

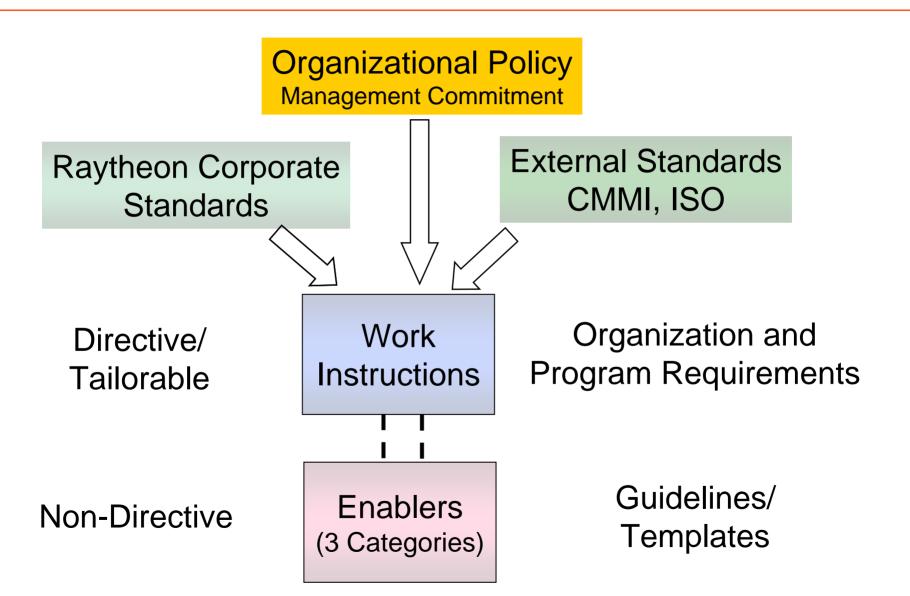


Overview

- Directive and Enabler System Overview
- Types of Enablers
- Example of enabler template
- Example of enabler tool
- Enablers which are guidelines
- Connection between directives and nondirective enablers
- Lessons Learned

Directive and Enabler System Overview

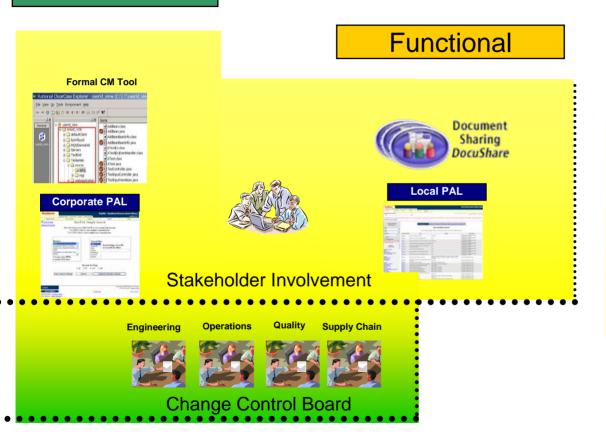
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Enabler Types

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Endorsed



Practitioner



Endorsed Enablers

- Implement:
 - One or more directive requirement(s) and/or
 - One or more Corporate Process Element(s)
- Available in the Raytheon Corporate process repository

Functional Enablers

- Contain data, attributes, codes, and cost elements that are frequently changed or updated
- Often very specific to task activities used by functional organization or Business Units

Practitioner Enablers

- Aids used by a particular project or team
- Products Developed by an individual who wishes to share it
- Do not fit in either of the other categories
- Generally stored in the Local Process Assets Library (PAL)

Enabler Categories



Туре	Endorsed	Functional	Practitioner		
	Enablers	Enablers	Enablers		
Definition		Functional Org. desires	Individual has tool or		
	in a Work Instruction or	'	process to share		
	corporate standard	behavior			
Examples	Metrics Tool	Tailoring guidelines for	Template for capturing		
	Program Review	small projects	action items		
	Minutes	Risk and Opp. Mgt			
	Bid Template	toolkit			
Control	Formal CCB	Identified by Discipline	User Control		
		or PAL Administrator	or PAL Administrator		
Repository	ClearCase	DocuShare	DocuShare		
	Corporate PAL	Local PAL	Local PAL		
		Discipline Repository	Desktop		
Delivery	Process Website	Process Website	N/A		
	Hyperlink	Web Search			
	Web Search	Program, Dept Web			
		Page			
Relationship to	Yes, required	Could be if related to	None		
Directives		TD			

Endorsed Enabler Template Example



Program Name: IPT(s):			
Chair:			
Core Mei	mbers:		
IPTL(s)		Date:	
FM(s)			
PE(s)		Scribe:	
Support M	embers:		
Quality Representative			
CM Representative			
DM Representative			
Specialty Engineering Representative			
SCM Representative			

Endorsed Enabler Template Example - continued

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Agenda:	Meeting Notes / Decisions:
1. Restate meeting objectives. Capture any specific objectives from the IPTL(s).	
2. Review action items. Include any unresolved Als from Reviews, as needed.	
3. Review IPT highlights/ issues/concerns/risks and opportunities.	
4. Review resource needs	
5. Review product/process metrics, evaluate, analyze and provide support as necessary. •(Part A) Metrics discussion – Focus on trends, out of bound metrics, issues/concerns •(Part B) SPC discussion	Metrics discussion: Document analysis results within the metrics package. Compare program performance in CPI, SPI, Defect Containment and Requirements Volatility against the expected ranges of values (norms) and the desired ranges of values (goals) Were any trends or any points outside the limits? If so, what corrective action was taken? Is the program's data within the limits predicted by the Predictive Model(s)? If not, what corrective action was taken?

Endorsed Enabler Tool Example Space and Airborne Systems

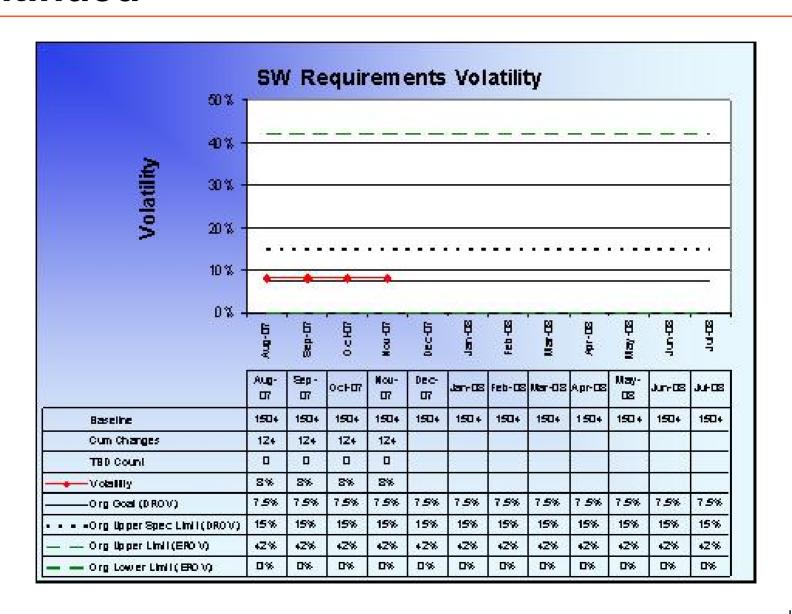
Requirements Volatility

	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Baseline (excludes TBDs)	1504	1504	1504	1504	1504	1504	1504
New	0	0	0	0			
Modified	0	0	0	0			
Deleted	0	0	0	0			
TBD Baseline	0	0	0	0	0	0	0
Total Changes	0	0	0	0	#N/A	#N/A	#N/A
% Change	0%	0%	0%	0%	#N/A	#N/A	#N/A

Org Limits

QPM/OPP Values (Reqmts Vol)							
Org Upper Limit (EROV)	42%	42%	42%	42%	42%	42%	42%
Org Lower Limit (EROV)	0%	0%	0%	0%	0%	0%	0%
Project Goal (Optional)	7%	7%	7%	7%	7%	7%	7%
Org Goal (DROV)	7.5%	7.5%	7.5%	7.5%	7.5%	7.5%	7.5%
Org Upper Spec Limit (DROV)	15%	15%	15%	15%	15%	15%	15%

Endorsed Enabler Tool Example Raytheon Space and Airborne Systems



Functional Enabler Example – Raytheon SW Maintenance Tailoring Guidelines Space and Airborne Systems

Guidelines for Common Work Instructions

- Gates Developmental Gates are not applicable unless there is an enhancement that is over the Threshold
- WPMP –Update or create per maintenance work products.
- Structured Decision Making Use when triggered. Establish triggers.
- Program Data Archive Use structure from development, as applicable.
- Objective Evaluation SQE plans with program concurrence and performs and reports results.
- Peer Review Deliverable software products require some form of peer review, either desk check or formal peer review.
- Process Review or equivalent stakeholder monthly program meeting
- Metrics Each month collect and report Accomplishments Summary, Problem Summary, SPI/CPI, Defect Containment (2 years), Lessons Learned, Risk and Opportunity Management, Problem Report Status (CRs and PRs), Schedule, Size Trend, Staffing. The program/customer may require additional metrics.

Connection between directives and enablers - Hyperlink

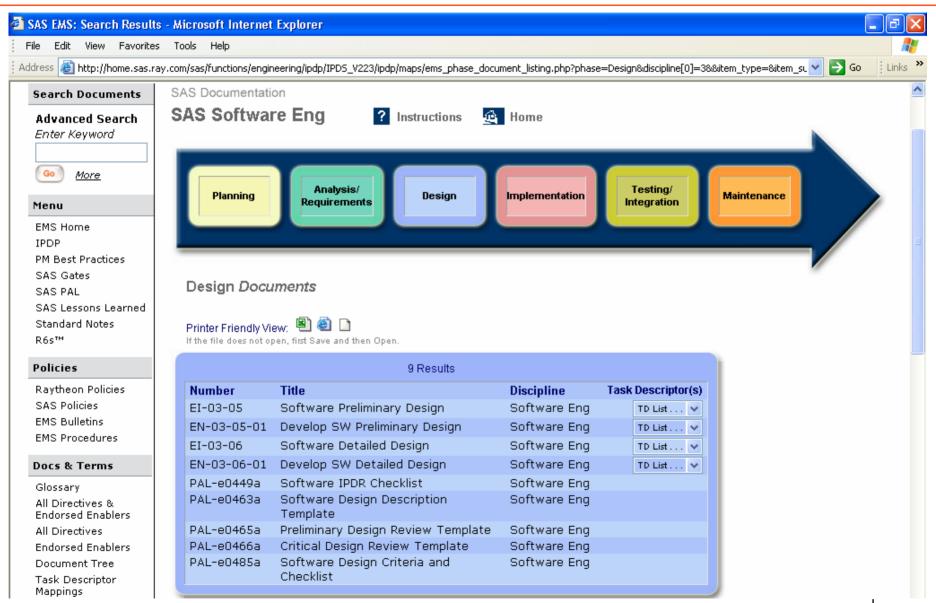
Process Review Work Instruction, Paragraph 5.2.3:

Hyperlink to Enabler

Document each meeting with minutes and track to closure any action items. Refer to EN-01-23-01 The *Process Review Meeting Minutes Template* Enabler for an example format for minutes and action items.

Connection between directives and enablers - Webpage

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Lessons Learned



- Enablers provide excellent aid to programs
- Structure for maintaining and controlling enablers
 - Controls different types of enablers
 - Promotes their use
 - Separate from directives
- Non-Directive Tailoring not required
- Distinctions between different types of Enablers
- Annual Review of Endorsed Enablers and Directives
- Reduction in Directive System Size

Questions???