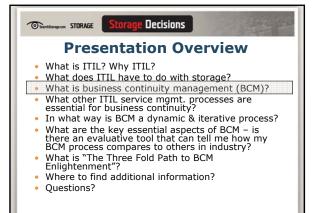
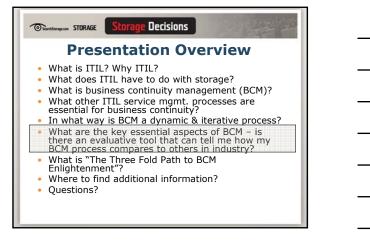


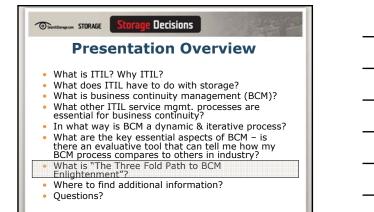
Storage Decisions **Presentation Overview** What is ITIL? Why ITIL? • What does ITIL have to do with storage? What is business continuity management (BCM)? What other ITIL service mgmt. processes are essential for business continuity? • In what way is BCM a dynamic & iterative process? • What are the key essential aspects of BCM – is there an evaluative tool that can tell me how my BCM process compares to others in industry? • What is "The Three Fold Path to BCM Enlightenment"? • Where to find additional information? • Questions? •



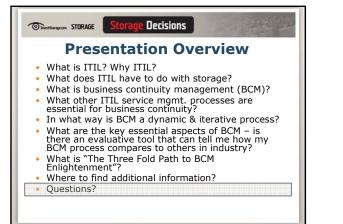
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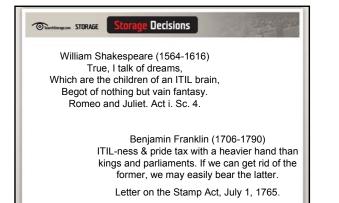
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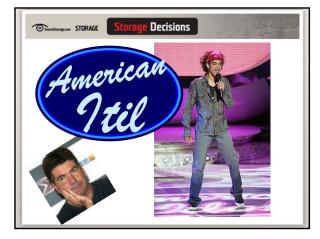


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Storage Decisions

ITIL Fundamentals

Service support

- Configuration management
- Change managementService desk
- (function)Problem management
- Incident management
- Release management
- Availability management
 Financial

Capacity

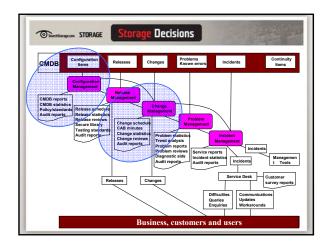
management

Service delivery

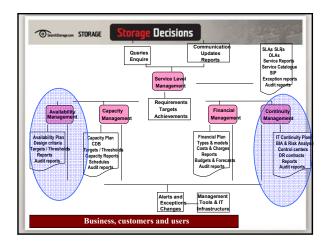
• IT service continuity management

management

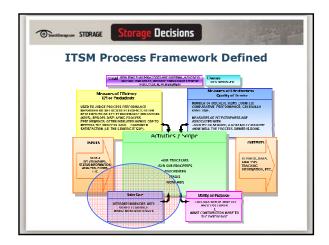
 Service level management





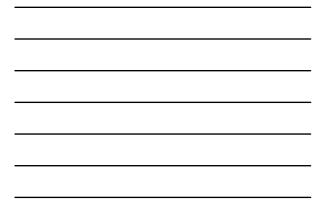












Storage Decisions

ITIL & SNIA – The SNIA Storage Networking Certification Program (SNCP)

SNIA Certified Architect (SCA) – This certification is a vendor neutral credential designed for storage architects and storage networking professionals who assess, plan, and design complex storage networking solutions. Successful completion of this program validates an individual's abilities and allows them to leverage industry standards in their programs.

SNIA Certified Storage Network Expert (SCSN-E) - This credential is a culmination of technical experiences, which validates an individual's overall storage knowledge in management, administration, assessment, planning and design.

Exam Description: SNIA Architect – Assessment, Planning & Design exam (S10-300) The SNIA Architect – Assessment, Planning & Design exam will certify that the candidate has the ability to understand capabilities and limitations of the architecture and associated devices of current storage networking technology and leverage industry standards for assessment and, planning and design, including ITIL and ITSM principles. This test is designed for storage architects and storage networking technology and leverage industry standards for assessment and, planning and design, including ITIL and ITSM principles. This test is designed for storage architects and storage networking professionals who assess plan and design complex storage network solutions.

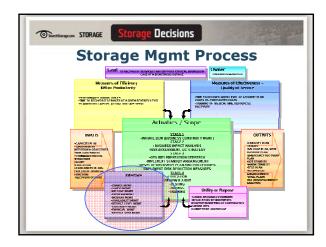
http://www.snia.org/collateral/SNIA_Edu_Cert_Prgm_Oct_2006_FINAL_wHeader.pdf

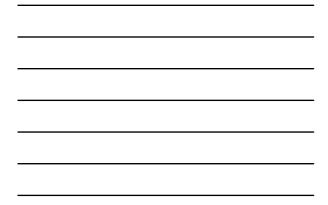
Storage Decisions

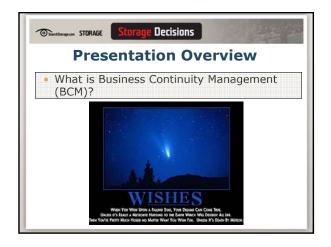
Storage Management

- Managing storage
 Allocation (i.e. Design, implement &
 - operate)
 - Staging (i.e. Load balancing)
 - Scratching (i.e. Removal of obsolete)
 - Reorganize (i.e. De-fragmentation)
- Safeguarding data
- Reparation of data
- Destruction of data
- Management reporting









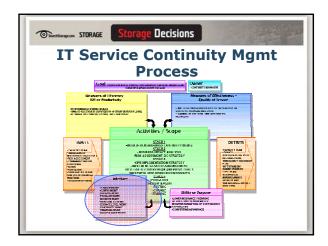


To Storage Decisions

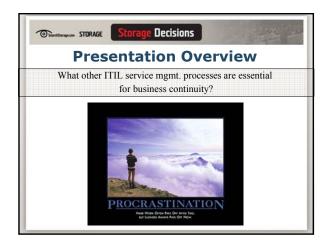
IT Business Continuity Management

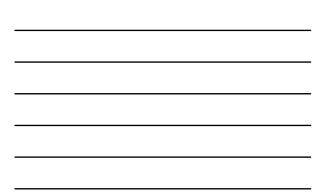
- Initiate/integrate w/service continuity management
- Develop requirements & strategy
- Implementation of IT service continuity plan
- Operational management



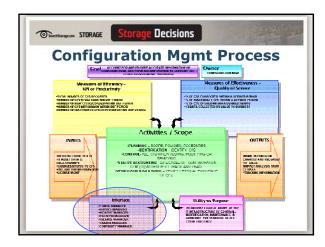






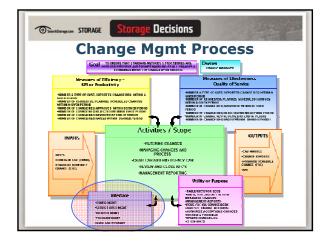




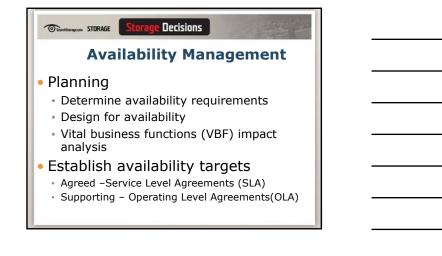




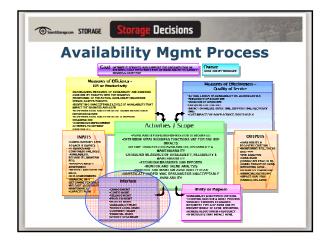


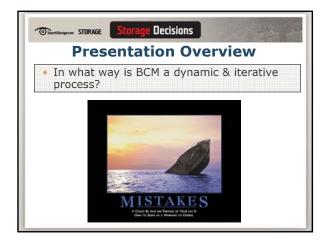




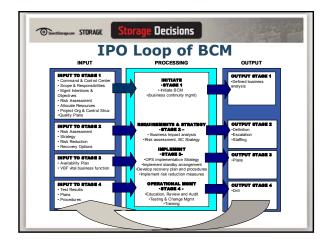






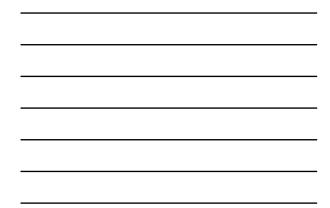












Teachingers STORAGE	rage Decisions
Level 1: Pre-requisites	BCM Gap Analysis (ITIL)
1. Are at least some IT service continu impact assessment, development of re	ity activities established within the organization, e.g. business covery plans? (2)
2. Have the minimum operational requir	rements been determined by the business?
3. Has the organization developed a bus	iness continuity strategy?
	ishes whether there are organizational policy statements, ee of intent) providing both purpose and guidance in the site items.
4. Has the purpose and benefits of IT organization? (3)	service continuity planning been disseminated within the
5. Is there senior management commi- measures? (3)	tment for the implementation of IT service continuity
6. Has the scope of IT service continuity documenting all business critical proces	v activity been determined – i.e. identifying, prioritizing and ses?
7. Has a business impact analysis been	carried out?
8. Is there regular testing of the IT service	ce continuity management procedures?
- · · · · · · · · · · · · · · · · · · ·	

9. Are the necessary resources being made available for the complete business continuity life-cycle stages through a strategic directive?

Storage Decisions

Level 2: Process capability - examines the activities being carried out. The questions are aimed at identifying whether a minimum set of activities are being performed.

- 10. Have responsibilities for IT service continuity activities been assigned? (6)
- 11. Have the minimum business critical requirements been determined through business impact analysis?

Os

12. Has a risk assessment been conducted?

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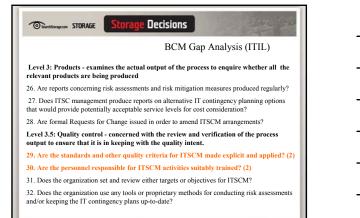
- 13. Is there an overall co-ordination plan for implementation, including emergency response, damage assessment, salvage, identification of vital records etc?
- 14. Have the ITSCM components for business continuity been identified?
- 15. Is there a check-list covering the specific actions required during all stages of recovery of the system?
- 16. Is there a formal procedure for testing and reviewing contingency plans?
- 17. Is there an IT risk reduction or mitigation program to implement mechanisms in order to deliver
- the continuity requirements?
- 18. Is there a formal procedure for invoking recovery?
- 19. Is guidance on the invocation process readily available, including details of associated action and decision points?
- 20. Has a crisis management team been established?

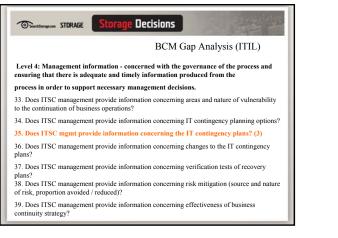
Storage Decisions BCM Gap Analysis (ITIL) Level 2.5: Internal integration - seeks to ascertain whether the activities are integrated sufficiently in order to fulfill the process intent 21. Is ITSC management responsible for the completeness of the IT contingency plans? (3) 22. Do business continuity planners inform ITSC management of the required service criticality/

priority? 23. Are ITSCM plans regularly reviewed, and the procedures and processes tested and updated where necessary?

24. Is there an established planning structure clearly identifying responsibility for overall coordination of the recovery?

25. Are the technical activities necessary in order to invoke the contingency measures fully documented, so that IT personnel can undertake recovery actions?





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	BCM Gap Analysis (ITIL)
relationships between the	ration - examines whether all the external interfaces and discrete process and other processes have been established At this level, for IT service management, use of full ITIL ted.
40. Are regular meetings	held with business continuity planners (BCM)? (4)
41. Does ITSC manageme risk mitigation? (4)	ent exchange information with availability management for
	ent exchange information with availability management for gement components of the plan, including operating level tracts? (4)
	ent exchange information with change management for which may affect the currency and accuracy of IT continuity
	ent exchange information with change management for hanges and actions necessary to avoid / reduce risks? (4)
	at exchange information with capacity management for storage risks and implications?



BCM Gap Analysis (ITIL)

Level 4.5: External integration - con't

46. Does ITSC management exchange information with capacity management for specific capacity / storage requirements for recovery plan tests?

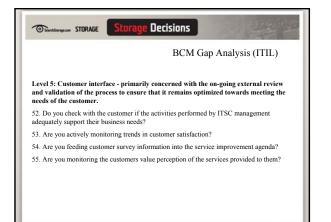
47. Does ITSC exchange information with service level management for cross-references between SLAs and IT contingency plans, and specific service levels during contingency or recovery situations?

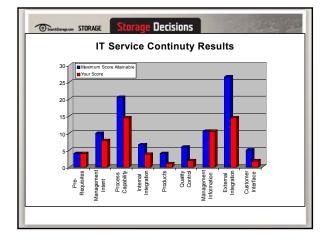
48. Does ITSC management exchange information with configuration management for contingency requirements and final configuration details, ensuring currency of configuration details used?

49. Does ITSC management exchange information with configuration management for full relationship between components and services?

50. Does ITSC management exchange information with problem management and incident management for reviewing major incidents?

51. Does ITSC management exchange information with problem management and incident management for discussion of problems where cause / resolution is possibly within the domain of ITSC management?

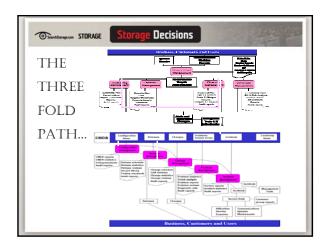




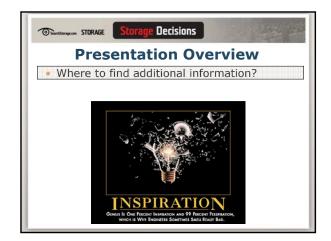




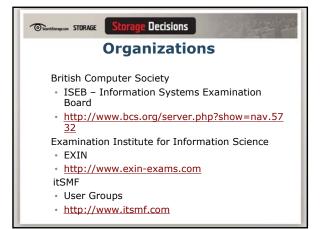














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