CMDB CA Best Practices and Service model

Swedish Service Desk Manager User Group

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Agenda

CMDB – CA Best Practices and Service Model

CMDB vs. CMS

Federation

Content Pack

Service Model

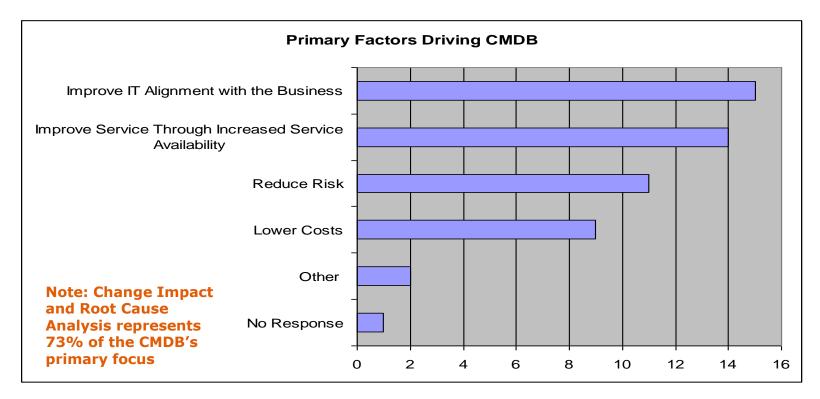
- "Just Enough", Top-Down vs. Bottom-Up, Federation
- Visualization, filters

Integrations and Data Population

- GRLoader, TWA, R12.7
- CA Configuration Automation integration with CMDB via Catalyst



primary CMDB use cases based on CA Technologies survey





consumers of configuration management information

- What processes are you looking to implement first using a CMDB?
 - 43%: Release, Change, and Configuration Management
 - 34%: Incident and Problem
 - 13%: Asset Management
 - 8%: Service Level Management
 - Service Modeling based on critical applications
 - 2%: Other

All are attributable to gauging impact, controlling important assets, or guidance in defining services based on CI relationships in existence...

Source: EMA



Contrast Asset and Configuration Management

Understanding the difference between the tangible value of an asset and the resource value of an asset is key to determining the business risk value of loss of that asset.

Asset Management Focus

- > Finance, ownership, and contracts
- > Lifecycle management
- > The asset as an IT corporate resource
- > The micro individual performance
- > CFO

Focus on cost and fixed risk

Configuration Management Focus

- > Operational responsibilities
- > Risk management and impact
- > The asset as a business service enabler
- > The macro aggregate performance
- > COO

Focus on value and unlimited risk



CMDB vs. CMS



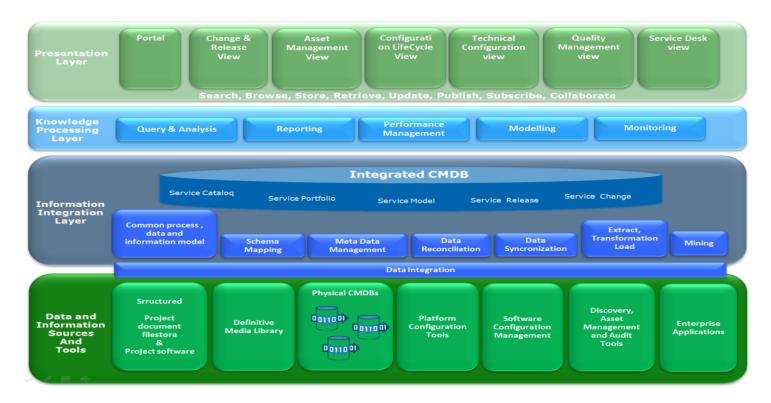
CMS – Configuration Management System

- Holds all the information for Cis within the designated scope
- Holds asset data available to external financial AM systems
- Relationships between all service components and any related incidents, problems, known errors, change and release documentation, employees, suppliers, locations, business units,...
- CMS will provide access to data in asset inventories wherever possible rather than duplicating data



Sample CMS System as defined by ITIL and CA mappings

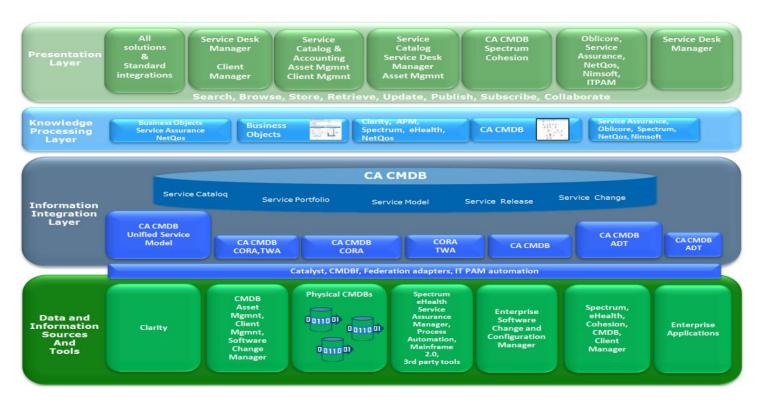
Sample Configuration Management System (ITIL V3)





Sample CMS System as defined by ITIL and CA mappings

Sample Configuration Management System (ITIL V3) & CA mappings

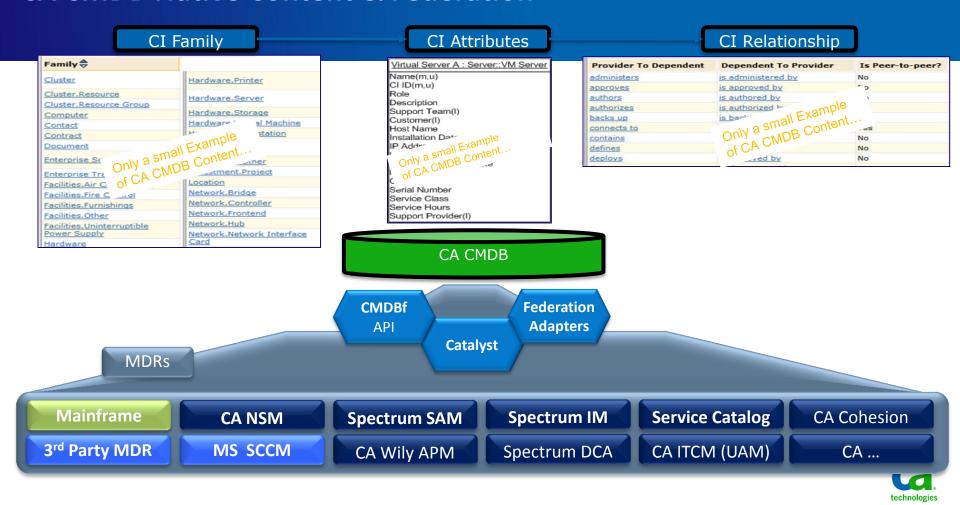




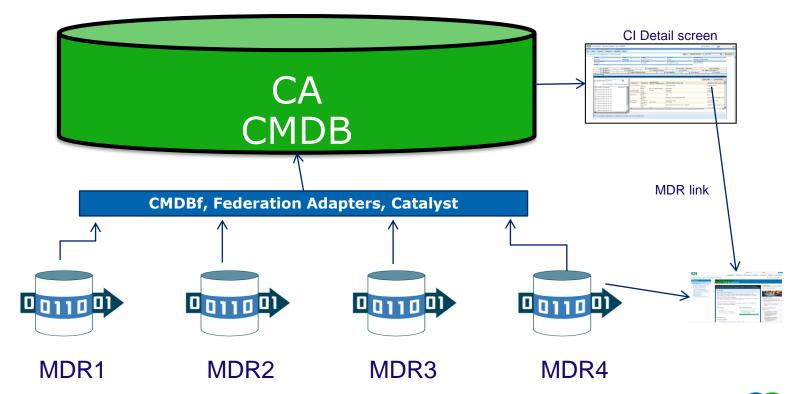
Federation



CA CMDB Native Content & Federation



Federated Architecture

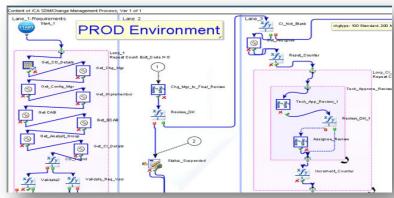




Content Pack



- The Content Pack for ITIL® consists:
 - ITIL v3 standard process collateral consisting of
 - Processes Handbook, RACI matrix, Processes, sub-processes, Procedures & Work Instructions
 - Includes; Service Catalog, Request,
 Incident, Asset, Change & Configuration Management
 Processes
 - Supporting workflows
 - CA Process Automation

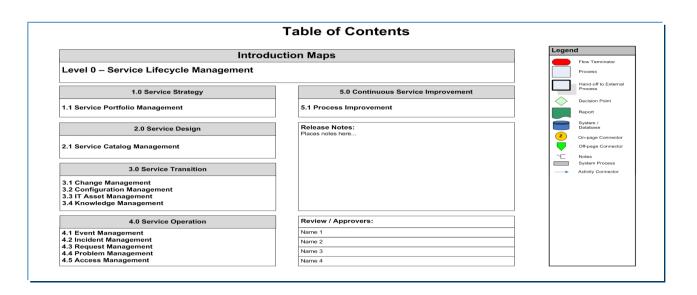




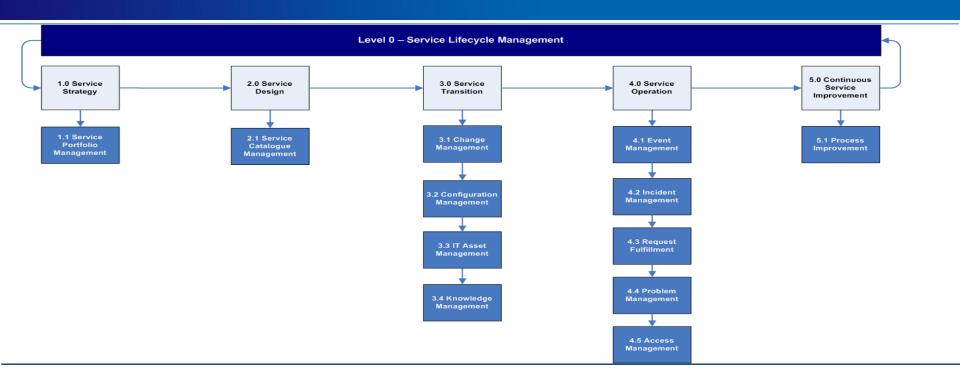


CA Technologies - Reference Architecture Service Management Process Handbook Version 3.1

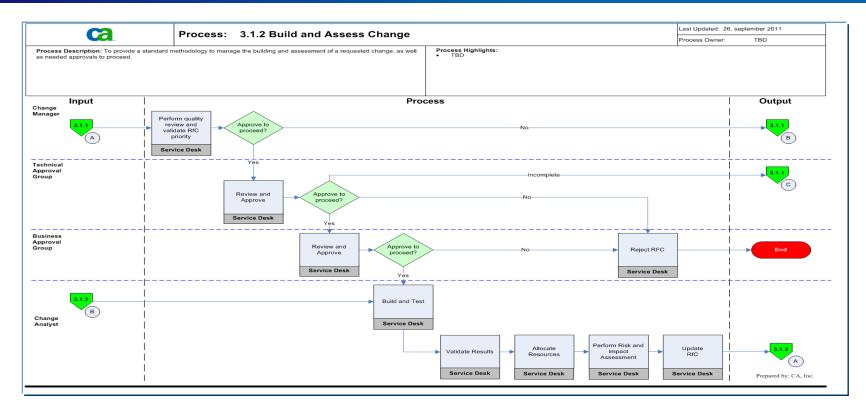
Date of Version: August 12th, 2011













Service Model



First - architect the right CMDB data model

- What is a "Service"?
- Step-by-step guide to building a Service Model with CA CMDB



Configuration Management

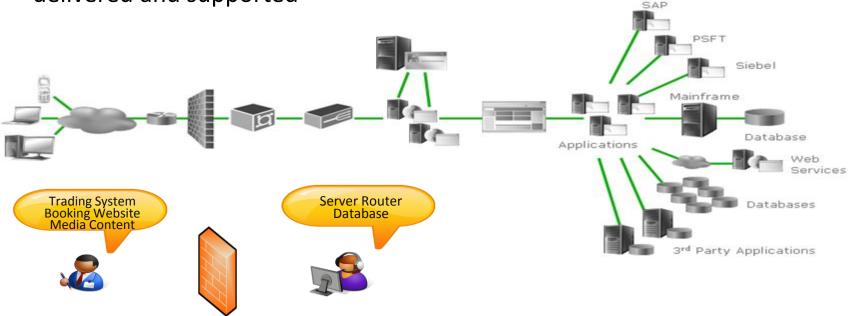
- IT Service focused items (Cl's) that need to be "managed" to deliver the Service
 - Models Business Services in the CMS, providing information about Configuration Items,
 including their Relationships required to deliver the Business Service
 - The Configuration Management process provides the ability to consistently identify,
 manage and verify the IT infrastructure components and their Relationships within the
 Business Services
 - Quality is determined by the maturity level of the Configuration Management Process

It is not about sticking every bit of infrastructure in a big database!



translate IT to the business: service view

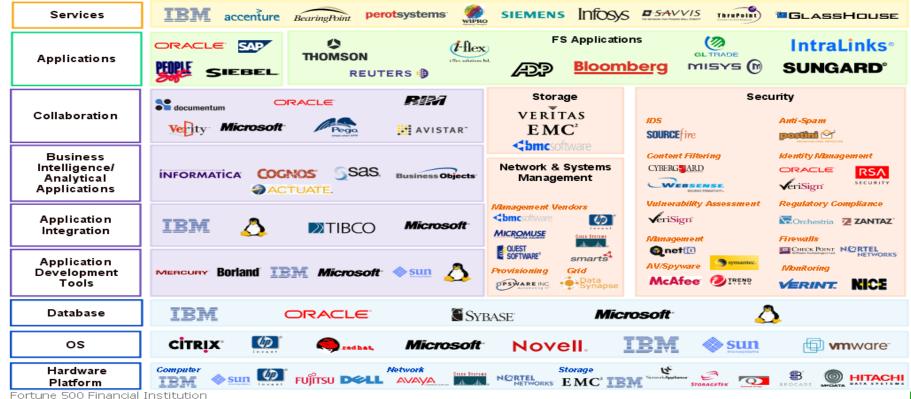
critical to a service is understanding how it is consumed, constructed,
 delivered and supported





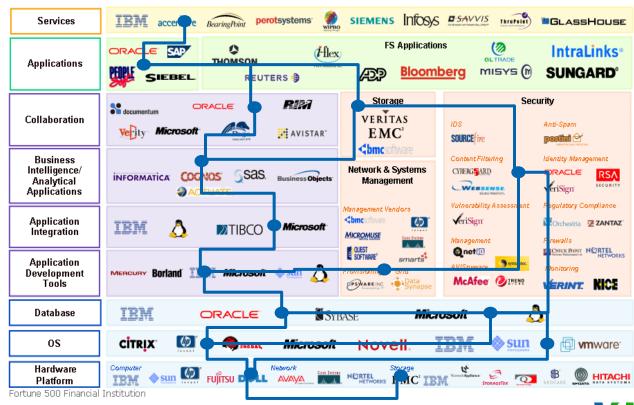
A Bird's eye view of an IT Service

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A Bird's eye view of an IT Service

- Services are made up of many layers
- Connecting layers is what makes Services robust but complicated
- We need to find the connections to "navigate" through the layers



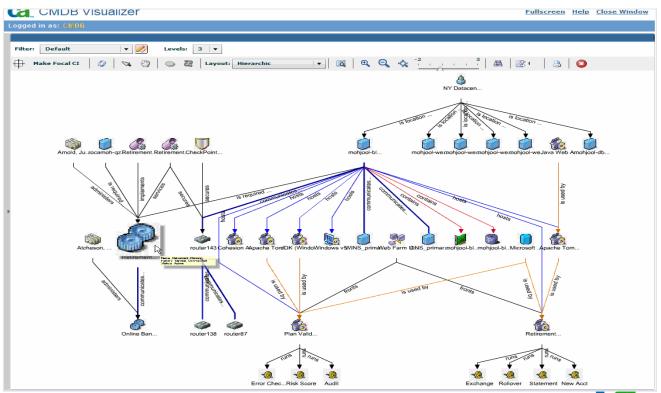


Use Technology to Help



- Change Impact
- Root Cause







Service Model Design

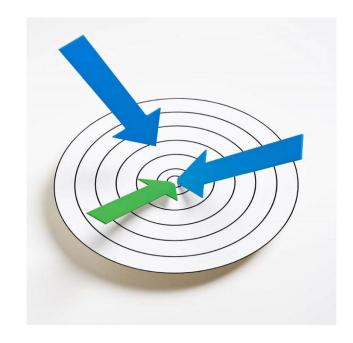
- Structure Underlying classification, component attributes and hierarchy of Cl's
- Object Model A diagram that represents all CI types within the scope of the Configuration
 Management process and their named relationships
- Service Model An Object Model diagram that includes the key attributes meta data values that will be captured in relation to the defined CI Types

If the Infrastructure is the puzzle, and the Configuration Item (CI) is the piece, then the Configuration Management Service Model is the picture on the puzzle box



start with what you want to achieve

- > objectives for a configuration management database
- > considering:
 - who are the consumers of configuration management information?
 - what information do they require?
 - why do they need it?
 - when do they need it?
 - who owns the process?





typical consumers

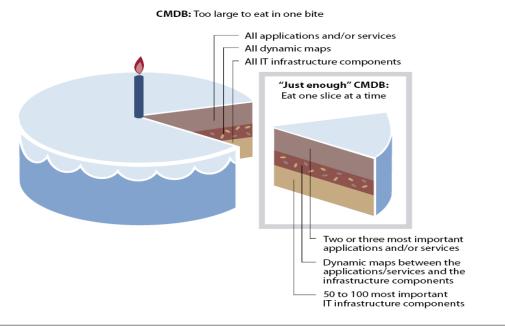
configuration data:

- change & release management impact analysis
- incident management root cause analysis
- problem management root cause & trend analysis
- service level management service definitions
- service portfolio & catalogue management service definitions
- availability management service definitions, impact analysis, root cause analysis
- capacity management service definitions, impact analysis
- financial management charging



"Just Enough" CMDB

Figure 1 The "Just Enough" CMDB: Eat The Cake One Slice At A Time



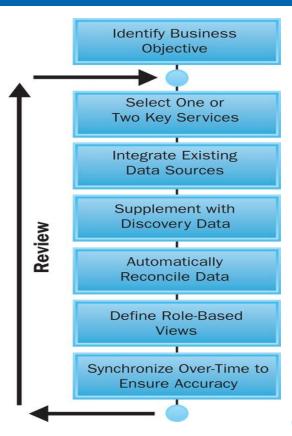
Source: Forrester Research, Inc.

Source: Forester Research The "Just Enough" CMDB Implementing A CMDB Is Not A Five-Year Project April 12, 2006



Iterative Methodology

- Adopt an iterative lifecycle approach:
 - Start small have a clear objective
 - Identify one or two key services
 - Work with consumers to define attributes
 - Leverage your existing tool information to populate CI attributes
 - Supplement with Discovery
 - Define role-based service views
 - Synchronise data on an ongoing basis to ensure accuracy

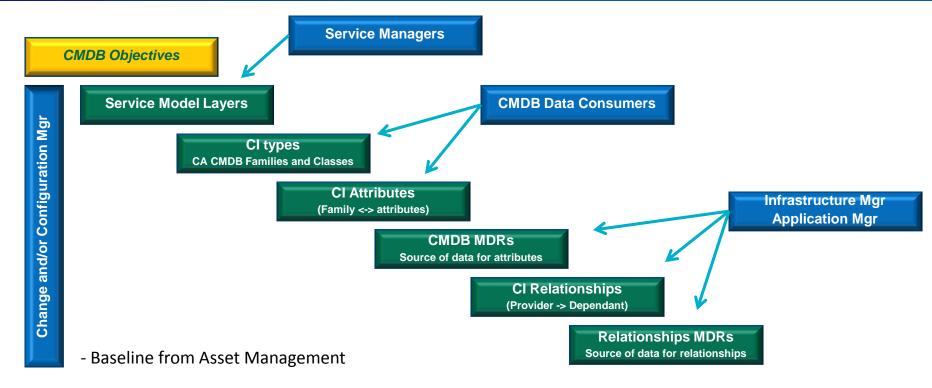




Identify the hierarchical layers

Business Service	
IT Service	Additional Layers:
Web Presentation	- Organisations - Customers
Applications	- Locations - SLA
Software	- Application Development - Virtual Environment
Database	- High Availability - Security
Operating System	???
Hardware	Can these layers be represented as attributes of CIs? If you add a layer be ready to have extra CI types, attributes and
Network/Facilities	relationships to manage

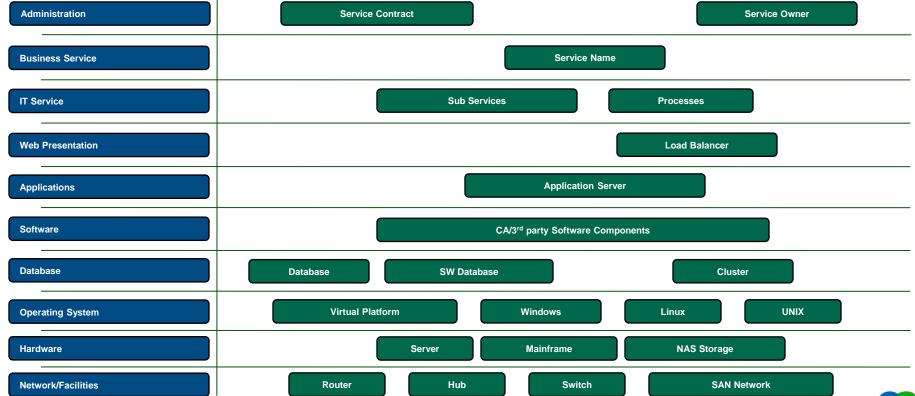
Build a Service Model with CA CMDB



- Baseline from Discovery tools (Desktops, Devices, etc)



service model identify the high level CI types





CA CMDB r12.6 CI families

- families can be renamed
- more can be created
- each family has a set of attributes

Family	Family	Family
Cluster	Hardware.Server	<u>Projects</u>
Cluster.Resource	Hardware.Storage	SAN.Interface
Cluster.Resource Group	Hardware.Virtual Machine	SAN.Switch
Computer	Hardware.Workstation	Security
Contact	Investment.Idea	<u>Service</u>
Contract	Investment. Other	Service Level Agreement
<u>Document</u>	Investment.Project	<u>Software</u>
Enterprise Service	Location	Software.Application
Enterprise Transaction	Network.Bridge	Software.Application Server
Facilities.Air Conditioning	Network.Controller	Software.Bespoke
Facilities.Fire Control	Network.Frontend	Software, COTS
Facilities.Furnishings	Network.Hub	Software.Database
Facilities. Other	Network.Network Interface Card	Software.In-House
Facilities.Uninterruptible Power Supply	Network.Other	Software. Operating System
<u>Hardware</u>	Network.Peripheral	Telecom.Circuit
Hardware.Logical Partition	Network.Port	Telecom. Other
Hardware.Mainframe	Network.Router	Telecom.Radio
Hardware.Monitor	Network.Switch	Telecom.Voice
Hardware.Other	<u>Organization</u>	Telecom.Wireless
Hardware.Printer	<u>Other</u>	

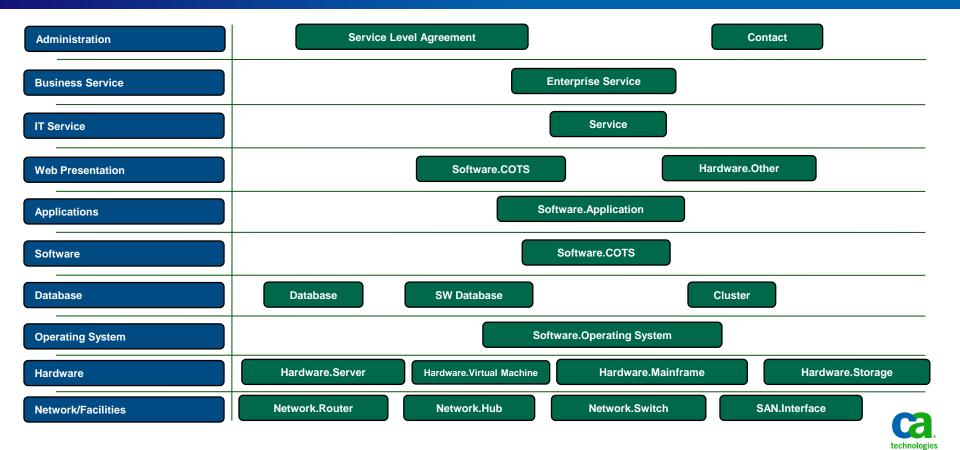


CA CMDB r12.6 CI classes

Class	Family	Class	Family	Class	Family	Class	Family
3270 Terminal	Network.Frontend	ESX Server	Hardware.Server	Other Document	Document	Shredder	Hardware.Other
ACD	Telecom. Other	Executive	Contact	Other Facilities	Facilities.Other	Silo	Hardware.Storage
Admin Guide	Document	External	Organization	Other Hardware	Hardware. Other	SOA Integration Bridge Project	Projects
Air Conditioning	Facilities.Air Conditioning	External Contact	Contact	Other Hardware Mainframe		Solaris	Hardware. Server
AIX	Hardware.Server	Fax Machine	Network.Peripheral	Other Hardware Storage	Hardware. Storage	SQL	Software.Database
AIX OS	Software. Operating System	File Cabinet	Facilities.Furnishings	Other Hardware Virtual Machine	Hardware. Virtual Machine	STC	Software.COTS
Application	Software.Application	File System	Hardware. Storage	Other Monitor	Hardware. Monitor	Storage Area Network	Hardware.Storage
Application Instance	Software.Application	Fire Control	Facilities.Fire Control	Other Network	Network.Other	Sun	Hardware.Server
Application Security	Security	Flat Screen	Hardware. Monitor	Other Operating System	Hardware. Server	Sun OS	Software. Operating System
Application Server	Software.Application Server	Floor	Location	Other Printer	Hardware.Printer	Switch	SAN.Switch
Application Server Instance	Software.Application Server	Group 80	Hardware. Mainframe	Other Security	Security	Sybase	Software.Database
Application Test Plan	Document	GSX Server	Hardware. Virtual Machine	Other Service	Enterprise Service	System 390	Hardware.Mainframe
Barcode Reader	Hardware, Other	Hard Drive	Hardware, Storage	Other Service Level Agreement	Service Level Agreement	System z	Hardware, Mainframe
Batch	Software, COTS	HP UX	Hardware, Server	Other Software Database	Software.Database	Tandem	Hardware, Server
Bespoke	Software.Bespoke	HP UX OS	Software, Operating System	Other Software OS	Software, Operating System	Tandem - Mainframe	Hardware, Mainframe
Bridge	Network.Bridge	Hub	SAN.Switch	Other Telecom	Telecom. Other	Tandem OS	Software Operating System
Bubble Jet	Hardware.Printer	IMS	Software.Database	Other Telecom Circuit	Telecom.Circuit	Tape Array	Hardware, Storage
Building	Location	In-House	Software.In-House	Other Telecom Radio		Tape Library	Hardware.Storage
Building Security	Security	Infrastructure Service	Enterprise Service	Other Telecom Voice	Telecom. Voice	Technical	Contact
Business Continuity Plan	Document	Ingres	Software Database	Other Telecom Wireless		Television	Hardware.Other
Business Service	Enterprise Service	Ink Jet	Hardware Printer	Pager	Telecom Wireless	Terminal	Hardware Monitor
Business Transaction	Enterprise Transaction	Interface	SAN Interface	PBX	Telecom Voice	Training Class Collateral	Document
CA-Datacom	Software. Database	Internal	Organization	PDA		TSO	Software.COTS
CA-IDMS	Software Database	IVR	Telecom Other	Person		Underpinning Contract	Service Level Agreement
Campus	Location	Laptop	Hardware.Workstation	Phone Card	Telecom.Voice	Uninterruptible Power Supply	Facilities.Uninterruptible Power Supply
CD-Rom Drive	Hardware. Storage	Laser	Hardware.Printer	Plotter		Unisvs	Hardware Server
Centrex	Telecom. Voice	License	Software	Policies and Standards	Document	Unisys - Mainframe	Hardware Mainframe
CICS	Software, COTS	License Agreement	Contract	Port		Unisys OS	Software. Operating System
City	Location	Linux	Hardware Server	Portfolio Application		Unix	Hardware Server
Cluster	Cluster	Linux OS	Software.Operating System	Portfolio Asset	Investment.Other	Unix OS	Software.Operating System
Communication Circuit	Telecom.Circuit	Logical Partition	Hardware.Logical Partition	Portfolio Idea	Investment.Idea	User Guide	Document
Component	Service	Managerial	Contact	Portfolio Product		Vax	Hardware Server
Conference Bridge Line	Telecom.Voice	Microfiche	Hardware.Printer	Portfolio Program	Investment.Other	Vax - Mainframe	Hardware Mainframe
Controller	Network Controller	Microsoft Virtual Server	Hardware.Virtual Machine	Portfolio Project		Vax OS	Software, Operating System
Copier	Hardware, Other	Mobile Phone	Telecom, Wireless	Portfolio Service	Investment.Project	VCR/DVD	Hardware, Other
COTS	Software COTS	MVS	Hardware Mainframe	Portfolio Work		Video Camera	Hardware.Other
	Location	MVS OS	Software. Operating System	Practice Practice	Service	Video Conferencing Unit	Telecom Other
Country Crav	Hardware, Mainframe	Network Attached Storage	Hardware.Storage	Process		Virtual Storage Array	Hardware, Mainframe
CRT	Hardware.Monitor	Network Huh	Network. Hub	Projector		Virtual Tape System	Hardware.Namirame
Data Security	Security Security	Network Interface Card	Network Network Interface Card	Radio Data Modem		Virtual Tape System VM	Hardware.Storage Hardware.Server
	Location		Software.COTS	Radio Data Modem Radio Handsets	Telecom.Radio	VM OS	
DB2	Software Database	Network Software	Network Switch				Software Operating System Contract
Desk Phone		Network Terminal	Network Frontend	Resource Group		Warranty/Maintenance Contract WebSphere MQ	Software.COTS
	Telecom.Voice Hardware Other				Cluster.Resource Group		
Digital Camera		Operational Level Agreement Optical	Service Level Agreement	Router		Windows	Hardware.Server
Discovered Hardware	Hardware		Hardware.Storage		Network Router	Windows OS	Software Operating System
Disk Array	Hardware.Storage	Oracle	Software.Database	Satellite Link	Telecom. Circuit	Workstation	Hardware.Workstation
<u>Document</u>	Service	OS/390	Hardware Mainframe	Security Software	Software.COTS	X Terminal	Network.Frontend
DVD	Hardware.Storage	OS/390 OS	Software.Operating System	Server	Hardware.Server	z/OS	Hardware Mainframe
	Hardware.Other	Other Contact	Contact	Service	Service	z/OS OS	Software.Operating System
Equipment Rack	Facilities.Furnishings	Other Contract	Contract	Service Level Agreement	Service Level Agreement	Zip Drive	Hardware. Storage



service model with families CA CMDB



start considering available MDR's

- purists will say design first based on needs, then make the tool fit
 - but COTS tools (CA CMDB) have features and "limitations"

- MDR's may have technical "restrictions" in terms of:
 - attributes & relationships automatically populated
 - what CI will require manual input
 - federation
 - reconciliation
 - synchronization



identify CI's attributes for each family

select for each family the set of attributes needed (and available), examples:

Database Management : Service::Service
Customer
Service Manager
Service Agreement
Service Class
Service Hours

Autocad: Software.Application::Application
Name(m,u)
CI ID(m,u)
Role
Description
Support Team(I)
Customer(I)
Customer Support Company(I)
Customer Support Team(I)
Number of Users (Approx)
OS
Service Class
Service Hours
Version

Database: Software.Database::Oracle
Name(m,u)
CI ID(m,u)
Role
Description
Support Team(I)
Customer(I)
Customer Support Company(I)
Customer Support Team(I)
OS
Service Class
Service Hours
Version

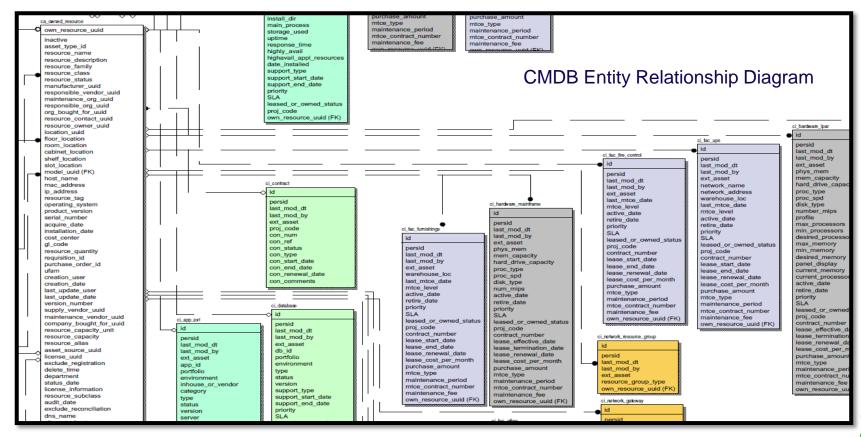
Virtual Server A : Server::VM Server Name(m.u) CI ID(m,u) Role Description Support Team(I) Customer(I) Host Name Installation Date IP Address Lease Effective Date Lease Termination Date MAC Address Serial Number Service Class Service Hours Support Provider(I)

NAS 1: Hardware.Storage::NAS Name(m,u) CI ID(m,u) Role Description(Support Team(I) Location(I) Cabinet Floor Host Name Installation Date IP Address Lease Effective Date Lease Termination Date MAC Address Manufacturer(I) Model(I) Room Serial Number(u) Service Class Service Hours Shelf Support Provider(I)

- for each attribute document which MDR will be used to populate it
- Note: Sometimes you may need to select whether attribute should be a CI or attribute of CI (f.ex. Operating System)

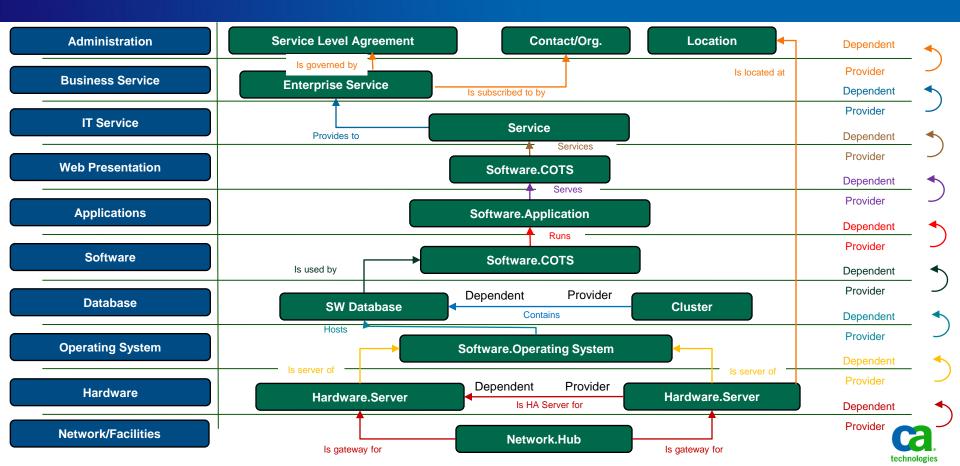


CMDB Entity Relationship Diagram





identify CI's relationships between layers



CA CMDB r12.6 relationship types

Provider To Dependent	Dependent To Provider	Is Peer-to-peer?
<u>administers</u>	is administered by	No
<u>approves</u>	is approved by	No
<u>authors</u>	is authored by	No
authorizes	is authorized by	No
backs up	is backed up by	No
connects to	connects to	Yes
<u>contains</u>	is contained by	No
<u>defines</u>	is defined by	No
<u>deploys</u>	is deployed by	No
<u>documents</u>	is documented by	No
governs	is governed by	No
<u>hosts</u>	is hosted by	No
has as assignee	is assigned to	No
is high availability server for	has for high availability server	No
is gateway for	has for gateway	No
is the child of	is the parent of	No
is recovery server of	has for recovery server	No
fails over	fails over	Yes
<u>manages</u>	is managed by	No
monitors	is monitored by	No
notifies	is notified by	No

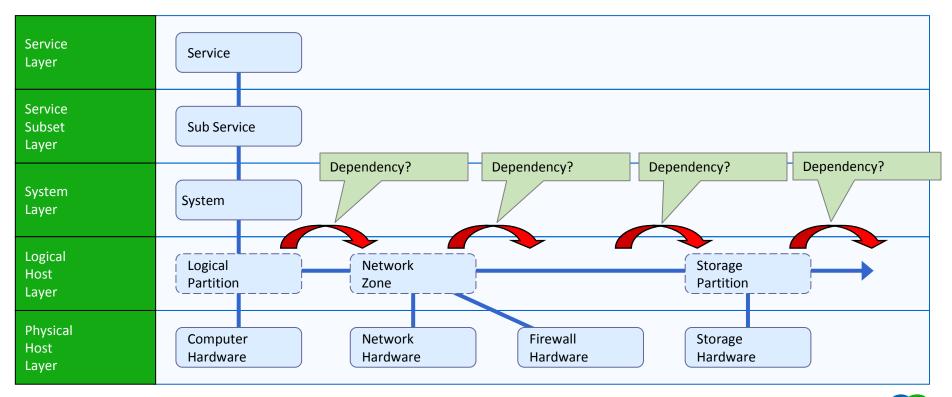
Provider To Dependent	Dependent To Provider	Is Peer-to-peer?
is required by	requires	No
runs	runs on	No
<u>secures</u>	is secured by	No
services	is serviced by	No
is subscribed to by	subscribes to	No
supports	is supported by	No
<u>updates</u>	is updated by	No
is used by	uses	No
is business owner of	is owned by	No
is source code for	source code is from	No
serves	is served by	No
is server of	is client of	No
<u>regulates</u>	is regulated by	No
controls	is controlled by	No
complies to	is complied to by	No
communicates with	communicates with	Yes
is location for	located at	No
<u>fronts</u>	is fronted by	No
provides to	is provided by	No
is proxy for	is proxied by	No
is primary contact for	has primary contact of	No

they can be renamed

... or you can create new ones



Determine Peer-to-Peer Relationships





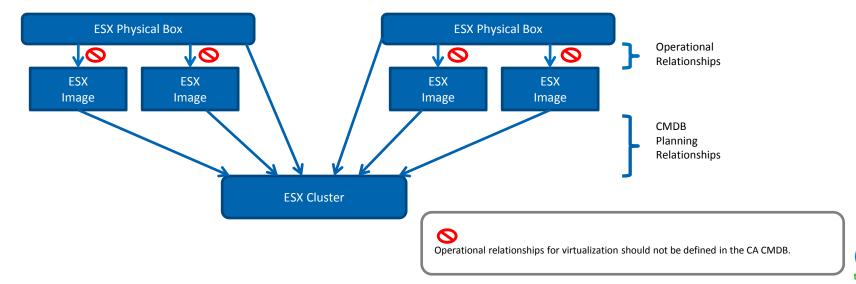
Handling Virtualization

- Virtualization requires special attention due to the manner in which certain data exists in a seemingly static state and other data is in a seemingly dynamic state.
- A CMDB is typically not the best place to store dynamic state data. Therefore, the data that is more frequently kept includes the information about the physical boxes, the clusters and how they are related, and the specific images that can be tied to the cluster.
- However, the real-time relationship information (image to physical box, for example) is usually part
 of an operational system, not the CMDB.
- This particular pattern is not limited to virtualization alone. The same is often true for mainframe relationships like job management. In this case, the focus would be on defining queues as being static.



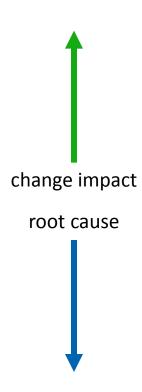
Handling Virtualization

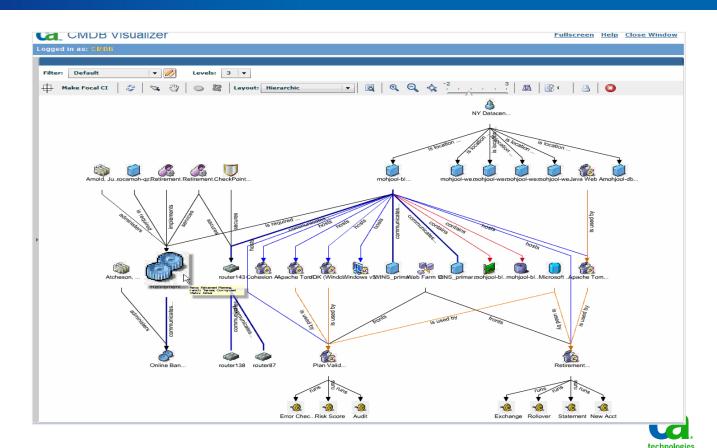
- There are various methods to handle virtualization.
- These methods depend on:
 - The processes virtualization supports
 - The ability to collect accurate information
- CMDB planning and operational views can be different.





leverage the technology to assist you

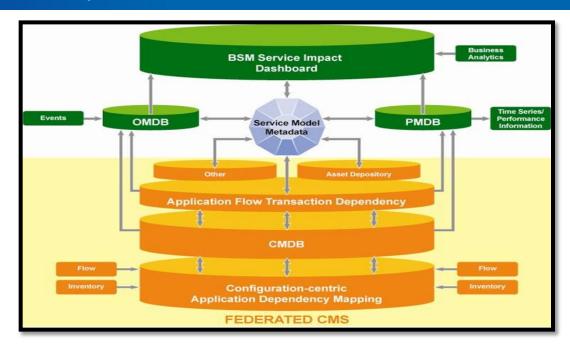




Market Need Example Federated CMS-based BSM (per EMA)

The market need outlined in this diagram by EMA shows integration of data from many sources to a federated service model (CMS or CMDB++).

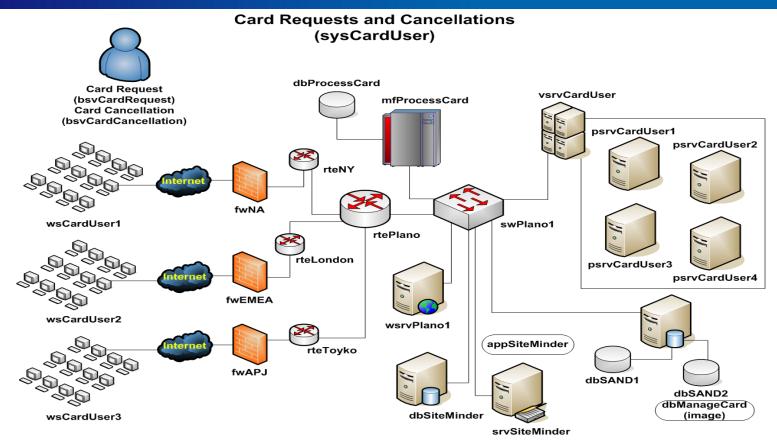
We would deliver the pieces of this, including the capabilities that would feed config data, events and metrics into it, as several discrete solution offerings for various smaller market segments with distinct buyers.



Consistent solution architecture is required to ensure discrete solutions can be further integrated in flexible ways to construct larger solutions like this.

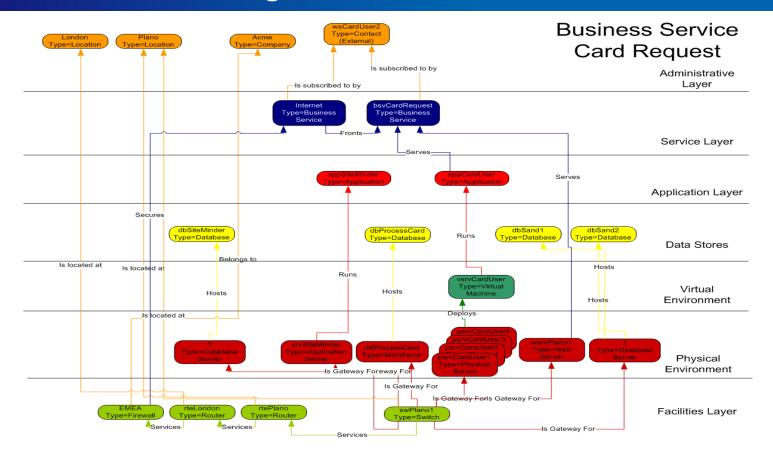


Business Process: Card Requests and Cancellations the traditional diagram



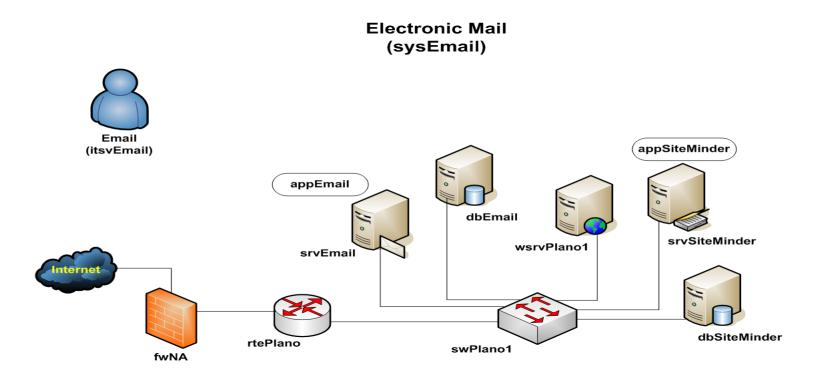


Business Process: Card Requests and Cancellations a service model diagram



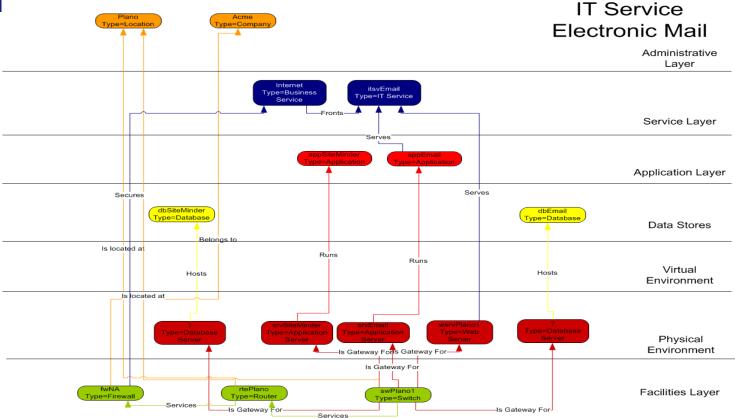


Business/IT Service: email the traditional diagram



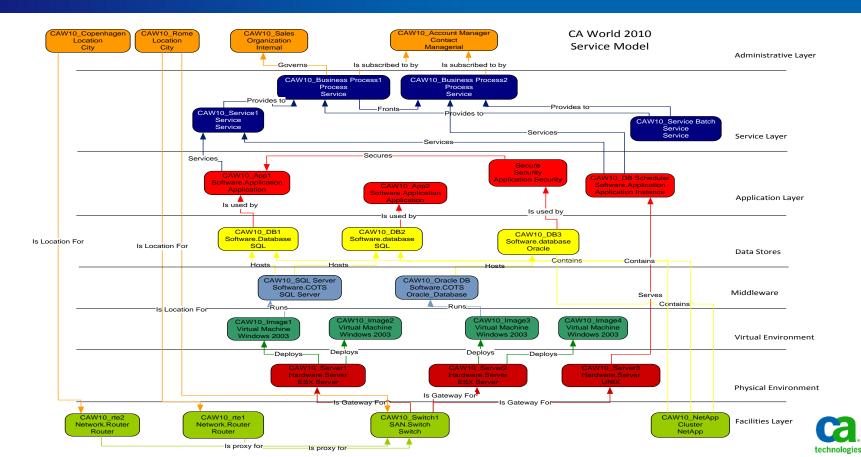


Business/IT Service: email the traditional diagram

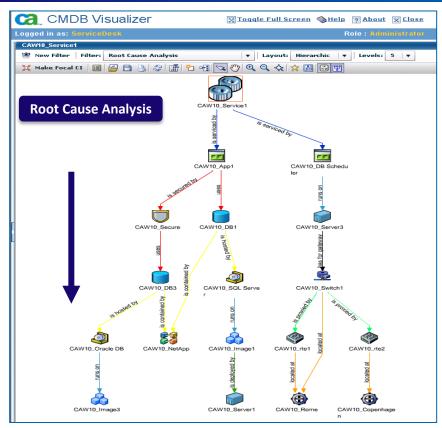


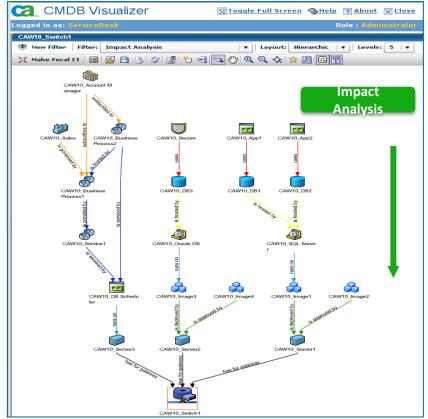


sample service model CA World 2010



viewed from CA CMDB Visualizer



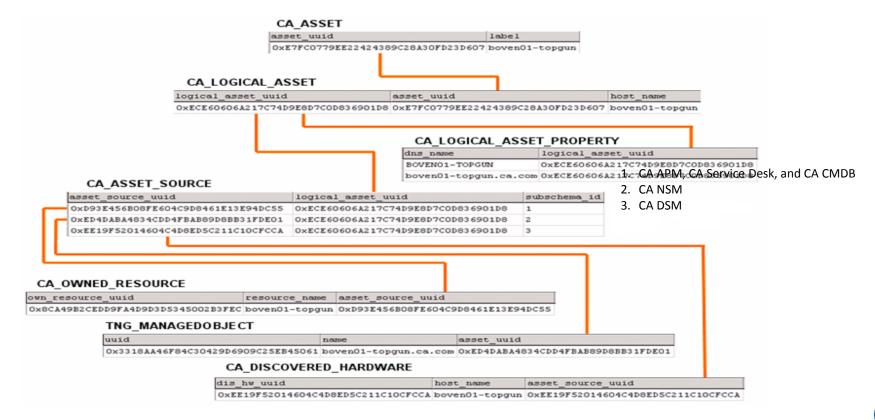




Integrations and Data Population



Master Data Model Table Connections

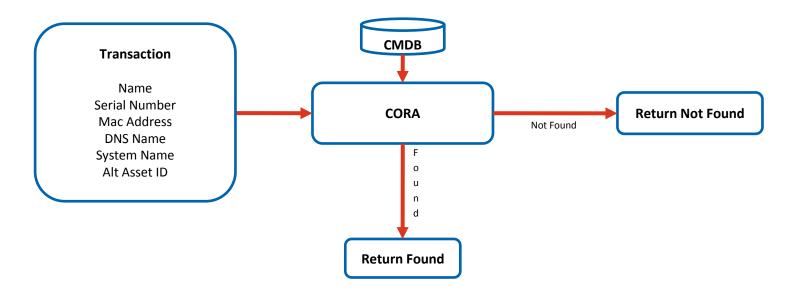




Registration

CORA

- Is the method that the CA CMDB uses to register CIs
- Is shared by multiple applications
- Helps ensure the integrity of information between applications across shared tables
- Is used for new registrations and changes to existing data contained in tables





Identification Methods

- When an asset is registered, CORA generates the asset UUID (ca_asset) by applying a black-box logic to the following six fields:
 - Serial Number
 - Asset Tag (appearing as Alt Asset ID)
 - Host Name
 - Mac Address
 - DNS Name
 - Asset Label (Name)
- When CORA has a UUID for an asset or a legitimate federated asset ID is presented, the six fields become irrelevant.



Identification Methods Continued

The following table shows the results of applying CORA rules.

Serial Number	Asset Tag	Host Name	DNS Name	MAC Address	Asset Label	Results
Unique	Unique	Unique	Unique	Unique	Unique, Duplicate, or Null	New Asset
Unique	Null	Null	Null	Null	Unique, Duplicate, or Null	New Asset
Null	Unique	Null	Null	Null	Unique, Duplicate, or Null	New Asset
Null	Null	Unique	Null	Null	Unique, Duplicate, or Null	New Asset
Null	Null	Null	Unique	Null	Unique, Duplicate, or Null	New Asset
Null	Null	Null	Null	Unique	Unique, Duplicate, or Null	New Asset
Null	Null	Null	Null	Null	Unique	New Asset
Null	Null	Null	Null	Null	Duplicate	Duplicate
Null	Null	Null	Unique	Duplicate	Unique, Duplicate, or Null	Duplicate
Null	Null	Null	Duplicate	Unique	Unique, Duplicate, or Null	Duplicate
Null	Null	Null	Unique	Unique	Unique, Duplicate, or Null	New Asset
Unique	Duplicate	Duplicate	Duplicate	Duplicate	Unique, Duplicate, or Null	New Asset
Duplicate	Unique	Duplicate	Duplicate	Duplicate	Unique, Duplicate, or Null	New Asset
Duplicate	Duplicate	Unique	Duplicate	Duplicate	Unique, Duplicate, or Null	New Asset
Duplicate	Duplicate	Duplicate	Unique	Duplicate	Unique, Duplicate, or Null	Duplicate
Duplicate	Duplicate	Duplicate	Duplicate	Unique	Unique, Duplicate, or Null	Duplicate
Duplicate	Duplicate	Duplicate	Unique	Unique	Unique, Duplicate, or Null	Duplicate
Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Unique, Duplicate, or Null	Duplicate



General Data Population

- In CA CMDB, owned assets are registered through CORA based on how they are submitted:
 - Created manually using the CA Service Desk or CA CMDB web interface
 - Created using GRLoader with the CA CMDB transaction work area (TWA) and federation adapters
 - Shared with CA APM
 - Created and linked to discovered computers using the Discover Assets page on the
 CA CMDB or CA Service Desk web interface



Data Federation

Data Federation

- A commonly accepted definition for data federation is a central master repository with several feeder repositories.
 - For example, one central federating CMDB and several federated data sources that are often referred to as MDRs
- It involves designing all read/write mechanisms and processes to provide accurate and timely reconciliation when required. This is absolutely critical to maintaining the integrity of the CMDB.

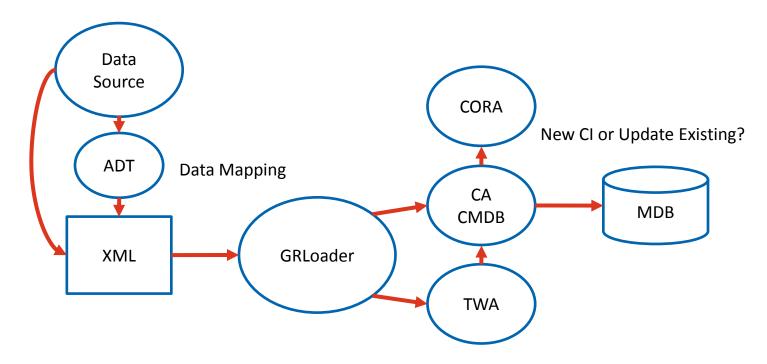
CORA

• To address some data maintenance challenges, several CA products, including CA CMDB, use CORA to register assets in the CA MDB shared by the products to enforce predefined rules for uniqueness and referential integrity.



Data Population - Federation

 The Universal Federation adapters are a set of utilities provided with the CA CMDB to enable a "federation" of data from multiple sources.





Transaction Work Area

- The TWA is used as a holding area for CMDB transactions.
- It can be manipulated using SQL instead of or in addition to XML.

Loading data without the TWA:

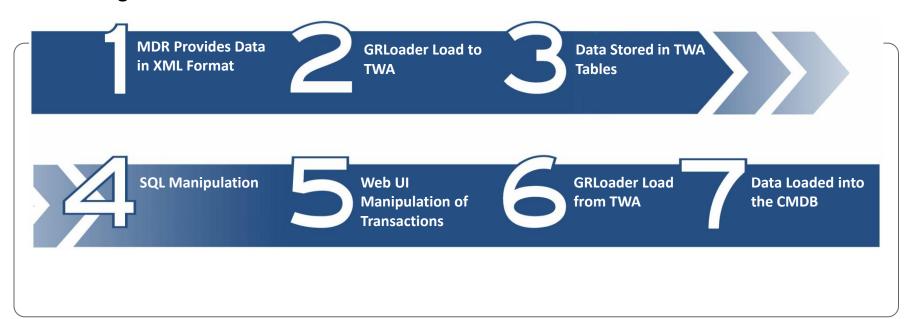
MDR Provides Data in XML Format

GRLoader –i File Name

Data Loaded into the CMDB



Loading data with the TWA:





CMDB Import Options to Control Updates

By knowing what the risks and trade-offs are in a gold standard, you can mitigate them and help ensure that the gold standard is enforced.

Import Method	Description	Benefit
MDB	Direct database update	No control
Web service	Direct Update	Limited control
TWA with GRLoader	Staging area	Provides most control
GRLoader Direct	CA CMDB; Federated adapters	Limited control



Direct Updates are not supported externally and will affect data integrity.



Data Staging to Handle CI Exceptions

By using the TWA, you can:

- ✓ Manage and view individual data sets from multiple sources in a single location before inserting into the CMDB.
- ✓ Consider any potential timing issues relating to updates on any overlapping fields.
- ✓ Merge attributes from multiple sources and create relationships when forming a single CI record.
- ✓ Have a greater depth of knowledge and vision of CIs and critical services.



CA SDM R12.7 CMDB Enhancements:

GRLoader - Newly Supported Input Formats

- GRLoader Additional Input Formats
- To reduce the dependency of CMDB customers on generating XML input, the GRLoader is enhanced to support the below additional input formats.
 - Data import from spreadsheets
 - Data import from csv
 - Data import from JDBC/ODBC compliant database tables



CCA-CMDB integration via Catalyst



CA Configuration Automation

Discovery and dependency mapping

- Discover applications & servers
- Identify dependencies and relationships

Change management

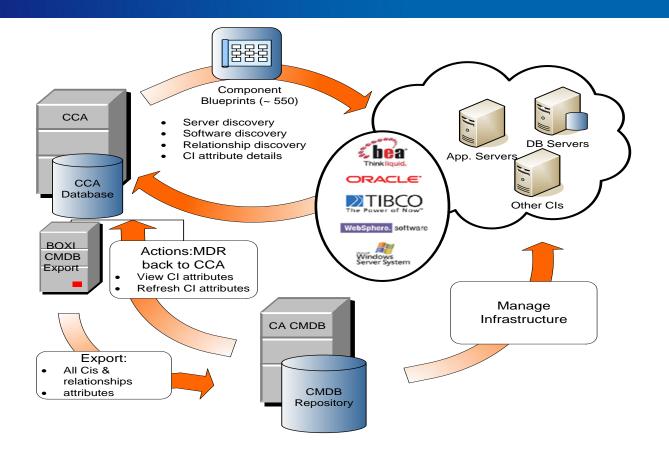
- Detect changes to applications & servers
- Prevent and correct configuration drift

Compliance and auditing

- Help enforce regulatory & security policies
- Application best practice benchmarks



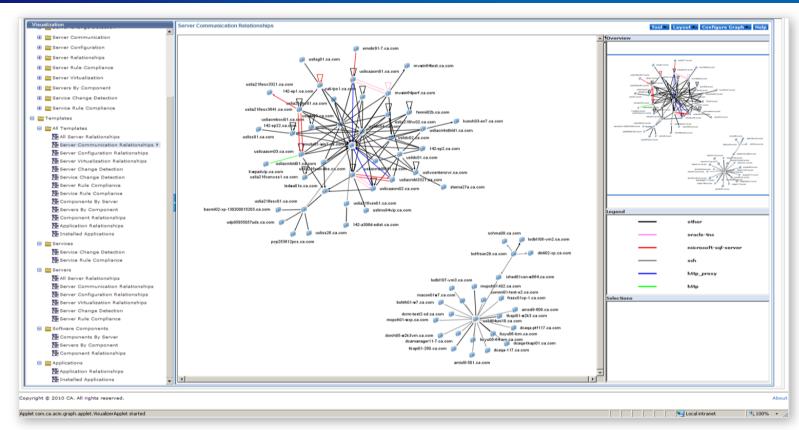
CA CMDB and CA Configuration Automation





CA Configuration Automation

Visualize Application Relationships



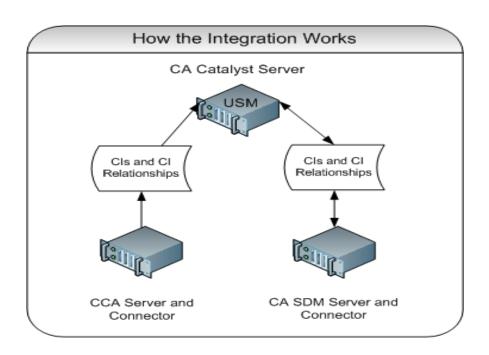


CCA – CMDB integration via Catalyst

- CCA's ability to detect changes from baseline or Gold Standard configurations across applications and servers supports Change and Configuration Management efforts in CMDB.
- Automatically populate and maintain the CMDB with accurate CI attribute and relationship information – "as-is' or "last known state"
- Ability to launch CCA details to view details of discovered CI attributes through the MDR Launcher
- The CCA CMDB integration is aimed at replacing the earlier version of the integration solution between ACM and CMDB by using the Catalyst 3.1 as the integration platform



Overview of functionality



CA Catalyst integrates the CMDB module of CA SDM r12.6 with CA Configuration Automation r12.6.



Overview (SDM Connector) Cont...

- Supports CMDB MDR Launch in Context

CI Versioning

Launch Contributing MDR UI

MDR Based reconciliation

- Supports TWA (Transaction Work Area)
 - Staging area for unapproved changes
 - Keeps CMDB changes under control
 - Helps change verification process



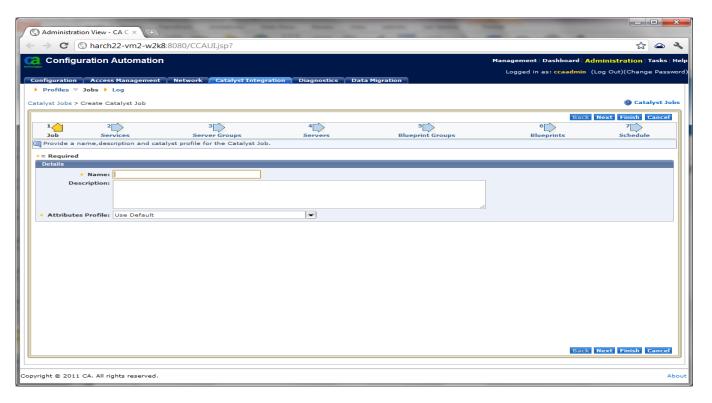
Overview (CCA Connector)

- CCA has developed a new connector based on Catalyst 3.1 which provides the data available from CCA using the USM data model
- The CCA connector pulls the data from CCA using a core DB API layer of CCA which is then transformed into USM objects by the catalyst framework using a policy file that defines the mapping and transformations from CCA attributes, classes to USM
- The CCA connector is a outbound connector which just provides the data for others to consume



Catalyst Integration tab within CCA – Catalyst job

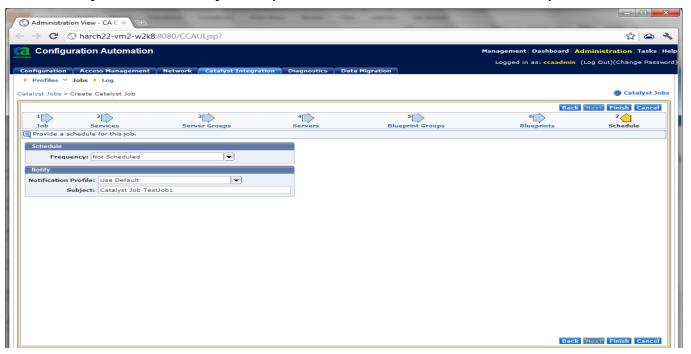
Catalyst Job wizard to create Catalyst CMDB integration job





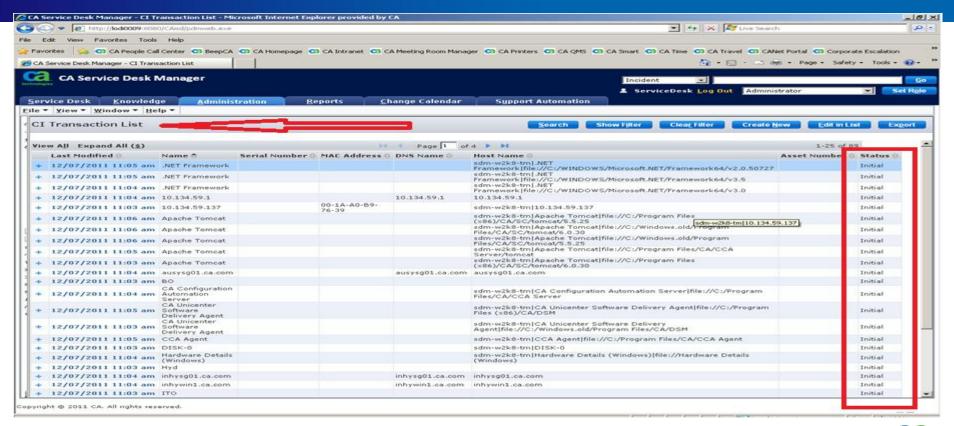
Catalyst Integration tab within CCA – Catalyst job

Finally you can choose to schedule the job and select the notification profile and save the job. You
can schedule the job or run the job to push the data from CCA to catalyst connector



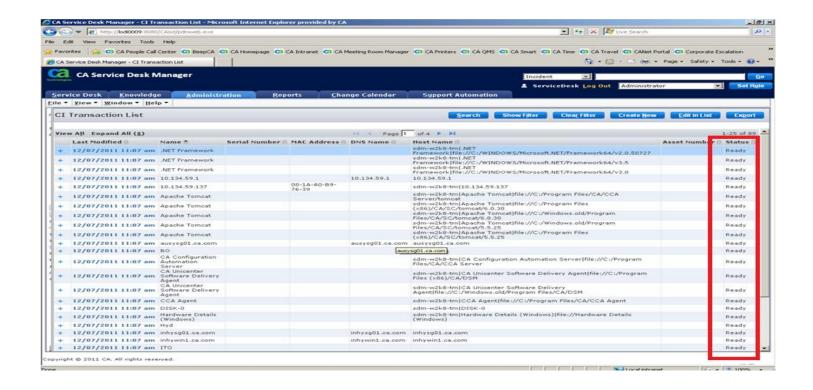


CI's in SDM TWA In Initial status





Move Cl's to Ready state in SDM TWA



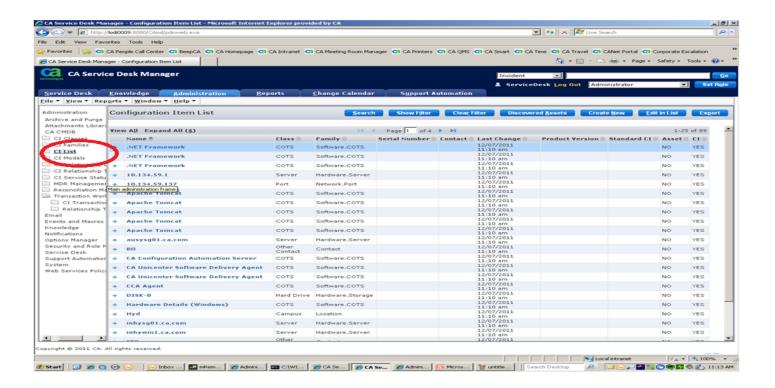


Execute GRLoader to Load CI to SDM

```
COMMand Prompt
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\Administrator>GRLoader.exe -s http://localhost:8080 -u
ServiceDesk -p ServiceDesk -lftwa -a -n
11:10:21.500 Cl and Relationship Loader for CA Service Desk Manager R12.6.000
No Relation transactions were ready for loading from the TWA
Results:
                          Skipped
                                      I serts
                                                 Updates
                                                                        Warnings
                  Read
                                                               Errors
                    89
                                 Ø
                                            89
ผ
                                                         Ø
                                                                                 10
                                 й
                                                         ŏ
                                                                     ŏ
Relation
                     Ø
GRLoader completed with warnings.
11:12:27.937 GRLoader ended
C:\Documents and Settings\Administrator>_
```



After Loading Data into CMDB

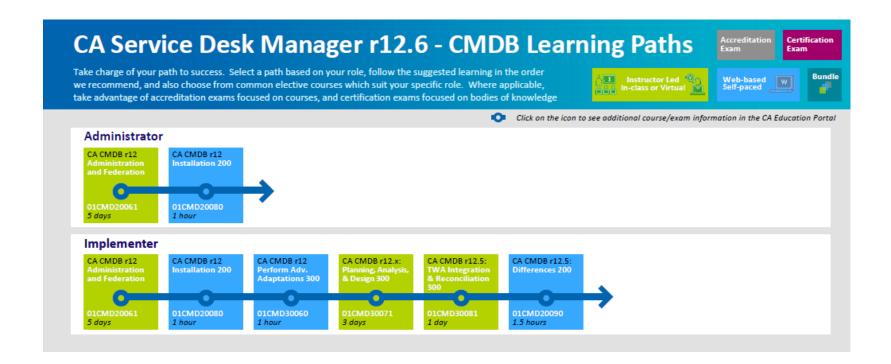




Education, webinars, ...



CMDB learning paths





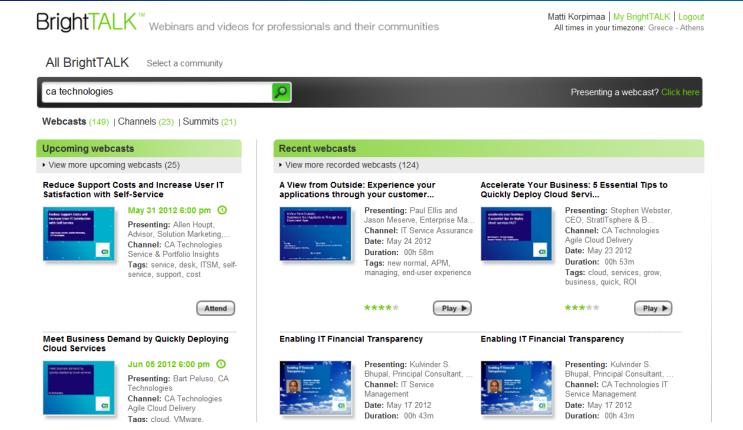
CA Education – Configuration Management

- CA CMDB r12.x: Planning, Analysis and Design 300
- CA CMDB r12.5: TWA Integration and Reconciliation 300



Brighttalk.com

CA channel





questions

matti.korpimaa@ca.com

