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CBA IPI with SW-CMM1.1 and SCAMPI with CMMI - SE / SW / IPPD / SS 1.1 <u>back to back</u>: were we crazy or what???

Presentation by Richard Basque



2nd Annual CMMI Technology Conference & User Group

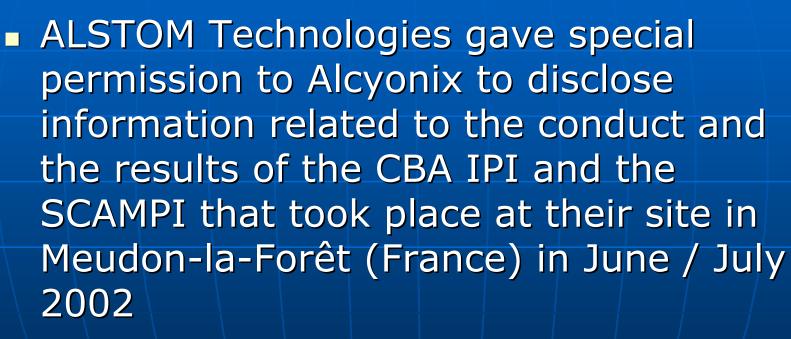
Denver, November 13, 2002

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Important Authorization

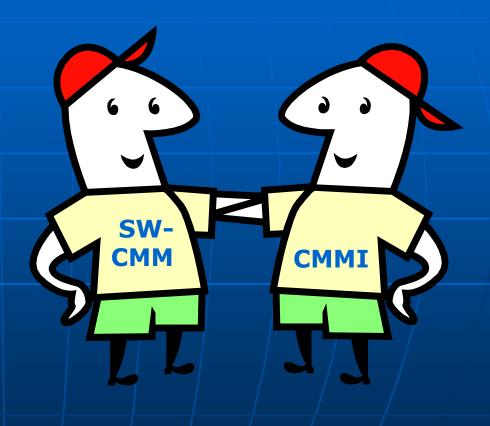


 We thank them for their kind collaboration

What is this presentation about?

 Doing a dual assessment, up to maturity level 5, on the same SOFTWARE site
CBA IPI with SW-CMM 1.1

 SCAMPI with CMMI 1.1 staged
Lessons learned



CBA IPI was a MUST

3rd official assessment since 1994 and several interim mini assessments SW-CMM level 4 achievement confirmation was expected (... and needed!)



SCAMPI was a BONUS

Prepare for transition

- discover and feel the REAL differences
- document the indicators
- train the people



Favorable Conditions

Seasoned experts on the team Well prepared and very motivated organization Committed sponsor Business need to expand to system



Managed Risks

Endless? Confusion? Burn out? No double credits? one for CBA IPI one for SCAMPI No delivery... because of all the above!



The Bottom Line

 We were (probably) crazy but... REALLY determined and prepared!

Intense Preparation

 CMMI training (of course!)
Practice Implementation Indicators (PII's) identification BOTH for SW-CMM and CMMI

- Long elapsed time for filling the PII's table
- XREF between the two sets of PII's
- Specially intense team training
- Close coordination



Disciplined Onsite

- Shared data collection events
 - single series of interviews
 - single set of documents to review
- Mental split when tagging vs. models
 Rigor when consolidating observations in team plenary sessions



Separate Results



Validation Slides Observations Final Presentation Slides • Rating • Findings PAIS and feedback forms



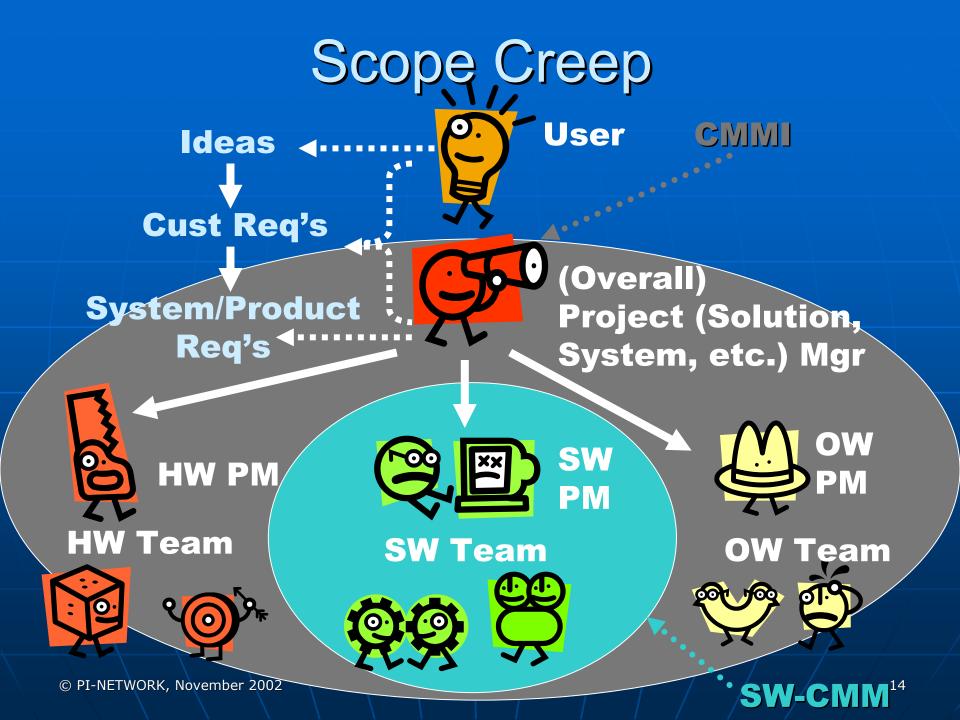
So... What Were the Differences?

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CMMI vs. SW-CMM - General

- Multiple disciplines, broader scope (next slide)
- More PAs
- 2 representations
- Consistent set of common practices
- More flexibility in terms of structure and roles
- More universal wording but amplifications by discipline





CMMI vs. SW-CMM L2

 Supplier Agreement Management (SAM) covers a broader scope than Subcontract Management (SM)
Software Quality Assurance (SQA) is renamed with a more explicit name: Process and Product Quality Assurance (PPQA)

 Measurements & Analysis (MA): a full PA and need to align measurements on goals



CMMI vs. SW-CMM L3 (1 of 2)

 Software Product Engineering (SPE): exploded into several PAs

- Requirements Development
- Technical Solution
- Product Integration
- Verification (now includes PR)
- Validation



CMMI vs. SW-CMM L3 (2 of 2)

 Risk Management: a new PA
Decision and Analysis: a new PA focusing on decision process
Organization Environment for Integration (with IPPD): a new PA
Integrated Teaming (with IPPD) : much more than Inter-group Coordination
Integrated Supplier Management:

 Integrated Supplier Management: a new PA (with SS)



CMMI vs. SW-CMM – L4

Quantitative Process Management and Software Quality Management re-structured around Organization vs. **Project:** Quantitative **Project Management** (QPM) and Organizational Process Performance (OPP)



CMMI vs. SW-CMM – L5

 Organization Innovation and Deployment (OID) integrates both
Technology Change
Management (TCM) and
Process Change
Management (PCM)



The « GENERIC » Practices: the NEW Aspects (1 of 2)



Plan the process

instead of "according to a documented procedure"

Establish a Defined Process



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The « GENERIC » Practices: the NEW Aspects (2 of 2)

Manage configurations



Identify and Involve
Relevant Stakeholders

 Monitor & Control the Process





Actual Results and Lessons Learned



The actual SW-CMM Level: 4

Defect Prevention Technological Change Management

Process Change management

Quantitative Process Management Software Quality Management

Organization Process Focus Organization Process Definition Training Program Integrated Software Management Software Product Engineering Intergroup Coordination Peer Reviews

Requirements Management Software Project Planning Software Project Monitoring and Control Software Quality Management Software Configuration Management

(Note: Software Subcontract Management was NOT applicable)

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The actual CMMI Level: 2

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Organizational Innovation and Deployment Causal Analysis and Resolution

Organizational Process Performance Quantitative Project Management

Requirements Development Technical Solution Product Integration Verification Validation Organizational Process Focus Organizational Process Definition Organizational Training Risk Management Decision Analysis and Resolution

Requirements Management Project Planning Project Monitoring and Control Supplier Agreement Management (COTS only.) Measurement and analysis Process and Product Quality Assurance Configuration Management

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Additional Preparation Effort -Statistics

- Transform model PII's into site PII's:
 - 5 men-days
- Establish hyperlinks in the PII's table for initial set of documents:
 - approx. 560 documents: 4 men-days
- Fill hyperlinks in the PII's table for other projects' documents:
 - Approx. 2 men-days per project PLUS 3 men-days for comparison PLUS 2 men-days for verification

For a total of about 22 men-days



Lessons Learned - 1

Re-Scoping: the most important decision but N/A here (SW only) Transitioning: quite simple SW only and then SE/SW makes sense Good and objective information needed (and available!) Plan a lot of preparation



Lessons Learned - 2

- Use hyperlinks for documents references
- Verification paradigm emphasizes the audit look: if you want to create / increase momentum, counterbalance
 - awareness sessions
 - some time for interviewees to free-wheel
 - presentations of projects and of key function as a complement to interviewees
 - communicate, communicate, and communicate!

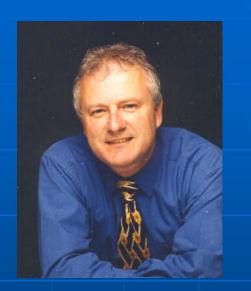
Almost... a Walk in the Park



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And thanks again to ALSTOM Technologies!

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