

NDIA CMMI Working Group

NDIA System Engineering Division

June 17, 2015

CMMI WG: Standards Mappings

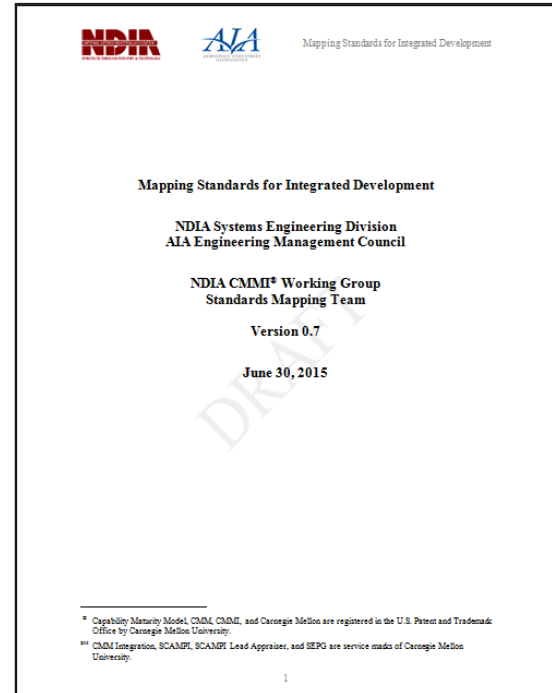
NDIA consensus mappings between leading standards will help facilitate company migration to IEEE 15288.x.

- Translate currently implemented company standards and process mappings to 15288
- NDIA mappings developed by consensus of subject matter experts

Complements deployment strategy from DoD/NDIA IEEE 15288 working group.

Participating organizations

Lockheed Martin	Harris
Leidos	L-3 Communications
Integrated System Diagnostics	Boeing
Process Improvement & Consulting	Raytheon
Northrop Grumman	Method Park
Orbital Sciences	BAE Systems
IEEE Computer Society	CERTON



Mapping document v0.7 nearing ready for NDIA/AIA review and approval to publish

IEEE 15288 Standards Set Published May 2015

IEEE Std 15288.1-2014

The attached document is a draft product of a project being conducted jointly by ISO/IEC JTC 1/SC 7 and the IEEE Software and Systems Engineering Standards Committee. Comments received from IEEE members will be submitted via the Category A process of the IEEE Computer Society for disposition in the ISO/IEC balloting process. If consensus is reached according to the rules of IEEE-SA, then the document will be published as an IEEE standard as well as an ISO/IEC standard.

ISO/IEC/IEEE P15288-FDIS-1412
Draft IEEE Standard
Systems and software engineering — System life cycle Processes

Prepared by the Software and Systems Engineering Standards Committee of the IEEE Computer Society and ISO/IEC JTC 1/SC 7

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IEEE Standard for Application of Systems Engineering on Defense Programs

IEEE Computer Society

Sponsored by the Software & Systems Engineering Standards Committee

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IEEE Standard for Technical Reviews and Audits on Defense Programs

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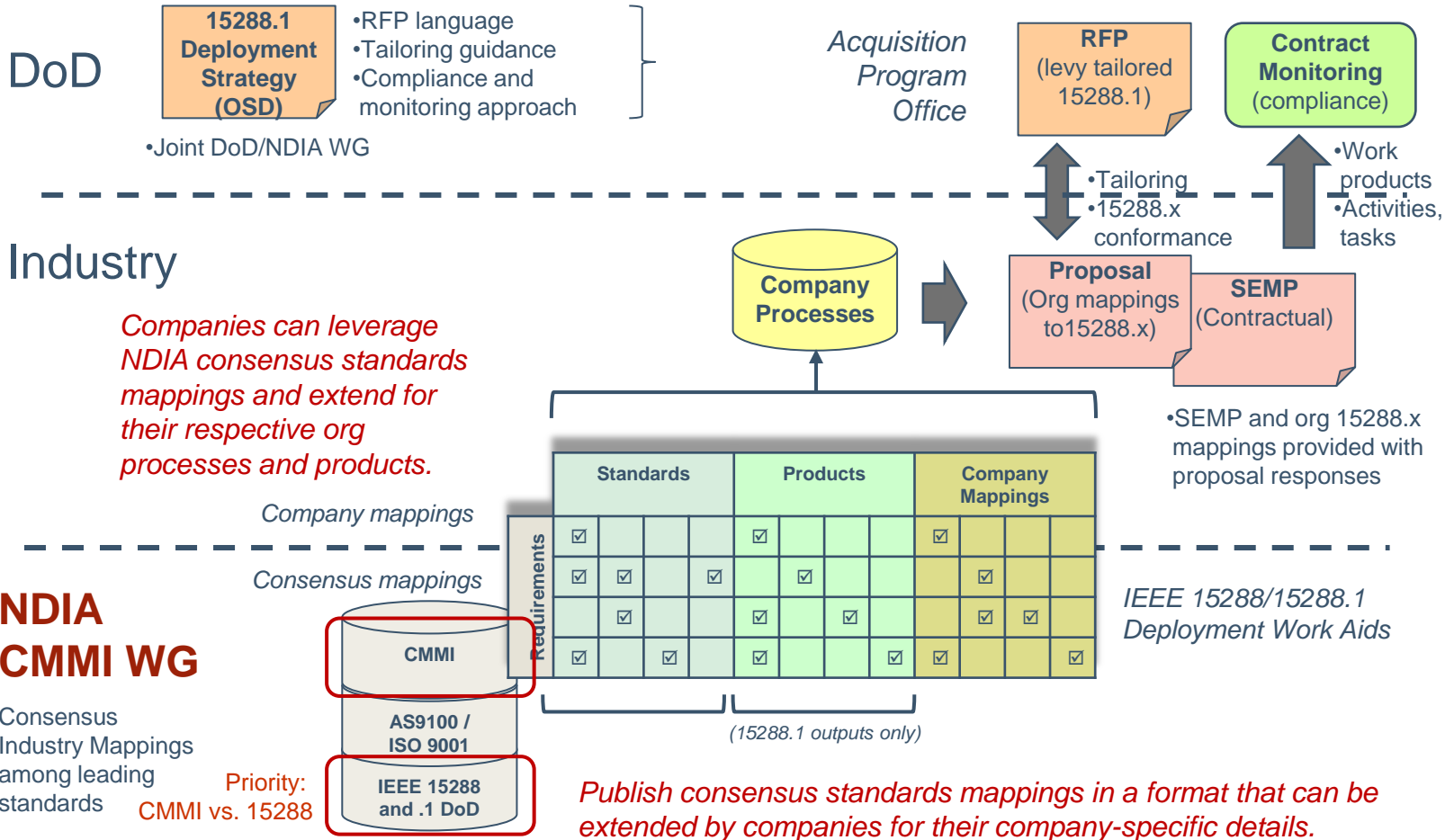
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IEEE Std 15288.2™-2014

4. *ISO/IEC/IEEE 15288-2015, Systems and software engineering – System life cycle processes, http://www.techstreet.com/ieee/products/vendor_id/5673*
5. *IEEE 15288.1-2014, Standard for Application of Systems Engineering on Defense Programs, May 2015. <http://www.techstreet.com/ieee/products/1895162>*
6. *IEEE 15288.2-2014, Standard for Technical Reviews and Audits on Defense Programs, May 2015. <http://www.techstreet.com/ieee/products/1895163>*

Conops – IEEE 15288.1 Deployment Strategy and Integrated Standards Mappings in Acquisition



Example Mapping (Draft)

Section	ISO 15288 Keywords	15288.1 Outputs (6.x.x.4)	NDIA Comments	Team Review	CMMI Practices	Conf	Aggregate Conf
6.3	Project Technical Management Processes						
6.3.1	Project Planning Process						
6.3.1.3	Activities and tasks						
6.3.1.3a	Define the project						
6.3.1.3a 1	Identify objectives	Plan - SEMP	IPM select/tailor processes SubP 3 constraints Drop PP SP3.2 reconcile QPM Est objectives GP2.2 objectives, quality IPM plan=needs, objs, req OPM 1.1 100?	Y	PP SP 2.1 IPM SP 1.1 IPM SP 1.4 QPM SP 1.1 * GP 2.2	30 60 100 60 60	100
6.3.1.3a 2	Define scope	Plan - SEMP		Y	PP SP 1.1	100	100
6.3.1.3a 3	Define life cycle model	Plan - SEMP	Project life cycle > PP Org life cycles > IPM	Y	PP SP 1.3 IPM SP 1.1	60 100	100
6.3.1.3a 4	Establish WBS	WBS (Work Breakdown Structure)		Y	PP SP 1.1 PP SP 2.4	60 100	100
6.3.1.3a 5	Define project processes	Plan - IMP	Drop PP2.7 <> processes IPM defined proc, tailoring GP 3.1 defined proc cont GP 3.1 looked at in aggregate	Y	IPM SP 1.1 * GP 2.2 * GP 3.1	100 100 100	100
6.3.1.3b	Plan the project resources and technical management						
6.3.1.3b 1	Define schedule	IMS (Integrated Master Schedule)	IPM SP1.4 SubP 4 sched IPM SP2.2 dependencies PP SP2.1 Schedule PP SP1.2 Est wp, tasks PP SP1.3 Life cycle, seq PP SP1.4 Est effort, cost	Y	PP SP 1.2 PP SP 1.3 PP SP 1.4 PP SP 2.1 IPM SP 1.4 IPM SP 2.2	30 60 30 100 60 60	100
6.3.1.3b 2	Define achievement criteria	Plan - SEMP	SP1.4 risk, sched, entry PP SP1.3 Lifecycle phases PP SP1.1 sched delivery dates IPM SP2.2 depend, commit Drop IPM SP1.1 life cycle Drop PP SP2.1 budget,sched		IPM SP 1.4 PP SP 1.3 PP SP 1.1 IPM SP 2.2	100 60 60 60	100
6.3.1.3b 3	Define budget	EVM (Earned Value Management) Planning	PP SP2.1 Est budget PP SP1.4 effort, cost, infra IPM SP1.4 integ plans, risks Drop IPM SP1.2 org assets		PP SP 2.1 PP SP 1.4 IPM SP 1.4	100 100 60	100

Current IEEE 15288 / CMMI-DEV Mapping Status

Mapping document (NDIA/AIA) completed – ready for review and approvals to publish.

- References separate CMMI/15288 mapping spreadsheet

Completed	19	Task Review Complete	385
Disposition	3	Progress	84.99%
Consensus	0		
Drafted	3		
Gap Comments	5		
Total (30):	30		

Nearing completion of initial mappings, peer reviews, and disposition of consensus comments. (Est. end of June '15)



Microsoft Office
Word Document

Consistency checking across all processes to reconcile author differences in mappings. (est. end of July '15)

Publication: est. August '15

POCs:

- Bryan Bost (Harris) – *standards mapping lead*
- Garry Roedler (Lockheed Martin)
- Geoff Draper (Harris)
- Joe Elm (SEI) – *DoD/NDIA 15288 transition WG lead*