

PRODUCT DEVELOPMENT METHODOLOGY A STANDARD APPROACH

“AUTO PILOT”

QUICKLY CUSTOMIZABLE

95% Reduction In Process definition effort !!!

CMMI L3 COMPLIANT





ABOUT THE PRODUCT

Custom Product development methodology (“Auto Pilot”) has been developed based on proven processes and best practices applied for product development of various complexities. This methodology has been constantly improved to ensure that, this can be applied with minimum changes, which can be as low as 5 – 10% of effort to develop the methodology from scratch. Also, there is every possibility that the resulting procedures require more tuning till it reach its maturity.

The methodology has Seven phases viz. Concept Definition, Concept Elaboration, Design & Development, Verification & Validation, Product Release, Project Closure, Product Maintenance. Across these phase the defined processes and process artifacts were grouped under various categories such as Project Management, Software Engineering, Verification & Validation, Project Oversight, Project Cut-over, Project Support.

This methodology has been tested and proven to provide an assurance on success of the project. Also, the methodology has been benchmarked against the CMMI Level 3 requirements.

The methodology comprise of 48 Procedures, 44 Templates, 14 Checklists, 19 Guidelines, 4 Standards.



BENEFITS

- Just – In – Time Software Product Development processes
- 95% reduction in process definition effort
- 100% probability of process implementation success
- We understand the reasons for process success and failures, therefore, we will be in a position to prevent undesirable moves
- Practical and Easy-to-use Procedures, Templates, Checklists, Guidelines and Standards
- Easily customizable, however, we provide services in customizing the processes to your organization needs, if required
- There will not be elaborate training requirements on processes, however we provide services in transitioning the standard processes in your organization, if required
- CMMI L3 Compliant



PRODUCT DEVELOPMENT FRAMEWORK

CONCEPT
DEFINITION

CONCEPT
ELABORATION

DESIGN &
DEVELOPMENT

VERIFICATION
VALIDATION

PRODUCT
RELEASE

PROJECT
CLOSURE

PRODUCT
MAINTENANCE

PROJECT MANAGEMENT

SOFTWARE ENGINEERING

VERIFICATION & VALIDATION

PROJECT OVERSIGHT

PROJECT CUT-OVER

PROJECT SUPPORT

GATE 0

GATE 1

GATE 2

GATE 3

GATE 4

GATE 5



CONCEPT DEFINITION

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PROCESS

- 001-PD-PM-PR – PROJECT REGISTRATION
- 002-PD-SE-PR – PRODUCT OPPORTUNITY PLANNING
- 003-PD-PM-PR – PROJECT ESTIMATION
- 004-PD-PM-PR – PROJECT CONTRACTING
- 005-PD-PO-PR – GATE 0 - OVERSIGHT
- 006-PD-PM-PR – MEASUREMENT PLANNING
- 007-PD-PM-PR – MEASUREMENT COLLECTION
- 008-PD-SU-PR – DOCUMENT MANAGEMENT



TEMPLATES

- 009-PD-SE-TP – PRODUCT OPPORTUNITY PLAN
- 010-PD-PM-TP – PROJECT DATA SHEET
- 011-PD-PM-TP – PROJECT CONTRACT
- 012-PD-PM-TP – GATE 0 DELIVERABLES PLAN
- 013-PD-PM-TP – METRICS ANALYSIS
- 014-PD-PM-TP – PROJECT SPECIFIC TRAINING PLAN
- 015-PD-SU-TP – DOCUMENT MANAGEMENT



CHECKLISTS

- 017-PD-PO-CL – GATE 0 REVIEW CHECKLIST
- 018-PD-PO-CL – GATE 0 AUDIT CHECKLIST



STANDARDS

- 016-PD-PO-ST – GATE 0 - REVIEW PRESENTATION



GUIDELINES

- 019-PD-PO-GL – GATE REVIEW
- 020-PD-SE-GL – CUSTOMER INVOLVEMENT
- 021-PD-PM-GL – PROJECT ESTIMATION
- 022-PD-SU-GL – DOCUMENT MANAGEMENT



CONCEPT ELABORATION

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PROCESS

- 101-PD-SE-PR – PRODUCT REQUIREMENTS MANAGEMENT
- 102-PD-SE-PR – SOFTWARE REQUIREMENTS MANAGEMENT
- 103-PD-SU-PR – CONFIGURATION MANAGEMENT
- 104-PD-PM-PR – INTEGRATED PROJECT PLANNING
- 105-PD-PM-PR – PRODUCT RISK MANAGEMENT
- 106-PD-PM-PR – PROJECT RISK MANAGEMENT
- 107-PD-PM-PR – DETAIL PLANNING
- 108-PD-SE-PR – QUALITY STRATEGY
- 109-PD-SU-PR – SUPPLIER SELECTION
- 110-PD-PM-PR – PROJECT TRACKING
- 111-PD-PO-PR – PROJECT OVERSIGHT
- 112-PD-PM-PR – PROCESS TAILORING
- 113-PD-PM-PR – PROJECT INITIATION



STANDARDS

- 128-PD-PO-ST – GATE 1 - REVIEW PRESENTATION
- 129-PD-PM-ST – PROJECT INITIATION PRESENTATION



CHECKLISTS

- 130-PD-PO-CL – GATE 1 REVIEW CHECKLIST
- 131-PD-PO-CL – GATE 1 AUDIT CHECKLIST



TEMPLATES

- 114-PD-PM-TP – INTEGRATED PROJECT PLAN
- 115-PD-VV-TP – TECHNICAL REVIEW REPORT
- 116-PD-SU-TP – CONFIGURATION MANAGEMENT PLAN
- 117-PD-SU-TP – CONFIGURATION ITEM RECORD
- 118-PD-SE-TP – REQUIREMENTS TRACEABILITY
- 119-PD-PM-TP – PROJECT RISK MANAGEMENT SHEET
- 120-PD-PM-TP – PRODUCT RISK MANAGEMENT SHEET
- 121-PD-SE-TP – QUALITY STRATEGY
- 122-PD-SE-TP – PRODUCT REQUIREMENTS
- 123-PD-SE-TP – SOFTWARE REQUIREMENTS
- 124-PD-PM-TP – GATE 1 DELIVERABLES PLAN
- 125-PD-PM-TP – PROJECT STATUS REPORT
- 126-PD-PM-TP – MINUTES OF MEETING
- 127-PD-PM-TP – PROCESS TAILORING



GUIDELINES

- 132-PD-SE-GL – PRODUCT REQUIREMENTS
- 133-PD-SE-GL - ERROR HANDLING
- 134-PD-PO-GL – PROJECT OVERSIGHT
- 135-PD-PM-GL – RISK ASSESSMENT
- 136-PD-PM-GL – METRICS GUIDELINES
- 137-PD-PM-GL – SOFTWARE CONFIGURATION



DESIGN & DEVELOPMENT

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PROCESS

- 201-PD-SE-PR – HIGH LEVEL DESIGN
- 202-PD-SE-PR – LOW LEVEL DESIGN
- 203-PD-SE-PR – DESIGN REVIEW
- 204-PD-SE-PR – CODING & UNIT TESTING
- 205-PD-SE-PR – SAFETY RISK MANAGEMENT
- 206-PD-PO-PR – CUSTOMER COMPLAINT
- 207-PD-PM-PR – CRITICAL DECISION MAKING



TEMPLATES

- 208-PD-SE-TP – HIGH LEVEL DESIGN
- 209-PD-SE-TP – LOW LEVEL DESIGN
- 210-PD-VV-TP – DEFECT LOG
- 211-PD-PM-TP – CRITICAL DECISION MAKING
- 212-PD-PM-TP – GATE 2 DELIVERABLES PLAN
- 213-PD-PO-TP – COMPLAINT LOG
- 214-PD-PO-TP – COMPLAINT FORM
- 215-PD-VV-TP – UNIT TEST PLAN



CHECKLISTS

- 216-PD-PM-CL – GATE 2 REVIEW CHECKLIST
- 217-PD-PM-CL – GATE 2 AUDIT CHECKLIST



STANDARDS

- 222-PD-SE-ST – GLOBAL CODING STANDARDS



GUIDELINES

- 218-PD-SE-GL – DESIGN
- 219-PD-SE-GL – ALTERNATE DESIGN EVALUATION
- 220-PD-VV-GL – CODE REVIEW
- 221-PD-PM-GL – CRITICAL DECISION MAKING
- 223-PD-PM-GL – TECHNICAL REVIEW GUIDELINES



VERIFICATION & VALIDATION

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PROCESS

- 301-PD-VV-PR – APPLICATION INTEGRATION PLANNING
- 302-PD-VV-PR – INTEGRATION TESTING
- 303-PD-VV-PR – SYSTEMS TEST PLANNING
- 304-PD-VV-PR – SYSTEMS TESTING
- 313-PD-VV-PR – DEFECT MANAGEMENT



TEMPLATES

- 305-PD-VV-TP – SYSTEMS TEST PLAN
- 306-PD-VV-TP – INTEGRATION TEST PLAN
- 314-PD-VV-TP – DEFECT ANALYSIS
- 315-PD-PM-TP – GATE 3 DELIVERABLES PLAN



CHECKLISTS

- 307-PD-SE-CL – INTEGRATION READINESS CHECKLIST
- 308-PD-PO-CL – GATE 3 REVIEW CHECKLIST
- 309-PD-PO-CL – GATE 3 AUDIT CHECKLIST



STANDARDS



GUIDELINES

- 310-PD-VV-GL – INTEGRATED TESTING
- 311-PD-VV-GL – TESTING GUIDELINES
- 312-PD-VV-GL – PRODUCT VALIDATION



PRODUCT RELEASE

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PROCESS

- 401-PD-CO-PR – BETA PLANNING
- 402-PD-CO-PR – BETA TESTING
- 403-PD-CO-PR – DATA MIGRATION
- 404-PD-CO-PR – USER MANUAL
- 405-PD-CO-PR – OPERATIONAL MANUAL
- 406-PD-CO-PR – DEPLOYMENT STRATEGY



TEMPLATES

- 407-PD-CO-TP – BETA TEST PLAN
- 408-PD-CO-TP – GATE 4 DELIVERABLES PLAN
- 409-PD-CO-TP – CUT-OVER PLAN
- 410-PD-CO-TP – STAKEHOLDERS SIGN-OFF
- 411-PD-CO-TP – DEPLOYMENT STRATEGY



CHECKLISTS

- 412-PD-CO-CL – BETA PLANNING CHECKLIST
- 413-PD-PO-CL – GATE 4 REVIEW CHECKLIST
- 414-PD-PO-CL – GATE 4 AUDIT CHECKLIST



STANDARDS



GUIDELINES



PROJECT CLOSURE

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PROCESS

- 501-PD-PM-PR – PROJECT CLOSURE
- 502-PD-PO-PR – CUSTOMER SATISFACTIN SURVEY



TEMPLATES

- 503-PD-PM-TP – PROJECT CLOSURE REPORT
- 504-PD-PM-TP – RE-USABLE COMPONENTS
- 505-PD-PO-TP – CUSTOMER SATISFACTION SURVEY



CHECKLISTS

- 506-PD-PM-CL – GATE 5 REVIEW CHECKLIST
- 507-PD-PM-CL – GATE 5 AUDIT CHECKLIST



STANDARDS

- 509-PD-PM-ST – PROJECT CLOSURE PRESENTATION



GUIDELINES

- 508-PD-PO-GL – CUSTOMER SATISFACTION SURVEY

PRODUCT MAINTENANCE METHODOLOGY A STANDARD APPROACH

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PROCESS

601-PS-SE-PR – REQUEST REGISTRATION
602-PS-SE-PR – IMPACT ANALYSIS
603-PS-SE-PR – CHANGE APPROVAL
604-PS-SE-PR – TECHNICAL DESIGN
605-PS-SE-PR – CODING
606-PS-SE-PR – VERIFICATION & VALIDATION
607-PS-SE-PR – PRODUCT DELIVERY



TEMPLATES

608-PS-SE-TP – PRODUCT CHANGE REQUEST REG.
609-PS-SE-TP – PRODUCT CHANGE REQUEST
610-PS-SE-TP – IMPACT ANALYSIS



CHECKLISTS



STANDARDS



GUIDELINES



COMMERCIALS

- All-in-one Product Development Methodology (48 Procedures, 44 Templates, 14 Checklists, 19 Guidelines, 4 Standards) cost \$5000
- Any individual process artifacts can be purchased based on the your requirements and corresponding price
- Process Customization will be charged on time and material basis.
- Process Training will be charged based on time and material basis.
- The buyer to use the purchased processes only for the organization for which it has been purchased.
- Buyer to enter into an agreement with the Techserv Consulting for copyrights.
- Maintenance of processes on behalf of buyer, if required, will be charged on time and material basis.

Thank you!

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