CM Trends 2011

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Bob Aiello, CM CrossRoads
Emerging Trends in Software CM

Biography

Bob Aiello is a consultant, editor-in-chief for CM Crossroads, and the author of Configuration Management Best Practices: Practical Methods that Work in the Real World, Addison-Wesley Professional (http://cmbestpractices.com). Mr. Aiello has more than twenty-five years' experience as a technical manager in several top NYC financial services firms where he had company-wide responsibility for CM, often providing hands-on technical support for enterprise source code management tools, SOX/Cobit compliance, build engineering, continuous integration, and automated application deployment. Bob has served as the vice chair of the IEEE 828 Standards working group (CM Planning) and is a member of the IEEE Software and Systems Engineering Standards Committee (S2ESC) management board. Mr. Aiello holds a Masters in industrial psychology from NYU and a B.S. in computer science and math from Hofstra University. You may contact Mr. Aiello at bob.aiello@ieee.org, link with him athttp://www.linkedin.com/in/bobaiello, or visit his corporate website http://yellowspiderinc.com.

Abstract

Bob Aiello discusses software configuration management emerging trends and the demands they place upon each one of us working in the CM field.

Scott Altman, ASRC Research & Technology Solutions
Reaching for the Stars: How CM Makes it Happen

Biography

Scott Altman was the pilot on STS-90 (1998) and STS-106 (2000), and the mission commander on STS-109 (2002) and STS-125 (2009). Following two years as Shuttle Branch Chief for the Astronaut Office and lead for the Cockpit Avionics Upgrade, he was assigned on temporary duty to NASA Headquarters as Deputy Director, Requirements Division of the Exploration Systems Mission Directorate. On returning to Houston, and following STS-125, he served as the Chief of the Exploration Branch of the Astronaut Office. Altman has logged a total of over 51 days in space. Altman retired from NASA in September 2010 to join ASRC Research and Technology Solutions.

Abstract

Scott Altman, CDR of STS 125 and the final Hubble Servicing Mission, led a team of astronauts, scientists, engineers and staff located across the country in preparing and executing one of the most challenging space missions ever attempted. Beginning with numerous challenges to repair strategies, timelines and stowage and culminating with on orbit contingencies, configuration management and attention to detail were the cornerstones that the success of the entire mission was built on. Scott will talk about how exceptional preparation and real time support from a wide network of agencies was all coordinated to culminate in the deployment of the Hubble Space Telescope, fully refurbished and repaired and at the peak of its scientific potential.

Tomris Briggs, NATO
Configuration Management within NATO

Biography

Mrs. Briggs has 35 years of experience in Information Technology which includes extensive involvement in CM, DM, structured analysis, database design, software engineering, user interface, data storage and facets of implementation. For the last eleven years, she leads the Configuration Management Team of NATO Air Command and Control Management Agency (NACMA). Her previous 24 years of IT experience has included 15 years as the Configuration Manager in the NATO Military environment (SHAPE). Mrs. Briggs is a graduate of American Collegiate Institute and completed studies in Computer Sciences and Business Management and presently serves NACMA as the Chief, CM Branch and chairs the NACMA and Joint CCBs.

Abstract

The briefing will talk about the evolution of CM within the complex environment of NATO from a NACMA perspective and based on the ACCS CM experience, activities and the plans to achieve a common understanding of CM within the Command and Control Systems of NATO.

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Steve Easterbrook, CMPIC, LLC

Biography

Steve is President of the Configuration Management Process Improvement Center (CMPIC). Steve is also a former President of the Association of Configuration and Data Management (ACDM) and is currently on ACDM's Board of Governors. Steve has been working in configuration management for over 28 years. He has 12 years of experience as a Configuration Management manager in government and commercial organizations and another 16 years as a CM educator, lead assessor, and consultant. Steve has taught, lectured to, and/or consulted with thousands of individuals from hundreds of commercial and government organizations on the subject of CM process improvement.

Abstract: *Configuration Management Overview*

Configuration Management is one of the most misunderstood disciplines into today's government and commercial environments. This presentation, entitled "CM Overview" explores the "what" and "why" of configuration management and addresses the important role CM processes play in the successful management of an organization.

Abstract: *Highlights of the New Revision of ANSI/EIA-649B*

Revision B of ANSI/EIA-649 was releases in April, 2011. This short presentation highlights the history and purpose of the standard as well as the changes incorporated into the new Rev B version.

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Joe Farah, Neuma Technology
Future Trends in Software CM

Biography

Joe Farah (farah@neuma.com) is President and CEO of Neuma Technology. At Neuma, Mr. Farah was the architect behind Neuma's CM+ (ALM) and upcoming DB+ (Database) products. Prior to co-founding Neuma in 1990 and directing the development of CM+, Joe was Director of Software Architecture and Technology at Mitel, a Development Manager at Nortel (Bell-Northern Research) responsible for real-time database systems and for CM systems. Mr. Farah is a regular contributor to the CM Journal (cmcrossroad.com) . Joe holds a B.A.Sc. degree in Engineering Science from the University of Toronto.

Abstract

Future Trends in Software CM looks at how SCM/ALM is evolving to handle the higher level demands of software intensive businesses, in an ever-increasing competitive and regulatory environment. The presentation deals with the future direction of software CM by answering key questions: How can more focused, reliable and up-to-date information be made available for better decision making and tracking? How can user interfaces for product managers, developers, testers, CM managers, and executives be more easily tailored to roles and tasks? How can tools deal with CM complexity while presenting a simpler view to the end users?

Lisa Fenwick, CMStat
How to Botch Up a Perfectly Good PLM Solution

Biography

Ms. Fenwick has been employed by CMstat–a leading provider of COTS Configuration Management and Contract Deliverables Management software – for the past 16 years. With a degree in Engineering from the University of Maryland and an extensive background in Mechanical Engineering and Configuration Management, she has provided support to various departments including Sales/Marketing, Training, Customer Support, Implementation, and Consulting and is currently the Vice President of Product Development. She is a member of the Association of Configuration and Data Managers (ACDM), certified in Configuration Management (CMII), holds CMPIC CM Assessor Certification and is a member of Tech America on their standards writing/review committees for both Configuration and Data Management.

Abstract

Implementation of a new software product is a big undertaking. CMstat has a successful 20-year history of providing standards-based CM and DM to our customers in a COTS solution. This presentation will focus on how to avoid the pitfalls encountered when implementing a PDM/PLM solution. Steps to take into consideration before, during, and after implementation to achieve the best results will be presented. (www.cmstat.com)

Tom Gill, CIMData

Green and PLM and Innovation: A Productive or Disruptive Combination

Biography

Tom Gill joined CIMData in 2010, bringing over 25 years of experience in product development. He works with industrial clients to assess issues, recommend strategies and develop roadmaps to improve business processes that support the product lifecycle. Tom worked as an independent consultant from 2008-2010 supporting implementations of Aras Innovator. Prior 2008, he worked for over 14 years at Freudenberg-NOK General Partnership (FNGP), a supplier of sealing and vibration control components for Automotive, Aerospace, Healthcare, and Industrial markets. He held positions of Manager, CAE Technology & Support, and Director, CAE Technology & Support at FNGP. Tom has a Bachelor of Science degree in Mechanical Engineering from the University of Maine at Orono. He is CMPIC Certified.

Abstract

In recent years, manufacturers across all industries have had to comply with the increasing number and complexity of green regulations and requirements. For a growing number of companies, Product Lifecycle Management (PLM) enabling technologies & processes are becoming indispensable in optimizing a product's greenness. PLM technologies & processes are enabling organizations to compile, correlate, analyze, support, and report against a growing list of green regulations and requirements.

The good news for the industrial community is that companies of all sizes in all industries can now utilize PLM-enabling technologies to integrate green concepts into every phase of product development up-front. With such an integrated approach, manufacturers can streamline the process and avoid expensive late-stage changes as well as explore alternatives to improve green designs while meeting various governmental and market requirements.

Larry Gurule, CSC

Biography

Larry Gurule has more than 30 years of hands-on & industry consulting experience in data driven environments including retail, distribution, supply chain, manufacturing and service/process. Larry has successfully deployed processes and technology for Product Lifecycle Management (PLM), Order Management, Project Collaboration, Enterprise Resource Planning (ERP) and numerous other processes essential to the local and global operations of the world's largest companies. Larry has over 15 years of CM and related experience in government and commercial organizations. Larry has lectured to, and/or consulted with, hundreds of commercial and government organizations on the subject of CM process improvement, as well as conducted CM assessments for some very high profile commercial and government organizations. Larry has specialized training including Project Management, Configuration Management Professional Certification, Lean Six Sigma, Lean Enterprise, Lean Bill of Materials, Balanced Score Card and Activity Based Costing methodologies, authored articles, papers and presentations on Operational Process Improvement, Lean Bill of Materials and management methodologies. Larry holds a BS/MS Mechanical Engineering, University of Colorado, CMPIC Certification, CMII Certification, CM Lead Assessor Certification, CM Professional Certification from both ICM and CMPIC.

Abstract: *CM and Process*

Using the analogy of how to make the world's best hamburger, this presentation will show that the recipe for success is not just about controlling the ingredients that comprise making a burger that is world class; it must also include understanding and controlling the processes that result in the delivery of a consistently excellent product.

Abstract: *The Cloud and CM*

A new report from the TechAmerica Foundation entitled "Cloud First, Cloud Fast: Recommendations for Innovation, Leadership and Job Creation," presents 14 recommendations across themes such as trust and transparency to help government agencies successfully make the transition to the cloud. This presentation will show how CM plays a major role in realizing this initiative and how TechAmerica's involvement (Standards author of ANSI/EIA-649-B, GEIA-HB-649-A and ANSI/EIA-836-B) in defining recommendations for Cloud adoption is no coincidence.

Detlef Haesner, usb GmbH Germany
The Human Factor in CM Projects

Biography

Born 1952 in Germany. Studied Manufacturing Engineering in Berlin. Started his career at BMW Motorcycle Company in Berlin, 1976. Joined usb GmbH in 1986 and from the very beginning active in the field of PLM. From 1986 till 1994 responsible for system analysis at EADS (former DASA) with up to 10 staff member in a project for Configuration Management for the European fighter aircrafts: TORNADO and EUROFIGHTER. Since 1994 Managing Director of usb GmbH, a company which is active in the aerospace and defence industry in Europe and the US since 1982. Member of ACDM since 1998. Certified by CMPIC and the University of Houston for "Configuration Management Principles and Implementation" in August 2009.

Abstract

Usually, when dealing with the management of CM projects companies focus only on the "hard facts". The CM project is planned, controlling is done on a regular basis and the allocation of resources will be elaborated. Often forgotten but most important: the human factor. But this so-called social or soft factor is decisive for the success or failure of a CM project. The real hard side or challenge regarding project management lies in the soft factors.

Technology is easy – people aren't.

Every project is designed by people, with people, for people.

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John Hollabaugh, NSTech
Facilities, Experiments & Data: The CM Component

Biography

John has been in the testing field for most of his 33 years of his career, starting at NASA White Sands Test Facility for 3 years, working at EG&G in Los Alamos, NM for 15 years performing nuclear weapons tests, with a 5 year stint working in the cable television equipment manufacturing were he found his CM passion. He then returned to Los Alamos, joining NSTec where he has spent the last 10 years spreading the CM word. John has a B.S. in Electrical Engineering from New Mexico State University.

Abstract

The various National Laboratories (Los Alamos, Livermore, and Sandia) experimental facilities generate large quantities of experimental data. Experimental data has to be tied to the configuration of the experimental facility at the time of the experiment execution. The "raw" experimental data is analyzed to determine the phenomenon being explored. Additional to the final experimental data, dry run data and its associated facility configuration data must be used to determine the final experimental answer. This presentation proposes to state the problem of managing all of this disjointed data and using configuration management techniques to pose a possible solution.

Callum Kidd, University of Manchester
From Map Reader to Map Maker: Putting Knowledge into Practice"

Biography

Callum Kidd is the course director for one of Europe's largest Project Management Masters degree programs. Prior to joining academia, Callum spent 15 years in CM roles with companies in both the food industry and aerospace. In 1995, he was the lead in the AdCoMS project, to develop a common CM infrastructure for European aerospace companies. He acted as the UK subject expert on CM for the development of ISO 10007, and acts as an advisor for the Ministry of Defence on CM standards and guidelines.

Alan Kiraly, Bentley
The Need for CM in Managing Infrastructure Projects

Biography

Alan Kiraly joined Bentley Systems early in 2010 following Bentley's acquisition of Enterprise Informatics. Mr. Kiraly, who had served as Enterprise Informatics' CEO, is currently Bentley VP - Operations Product Management. In this capacity he oversees the overall product architecture and development direction of Bentley's AssetWise platform products.

Mr. Kiraly has been actively involved in engineering and operational information management his entire career. Prior to joining Enterprise Informatics, he held a variety of management positions in product marketing, development, and project services for leading companies in the software industry. Mr. Kiraly speaks regularly at industry conferences on the merits of using configuration and information management best practices to achieve operational excellence.

Abstract

Configuration Management principles provide the cornerstone for effective management of project information and regulatory requirements for CAPEX projects. This presentation highlights a large, active CAPEX project that is using CM principles to maintain schedules and budgets, and ensure compliance to very complex requirements.

Marc Lind, Aras

Enterprise Configuration & Change Management: New Complexities, New Advancements

Biography

Mr. Lind is a Sr. Vice President at Aras Corporation with over 17 years in configuration management, product development, manufacturing, and supply chain operations. At Aras, Mr. Lind is responsible for the enterprise-wide CM strategy, global marketing and strategic alliances along with corporate responsibilities. Prior to joining Aras, Mr. Lind was an executive with PartsDriver, an automotive industry supply chain provider for inventory reduction and forecast improvement. Previously at Analog Devices, a leading global provider of semiconductors and electronics, he was responsible for configuration & data management and quality systems. Earlier in his career, Mr. Lind was a consultant on the Toyota Production System, Lean methodologies, and quality standards. Mr. Lind holds a BBA in Operations Management from the University of Massachusetts at Amherst Massachusetts, is a member of APICS, AME and the PDMA, and is a frequent presenter on Configuration Management practices.

Abstract

As product complexity continues to increase exponentially, the ability to manage systems engineering in a 'mechatronics' environment is pushing processes and IT solutions to the breaking point in many companies. Controlling configurations that include mechanical, electrical, software, firmware and other product-related items from engineering through manufacturing and the supply chain requires a comprehensive perspective of the challenge and new capabilities to address today's fast moving environment. Find out how changes to the configuration structures which include multi-format effectivity are being addressed across the lifecycle to drive new levels of coordination enterprise-wide.

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Wendy Norris, BAE Systems
How to Prepare for a Successful Career in CM

Biography

- 31 years experience in the Configuration Management at BAE Systems, United Defense, and BMY/FMC
- BS Business Management from Pennsylvania State University
- Technical Lead for Configuration Management for Legacy Conversions
- Training Facilitator for Configuration Management
- NDIA Certified and CM II Certified
- Recipient of the TACOM/PEO, GCSS Acquisition and Logistics Reform Award of Excellence – for 40% reduction in Engineering Change Proposal Cycle Time
- Recipient for BAE Systems, Inc Bronze Chairman's Award 2010 - Transferring Best Practices and 2011 for Managing Data for the Future

Abstract

This presentation begins by describing the educational and experience necessary to begin a career in Configuration Management. Places to begin your CM career are identified. It continues by offering a number of ways to maintain your "edge" as a configuration manager. These ways include attending conferences, obtaining certifications from various CM organizations, joining professional organizations, and other ways to network with CM professionals.

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Tina O'Dell, QinetiQ North America
Bringing Change to Life: A Personal Perspective on Change Control

Biography

Ms. O'Dell is a 13 year veteran of the United States Marine Corps. During her service in the United States Marine Corps, Ms. O'Dell was responsible for managing Marines and maintaining the United States Presidential Helicopter fleet. Since leaving the United States Marine Corps in 1996, she has supported several United States Department of Defense Acquisition Programs as a Senior Systems Engineer. Ms. O'Dell's responsibilities have included Test & Evaluation, Requirements Management, International Program Management, and Configuration Management. Ms. O'Dell is currently the Configuration Management Technical Director for QinetiQ North America, Software and Systems Engineering Business Unit. In addition to her Technical Director duties, she is the Lead Engineer in support of the United States Marine Corps development and procurement activities for Communications, Networking, and Intelligence Systems. Ms. O'Dell is a CMPIC Certified CM Professional and CM Assessor from the University of Houston.

Abstract

Bringing Change to Life – A Personal Perspective on Change Control" outlines the lifecycle of an engineering change as related to a personal health issue. This presentation highlights the need for proper assessment and implementation strategies.

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Mercedes Peters, Capgemini
Interdependencies Between Change and Asset Management: A Closer Look

Biography

Ms. Peters is an IT professional with over 15 years of Information Technology business and management experience in the pharmaceutical, banking, healthcare, energy, and government industries combined. She has a strong working knowledge of IT change, asset, configuration, and release management, project management, service delivery, FISMA, and governance. Mercedes currently serves as the Capgemini North America Lead overseeing Asset Management service delivery and optimization initiatives. Prior to joining Capgemini, she served as a Project Manager on various government contracts with the Department of the Navy and the Department of Homeland Security within SAIC's Defense Solutions Group. She also worked in SAIC's corporate IT Services group where she was recognized by the COO for her role as the Change and Release Manager on the Deltek CostPoint program initiative, the company's largest internal program. She leads an active Enterprise Change, Configuration, and Release (EC2RM) group, is fluent in Spanish and conversational Italian, and is writing a Change Management Desk Reference book series. Certifications: CMII, PMP, ITILv2F.
Memberships: PMI, iTSMF, ISACA, Global Tools and Process Governance Board Member at Capgemini.

Abstract

How mature is your IT Change Management process? Are you able to trace your changes to the related CIs in the CMDB? How mature is your CMDB? Don't know?
Join us. This workshop provides a more in depth view of the touch points and IT interdependencies between the Change Management and Asset Management disciplines.

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Tonya Santini, NGC

Effective CM is Key to Success in the new AS9100C, Quality Management Systems Standard

Biography

Tonya is a seasoned Configuration Management professional with 15 years experience in both government and commercial programs. She started her CM career with STA at 4SOPS on the MilStar program. Her commercial CM experience includes being the CM Supervisor at Micro Motion. Tonya is currently the CM/DM Lead as well as the Quality Assurance/Process Improvement Lead for the JTAGS Program in Colorado Springs. She is responsible for establishing, implementing and maintaining CM, DM and QA processes. A respected team player with excellent communication and client interface skills, Tonya holds a DOD recognized certification through the Institute of Configuration Management and Arizona State University.

Abstract

The Aerospace Standard calls for the implementation of Configuration Management and document control throughout the entire life cycle of product realization. The recent revision C modifications emphasize process effectiveness. It is not enough to just have a defined process which is followed. The process must be monitored to show that it is effective from beginning to end. CM applied through-out the entire lifecycle of the product allows up-to-date knowledge of the system technical description and provides traceability of evolutions. Configuration Management will be a key focus item during in-facility audits. Think of Rev C as a quilt. There are lots of pieces, different shapes and sizes. CM is the thread through the life-cycle of the product. From Request for Information/Proposal to turn over; CM should be linking "sewing" the pieces together.

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Dana Stearns, Intergraph
DOD acquisition and Configuration Management

Biography

Dana Stearns is employed by Intergraph Government Solutions as an instructor, technical writer, and software tester for a Product Lifecycle Management (PLM) tool. She has over 30 years experience supporting DoD in the areas of Integrated Logistics Support (ILS) and PLM.

Abstract

This presentation explores some of the Configuration Management hurdles and challenges faced in the DoD Acquisition arena; how the DoD has increased acquisition requirements; and the impact on our warfighters.

Rob Stone, PSA
CM/PLM Process Automation Perspectives

Biography

Rob Stone is a Senior Systems Analyst at Professional Systems Associates, Inc. with 12-years experience in the configuration and product lifecycle management industry; and has worked in the planning, implementation, and support of information systems (hardware and software) since 1992. Rob is CMPIC certified and has received Bachelor of Arts (with a minor in Portuguese language studies) and Master of Science degrees in Business Information Systems from Utah State University.

Abstract

The automation of configuration and product lifecyle management processes using a CM/PLM software tool is potentially one of the largest benefits of such an implementation. Planning and documenting these processes is perhaps one of the most important aspects of using a CM/PLM tool effectively. If you have a good process plan, and manage it well over time, your CM/PLM implementation will likely enjoy much more success. In this presentation we'll discuss perspectives for thinking about the planning and documentation of processes that will be automated using a CM/PLM tool. We'll also walk through an example of how this might be done using a unique approach that might appeal to those out there who tend to shy away from flowcharts.

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Ken Wallace, DRS-C3A
Closing the Loop

Biography

Ken was the first CMPIC Masters Graduate and is also a graduate of ICM. Ken is currently employed at DRS Technologies, a Finmeccanica Company, as CM Manager. Ken previously worked for Smiths Aerospace as CM Manager, Southco as Change Manager, and served in USAF as Admin Specialist.

Abstract

This presentation will discuss how to "close the loop" in your organization. It will follow the example of a company that was not closing the loop and they could not, with certainity, say what was shipped to their customers. Ken will explore what was tried in order to close the loop, what actually worked, what still needs to be done and the lessons learned from his experience.

Jeff Windham, US Army
Mil-Std 973 Update & Reinstatement

Biography

Jeff Windham has over 20 years experience as a systems engineer and configuration manager for the US Army, Armament Research Development and Engineering Center (ARDEC) at Rock Island Arsenal, Illinois. He is currently the chief of the Small Caliber Systems Configuration Management Branch. He is NDIA certified in Configuration and Data Management and teaches configuration management throughout the Army. He holds a BS in Aerospace Engineering from Mississippi State University and an MS in Business Administration from East Texas State University.

Abstract

In the late 1990's, the US Dept of Defense (DOD) wanted to improve the speed and cost effectiveness of DOD's acquisition of weapons systems. A large part of this process was the elimination of military unique specifications and standards. The DOD standard on configuration management, MIL-STD-973, was one of the standards cancelled in February of 2000.

Despite the cancellation of -973, almost every organization in DOD still uses it in one form or another, hence earning it the nickname of the "zombie" standard.

This brief will discuss the efforts in DOD to improve and standardize the C M process within DOD to include the possible update and reinstatement of MIL-STD-973. Also discussed will be some of the improvements hoped to be implemented as a part of this effort.

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If you are interested in presenting at a future CM Trends Conference, or have any suggestions for speakers or topics, please contact the CMPIC office at (434) 525-8648, info@cmpic.com.

Thank you!

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