



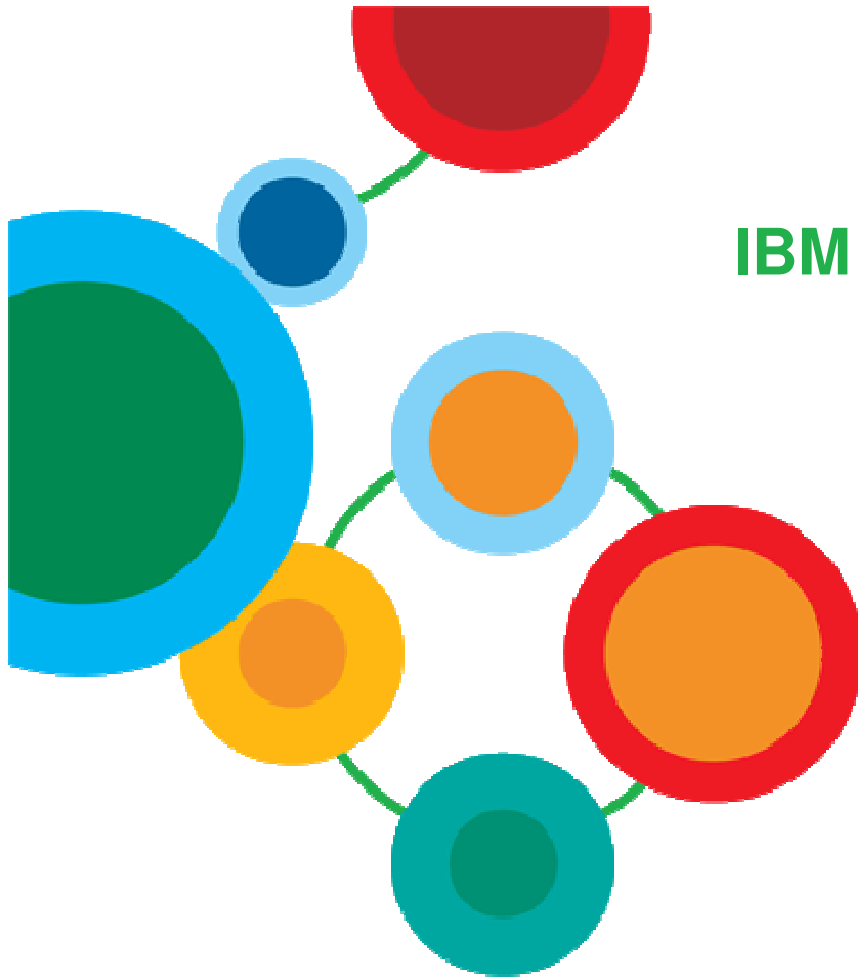
IBM Cognos 10 Migration & Upgrade for the U.S. Marine Corps

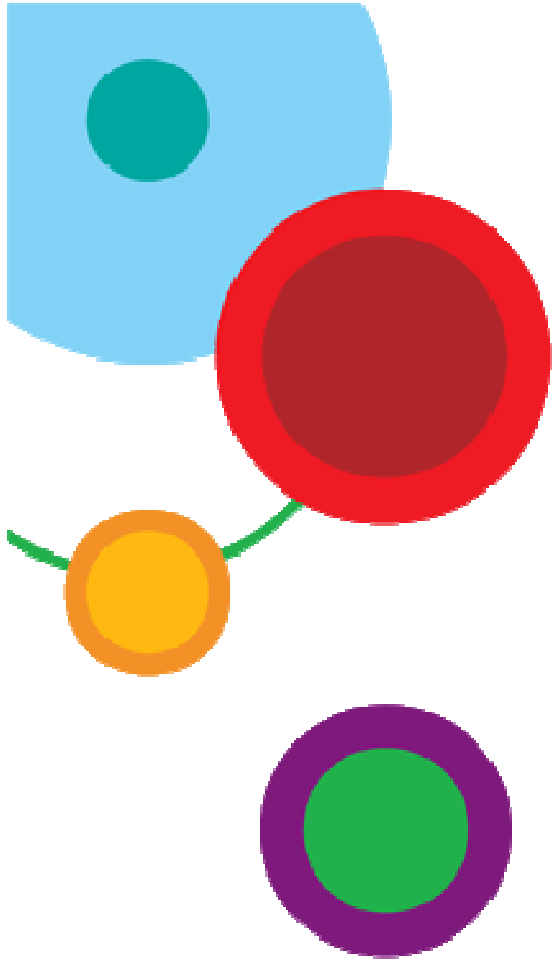
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IBM Software

Information On Demand 2011





Agenda

- SAIC Company Background
- US Marine Corps Total Force System
- Upgrade Requirement
- Upgrade Approach
- Technical Approach
- Outcome

- Science Applications International Corporation (SAIC) is a FORTUNE 500[®] scientific, engineering and technology applications company headquartered in McLean, VA
- Works extensively with
 - US Department of Defense
 - US Department of Homeland Security
 - US Intelligence Community, including the National Security Agency
 - other US Government civil agencies and selected commercial markets
- SAIC was founded in 1969 in La Jolla, CA
- SAIC employed approximately 43,000 employees in 150 cities worldwide and reported \$11.1 billion in revenue for its most recent fiscal year





US Marine Corps Total Force System

- Single, integrated, personnel and pay system supporting both 'Active Duty' and 'Reserve' components of the Marine Corps
- Jointly sponsored/owned by the Marine Corps and the Defense Finance and Accounting Service (DFAS)
- Provides integrated personnel and pay functionality within a single system and personnel management for retirees
- IBM hardware & software widely leveraged (including Cognos)





Total Force Data Warehouse (TFDW)

- Subset of the Total Force System
 - The TFDW application houses more than 30 years of manpower data in a single repository providing users a comprehensive view of a Marine's career via time-series analysis & ancillary reporting capabilities.
- SAIC was supporting the US Marine Corp TFDW using a combination of Series 7 BI and Cognos 8.2
- Due to a contractual requirement with an aggressive deadline, SAIC engaged IBM to lead the technical aspects of the upgrade / migration project.
- Successful upgrade was deemed critical by SAIC Executives
 - key differentiator in contract renewal discussions

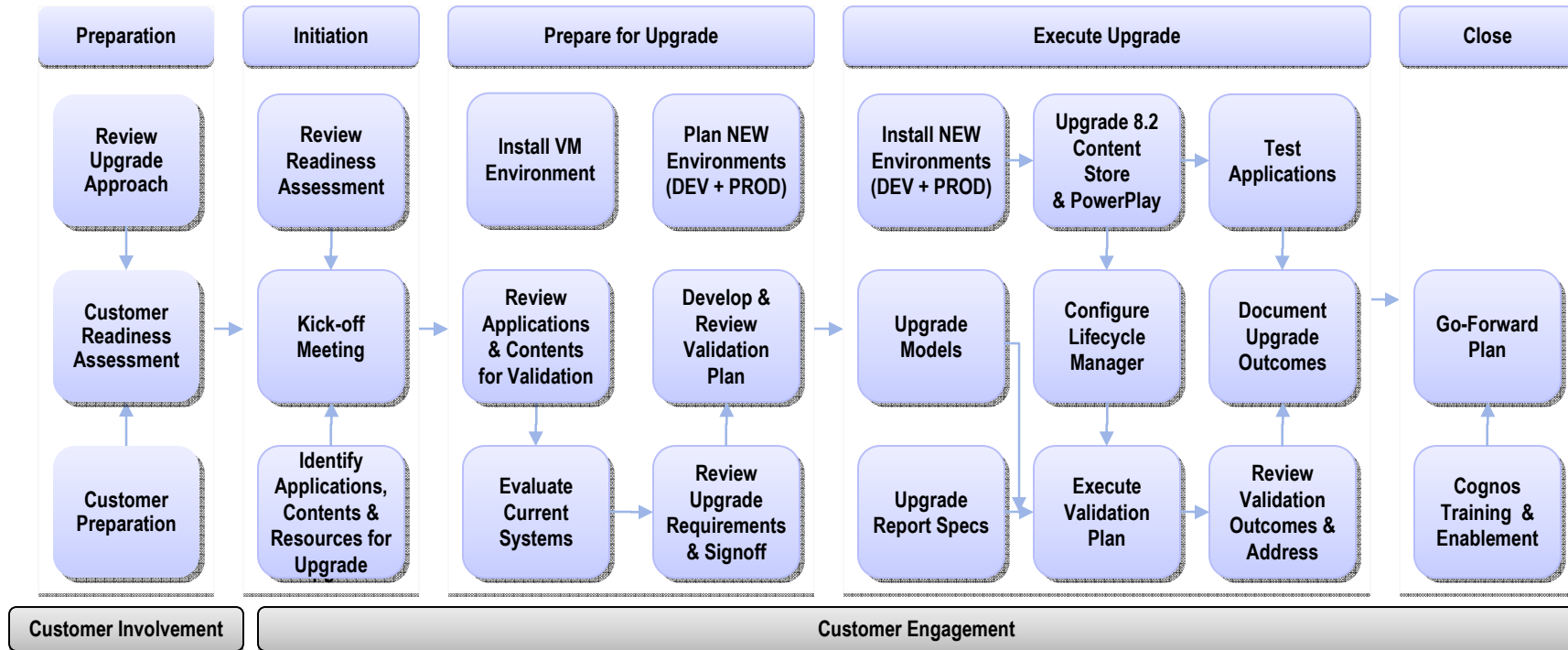


Constraints

- No new hardware
- Specific contractual deadline for go-live
- Firewall needed to remain unchanged
 - only certain ports were open
 - no additional ports
- Existing DEV & PROD environments
- SAIC needed to own the upgrade process and the post-upgrade “BAU” tasks



Our Approach





Technical Approach

- Upgrade and Migration
 - Upgrade: Cognos 8.2 → Cognos 10
 - Migration: Series 7 PowerPlay → Cognos PowerPlay Studio
- “Lift & Shift”
 - Limited number of PowerCubes
 - Two packages
- Create VM sandbox environment with new version
- Freeze new development & any production changes
- Export PROD Content Store and import into VM
- Copy Transformer MDLs from PROD to VM
- Use migration tools to migrate PROD Upfront content (including PowerPlay saved reports) to VM for unit testing
- All testing & any remediation would take place in VM
- Once fully tested & validated with sign-off, the VM content store would become the DEV and PROD content store in the new environment





PowerPlay Considerations

- No secured PowerCubes
- No automation of cube builds
- Series 7 .MDL files → opens in Transformer v10
- Series 7 IQD Bridge
 - The Series 7 IQD Bridge component enables Transformer v10 to continue supporting IBM Cognos Series 7 .iqd files
 - IBM Cognos Impromptu
 - externalized via Framework Manager
 - Requires installation on Transformer server
- Series 7 IQD Bridge – Technical
 - Installed into "CS7Gateways" under the Cognos install directory
 - Database signons must be entered into "CS7Gateways\bin\cs7g.ini" for IQDs to work



More Technical Considerations

PowerPlay

- PPR → PPX
 - A small portion of (key) users had local PowerPlay reports (ppr) which they wanted migrated to IBM Cognos 10
 - IBM Cognos PowerPlay v10 does not open reports in ppr format
 - We opened up the PPRs and saved them as a PPX (then migrated to C10)
 - For larger volume, you can use **ppr2ppx.mac**
- **Product Installations**
 - Migration Tools (for Series 7)
 - Existing hardware for 8.2 and 10
 - Default port numbers – therefore v8 and v10 cannot run concurrently since dispatcher uses the same port {firewall}



Cleanup Series 7

- PowerPlay Enterprise Server
 - Identify broken references to PowerPlay Reports that might cause deployment to have errors
 - Invoke the PPES dispatcher at a command-line, passing it the "-ppx" parameter, and redirect the output to a log file
 - `ppserver -ppx > %TEMP%\PPXerrors.txt`
- Upfront
 - Only migrate valid Personal NewsBoxes to Cognos Connection
 - When a user is deleted from the Series 7 Namespace using Access Manager, any Series 7 content owned by that User is orphaned.
 - The Personal NewsBox in Upfront remains but is accessible only by a NewsIndex Administrator.
- Access Manager
 - Detect namespace corruption in Access Manager
 - `\cer5\bin folder\`
 - `AM_NamespaceCorruptionDetect -t <type> -f <LAE filename> -h <host> -p <port> -s -r <baseDN> -n <namespace> -D <username> -w <password>`



Go-Live // Results

- PROD had been installed several weeks before go-live
- Cutover scheduled over holiday weekend
- All Upfront Personal News Boxes migrated to 'My Folders' – zero defects
- All cubes & PowerPlay reports migrated – zero defects
- All packages & Cognos 8 reports upgraded – zero defects
- Training on new system was conducted via recorded web session (30 minutes)



Summary

- Shared ownership & accountability for deployment by IBM & SAIC
- Implemented upgrade & migration on time and within budget
 - Planning
 - Involvement
 - Engagement
- resulting in a leveraged position of strength for SAIC in contract negotiation with the US Government
- and a renewed partnership with IBM Software Services
- *"Our project team was tasked to upgrade our Cognos software in a complex DoD environment in a short period of time and we reached out to IBM for support. The IBM team was professional, efficient, and highly skilled in their tasks. They possessed an exceptionally deep understanding of the intricacies of the software and were able to tailor the upgrade installation to the needs of our system and enhance our performance at the same time. When unexpected obstacles arose, the onsite IBM team was able to reach back through the larger network within IBM to find solutions. Our upgrade finished on time and under budget ..." - SAIC Executive Project Manager*





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