

**4th IHO-HSSC Meeting  
Busan, Republic of Korea, 10-13 November 2015**

**Paper for Consideration by HSSC**

**DGIWG Report to IHO HSSC7**

<b>Submitted by:</b>	DGIWG
<b>Executive Summary:</b>	This paper reports on the activities of the Defence Geospatial Information Working Group (DGIWG) that are relevant to the work of the HSSC
<b>Related Documents:</b>	Reference A: DGIWG IHO Cooperation Agreement <a href="http://www.iho.int/mtg_docs/International_Organizations/MOU/DGIWG_IHO_Cooperation_Agreement.pdf">http://www.iho.int/mtg_docs/International_Organizations/MOU/DGIWG_IHO_Cooperation_Agreement.pdf</a>
<b>Related Projects:</b>	

### **Introduction / Background**

1. DGIWG (Defence Geospatial Information Working Group) is the multi-national body responsible for geospatial standardization for the defence organizations of member nations. It develops standards based on the ISO TC211 series of standards and makes use of the service specifications endorsed by the Open Geospatial Consortium. DGIWG has a cooperation agreement (reference A) with IHO which seeks to ensure cooperation in areas of mutual interest.
2. Historically cooperation between DGIWG and IHO has been strong and this included the Hydrographic Information Harmonization Working Group (HIHWG) which enabled the convergence of previous standards. As a new generation of standards evolve in both communities, co-working is vital to avoid divergence and ensure interoperability. Furthermore in times of cost constraint for all nations, the need to realize possible synergies in areas of mutual interest is greater than ever.

### **Discussion**

3. Both DGIWG and IHO are developing frameworks for the exchange of geospatial data built on ISO 19100 standards. For IHO the S-100 standard has been published and is evolving as product specifications develop. DGIWG is developing its Defence Geospatial Information Framework (DGIF) which provides a similar framework for the Defence community.
4. As Geospatial information transitions into the digital domain, the need for standardization has become greater than ever. In order to support efficient exchange and use of GI by organizations across military and civilian communities, common or aligned conceptual models need to be used. Where appropriate data models within these should also be aligned (the HIHWG being an example of this). IHO and DGIWG have the opportunity to ensure the maximum possible alignment as the next generation of standards evolves. As both communities extend and profile ISO and OGC standards, possibilities for divergence may occur. There is also a risk of duplication with organizations developing very similar components of their standards suites.
5. The following areas of current development work may be of interest;
  - a. Portrayal Registers and the standardization of Portrayal information as described in ISO 19117.
  - b. Metadata Registers.
  - c. Coordinate Reference System and Units of Measure Registers
  - d. Profiles of OGC web services

**Conclusions**

6. DGIWG and the IHO have a formal basis for cooperation. At this time, a need for greater active cooperation exists and areas of possible synergy should be explored. At this stage active participation in working groups of both organizations by interested nations is required.

**Recommendations**

7. Member states are invited to encourage active cooperation of their relevant organizations within both IHO working groups and the DGIWG.

8. The IHO S100WG is encouraged to engage with DGIWG in areas of mutual interest.

**Action Required of HSSC**

9. The HSSC is invited to:
- a. note the paper, and
  - b. encourage active cooperation with DGIWG