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IBM IT Delivery



Introduction to IBM IT Delivery

- Service Management: The Journey
- Key Components of ISM
- Delivery Models
- Shared Instance Architecture
- Conclusions
- Questions



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Introduction to IBM IT Delivery

- Our team belongs to the Outsourcing Services arm of IBM providing Service Management services
- The services we offer to our clients include:



- We provide ITIL conformed processes, tools, and skilled people
- We conduct governance and continual service Improvements (CSI) to achieve GOOD Service Management practice



What is ISM?

- IBM Service Management is a comprehensive and *integrated approach* for Service Management integrating **technology**, information, processes, and **people** to deliver service excellence and operational efficiency and effectiveness for traditional enterprises, service providers, and midsize companies
- IBM Service Management includes a portfolio of tools which cover four key areas





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Journey to ITILv3 improved method of operation

- Transition from legacy processes & tool to new ITILv3 aligned process and tool Involving:
 - –Improvements to processes and Roles & Responsibilities
 - –Up-skilling of users & support staff
 - -Improved reporting
 - Enhanced tool functionality & automation layer
 - -New integration points

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Service Management: The Old vs The New

- Delivery teams have limited understanding & visibility of the overall phase
- Processes not aligned to ITILv3
- The tool (eESM) not aligned to ITILv3 and had missing record types
- Delivery teams have an understanding & visibility of the related processes and record types
- Processes aligned to ITILv3
- The tool (ISM) aligned to ITILv3 and has all the relevant record types for improved management



Standard Operating Environment

Service Definitions List of services and their definitions on offer.

Service Catalogue List of services on offer and their applicable costs.

Tool (s) Supports the delivery of the process & enforces the Policies.

Procedural Instructions These activities are described in configuration with a specific tool used.

Procedures Describes activities to be completed as part of the Process - 'what' and 'who'.

Policies Governs the Process and its related elements.

Roles & Responsibilities 'who', what' and 'when'. Defines the responsibilities and accountability for each Process Role.

Process A standard supporting business operations & ITIL.

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Migrating to ISM

- The Project is aimed at migrating all its existing client base who are using the old tool and old processes to the new standard shared operating model
- It will provide a new foundation for expansion and use of the new capability and services
- Newly migrated clients are using the key applications eg. Service Request, Incident, Problem, Change & Configuration
- Clients that have been in BAU on the new tool for a few months have experienced increased ability to extract detailed reports and witnessed improved IT management

Migrating to ISM: Lessons Learned

- Recognising the importance communicating with the client
- Involving the client in the following activities:
 - \rightarrow validating the proposed migration data
 - \rightarrow newly introduced functionality
 - \rightarrow testing of the automatic notification
 - \rightarrow reporting modifications
- •Use of new ITILv3 terminology during the project eg.

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Projected Service Availability (PSA) Projected Service Outage (PSO)
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Additional face to face education required to key users

A/P ISM Shared Instance Overview

- Access to ISM is 24x7 either via IBM Intranet or a secured Internet gateway
 - -Used by IBM's Customer Service & Delivery Centres
 - -Used directly by Customers via the Internet for self-service
- Currently servicing
 - -44 customer accounts across A/NZ & Singapore
 - -3000 tickets & changes per month
 - -2000 users
- Expected to service
 - -Over 100 customer accounts across Asia Pacific
 - -1.8 million tickets & changes yearly (150,000 per month)
 - -10,000 users

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Key Components of ISM

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Key Components of ISM

	- IBIVI Service Mana	gement Platform -	
	IBM ITDelivery	/ QuickStart	
TSRM	TAMIT	CCMDB	TRPM
Tivoli Service Request Manager (Service Provider)	Tivoli Asset Management for IT (Service Provider)	Tivoli Change and Configuration Management Database (Service Provider)	Tivoli Release Process Manager
	TPA Tivoli Process Au	AE tomation Engine	
	Discovery Tools:	ADDM, TAD4D,	
IBM Tivoli	ITM / IT Monitoring / IBM Tivoli	CAM Composite Applicatior	n Manager

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Key Components: QuickStart Package

- A configuration package encompassing "good practise standards", aligned to ITIL v3
- What does it contain?
 - Standardized pre-loaded data, eg: classifications
 - Standard Workflows
 - -Consistent screen look & feel
 - -multi-LDAP integration
 - -Standard SLAs and KPIs
 - Pre-built data loaders
 - Standard asset product catalog

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Data Segregation by Customer

- Leverage the key capability provided by the Service Provider solutions for managing multiple customers on a single instance
 - Customer references added to existing ISM data structures allowing for customer specific SLAs, KPIs, Response Plans...
- Complete security by segregation of customer data
 - Customers view / access only their information
 - Personnel view / access only the data of customer(s) they are granted access to

Data Segregation by Customer - Relationships

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Shared Delivery Model

Dedicated Delivery Model

- We recognise that not everyone fits into the box
 - -High volume or capacity needs
 - -Significantly different processes, procedures and SLAs
 - -Information security requirements
- QuickStart assists in getting dedicated sytems up and running quickly - saving cost and time in each deployment

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ISM Architecture in Context

- How is ISM hosted?
 - -How the hosting environment contributes to greater efficiency in service delivery
- How does the ISM system design contribute to the quality of service offered?
 - -Physical and logical redundancy
 - -Scalability and Capacity Management
 - -Performance Management
 - -Data integration architecture

Virtualised Hosting Infrastructure (VHI)

Rationale:

- Centralised platform for IBM applications
- Consolidation of existing infrastructure
- Single delivery process for provisioning and support Used to provide standard ISM services (eg reporting) as well as all customer integrations
- Will move to ondemand infrastructure cloud (laaS)

Benefit:

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We can focus on Service Delivery rather than supporting the hosting infrastructure

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ISM Virtualised

- Infrastructure as a Service (laaS) to be provided by VHI
- As virtualisation matures, greater flexibility in LPAR configuration is available:

- Physical servers do not have to be dedicated to a particular application
- The eventual goal is to enable significant reduction in hosting costs through usage-based capacity adjustments

ISM Physical and Logical Redundancy

- ISM LPARs spread over two physical servers
- In normal operations, both application servers are used; in case of a server outage, ISM can continue to run with one (requires DB2 fail-over)
- Database redundancy implemented using DB2 High Availability Data Replication software (HADR)

ISM Capacity and Performance Management

- IBM monitoring suite (ITM, ITCAM) deployed in VHI to monitor servers, databases, operating systems and applications
- Automatic monitoring of ISM system components enables rapid response by support teams
- ITM and ITCAM are configured to provide optimal ISM application service reliability
- Alert trends discovered via collection of monitoring data (events, alerts) can be used to identify patterns that in turn provide input for capacity and performance planning

ISM Scalability

External Systems

- VHI provides vertical scalability through deployment of high-end P-series hardware
 - Large CPU and memory capacity
- ISM architecture is horizontally scalable
 - Increase number of JVMs in cluster
 - Increase physical servers making up ISM application
- A/P ISM Shared Instance initially sized for 150,000 tickets per month

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ISM Integration Architecture

- External integration architecture
 - Reduces ISM system overhead
 - -Scalable
 - Robust queuing and message handling
 - -Additional protocols
 - Additional message exchange mechanisms
 - -Greater data security
 - Standard message format
 - -Greater standardisation
 - Provides standard ISM services (eg reporting) as well as all customer integrations

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Conclusions

- Continual service improvement to ensure sustainable good practice is adopted
- Recommendations for process and policy improvements
- Driving requirements back into IBMs development cycle for ongoing improvements to products and good-practice configurations (QuickStart)
- Standard replicable model to expedite delivery
- Ability to react to increasing demand due to the flexibility of the architecture
- Leveraging depth and breadth of IBM product range in providing ISM managed service

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