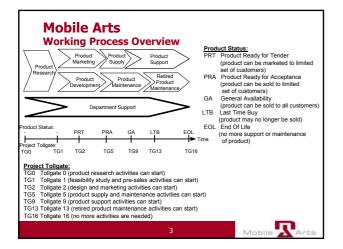


Content

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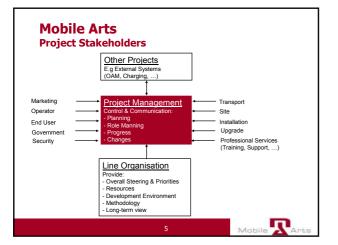




Mobile Arts Project Types

- ► Time To Market (TTM) Project
 - ✓ First System Creation, or
 - ✓ Subsequent System Modification
- ▶ Time To Customer (TTC) Project
 - ✓ Market Adaptation, and/or
 - ✓ Customisation, and
 - ✓ Deployment
- ► Maintenance Project
 - ✓ Support and help desk
 - ✓ Error correction
 - Maintenance upgrades





Mobile Arts Overall Methodology

- Architecture
 - Terminology ✓ Termir✓ Reuse
 - Stability
 - ✓ Forward compatible
 ✓ Manageable (sub)projects
 - Product Structure
- - Architecture based (sub-component hierarchy) Define responsibilities
 - ✓ Define repositories
 - Document Structure
- Product Structure based
 Usability
 Traceability
- Project Structure
- ✓ Product Structure based
 ✓ External project/system relations
 ✓ Phasing (Tollgates, Milestones)

Mobile Arts Overall Methodology ▶ Iteration ✓ Waterfall

- - ✓ Incremental
- Change control
- Baselines
- ✓ Subsequent releases
- Requirement and architecture changes
- ✓ Error correction
- ▶ Line Organisation responsibilities
 - ✓ Resource/tool development and allocation
 - ✓ Cross-project prioritisation
 - ✓ Long term quality
 ✓ Architecture change approval
 - ✓ Product documentation approval
 - ✓ Project Steering Group: Tollgate approval

Mobile Arts Document Types

- ➤ Delta versus Full documents
 ✓ Delta document: Modification focus only
 ✓ Full document: All inclusive (inherited description)
- Project versus Product documents
- Project document: Lives during project only
 Product document: Maintained during product lifetime
- Release specific versus Common (product documents)
- Release specific: Dedicated to given product release and updated to next release
 Common: Shared between releases and/or products
- Project document uses
 ✓ Planning, Control, Follow up
- Product document uses
 - PlanningMarketingSpecification

 - Implementation

 - OAM (Installation, Operation)
 Professional Services (Training, Operation, Support)
- Methodology documents
 - Process Description
 - Role Description

Mobile

Mobile Arts Project Roles

- ► Project Management
 - ✓ Project Leader
 - ✓ Project Administrator ✓ Test Leader
- Requirements
 - Product Manager
- Coordination
 - Technical Coordinator
 - ✓ Configuration Manager ✓ Release Manager
- ▶ Implementation
- ✓ Designer
- ✓ Documenter
- Testing

✓ Tester

Mobile Arts Line Organisation Roles in Project

- Requirements

 Product Manager
- Architecture
 - ✓ System Manager
- Implementation ✓ Development Environment Manager
- - ✓ Test Environment Manager
- Quality Control
 - Quality Manager
- Professional Services
 - ✓ Generic Requirements



Mobile Arts Specifications

- Overview
- ✓ Distribution of functionality upon components
 - Grey-box cross-component sequence diagrams
 - ✓ Multiplicative
- Details
 - Component specification
 - ✓ Black-box single component sequence diagrams
 - ✓ Additive

Mobile Arts Testing Types

- ▶ Function Test
 - Test of single function in component
 Responsibility: Designer
- ▶ Joint Function Test
 - ✓ Test of function cross components
 - ✓ Responsibility: Tester
- Usability Test
 - Test of function usability (End-User and OAM)
 - ✓ Responsibility: Tester and OAM Guide writer
- System Test
 - Test of system characteristics
 - ✓ Regression test: "Daily builds'✓ Responsibility: System Tester
- ► Acceptance Test
 - Test of customer system
 - ✓ Responsibility: Field Tester and Customer

Mobile

Mobile Arts Used tools Marketing ✓ Power Point ✓ Word (PDF) Project Planning ✓ Project Planning: Excel, MS Project, Double Chocolatte Development ✓ Specification: Word, Visio ✓ Coding: Erlang, Linux, Intel HW ✓ Testing: Own environment simulation tools, Sun Solaris Repositories ✓ Specifications: MS Folder structures ✓ Code: CVS ► Support and Maintenance Trouble Reporting: Bugzilla

Mobile



Mobile Arts Project Communication ▶ A&O: Everyone sits close to each other Documentation Repositories Project Meetings ► Change Control Board



Mobile Arts Characteristics Requirements

- ► Scalability/Load-sharing
- ► Robustness/Resilience/Redundancy
 - HW errors
 - ✓ SW errors
- Capacity (and forward prediction)
 - ✓ Processing
 - ✓ Memory and disk
 - ✓ Bandwidth

 - ✓ External impact
- Quality of Service
 - Delays ✓ Dela, ✓ Jitter
- Upgrade and Migration
 - External compatibility
 - ✓ Internal data

Mobile Arts Professional Services

- Installation and upgrades
- ✓ HW, SW and documentation
- Customer Training
 OAM
 Application
- Support (office hour or 24/7)
- - ✓ Help desk✓ Trouble Shooting
- Emergency Correction
- Maintenance
- - Approved Corrections
 Maintenance Packages
- Operation (optional)
 - ✓ Remote ✓ Hosting
- Consultancy
 - ✓ Investigations (e.g. network design)
 ✓ Customisation