

STEP AP242 e2 status

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ISO /TC 184 /SC 4 meeting in Chicago, Nov. 2018

Resolution "o": Edition 2 of ISO 10303-242, from WG 12

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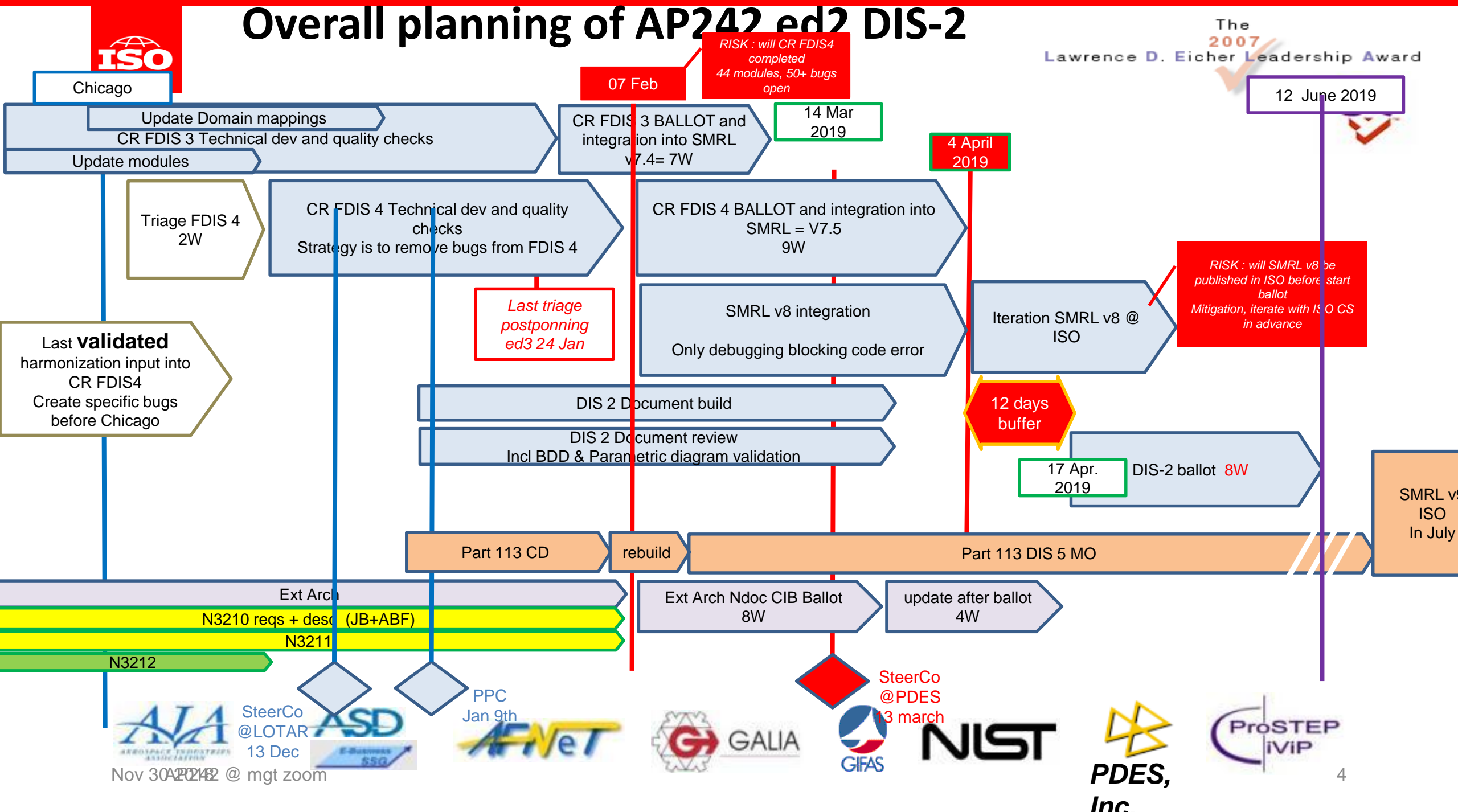


Resolution: SC4 agrees that the following points specified by WG 12 for the way forward with AP 242ed2 DIS and the extended architecture specification shall be used as a basis for the second AP 242ed2 DIS ballot:

1. Agreement to **retain ISO/TS-4442 in the standard**
2. Agreement to continue **to provide an EXPRESS representation for the Integrated Resources, AIM , ARM and Domain Model**
3. Agreement **to retain EXPRESS**
4. Agreement to **use SysML as the modelling language for AP242ed2 domain model in ISO/TS-4442**
5. Agreement **to re-ballot the standing documents N3210, N3211 and N3212** with a revision to focus the documents only on the specific materials required to support AP 242ed2 and ISO/TS-4442. All materials that speak to the future state of the extended architecture will be moved to a technical report and addressed as a by an ad-hoc group on the strategy for extended architecture with Allison Barnard Feeney as chief editor. SC 4 invites members from each NSB to join and contribute to the refinement of the content
6. Agreement to create SMRL V8 with the required update that support AP 242 ed2.
7. Agreement to create one or more NP that address the implementation of SysML as a modelling solution into the internal procedures of SC 4. This work will primarily impact WG 11 & coordination has taken place at Chicago meeting to define the work required by WG 11
8. Acknowledgement that the strategy for extended architecture contained in the technical report will require further action by the ad hoc group as there exists a strong dependency between the strategy and the implementation of follow on capabilities for AP 239 and AP 243.
9. Acknowledgement that future releases of extended architecture capabilities will require update and revision of the standing documents noted. These standing documents shall be balloted incrementally as changes are declared.
10. Acknowledgement that the current priority is to resolve documented comments against the ballot content for AP242ed2. **Any discovery or comments not formally declared will be noted as a bug in the bug tracking system against a future edition.**

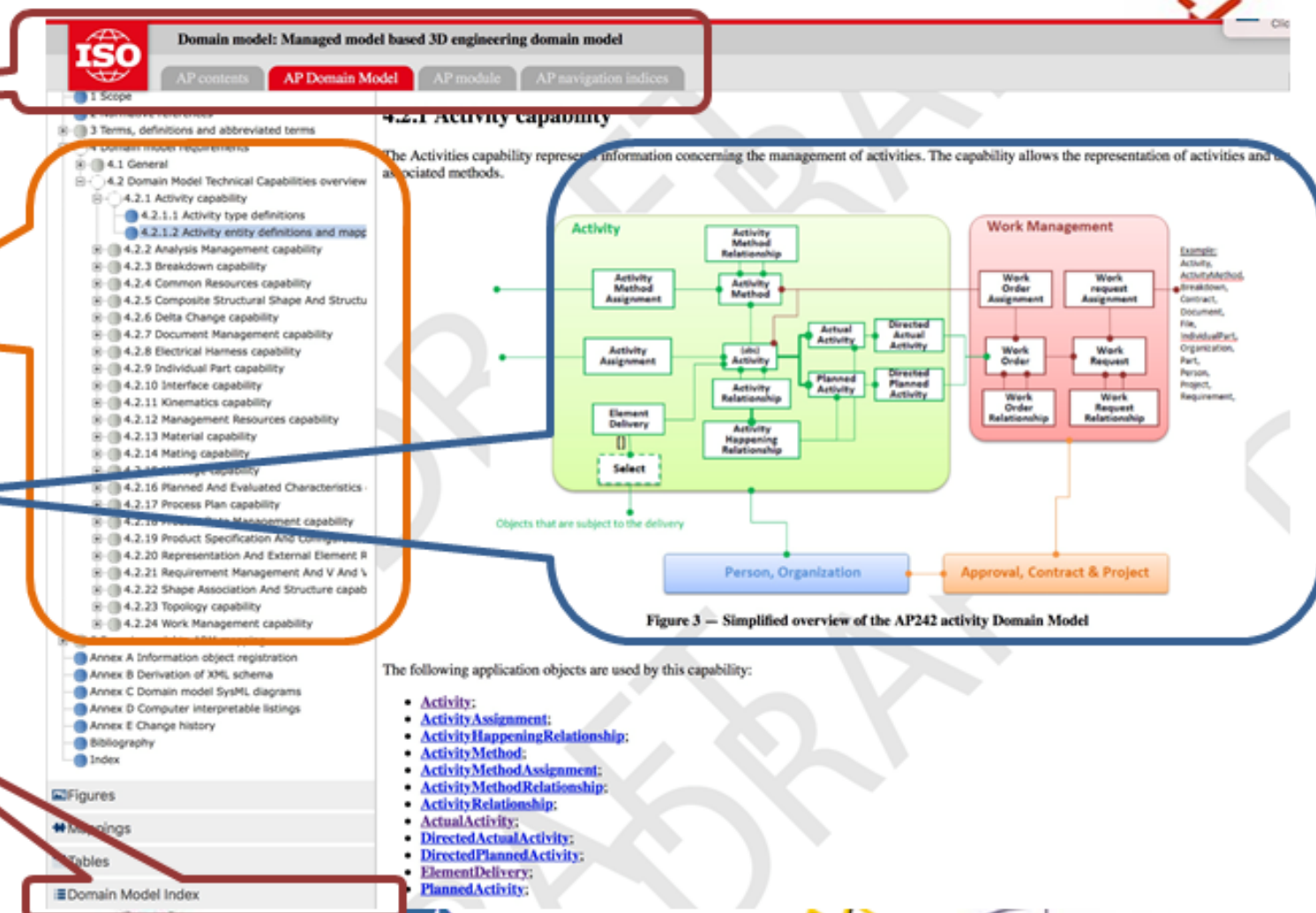
Overall planning of AP242 ed2 DIS-2

The 2007 Lawrence D. Eicher Leadership Award



HTML enhancements of the P4442 domain model documentation

- Color header to be reviewed and validated by ISO-CS and WG12
- Clause 4 divided in sub-clauses per capabilities
 - Fast display of the pages
- Added high level figures at the beginning of each subclause 4.n
- Added the type and entity indices in the left pane



CR Status

- FDIS 1 in out for Ballot
- FDIS 2 in last quality checks
- FDIS 3 ready for quality checks
- FDIS 4 in final work, target is still Feb 7th
 - Still have 60+ technical bugs to close

Issue: Availability of the SHTOLO capability during the US GOV shutdown (temporarily solved for 3 weeks since Jan 28)



SHTOLO issue



- The team do not have access to the SHTOLO tool.
- Timing issue NOW ... it is a show stopper for the CR builds, the SRML and AP publication
- Critical for the project ...
- Options:
 1. NIST runs SHTOLO
 2. PDES contracts a resource to run the SHTOLO
 3. EEngine is available in time with the SHTOLO function

- **Direct impacts:**
 - Allison Barnard Feeney, Robert Lipman, Tom Hedberg
- **Indirect impacts due to contracting issues**
 - Thomas Thurman
- **Valid contracts but issue may raise if more resources are needed than what is covered by existing contract**
 - Darla Edwards, Keith Hunten, Craig Lanning

Tasks which have been on hold :

- *Editing the STEP Extended Architecture N-docs to meet deadline for publication.*
- *Review of the STEP Extended Architecture*
- *Publication support to Kevin le Tutor*
- *Architecture support to PMI bugs*
- *Architecture support to WG12/21*
- *Architecture support AP210 as impacted by bug resolution*
- *Operation of SHTOLO*
- *WG12/21 Convener Reviews : May be over spent on the contract*
- *Quality and English Review: May be over spent on the contract*



Overview of the STEP Extended architecture NDocs



N3210 (2018)

Extended Architecture high level description

- 1 Scope
- 2 Normative references
- 3 Terms, definitions and abbreviated terms
- 4 ~~History, context, objectives & fundamental principles~~
- 5 AAM, Domain Model, SysML ARM
- 6 STEplib (description)
- 7 ~~Annexes extended architecture roadmap~~

N3211 (2018)

STEplib SysML detailed specifications

1. Introduction
2. Scope
3. Normative references
4. Terms, definitions & abbreviated terms
5. Desc. of the diff. components of the architecture
6. SysML constructs and their usage in the STEP Extended Architecture
7. EXPRESS modelling language constructs and their equivalence in STEP Ext. Architecture SysML
8. Bibliography
9. ~~Annexes~~
- 9.1 Files, Packages and structure of models

N3212 (2018)

HTML Publication Design Document

- 1 Scope
- 2 Normative references
- 3 Terms, definitions & abbreviated terms
- 4 Directory structure
- 5 HTML design
- 6 Diagrams
- 7 Bibliography
- 8 ~~Annexes~~

Extended Architecture requirements Draft Technical Report

- 1 Requirements table extracted from N3210

Extended Architecture Draft Technical Report

- 1 Scope
- 2 Normative references
- 3 Terms, definitions & abbreviated terms
- 4 N3210:4 : History, context, objectives & fundamental principles
- 5 N3210:7: Roadmap
- 6 N3210:6 : STEPLIB
- 7 N3211:9.2,9.3,9.4

STEP Extended Architecture (ISO 10303)

Broader
community
using
STEP
knowledge

New
STEP
Developers
(UML/SysML,
XML, etc.)

Standard
Model
Based

Integrated
Standard

Multiple
implemen-
tation
forms

Express
integration
& SysML
modelling



Status of

STEP Extended architecture NDocs



- Now that NIST is back with the team, we expect Documents to be validated before February 7th.
- Parts 15-16-17 NWI validated and projects started on Jan 14th
 - Part 16 first Draft available to the team for review
 - Parts 15 and 17 expected for end February