calibration and validation of remote sensing imagery sensors and data – Part 2: Lidar	HSPT – S-44
19161-1	Under development	Geodetic references – Part 1: The international terrestrial reference system	HSPT – S-44 S-100WG – S-1xx 
19163	2016	Content components and encoding rules for imagery and gridded data – Part 1: content model	S-102 PT

**Conclusions**

DQWG should monitor the publication of standard 19157-describing data quality using coverages.

**Recommendations**

DQWG should take notice the relation between data quality measures and quality issues arising from the other ISO TC211 standards.

**Justification and Impacts**

When an ISO standard is updated and replaced by a standard already used when drafting the HSSC standards, an impact analysis should be made. Adjustment of the HSSC standard may be needed.

**Action Required of Data Quality Working Group**

The DQWG is invited to:

- a. note this report;
- b. agree on the conclusion and recommendation;
- c. advice other WG/PTs.