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Match point: Who will win the game, ITIL or CMMI-SVC?

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 CMMI is registered in the U.S. Patent and Trademark Office by Carnegie Mellon University.

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IT Services Business Solutions Outsourcing

- The Players: ITIL and CMMI
- The Match
- The Winner



A Brief ITIL Overview

Service Lifecycle approach

	7-Step Improvement		Service Measurement			Service Reporting			
		Continual Service Improvement							
	Service Strategy		Service Design		Service Transitie			Service Operations	
[Demand Mgmt.		ce Catalogue Mgmt.		Transition Pla and Suppo	U		Event Mgmt.	
	Financial Mgmt.	Service	e Level Mgmt.		Change Mg	mt.	Incident Mgmt.		
	Service Portfolio Mgmt.	Сара	acity Mgmt.		Service Asse Configuration				1
	Service Strategy Principles, Generation, Organization, Sourcing	Availa	ability Mgmt.		Release	<u> </u>		Problem Mgmt.	
			IT Service Continuity		Deployment Mgmt.			Access Mgmt.	1
570		Mgmt.		-	Service Validation and Testing Evaluation				
		Information Security Mgmt.		Ц Л					
		Supplier Mgmt.			Knowledge Mgmt.				

A Brief CMMI-SVC Overview

Process Areas in four categories

Process Management	Work Management	Support	Service Establishment and Delivery
Organizational Performance	Capacity & Availability Mgmt.	Causal Analysis & Resolution	Incident Resolution & Prevention
Management	Service Continuity	Configuration Mgmt.	Service Delivery
Organizational Process Definition	Supplier Agreement Mgmt.	Decision Analysis & Resolution	Service System Transition
Organizational Process Focus	Work Monitoring & Control	Measurement & Analysis	Strategic Service Mgmt.
Organizational	Work Planning	Process & Product	Service System Development
Process Performance	Requirements Mgmt.	Quality Assurance	
Organizational	Risk Mgmt.		
	Quantitative Work Mgmt.		
	Integrated Work Mgmt.		
TATA CONSULTANCY SEE	RVICES	- 3 - Match point: Who will	win the game - ITIL or CMMI for Services A White Paper

A Brief Overview

CMMI-SVC has Generic Goals and Practices for Institutionalization

Generic Go	als			
GG 1	Achieve Specific Goals			
GG 2	Institutionalize a Managed Process			
GG 3	Institutionalize a Defined Process			
GG 4 Institutionalize a Quantitatively Managed Process				
GG 5	Institutionalize an Optimizing Process			
	Generic means applicable to all Process Areas			

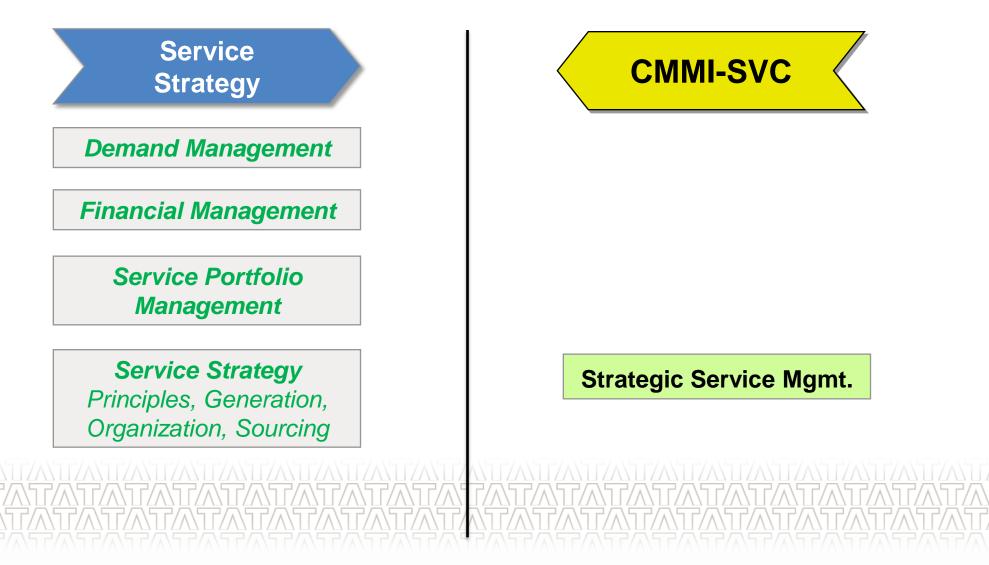
- The Players: ITIL and CMMI
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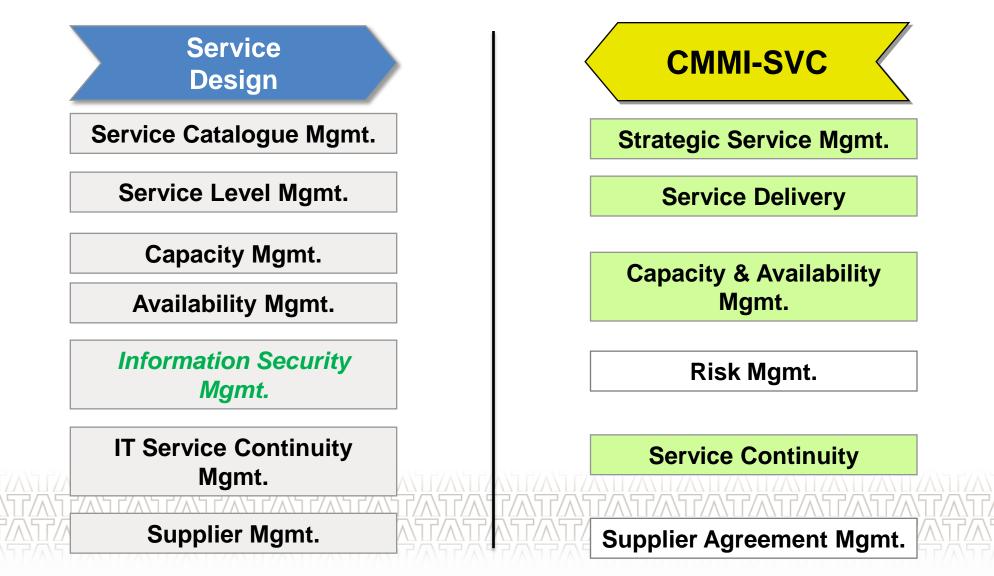
High-level differences

	ITIL	CMMI-SVC
Scope	IT services only	Any type of service
Model ?	 Collection of good practices 	Well-defined model
Architecture	 5 Books covering IT Service lifecycle 4 functions Roles and responsibilities 	 Has 5 Generic Goals with Generic Practices, 24 Process Areas with Specific Goals and Specific Practices
Maturity Model	 Some discussion of Process Maturity Framework 	 Embodies Process Maturity Framework
Institutionali-zation	Not addressed	 Addressed through Generic Goals and Practices
Improvement	 Continual expected; not defined 	 Expected, benchmarked through Capability and Maturity Levels
Project Management	Addresses through reference to other sources: PRINCE 2, PMBOK, etc.	Explicitly addresses in process areas

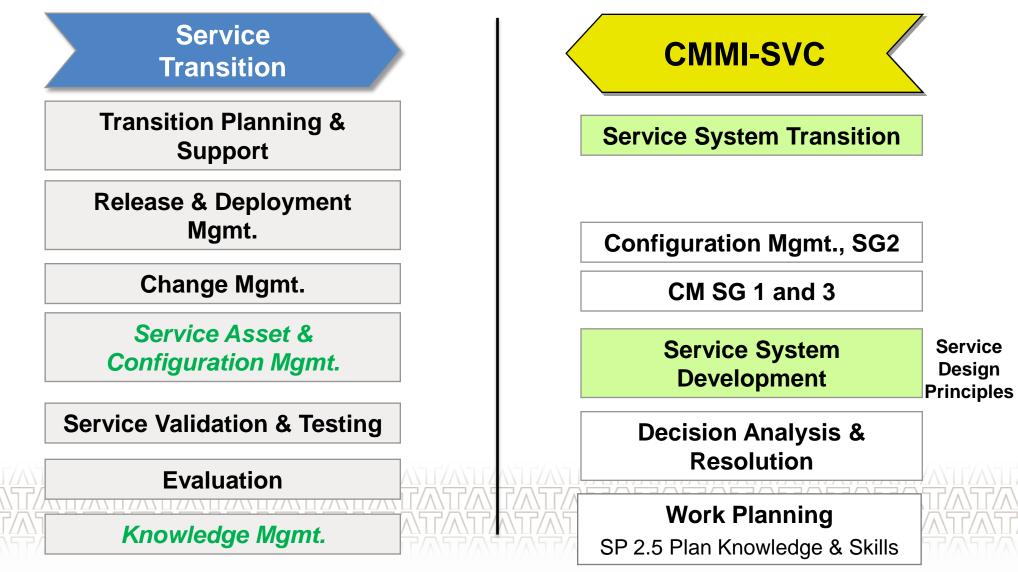
ITIL Service Strategy has no direct equivalent in CMMI-SVC



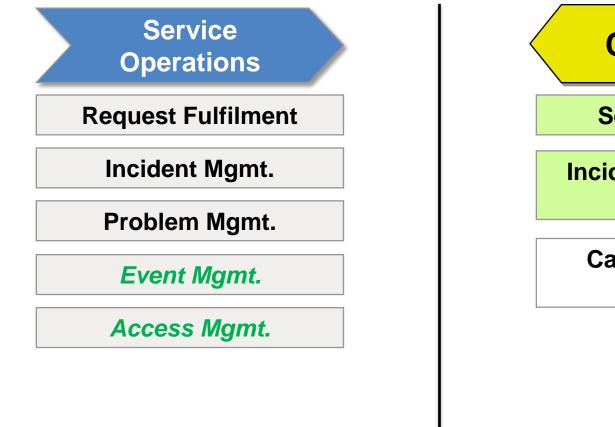
ITIL scores for attention to practical detail



ITIL holds a slight edge for full-service focus



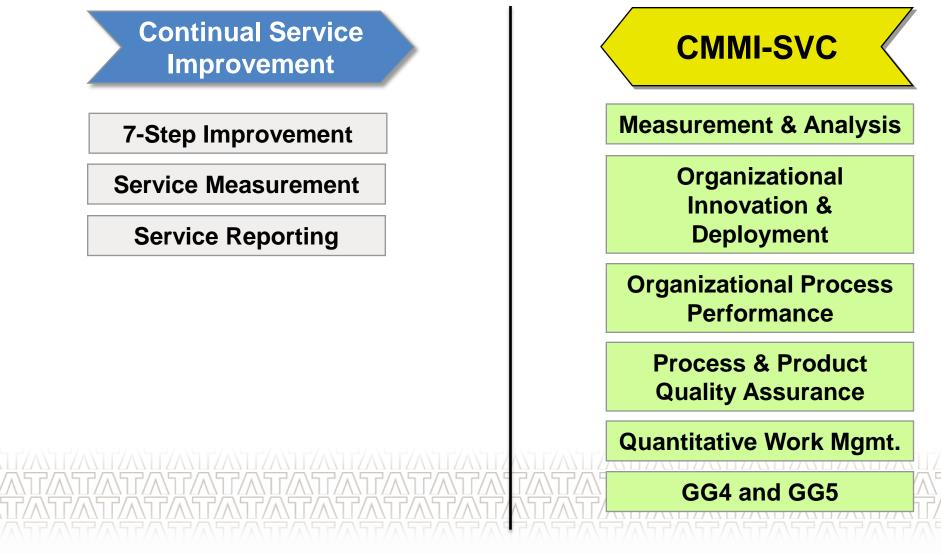
CMMI-SVC catching up, but still running behind





Causal Analysis & Resolution

Edge goes to CMMI-SVC for focus on measurement and real improvement



CMMI-SVC scores again for focus on process and work management

Process Management

Organizational Process Definition

Organizational Process Focus

Organizational Training

Work Management

Work Monitoring & Control

Work Planning

Requirements Mgmt.

Risk Mgmt.

Integrated Work Mgmt.

Engineering

ITIL Service Design Appendix C: Process Framework

ITIL Service Design Roles: Process Owner

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Service Design 5.1 Requirements

CMMI-SVC leads for its path to process institutionalization

Generic Goal	Progression of Processes
GG 1	Performed process
GG 2	Managed process
GG 3	Defined process
GG 4	Quantitatively managed process
GG 5	Optimizing process



Advantage ITIL

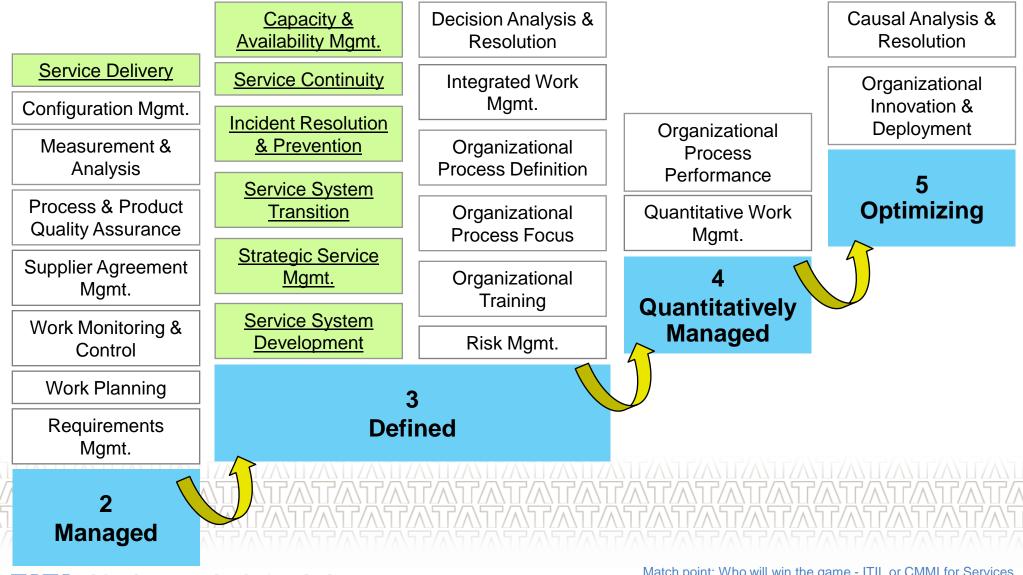
- The accepted norm for IT services: ITIL is widely accepted and adopted
- Focus is on 'service' and service lifecycle, an intuitive concept in ITSM.
- **Process content:** Most of the processes in ITIL are written in great detail, covering 'What to do', 'How to do', 'Who will do'
- Functions such as Service Desk, Technical Management, IT Operations, Application Management are explcitly covered
- IT Process Specific, e.g.,
 - Clear distinction between Incident and Problem
 - Strong Change Management process
 - Focus on Demand, Financial, and Knowledge Management

Advantage CMMI-SVC

- Wide applicability: applies to any service; not limited to IT services only
- Current with DevOps trend: trend to integrate development (especially with agile methods) and operations seamlessly is ideal for using CMMI-DEV/SVC combinations.
- Ease of adoption for CMMI-DEV model users: 70% of the total PAs reused
- Process management and institutionalization: through GGs, GPs, and Process Management PAs
- Focus on work management and strong measurement
- Two evolution paths, each with ability to benchmark capability: dual representations allow flexibility in implementation



Staged Evolution Path in CMMI-SVC



Topics

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And the winner is...



You

- Complementary models provide leverage
- The CMMI suite can be augmented by ITIL
- An ITIL shop can benchmark with CMMI
- Together they offer a balance of improvement and management focus, detail and service cycle orientation, and effective implementation.
- An organization can begin to move toward full development / service integration using CMMI + ITIL to fulfill business goals



Us



All of Us

Scenario 1

Using ITIL; Adopting CMMI-SVC

- 1. Make ITIL your base
- 2. Take
 - Roles, policies, etc., from ITIL
 - Process Management process areas from CMMI-SVC
 - Processes from ITIL SS, SD, SO, ST
 - Project and Work Management process areas from CMMI-SVC / PRINCE2 / PMBOK
- 3. Adopt from CMMI-SVC
 - Generic Goals and Practices for improvement and evolution
- 4. Adopt and Adapt from CMMI-SVC
 - Capability levels to measure process capability
 - Maturity levels to measure organization maturity as desired

Scenario 2

Using CMMI-DEV; Adopting CMMI-SVC and/or ITIL

- 1. Use CMMI-DEV as your base
 - Shift from project management to work management in IT operations
 - Substitute service PAs for engineering PAs or develop a blend that uses both concepts across the development and operations arenas
- 2. Add
 - Service processes, using ITIL as reference for "How to..."
 - Refer to SS, SO, ST for processes, functions
 - Roles, policies, etc., as needed; can elaborate existing policies or create new ones
- 3. Extend / expand from CMMI-DEV/SVC
 - Focus on process capability and maturity across development and operations

Scenario 3

New Improvement Effort; Adopting CMMI-SVC and/or ITIL

- 1. Appraise both development and service functions with CMMI-DEV/SVC
- 2. Determine, from appraisal results and business drivers, where to start—operations, development, or both—and what areas to focus on.
- 3. Use ITIL as reference for addressing functions, roles, and detailed activities
- 4. Use CMMI-DEV/SVC for addressing improvement infrastructure, work and improvement planning and management, and institutionalization
 - Avoid unnecessary duplication by integrating CMMI-DEV with –SVC for institutionalization issues (policy, improvement team, asset library, etc.)
- 5. Appraise periodically, replan, and go for the next round using both sets of models for guidance

Questions



Acknowledgments

Original Research and Concept

- Anju Saxena, TCS
- Monalisa Sircar, TCS
- Rohit Sarin, TCS



References

- The ITIL Books (v3)
 - -ITIL Service Strategy
 - -ITIL Service Design
 - -ITIL Service Transition
 - -ITIL Service Operation
 - -ITIL Continual Service Improvement
- CMMI for Service 1.3

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