

Texas Comptroller of Public Accounts



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Capability Maturity Model Framework for Software Development

- CMM Overview / Infrastructure
- Acronym "City"
- Key Process Areas for Software Development and Outsourced Application Support
- What We Did
- Implementation Issues
- Current Status
- Future Plans

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CMM Overview / Infrastructure



As defined by the SEI – “The Capability Maturity Model is a model for judging the maturity of the software processes of an organization and for identifying the key practices that are required to increase the maturity of these processes.”

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CMM Overview / Infrastructure (Cont.)



- Levels of Maturity
 - ◆ Initial (1) – Ad hoc / Chaotic Processes
 - ◆ Repeatable (2) – Disciplined Processes
 - ◆ Defined (3) – Standard Consistent Processes
 - ◆ Managed (4) – Predictable Processes
 - ◆ Optimized (5) – Continuously Improving Processes

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CMM Overview / Infrastructure (Cont.)

- Policies
- Plans
- Common Features
- Processes
 - ◆ Roles/Responsibilities
 - ◆ Inputs/Outputs
 - ◆ Methods/Tools
 - ◆ Measurements
- Training

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Acronym "City"

- Key Process Areas – KPAs
- MST – Management Steering Team
- SEPG – Software Engineering Process Group
- PAT – Process Action Team

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KPAs for Software Development and Outsourced Application Support

- Requirements Management - RM
- Software Project Planning - SPP
- Software Project Tracking and Oversight - PTO
- Software Subcontract Management - SSM
- Software Quality Assurance - SQA
- Software Configuration Management – SCM
- System Development Life Cycle - SDLC

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What We Did

- Established a MST
- Established a SEPG
- Initiated PATs
- Developed Policies

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Implementation Issues

- Training
- Cross-Team Participation
- Consistent Monitoring
- Management Support

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Current Status

- Integrated Tax System (ITS) has been using CMM Level 2 practices
- Monitoring is monthly
- Reporting to management monthly

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Future Plans

- Expand into other development areas
- Continue training and mentoring of other teams
- Define Level 3 policies and procedures

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Questions?

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12