



CMMI, ITIL & ISO 20000 A Mutually Supportive Relationship

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Agenda



- CMMI-SVC and ISO 20000
- CMMI-SVC and ITIL
- The Mutual Relationship
- Appraising Security: Information Security and ISO27001

Context Setting



- How many of you know already about ISO 20000?
- · How many of you know already about ITIL?
- Is anybody working with ITIL or ISO 20000?
- Is anybody already working with a combination of ITIL/ISO20K and CMMI?

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CMMI-SVC and ISO 20000

How Does CMMI-SVC fit with ISO 20000?

CMMI and ISO20000



- ISO 20000 is a standard for the requirements of an IT service management system. It can complement CMMI for Services, or vice versa.
- But ISO 20000 does not provide a way to measure improvement ...
- Since CMMI can provide a framework to support implementing improvement, some organisations have used a tailored version of CMMI-DEV (prior to CMMI-SVC release) within their service teams to interpret ISO 20000.

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Mapping ISO 20000 Clauses to CMMI-SVC

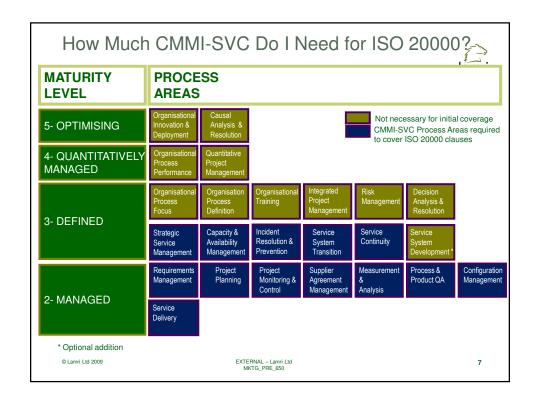


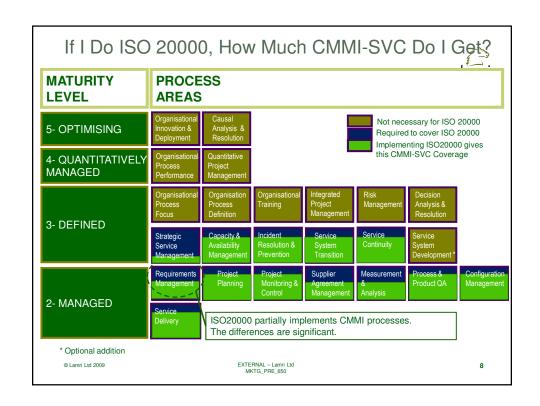
ISO 20000 Clauses		CMMI- ISO20000 Coverage
Index	Title	
3	Requirements for a Management System	
3.1	Management Responsibility	
	Documentation Requirements	
3.3	Competence, awareness and training	
4	Planning & Implementing Service Management	
4.1	Plan Service Management	
4.2	Implement Service Management and provide services	
4.3	Monitoring, measuring and reviewing	
4.4	Continual Improvement	
5	Planning and Implementing new or changed services	
	Service Delivery Process	
6.1	Service Level Management	
6.2	Service Reporting	
6.3	Service Continuity & Availability Management	
6.4	Budgeting and Accounting for IT Services	
6.5	Capacity Management	
6.6	Information Security Management	
7	Relationship Processes	
7.2	Business Relationship Management	
7.3	Supplier Management	
8	Resolution Processes	
8.2	Incident Management	
8.3	Problem Management	
9	Control Processes	
9.1	Configuration Management	
9.2	Change Management	
10	Release Process	
10.1	Release Management Process	

EXTERNAL - Lamri Ltd MKTG_PRE_650 CMMI-SVC provides almost complete coverage of ISO 20000 clauses

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ML2 Process Area Overlap – Can we Re-Use DEV Work?

= Overlap between Same Process Areas in CMMI-DEV & CMMI-SVC



- The answer is most assuredly YES!
- Only 1 Process Area has any practice differences
 - PP has 1 additional practice
 - In all other cases the practices are the same in both models.
- So why are they not all complete overlap?
 - The minor gaps include:
 - Internal references now point to Services PAs
 - Orienting implementation for a services environment may require slightly different approaches to be used

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Table Discussions



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 In what circumstances can a "standards approach" (i.e. Using a standard like ISO 20000) help in your process improvement programme?

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CMMI-SVC and ITIL

How Does CMMI-SVC fit with ITIL?

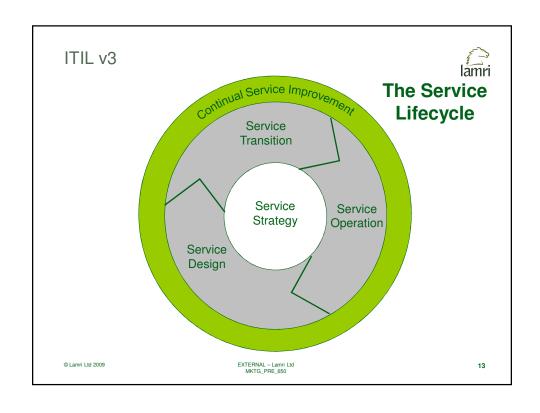
ITIL v3

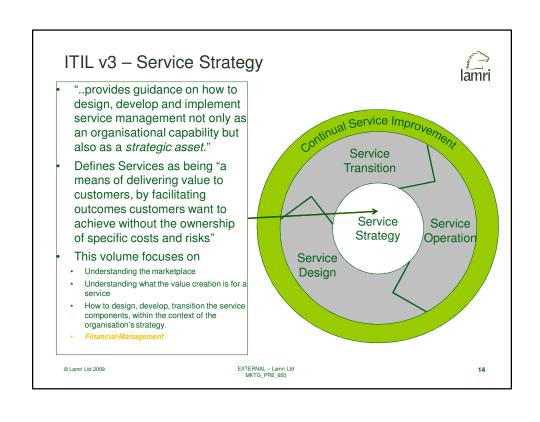


- IT Infrastructure Library
- ITIL v3 consists of 5 volumes:
 - Service Strategy
 - Service Design
 - · Service Transition
 - · Service Operation
 - · Continual Service Improvement
- Each volume provides guidance on "how to" implement specifically IT Service Management.

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CMMI-SVC and Financial Management



- Financial Management is not strictly absent from the CMMI
- It appears in:
 - PP SP1.1 Establish the Project Strategy
 - PP SP1.5 Estimate Effort and Cost
 - PP SP2.1 Establish the Budget and Schedule
 - PMC SP1.1 It is one of the planning parameters most *frequently* monitored.
 - All GP2.3 instances Provide Resource
- But the level of detail and prominence in ITIL is possibly higher
- · Level of issue Low

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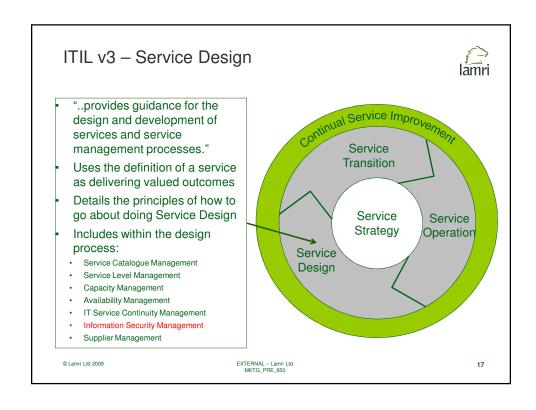
Table Discussions

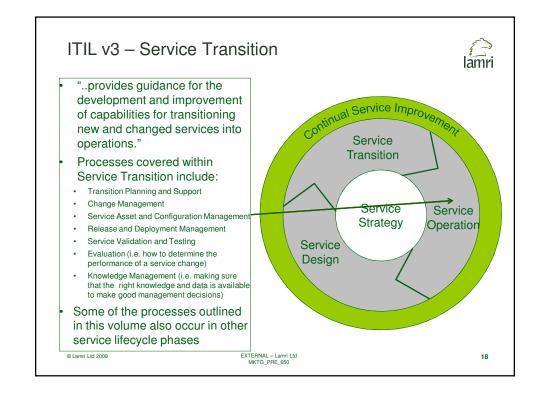


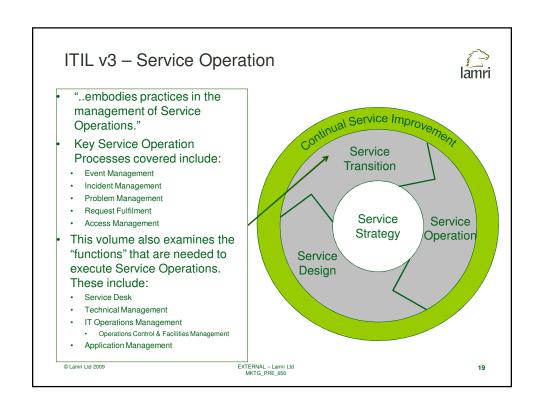
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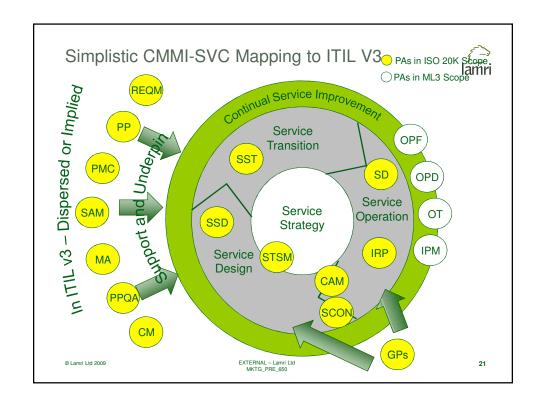
 How might you adapt or augment the CMMI material to address Financial Management?

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CMMI-SVC and ITIL v3



- The structure and content of ITIL v3 is emphatically "Library" in nature
 - 5 Volumes
 - · Lots of "How To" information
 - · Talks about a "maturity approach" but little structure
- CMMI-SVC
 - · Single Volume
 - · Details "What To" implement
 - · CMMI provides a route-map for developing maturity

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Example "What to Do" – "How to Do" Relationship: CMMI-SVC



- CAM
 - "The purpose of Capacity and Availability Management (CAM) is to ensure
 effective service system performance and ensure that resources are
 provided and used effectively to support service requirements."
 - SP1.1 Establish and maintain a strategy for capacity and availability management.
 - SP 1.2 Select measures and analytic techniques to be used in managing the capacity and availability of the service system.
- In developing a capacity management strategy, what things are important?
- In measuring my capacity what sort of things should I be looking at?

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Example "What to Do" – "How to Do" Relationship: ITIL – Service Design Processes

Component Capacity Management

 "The main objective of Component Capacity Management (CCM) is to identify and understand the performance, capacity and utilization of each of the individual components within the technology use to support the IT services including the infrastructure, environment, data and applications."

Service Capacity Management

 "The main objective of the Service Capacity Management sub-process is to identify and understand the IT services, their use of resource, peaks and troughs, and to ensure they meet their SLA targets."

Business Capacity Management

"The main objective of the Business Capacity Management sub-process is
to ensure that the future business requirements (customer outcomes) for IT
services are considered and understood, and that sufficient IT capacity to
support any new or changed services is planned and implemented within an
appropriate timescale."

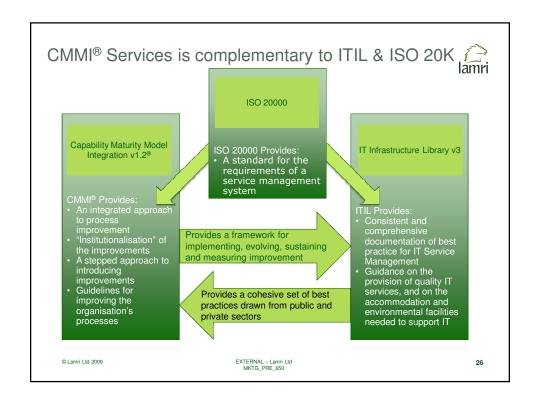
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The Mutual Relationship

CMMI-SVC & ITIL & ISO 20000



Appraisals



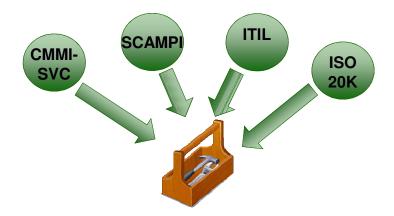
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- Of the three approaches CMMI has the clearest definition of an improvement path
 - · Evolution is built into the model
 - · Clear criteria associated with evolutionary stages
- SCAMPI Appraisals strongly support the evolutionary journey
 - · Rigorous method
 - · Objective evidence-based approach
 - · Focus on business need
 - · Done by the organisation, for the organisation

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Process Improvement Toolbox





All these can be used together for process improvement to achieve business goals

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The Missing Piece - Information Security



- ISO 20000 & ITIL both cover Information Security
- CMMI-SVC does not
- Challenge:
 - Is there a way that we can harness the power of CMMI and SCAMPI to address Information Security?
 - Could we include coverage of information security in a SCAMPI appraisal that covered CMMI-SVC as well?
 - What reference framework could we use with appraising Information Security?

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In conclusion



- CMMI-SVC, ITIL & ISO20000 all complement each other.
- CMMI-SVC provides a strong "evolutionary" pathway.
- The only significant gap is Information Security.

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Q&A

