

Service Asset and Configuration Management/SACM

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Agenda

- ITIL V3 Recap in SACM
- SACM trends
- SACM challenges
- Final Wrap-up & Q&A











Changes in ITIL V3

- Process renamed to Service Asset and Configuration Management (scope extended, but best practices covers rather just Configuration part only)
- Instead of CMDB extrapolation/extension to CMS and SKMS
- # of roles extended for Service Asset manager, Configuration Analyst and CMS/tool administrator
- DSL > DML
- Concept of baselines and snapshots
- Increasing importance of SW supporting tools





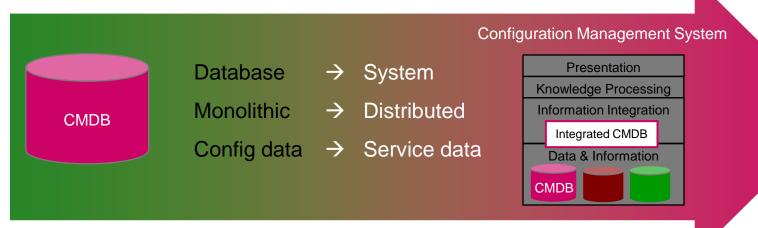
Configuration Management ITIL v2 vs. ITIL v3

Business alignment

Process orientation

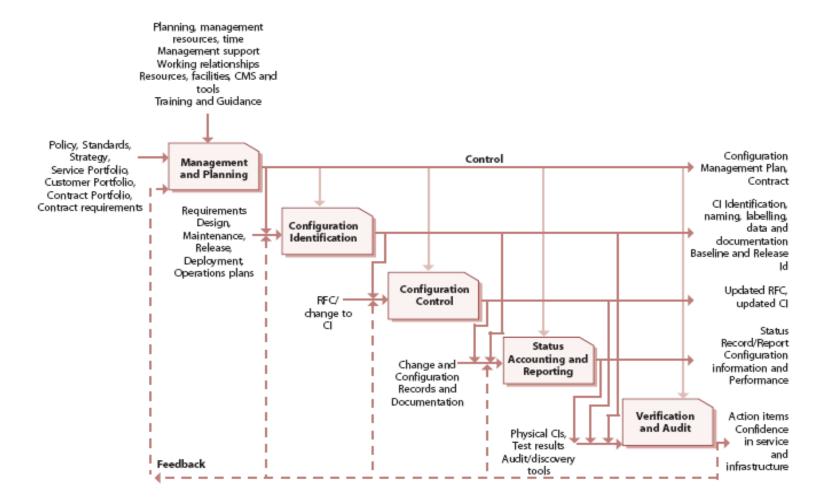
9 processes

Business integration
Service lifecycle
orientation
27 processes





SACM activities

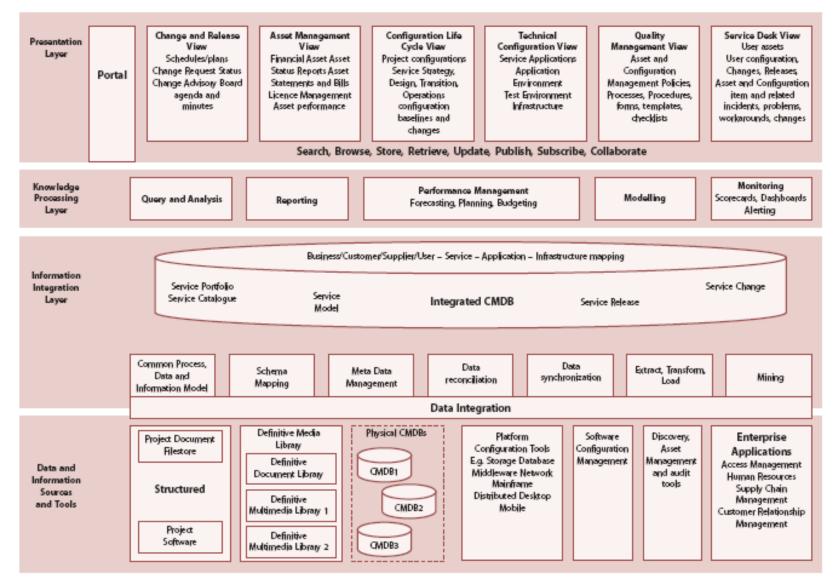


Taken from ITIL V3 Service Transition publication



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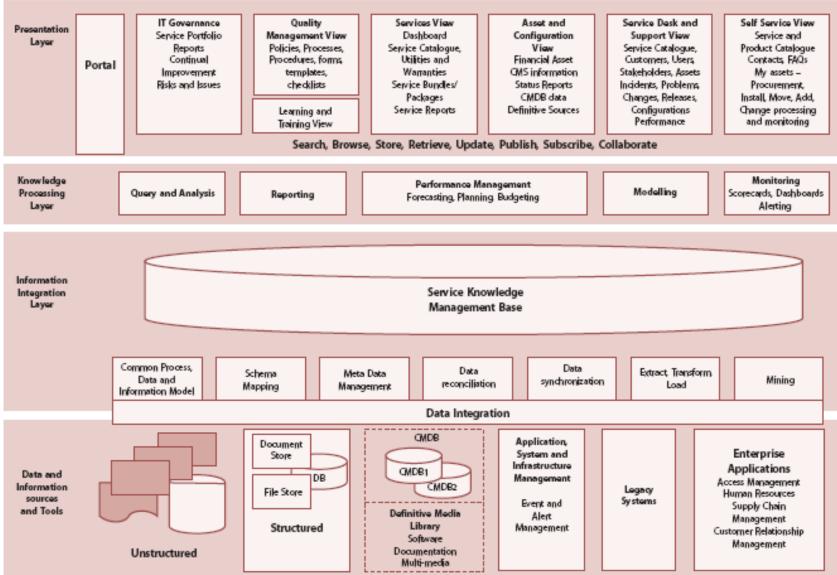
CMS?





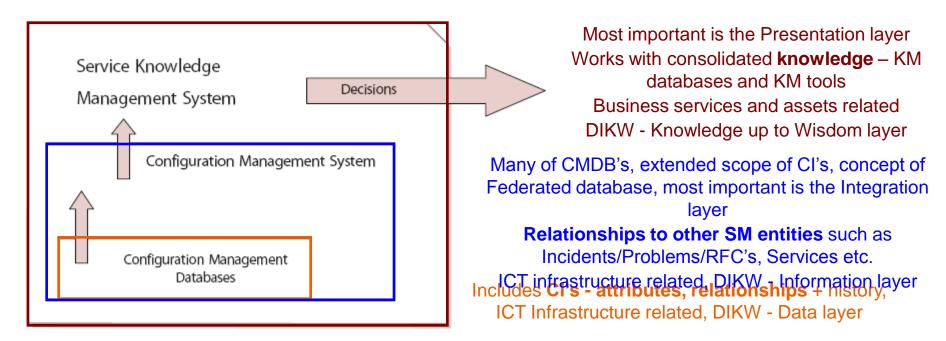


SKMS?





Difference between CMDB, CMS and SKMS (Vladimir Kufner's personal opinion)



Taken from ITIL V3 Service Transition publication





Service Asset and Configuration Management Evolution



The Value of the CMDB (and CMS and SKMS)



It's not about the Data, It's about the Use Cases or purpose we want to use it for!

- Data:

 Raw numbers, facts, and figures are data. Alone, a collection of data means nothing. <u>Discovery tools give me data.</u>

– Information:

 Information is data with semantic association. It contains the relationships and semantic associations, and is presented in a way that users can perform meaningful tasks. <u>A CMDB gives me information.</u>

Knowledge

 Knowledge implies that the readers look at the available information and apply it to a specific context or situation. <u>Leveraging a CMS within the context of the other</u> <u>processes gives me knowledge.</u>

– Wisdom:

 Complete abstraction, highest level, rarely achievable, ability to support proper decisions <u>Leveraging a SKMS within the context of the whole Service</u> <u>management gives top management to make wisdom decisions.</u>







Implementing a SACM



A delicate balancing act of top-down and bottoms-up SACM is at the heart of almost all ITIL processes





Focus on the User Experience

Practical

Distributed

Data stays in authoritative repositories

Open

Extracts new value from existing tools

Transparent

Data seamlessly accessed from external sources

Actionable

In service context

Info related to apps and services

In user context

Per role and task of users and client apps



A federated database system transparently integrates multiple autonomous database systems into a single federated database.

Since the constituent database systems remain autonomous, a federated database system is a contrastable alternative to the (sometimes daunting) task of merging together several disparate databases.

-Wikipedia

























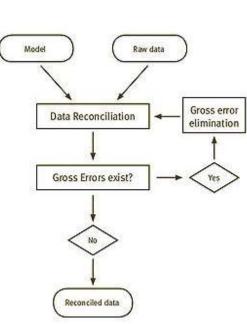
Federated CMDB – basic concepts

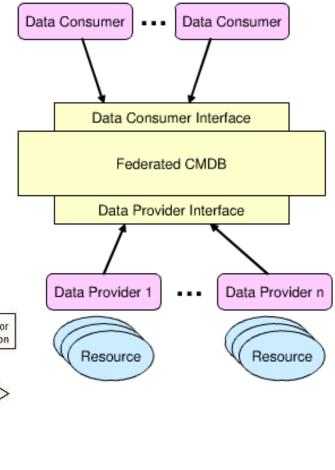
Federation

 Ability to access diverse and distributed data as if it were a single source, regardless of the location, format, and access language

Reconciliation

- Mapping and visualization
- Synchronization













Trends – history (ITIL V2)

- Just limited to ICT Infrastructure and IT Services
- Focus on data collection and integration
- Rather synchronization or data imports instead of federation
- Goal for CfM process was to create CMDB
- Support for just limited amount of processes
- Purely technical discipline, no tool for making qualified decisions
- Centralized IT department management



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Trends - now (ITIL V3, ITIL V3 Update)

- Focus on Business Service
 Management (SACM + Service
 Portfolio and Service Catalogue
 Management processes)
- Compliance
 - internal, industry standard or legal regulations
 - IT Governance still increasing
 - Audit
 - Policy management
- Higher security requirements
- Multi-tenancy approach (multisourcing environment)
- Much better automation required (cost reduction pressure)

- Higher financial transparency required
- Better SW tools
 - Automatic discovery by tools from different vendors
 - More sophisticated ETL tools
 - More sophisticated reporting tools to report on Cl's details it's not enough anymore – we need impact analysis, data drilling/mining, trend analysis, Bl and audit tools etc.
- Decentralized management of IT department sitting in BU – business service centric (typically in either telco or finance sectors)







Project Scope Challenges

- How to demonstrate value quickly to gain funding and buy-in?
- How to manage 'many moving parts' problem?
- How to manage and justify Cost compared to benefits?
- How to cope with many different stakeholders having different interests?
- How to manage Complexity of the ICT infrastructure?
 - Virtualization
 - Cloud computing, SOA, SaaS, PaaS etc.
 - Component configuration management, shared services from multiple vendors, multi-tier architectures







Security Challenges

- Who will own the data?
- Who can see what data? (e.g. firewalls, user access lists etc.)
- Who can edit what data? Manual or automated?
- Is agent-based or agent less discovery better for your environment?
- What changes or attributes need to be audited?
- Are we required to use a special secure technologies such as SSL protocol, SSO, digital signature and many other things due to the Company Information Systems Security policy?





Process Challenges

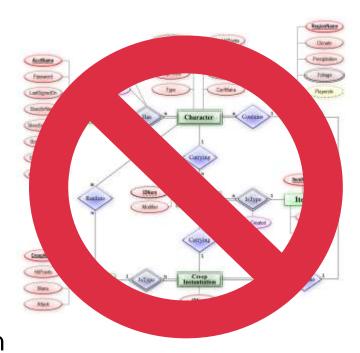
- Order of implementation
 - Configuration Mgmt is typically implemented after Incident, Problem, and Change, which is not ideal
 - Config & Change which the first? Chicken and egg problem
- Need to understand Use Cases for all users and processes to provide the Right type of Visualization and Right Info
- Manual vs automated maintenance
- How to audit/reconcile actual vs. expected? (typically e.g. Change management vs. automatically discovered changes)
- Who is responsible for what? (to nominate CfMgr accountable for all is impractical)





Tool Challenges

- It's not about the Data Model
- Scope and Depth of Data
- Scalability?
- How to capture undiscoverable data?
- Integration with data sources
- Replication (synchronization) vs Federation
- Tool Maturity
- Reporting capabilities







Positioning of SW tools - The ITIL® Software Scheme

ncy Ltd (SM)



Purpose

- Should enable SW vendors to obtain endorsement for an ITIL SW tool
- It's not ITIL SW certification, SW cannot be "ITIL compliant"
- Licensed Software Assessors
 - The Service Management Constitution
 - Pink Elephant Inc



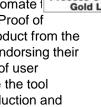
BRONZE

 Product has passed the assessment, but has not been purchased by a customer.

SILVER

 Product has at least three "in production" customers. Proof of product order by customer is required (on letter headed paper) - va lanked out – stating the deployed in production. tool (inc corre

production" customers the nd are using the product and are ha ce man they are using the tool to automate t ssed process in accordance with ITIL. Proof of

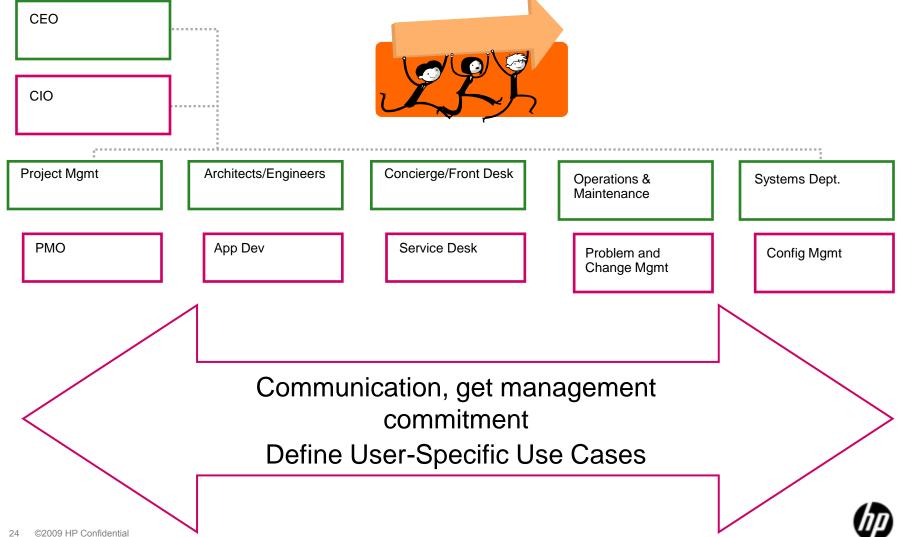


customer implementation of the audited product from the customer (letters on letter headed paper) endorsing their use of it is required with at least one piece of user evidence. Proof should state that they have the tool (including correct version) deployed in production and they are using the tool to automate the assessed process in accordance with ITIL.





The People Factor





The Process Factor

- Clear Vision Mission statement needed
- Don't implement Change without Configuration Mgmt (don't be the surgeon without the X-ray!) or even better implement SACM together with ChM and Release and Deployment Management
- Other processes are heavily dependant on SACM - e.g. IM, PRM, AvM, CaM, ITSCM, SLM
- Proper balance between automatic discovery and manual filling
- Data ownership and maintenance
- How will you detect **unauthorized** change or theft?

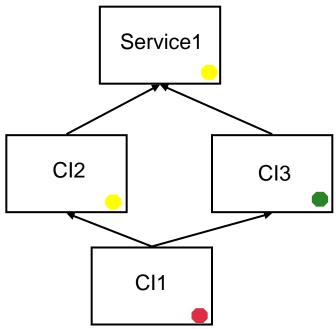






Understanding the User Use Case

- Need to understand Use Cases for all users and processes to provide the Right type of Visualization
 - · Summary info vs detailed
 - · List of impacted vs relationship visual
 - Service1 is impacted now (helpdesk for assignment)
 - or
 - CI1 -> Service1(incident triage)
 - · or
 - CI1 -> CI2-> Service1 (root cause and change impact assessment)



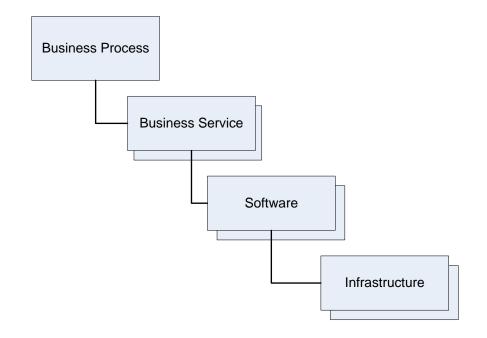


The Tool Factor





- It's not about the Data Model, but naming conventions are extremely helpful
- Scope Important application, but manageable effort
- Tool Maturity
 - How does the tool facilitate automated maintenance?
 - Does the tool support configuration baselines?
 - How does the tool facilitate audit/reconciliation?
 - Can it detect unauthorized changes?







Data Management

- Replication vs. Federation
 - Real-time Data Access from your process tool is the valuable result
- Depth of Data
 - Trust and work with the vendor
- Scalability
 - Is it proven? References?
- Data retirement policy
 - How long do we want to keep records about obsolete Cl's?
 - Data archiving ... ?



Workgroup

Draft 1 – Aug 2007

Members















Integration – 4P's concept

- People

 Communication is key and includes not just operations but also the PMO/Enterprise Architecture/Strategic Planning teams and the Application Development team

Process

 Configuration Management data in and of itself is not valuable, it is how it is used to facilitate the other processes.

Tool (Product)

• **Integration** between Discovery tools, CMDB, and Process tools are critical. What is the batch throughput or query performance of the integration?



- Some part of either ICT infrastructure or services are being provided by 3rd parties
- For implementation we need help either temporary staff for initial population or consulting services









Keys to a successful Config Mgmt Implementation

– Succeed The First Time!





Where to find more?

- http://www.itil-officialsite.com/home/home.asp
- http://www.best-management-practice.com
- <u>www.itsmf.co.uk</u>
- www.itsmf.cz
- http://www.cmdbf.org/CMDB-Federation-white-paper-vision-v1.0.pdf



Q&A

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