

ServiceNow CMDB Care & Feeding

Ongoing CMDB Maintenance: Feed It, Fix It, Love It

Chris Padmore & Christine Morris | January 29, 2025



Agenda

Welcome & Introduction

- 1. Key Strategies for a Healthy CMDB
- 2. Best Practices for Ongoing Maintenance
- 3. Case Study: Success in CMDB Maintenance
- 4. Q&A





Cask NX is with clients for what comes next – on the platform and in their business.





servicen

Validated Practice

Vulnerability

Response

servicen

Validated Practice

Integrated Risk

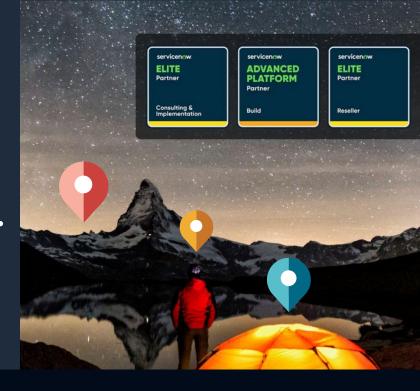
Management

servicenow

Hybrid

Validated Practice

Project Mgmt





8 VALIDATED PRACTICES (Most of any Pure-Play Partner in AMS)



+3 PRODUCT LINE ACHIEVEMENTS

Cask NX is the only pure play ServiceNow partner with dedicated, fully certified practices across the platform.



IT SERVICE



IT OPERATIONS MANAGEMENT





STRATEGIC PORTFOLIO MANAGEMENT



EMPLOYEE WORKFLOW



CUSTOMER WORKFLOW



SECURITY & RISK





STRATEGY

TRANSFORMATION

IMPLEMENTATION & APP DEVELOPMENT

Product Implementation

Platform Engineering

Data Management & Integrations

App Development

OPERATIONS & ENHANCEMENT

Continuous Cloud Innovation

Platform Architecture & Engineering

Functional Process Execution

Cask Reserve

Strategic Roadmapping App Modernization

Advisory Consulting

Platform Strategy & Governance

Demand Management

UX & UI Design

Product Management

Org Change Management

Testing & Quality Engineering

Program & Project Management

Agile Transformation w/SAFe



Introductions



Christine Morris
Director, Platform & Service
Management
Cask



Chris Padmore Solutions Architect, ITOM Practice Lead Cask



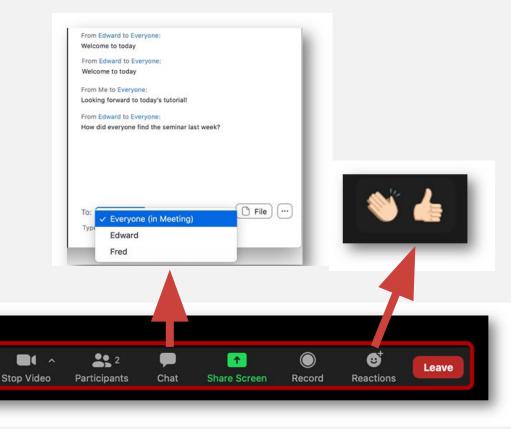
Madan Raja Director, Delivery Cask



Join the Conversation: Using Zoom

Turn on Video – Let's get interactive and enjoy ourselves

Unmute – Click the microphone icon to unmute and participate Chat – Message everyone or just one person Get Help – Use Chat





Catch Up with Parts 1-5 of our CMDB MasterClass Series!



CMDB MASTERCLASS: PART 1

Unlock the Power of Your Platform with a Strong CMDB Foundation

Join us to understand why a wellstructured, well-governed CMDB is essential for leveraging the full potential of your platform and how you can create, remediate and maintain your own CMDB as a source of trusted data.



CMDB MASTERCLASS: PART 2

Maximize Your Platform's Potential with Effective CMDB Data Loading and IRE Strategies

Join us to explore why efficient data loading and the Identification and Reconciliation Engine (IRE) are crucial for harnessing the full capabilities of your platform.



CMDB MASTERCLASS: PART 3

Aligning Your CMDB to the CSDM Framework to Support Your Portfolio of IT Services

Join us for part 3 of our CMDB
MasterClass Series, an insightful webinar
where we will introduce the Common
Service Data Model (CSDM) and
demonstrate its crucial role in managing
IT services more effectively.



CMDB MASTERCLASS: PART 4

Maximize Your IT Potential: Discovery Meets CMDB

In this electrifying webinar, we'll take you through the ins and outs of ServiceNow Discovery, revealing how it works like a backstage crew—quietly, but masterfully—bringing the power of the platform into full view.



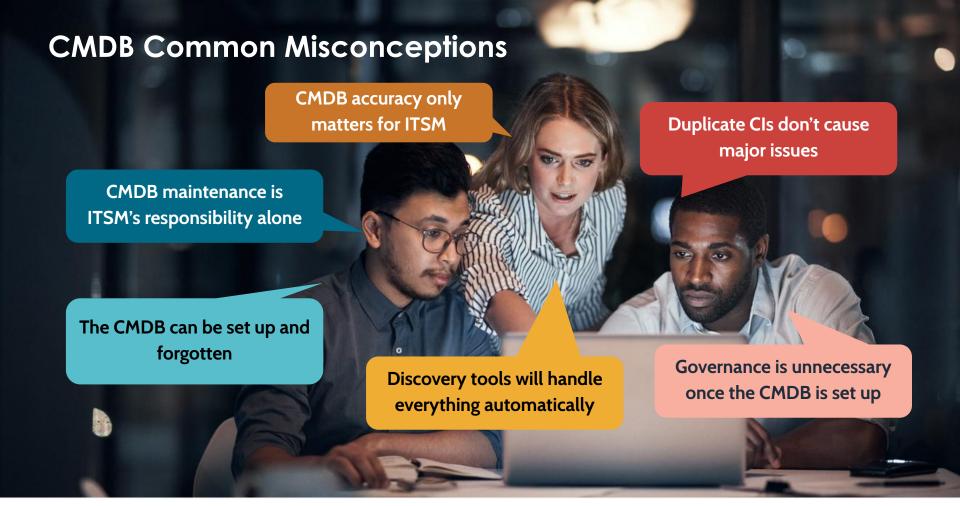
CMDB MASTERCLASS: PART 5

A Strategic Approach to Visibility and Value

Join us to discover how integrating Asset Management with ServiceNow CMDB can create a unified source of truth, drive cost savings, enhance compliance, and transform your asset lifecycle management.

Find recordings, resources & more here! https://casknx.com/cmdb-masterclass-intro/





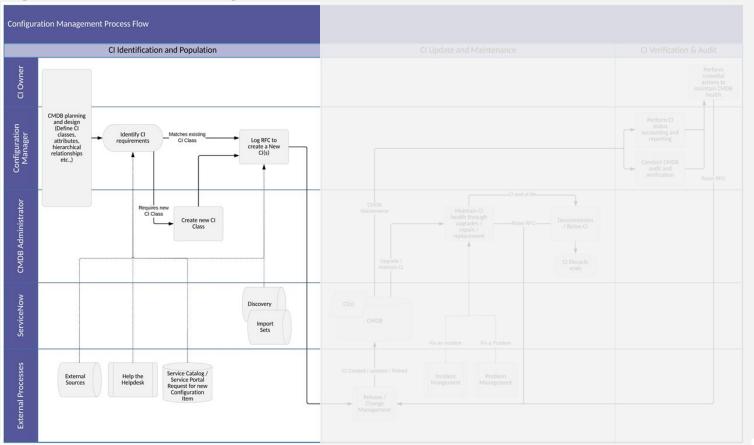




Key Strategies for a Healthy CMDB

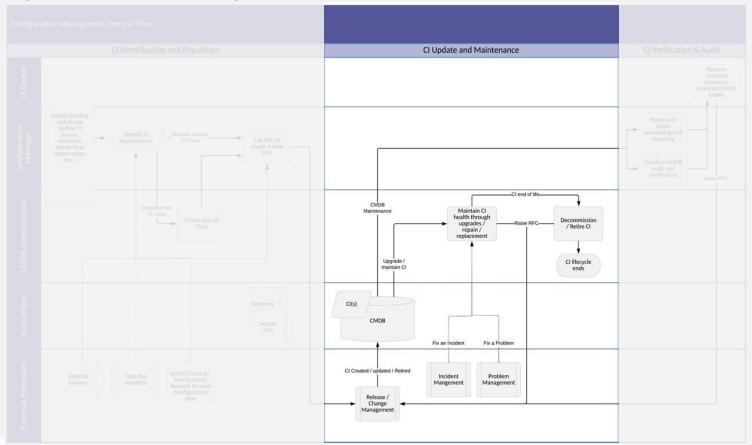


Configuration Management Process



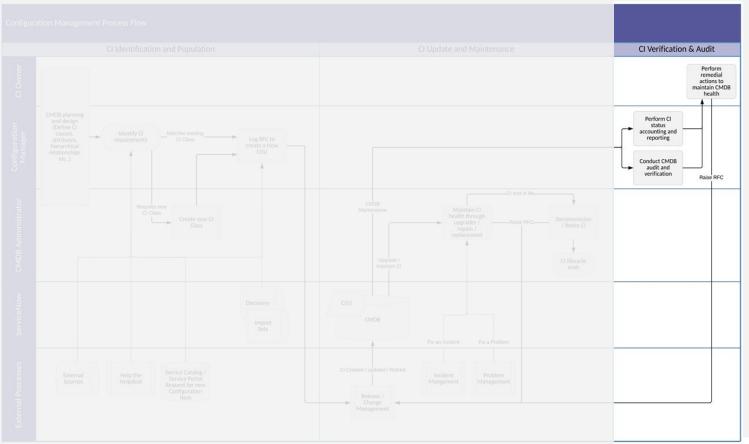


Configuration Management Process





Configuration Management Process





Configuration Management Organization



CM Process Sponsor

- Establishes CSFs
- Provides budget
- Promotes adoption



Configuration Manager

- Responsible for operational management of CM
- Health / Integrity of CMDB
- Policy / process definition
- Identification of metrics & KPIs
- Oversight of Configuration Analysts
- Interface with Change and other ITSM managers



Configuration Analyst / Librarian

- Custodian of Cis and related data
- Identification / remediation of unauthorized CI creation / update
- Performing authorized updates per policy / process
- Generation of custom reports
- Assist in audits
- Liaison with Application Process trams, Admin for Service mapping



Tools Admin

- Owns systems interfaces
- Responsible for configuration updates



Stakeholders





- Stewards of owned hardware and software
- Accountable for integrity of CI attributes and relationships for owned Cis
- Perform routine audits as required



IT Security

- Identifies security classifications for Cis
- Provides CMDB requirements to support policy and processes
- Consumes CMDB data
- Provides lifecycle management process requirements
- Reviews / approves new product requests



IT Architecture

- Maintains architecture policy

 compatibility, product
 lifecycle
- Reviews / approves new product requests



Release & Deployment

- Tests application configuration prior to release
- Provides new CI- classes and attributes
- Provides details on how to detect Cis and capture attribute updates



Stakeholders





- Provide CMDB requirements
- Ensure all RfC's include affected CI
- Ensure Assess phase identifies CI attributes / Asset fields that will change
- Ensure identified attributes and fields are updated during post implementation review



Change CABS

- Consume CMDB data for RfCs
- Provide CMDB improvement requirements



Service Desk

- Relies on current accurate CMDB
- Ensures Service tickets include affected CI(s)
- Provide CMDB improvement requirements



Service Technicians

- Rely on instant visibility into CMDB
- Provide CI attribute & Asset field updates before closing fulfillment tasks



Three Pillars of Governance

Data Compliance

- Complete
- Correct
- Current
- Free from duplicates and orphans
- Cl records
- CI Relationships
- Linkage with Asset

Process Compliance

- All CI changes subject to Change Control
- All CIs routinely examined by CI
 Owner for correctness, especially of non-discoverable attributes
- Holistic Asset / CI Lifecycle
 Management (ALM) processes
 trigger Change Control which in
 turn provides authorized updates

Proactive Oversight

- Configuration Management team routine activities ensure CMDB is monitored and remediated as necessary via Change Control
- Configuration Control Board (CCB) meets regularly to review CMDB Health and recommend improvements





Best Practices for Ongoing Maintenance



Routine CMDB Routine Maintenance Activities

Performed Daily, Weekly by the Configuration Management Team

Monitor the CMDB Health Dashboard

- Research and resolve anomalies via Change Control
 - Remove orphans
 - De-duplicate to consolidate duplicate records

Monitor the Discovery Dashboards

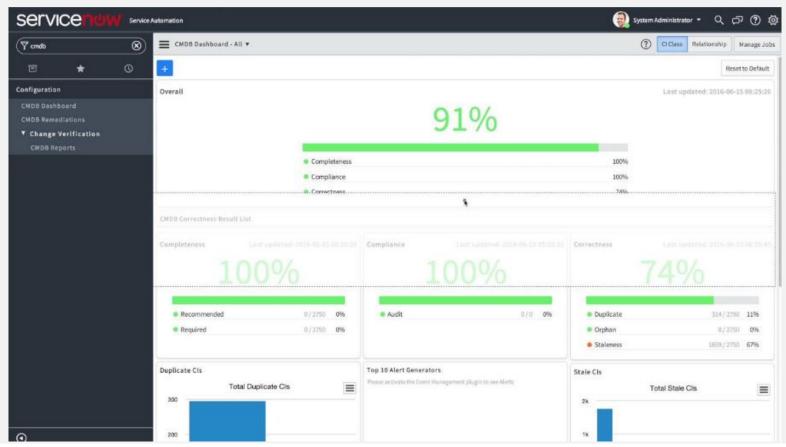
- Research and resolve anomalies
 - IP ranges not getting discovered
 - Device types not getting discovered
 - IRE not populating CMDB as expected

Monitor Data Certification process

- Identify CI owners (by class) responsible for the data in their CIs
 - Stay on top of new CI classes
- Identify CI attributes subject to certification
- Define CI Certification schedules
- Monitor resolution of anomalies



CMDB Health Dashboard - Overview







Compliance HEALTH DASHBOARD ATTRIBUTES

- Based on the results of actual CMDB audit runs.
- Audit compares actual values of specified fields, against expected values defined in template and scripted audits.
- Based on the Last run date of audits, CMDB Health identifies the set of the most recent complete audit run, and uses those audit results.
- To pass the CMDB Health audit test, a CI must be in compliance with all audits for that CI.
- Create a compliance-type audit, for which the results are calculated into the CMDB Health compliance KPI.
- When running scripted audits, the Last run date is not populated. Therefore, for the compliance KPI to include the results of a scripted audit, <u>update the script</u> in the audit to record the audit run time.





Completeness HEALTH DASHBOARD ATTRIBUTES

A KPI which is an aggregation of the following metrics, according to the completeness scorecard weight settings.

Required

Measures the percentage of CIs in which fields that are defined as mandatory, are not populated. Missing fields are tagged as incomplete noting that for this CI some information is missing. Required fields are equivalent to the fields that are <u>specified as mandatory</u> in the system dictionary.

Recommended

Measures the percentage of CIs in which fields that are set as recommended, are not populated. Out-of-box, no recommended fields are specified.





Correctness
HEALTH DASHBOARD ATTRIBUTES

A KPI which is an aggregation of the following metrics, according to the correctness scorecard weight settings.

Orphan

Measures the percentage of orphan CIs in the CMDB. A CI can become orphan if it was unintentionally left in the CMDB when it is no longer needed.

Staleness

Measures the percentage of stale CIs in the CMDB. A CI is stale if it was not updated within the **Effective Duration** time period that is specified in the <u>staleness</u>

<u>rule</u> that applies to the class.

Duplicate

Measures the percentage of duplicate CIs in the CMDB using <u>identification rules</u>. Only independent CIs are evaluated for duplication. In a set of duplicate CIs, the count of duplicate CIs is the total number of CIs in the set, minus one. The detailed graphs for a duplicate set of CIs display all the CIs in the set.



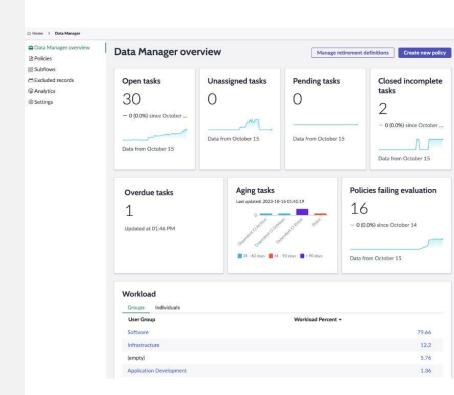


...a policy-driven framework for bulk management of CI life cycle operations such as deletion and archival. The CMDB Data Manager is a comprehensive and integrated solution which scales to large CMDBs and copes with rapid changes in a cloud-based world.



Data Manager in the CMDB Workspace

- Create and track policies, and to manage exclusion lists and retirement definitions
- Access data attestation and life cycle approval tasks such as reassignment requests and unassigned overdue tasks
- Access all open tasks, which are assigned to you, or to the group assigned in the Managed by Group attribute and which you're a member of
- Review and process attestation tasks by checking the physical existence of IT infrastructure or applications
- Review publish, draft, deactivated and policies failing evaluation





Archive vs Deletion vs Retire

Stale CIs – Check why they are stale. Is this a Discovery or ingestion failure? Are they managed manually?

Deletion of CIs can cause issues with Incident, Problems and Changes that are associated with the CI. The ITSM record will no longer have a CI related.

Archiving may be an option for Retired Assets when enough time has passed

When Stale CIs are no longer viable – Retire, this will set the Lifecycle Stage field to "End of Life"

Is there a high number of
Duplicates that are not tied to
ITSM Records? Using the
de-duplication tool will resolve
and merge the data into one CI.
In some cases, this process may
not be sufficient.

Is the CI in a dependent CI
Class? Some CIs need to have a
prescribed relationship to exist
meaningfully in the CMDB. If so,
and it has been orphaned, this
could be deleted through the
"Dependent CI Deletion Policy"



Verify the existence of actual IT infrastructure and applications that you own, systematically and in bulk

• Create a policy specifying CIs that need to be attested and the attestation frequency

Assign Attestation tasks to users that are familiar with or that manage the CIs, and who can attest or reject the IT infrastructure or applications that those CIs represent

Remove any stale CIs that are associated with IT infrastructure or applications that no longer exists



AUDIT **Attestation**

More information

Users can see their assigned attestation tasks in the Governance view when they log in to the <u>CMDB Workspace</u>.

In CMDB Workspace, users can then <u>review</u> and <u>process attestation tasks</u>.



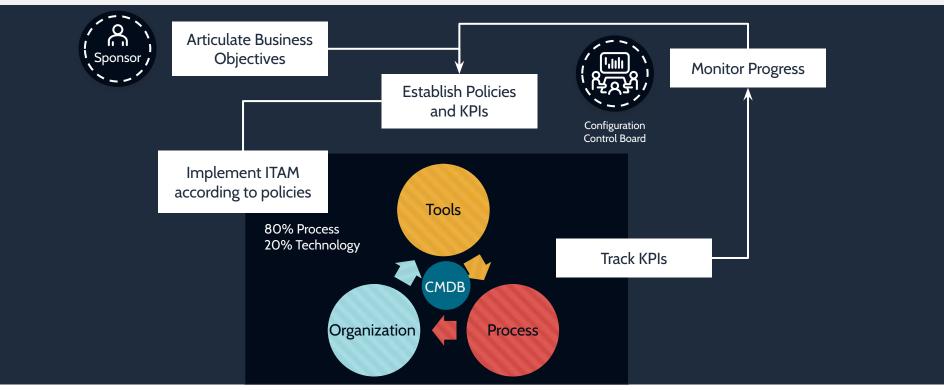


...manages scheduled and on-demand validations of the configuration management database (CMDB) data.



Configuration Control Board (CCB)

Organizing ITAM / SAM Leadership for CMDB Governance





Establishing Governance

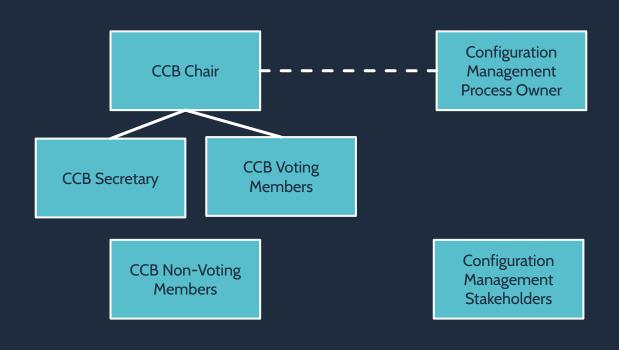
The Governance Charter

Membership **CCB** meetings **Purpose** Scope Leadership of Stakeholder · Requirements input · Data & process policy and Monthly at first, quarterly once organizations - IT Service steady state reached logistics approval Policy adherence Management, Change Implementation of policy · Pre-meeting notice and Management · Inter-organizational driven practices within owned invitation to submit agenda communication and issue Non-voting: IT Finance, IT organization - Champion of items resolution Procurement Organizational Change Review progress – successes, Benefits and Success stories IT Security – Elect: Chair, Data and Process policy gaps promotion Secretary compliance monitoring and Entertain recommendations enforcement for improvement – vote to Recommendations for approve or decline program improvement Publish minutes and approved recommendations for implementation



Configuration Control Board

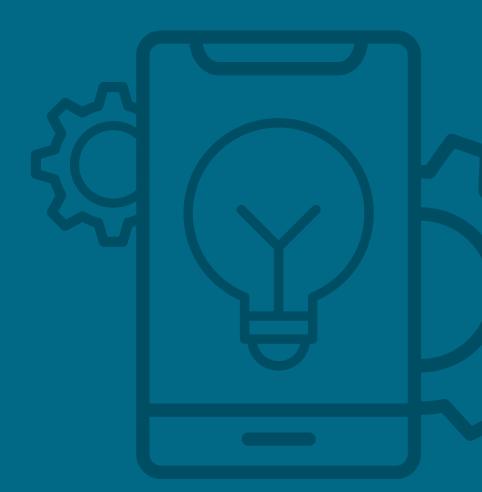
Roles and Responsibilities



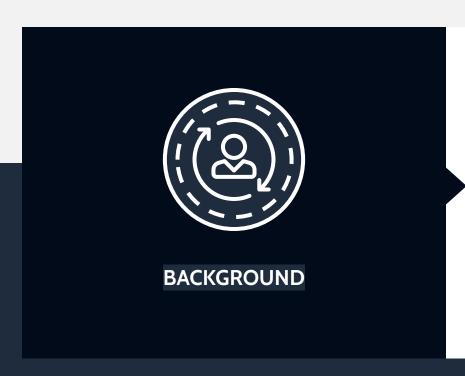




Case Studies in CMDB Maintenance



Use Case | Day 2 CMDB



- Customer has been running discovery for over a year
- Discovery has not been reviewed since initial setup
- Health Dashboard is Green across
 Compliance, Correctness and Completeness
- Change Management and Incident
 Management has not experienced reduced incidents caused by Change requests



Use Case | Day 2 CMDB



- No dedicated CMDB team
- Platform admin was managing CMDB, but as other modules were added their priorities shifted
- Discovery errors had been steadily increasing

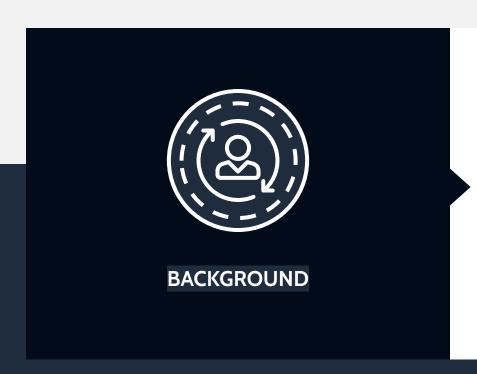


Remediation Efforts

- Reviewed and reworked discovery schedules
- Worked with SMEs to update credentials for undiscovered devices
- Migrated from Probes and Sensors to patterns
- Updated platform with latest Discovery patterns
- Enabled Cloud Discover
- Recommended hiring two FTEs to build out their Configuration Management Team
 - Process Owner / CMDB Admin
 - Discovery Admin/CMDB Analyst



Use Case | Process Adjustments



- Customer performed CMDB remediation focused on data quality
- Change management is still reporting issues with CMDB data
- Audits, Certifications and KPIs are reporting 98% compliance



Use Case | Process Adjustments



- Other teams and processes had developed their own tools to consume CMDB data
- They were using spreadsheets and sharepoint to handle data lookups and impact analysis

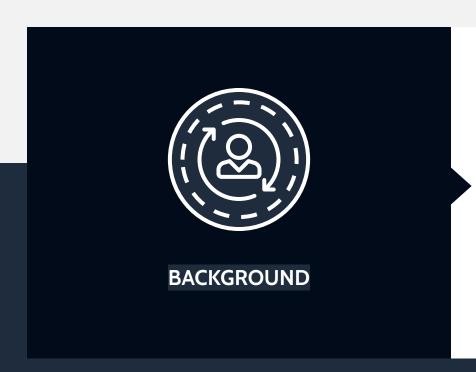


Remediation Efforts

- Provided guidance to leverage CSDM model within Change and Incident
- Re-educated stakeholders around CMDB best practices
- Enabled out of the box reports, change impact analysis and dependency views



Use Case Oversized CMDB



- Customer had many starts and stops with their CMDB
- Tried using 3rd party tools, but finally settled on Discovery
- Although getting consistent results, end users are complaining about slowness when search for configuration items and generating reports



Use Case Oversized CMDB



- CMDB contained over 20 million records
- Only 2 million were considered necessary records



Remediation Efforts

- Because Discovery was running effectively, decision was made to purge entire CMDB
- All manually maintained records were exported
- All CMDB records were removed with table cleaner
- Imported manual records and re-ran frequent discovery over a two week period





Summary



Getting Started Is Easy!

Cask meets you where your CMDB is today

Need a quick CMDB assessment and rapid remediation?



Need help managing your CMDB on an ongoing basis?



Need to get your CMDB ready to support asset management?



SAM-READY CMDB

Need to implement CMDB and see value fast?



Tell us what CMDB topics you want to learn more about!



Look for a survey following this session!





Questions?





Thank you!

Questions?

Email: Madan Raja, madan.raja@caskinc.com

