**Marine Harbour Infrastructure (S-xxx)**

Subject: Marine Harbour Infrastructure (S-xxx) Scoping Meeting #3

Date: 22 September 2020

Forum: GoToMeeting sponsored by IHO

Attendees: Jens Schroeder-Furstenberg (BSH) (Chair)

 Yoshitsugu Atsumi (JHOD)

 Michihiro Nagao (JHOD)

 Shwu-Jing Chang (NTOU)

 Hyunsoo Choi (KRISO)

 Yves Guillam (IHO)

 Allan Idd Jensen (DGA)

 Simon Vammen (DGA)

Michael Kushla (NGA)

 Thomas Loeper (NOAA)

 Tina Perry (NOAA)

 Raphael Malyankar (Portolan Services)

 Eivind Mong (CHS)

 Charline Gillard (CHS)

 Svein Skjaeveland (PRIMAR)

 Ben van Scherpenzeel (IHMA)

Wilfred den Toom (Netherlands)

Elena Armanino (IHI)

Yves LeFranc (SHOM)

Jonathan Pritchard (IIC)

**General**

Jens thanked Jonathan Pritchard for his work on the initial Enterprise Architecture and the development of the UML schema.

The plan for today:

1. Final review of the spreadsheet.
2. PowerPoint presentation from Jonathan on the Enterprise Architecture work. Jens will add the slides to the NIPWG wiki.
3. Round the table discussion for any final comments.

**Spreadsheet Scoping Discussion**

Final discussion centered around the spreadsheet. The group continued with a line by line review of the Features/Attributes listed in the spreadsheet:

1. Port Area/Harbour Area—S-101 features. Certain additional feature attributes can come from IMO Blue Code and S-32. AIS could help identify the main purpose of facilities. It may also be useful at the highest level of architecture.
2. Limiting Conditions—Could be either an enumeration or text attribute. The challenge of an enumeration is that the list can be endless but still incomplete. Text offers more flexibility.
3. Social/Political items—Selected initially-discussed items (SNPWG scope) are incorporated.
4. Anchorage Areas—S-101 feature with additional NPUB information class features.
5. Port Section (Line 160)—Definitions might be useful.
6. Terminal—Proposal from NTOU added URLs/MRNs. IMHA wants a more globally unique identification number. Additional proposaql from IIC to combine all identifier attributes in a complex attribute. The information flow would be:

Harbour (Harbour-specific IDs) → Converter → HOs (MRNs) → Converter → ECDIS (Harbour-specific IDs)

The conversion to Hos MRNs is needed for interoperability.

1. Harbor Facilities—Covered in S-101. Need Port Facility Numbers from the IMO. Also see Point 6 above.
2. Mooring Facilities—Add Breasting Dolphin (?), Quick Release Hook, and Mooring Dolphin as categoryOfMooringFacilities values.
3. Pilot Boarding Place—Covered in principle by S-127.
4. Emergency Coordination Center—Basic information to be provided.
5. Types of cranes (mobile, fixed, etc.)—Discussion of two use categories of cranes:
	1. Ship services—available to entire port to any ship (example—lifting a new radar to the mast). To be added to harbor area/port area.
	2. Cargo services—Linked to a specific port facility. Keep for future versions of product specifications.

**Note.—**Tabled for now.

**Final Spreadsheet Comments**

Jens—The scoping discussion is complete but is it enough to proceed ahead? Eivind, Raphael, and Johnathan say Yes.

The following need to be taken into account:

1. Need for more and better definitions of terms
2. Can build on the application schema with more details from NIPWG.
3. Need to develop a Justification and Impact Statement.
4. Costs—Money, time, and personnel?

Tom—This is a very complex work and is more than initially envisioned. Is this really in our “wheelhouse?”

Ben—Emphasized ports will provided information needed, either electronically or in other formats.

**Closing (Round the Table) Comments**

Eivind/Raphael—Ready for the next stage, but still a long process with lots of work left to do.

Yves (IHO)—Informed group that the designation S-130 has been officially assigned to another group. NIPWG would need to get an officially-assigned number for the Marine Harbour Infrastructure standard.

Elena (IHI)—Discussed the “small harbor plans” currently in the Italian Portolanos (containing port services information) and how the new Product Specification will affect the plans. Jens stated this would be the ENC chart base enhanced with S-1xx data and would appear on top of the chart (as a new layer?).

Tom (NOAA)—Agreed with Ben’s statement that larger ports would be taking the lead on using the IHMA Port Information Manual (PIM). It would be very useful for new ports. Smaller ports would only be adding the information that applies to them.

We could make the Product Specifications a provisional item and have them reviewed by the IHMA.

Jens (BSH)—The IMHA Port Information Manual is only one source. Others are Sailing Directions, Radio Aids, etc.