

ISO TC 184/SC 4/WG 3/T 23 (SHIP TEAM) Minutes

Hershey 2006-10

Theme: T23 Enhancements and Discrepancy Planning

Co-Chairpersons

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For copies of meeting minutes annexes contact Mr. Mays.

Attendees

An, Kyung-ik	Korean Delegation
Benson, Peter	ECCMA
Boday, Allyn	Northrop Grumman Ship Systems
Briggs, Ted	Intergraph
Gischner, Burton	GD Electric Boat
Han, Soonhung	Korea Advanced Institute of Science and Technology (KAIST)
Inouye, Takashi	Ship STEP Committee of JSTRA Fjitsu Kyushu System Engineering LTD
Lazo, Pete	Product Data Services Corporation
Mays, James	Naval Surface Warfare Center, Carderock
Palmer, Mark	NIST
Radack, Gerald	CTC
Richards, Kevin	Northrop Grumman Information Technology
Sandsmark, Nils	DNV
Turner, Tim	LSC
Wood, Ron	Northrop Grumman Ship Systems

Monday

Joint meeting with T10

T23 met in the T10 meeting room. T10 members did not show up so AP 212 enhancements and discrepancies from shipbuilding experience NSRP ISE 4 demonstration was not discussed. AP 212 E2 may be modular so the issues may not be relevant.

Joint meeting with T24

T23 met in the T24 meeting room. T24 members discussed AP 218 enhancements and discrepancies from NSRP ISE 4 demonstration (SEDS REPORTS 1178 text and marking and 1179 physical joint definition). Kevin Richards of NGIT walked the meeting through 3 SED reports NSRP identified to improve.

1. Additional data can be provided in AP 218 to support manufacturing application software that is used to nest parts on plate to maximize the number of pieces cut (water jet, torch, laser, plasma) from a plate on the shop floor. An amendment appears possible to address this issue based on WG 12 input.

2. Additional attributes can be added to the STEP AP218 specification to support the definition of the physical joint between two structural entities. This change is motivated by the need for the steel processing systems to:

- relate raw material data with the manufacturing processes that are defined as part of a work package,
- validate the integrity of various types of connections, and use information contained within the work package for downstream processes.

An amendment appears possible to address this issue based on WG 12 input.

3. Each manufacturing definition of a part can have any number of text annotations (labels) with an optional single point specifying its location. Layout marks consists of curves only. There is no association between an annotation and a layout mark and no direct means of designating a symbol. Labels and layout marks are distinguished as being on the top or bottom surface of a part. An amendment appears possible to address this issue based on WG 12 input.

T24 thought that these issues could be worked in collaboration so that AP 238 features and T 23 AP 218 features and needs are addressed with the same data structures.

Tuesday

Jim Mays opened the meeting. The theme of the week is reviewing enhancements and discrepancies submitted from pilot implementations. The intent is not to resolve every SED but to determine if they are corrections or enhancements and then develop a plan to address the issues.

Burt Gischner gave the NSRP report of US activities. See Annex B.

Discuss led to possibility International Association for Classification Societies (IACS) would be interested in adding survey model into AP 218 if enhancements are undertaken.

SEDS report 1002 for AP 218 was discussed. It addresses editorial corrections.

Pete Lazo briefed the T 23 team on SED 1185 that will be discussed with WG12 after break. Based on the SED 1185 meeting with WG 12 an amendment appears possible to address the identification of redundant surfaces between AP 216, 215, and 218 based on both WG 3 and WG 12 input.

Gerry Radack described:

13584 (Part Library)

15926 (Integration of Lifecycle Data)

22745 (Open Technical Dictionary)

NSRP Common Parts Catalog (CPC)

OTD must be in public domain and must be accessible through web services for free.

eOTD is the only instantiation of OTD in process and is codifying NATO cataloging requirements.

PLIB has a strict hierarchical model. OTD takes a more pragmatic approach. See Annex C.

Gerry Radack briefed us on the SEDS reports. They are categorized as open, closed, or incorporated.

AP 218 SEDS Reports Resolution Workshop

Enhancements and discrepancies for AP 218 were reviewed. See Annex D for attendees and resolution.

AP 227E2 SEDS Reports Resolution Workshop

Joint T 23 and T 22 (Building and Construction) workshop reviewed SEDS reports for AP 227E2. See Annex E for attendees and resolution.

Wednesday

The T23 team attended the morning plenary session and the Implementers Forum.

AP 216 SEDS Reports Resolution Workshop

AP 216 enhancement and discrepancy reports were reviewed. See Annex F for attendees and resolution.

AP 215 SEDS Reports Resolution Workshop

Ship arrangement issues from the SEDS database were discussed. See Annex G for attendees and resolution.

Thursday

Nils Sandmark of DNV is the current chairman of eMSA and briefed the status of eMSA efforts. Their principle interest is in AP 239, 233, and 209, in that order. NSRP and eMSA collaboration on the above APs was discussed based on NSRP funding and eMSA interest.

Meeting plans were discussed for Funchal. A Funchal implementation forum was discussed to bring different industry and government efforts together to share lessons learned and future projects.

The meeting participants decided to focus on SEDS reports rather than discuss Outfit and Furnishings or Implementers Agreements. Additional SEDS problems and proposals were reviewed and the results are in Annex D through G.

The meeting was adjourned.

Acronyms

AAM	Application Activity Model
ABS	American Bureau of Shipping
AEC	Architecture, Engineering, Construction
AIC	Application Interpreted Construct
AIM	Application Interpreted Model
AP	Application Protocol
AP 212:2001	Electrotechnical design and installation

AP 215:2004	Ship arrangements
AP 216:2003	Ship moulded forms
AP 218:2004	Ship structure
AP 227e2:2005	Plant spatial configuration
AP 239:2005	Product Lifecycle Support
ARM	Application Reference Model
ATC	Abstract Test Case
ATS	Abstract Test Suite
BB	Building Blocks
CC	Conformance Class
CD	Committee Draft
CPC	Common Parts Catalog
DIS	Draught International Standard
DNV	Det Norske Veritas
EB	Electric Boat
EDIMAR	Electronic Data Interchange for the European MARitime Industry
EMSA	Marine e-business Standards Association
ERAM	Engine Room Arrangements Model
ESTEP	Evolution of STEP
GL	Germanischer Lloyd
GUID	Globally Unambiguous IDentifier
HTML	Hyper Text Mark-up Language
IEC	International Electrotechnical Committee
IGES	Initial Graphics Exchange Specification
IPO	IGES/PDES Organization
ISE	Integrated Shipbuilding Enterprise
ISO	Organization for International Standards
JMSA	Japan Marine Standards Association
KAIST	Korea Advanced Institute of Science and Technology
KRISO	Korea Institute of Ships and Ocean Engineering
LR	Lloyd's Registry
MARVIN	Maritime Virtual Enterprise Network
MoD	Ministry of Defence
MoU	Memorandum of Understanding
NASSCO	National Steel and Shipbuilding Company
NAVSEA	Naval Sea Systems Command
NCALS	Nippon Computer Aided Acquisition and Logistics Support
NIDDESC	Navy/Industry Digital Data Exchange Standards Committee
NIST	National Institute of Standards and Technology
NNS	Newport News Shipbuilding
NSRP	National Shipbuilding Research Program
NSWC	Naval Surface Warfare Center
NWI	New Work Item
O&F	Outfit and Furnishings
OTD	Open Technical Dictionary
PDES	Product Data Exchange using STEP
PDM	Product Data Management
PLIB	Parts LIBrary, ISO 13584
POSC/CAESAR	European Effort for Offshore APs
ProSTEP	German STEP consortium in the automotive industry
QA	Quality Assurance
QC	Quality Committee
RAM	Reliability and Maintainability
RDL	Reference Data Language
SC	Subcommittee
SCM	Ship Common Model

SEDS	Standards Enhancement And Discrepancy System
SGML	Standard Generalize Mark-up Language, ISO 8879:1986
SOLIS	SC4 On-Line Information Service
STEP	Standard for the Exchange of Product Model Data, ISO 10303
TBD	To Be Determined
TC	Technical Committee
UoF	Units of Functionality
US PRO	U.S. Product Data Association
WG	Working Group
XML	eXtensible Mark-up Language (Web data extensions to SGML)

Annex A – Hershey Agenda

t23-hershey-min-annex-a-agneda.htm

Annex B – US NSRP Report

NSRP report from Dr. Gischner

Annex C – Library Standards Report

Part library report from Dr. Radack.

Annex D – AP 218 SEDS Reports Resolution Workshop, WG3 N2209

Annex E – AP 227E2 SEDS Reports Resolution Workshop, WG3 N2210

Annex F – AP 216 SEDS Reports Resolution Workshop, WG3 N2208

Annex G – AP 215 SEDS Reports Resolution Workshop, WG3 N2207

Annex H – T23 Action Items