

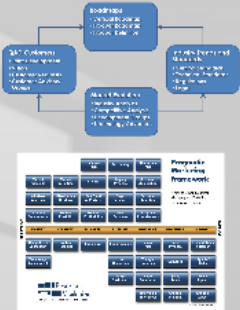
World-Class Application Lifecycle Management: The QAD Story

Tony J Winter - Chief Technology Officer, QAD Inc

Establishing Governance

Knowing what to build:

- Understand target markets
- Evaluate requirements from multiple sources
- Evaluate business cases
- Consolidate into prioritized themes and roadmaps
- Establish projects, funding, management and teams

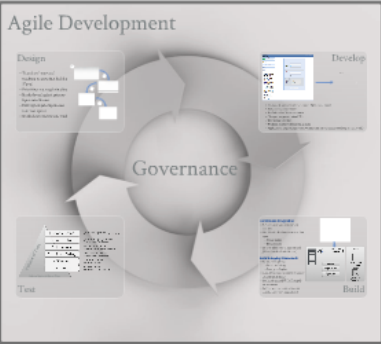


What is Application Lifecycle Management?

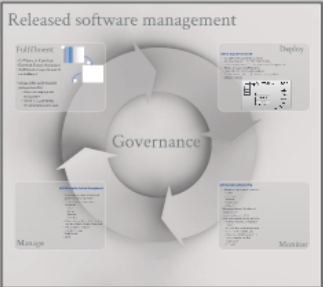
Application lifecycle management (ALM) is the product lifecycle management (governance, development, and maintenance) of application software. It encompasses requirements management, software architecture, computer programming, software testing, software maintenance, change management, project management, and release management.



Development



Operations



Questions?

Tony J Winter, CSM, BSc
Chief Technology Officer

Twitter: www.bit.ly/tonywinter
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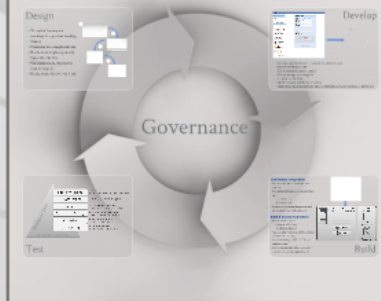
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Development

Agile Development



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Operations

Released software management



Questions?

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About QAD

QAD Overview

Summary

Established: 1979
Revenue: \$252 M (FY13)
Employees: 1,540 worldwide
Headquarters: Santa Barbara, CA
Operations: 19 Countries
Customers: 2,800 Companies
 97 Countries
 30 Languages
Product: QAD Enterprise Applications
Stock: NASDAQ: QADA, QADB

Automotive · Life Sciences · High Tech
Industrial · Consumer Products · Food and Beverage

QAD

QAD Overview

Customers

Automotive Parts	Consumer Products	Food & Beverage	High Technology	Industrial Products	Life Sciences
KYB, DELPHI, LEAR, DENSO, DENSO AIR, DENSO AUTOMOTIVE SYSTEMS, DENSO ELECTRIC SYSTEMS, DENSO ENGINEERING, DENSO ELECTRONICS, DENSO AUTOMOTIVE ELECTRONICS, DENSO AUTOMOTIVE ELECTRONICS, DENSO AUTOMOTIVE ELECTRONICS	UNILEVER, P&G, NESTLE, L'OREAL, BECK'S, BUNGE, MONSIEUR JEAN, BUNGE, MONSIEUR JEAN, BUNGE, MONSIEUR JEAN	BECK'S, BUNGE, MONSIEUR JEAN, BUNGE, MONSIEUR JEAN, BUNGE, MONSIEUR JEAN	FCL, Anritsu, FEI, 3G, Coda Octopus, COGNEX, Intel, IBM, Fujitsu, GOM, Laird	ENTERPRISE PARTS, YAMAHA, CRANE, BOBST, MITSUBISHI, ARCADIS, ARCADIS, ARCADIS, ARCADIS	CSL, COVIDEN, medela, VALLEANT, stryker

QAD

QAD Overview

Products

Total Enterprise Capability
 Complete Suite
 Deployment Independent
 On Premise & On Demand
 Global Solution
 Languages & Domains
 Simple to Use
 .NET UI & Mobile Apps
 Rapid Deployment
 Easy On-Boarding

QAD

QAD Overview

Enterprise Financials	Financial Analysis	Management Reporting	Multi-CAAP	Budgeting	Governance, Risk & Compliance
Standard Financials	General Ledger	Accounts Payable	Accounts Receivable	Accounts Payable	Inventory / Cash Management
Customer Management	Customer Relationship Management	Sales Quotations	Sales Orders	Customer Self Service	Sales Analysis
Manufacturing	Production Planning	Material Requirements Planning	Shop Floor Control	Quality Management	Product Lifecycle Management
Demand & Supply Chain Planning	Production Planning	Inventory Management	Procurement Planning	Distribution Planning	Sales & Operations Planning
Supply Chain Execution	Warehouse Management	Inventory Management	Product Line Planning	Equipment Management	Enterprise Operations Planning
Service & Support	Service & Support Management	Field Service Scheduling	Field Service Scheduling	Mobile Field Service	Supply Chain Portal
Enterprise Asset Mgmt	Asset Management	Asset Management	Asset Management	Asset Management	Asset Management
Analytics	Operational Metrics	Reporting Framework	Workflow Alerts	Business Intelligence	Mobile
Interoperability	Q-Cloud	Integrated Customer Tools	eCommerce	Document Management	Outlook Management
Process & Performance	Performance Monitoring Framework	Performance Monitoring Framework	Business Process Management	Business Process Management	Business Process Management
Internationalization	Local Regulation	Local Business	Local Business	Local Business	Local Business

QAD

Used by **1000's** Companies

Over **25** Applications

Over **70** Modules

30 Languages

97 Countries

Over 30 Years of Partnership

QAD
Our Passion. Your Advantage.

+

PROGRESS
software

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QAD Overview

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Automotive Parts

Consumer Products

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QAD Overview

Products

Total Enterprise Capability

Complete Suite

Deployment Independent

On Premise & On Demand

Global Solution

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Simple to Use

.NET UI & Mobile Apps

Rapid Deployment

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**enterprise
applications**

QAD Overview

Enterprise Financials	Financial Analysis		Management Reporting		Multi-GAAP		Budgeting		Governance, Risk & Compliance		
	Consolidations		Allocations		Financial Shared Services		Credit Management		Tax Management		
	General Ledger		Multi Currency		Accounts Receivable		Accounts Payable		Banking / Cash Management		
	Cost Management		Fixed Assets		Enhanced Controls		Logistics Accounting		Sales & Use Tax Connector		
Standard Financials	General Ledger		Multi Currency		Accounts Receivable		Accounts Payable		Banking / Cash Management		
	Cost Management		Fixed Assets		Enhanced Controls		Logistics Accounting		Sales & Use Tax Connector		
Customer Management	Customer Relationship Management			Sales Quotations			Sales Orders			Sales Analysis	
	Pricing			Configurator			Customer Self Service			Trade Management	
Manufacturing	Product Data Management	Manufacturing Planning		Manufacturing Execution		Quality Management		PRO / PLUS		Manufacturing Scheduling	
	Lean	Advanced Planning & Scheduling		Automated Data Collection		Compliance Quality		Product Lifecycle Management			
Demand & Supply Chain Planning	Production Planning		Demand Planning		Procurement Planning		Distribution Planning		Sales & Operations Planning		
Supply Chain Execution	Purchasing		Supplier Performance		Product Line Planning		Distribution Requirements Planning		Enterprise Operations Planning		
	Consignment Inventory		Warehousing		Release Management		Transportation Management		Supply Chain Portal		
Service & Support	Service & Support Management				Field Service Scheduler			Mobile Field Service			
Enterprise Asset Mgmt	Project Accounting				Plant & Equipment Maintenance			MRO Management			
Analytics	Operational Metrics		Reporting Framework		Workflow Alerts		Business Intelligence		Mobile		
Interoperability	Q-Xtend	Integrated Customization Toolkit		EDI eCommerce		Document Management		Output Management		Integration Suite	
Process & Performance	Performance Monitoring Framework						Business Process Management				
Internationalization	Local Regulations				Local Business			Local Bank Drivers			

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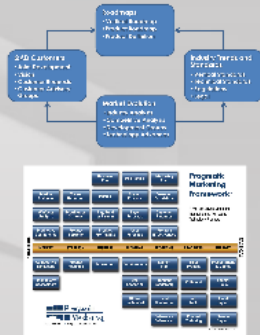
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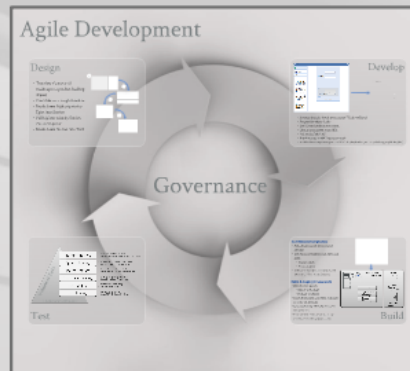
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Development

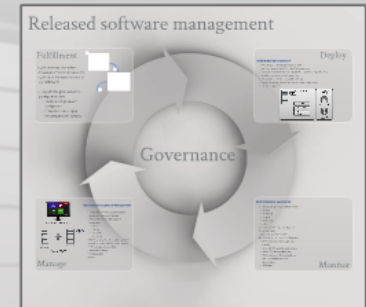


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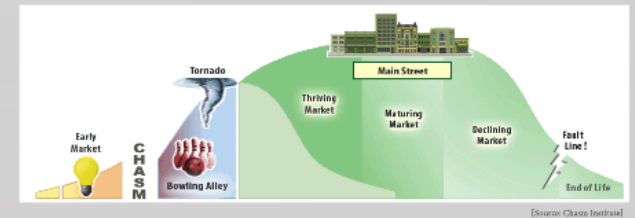
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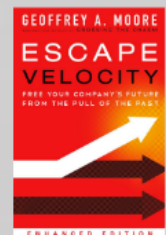
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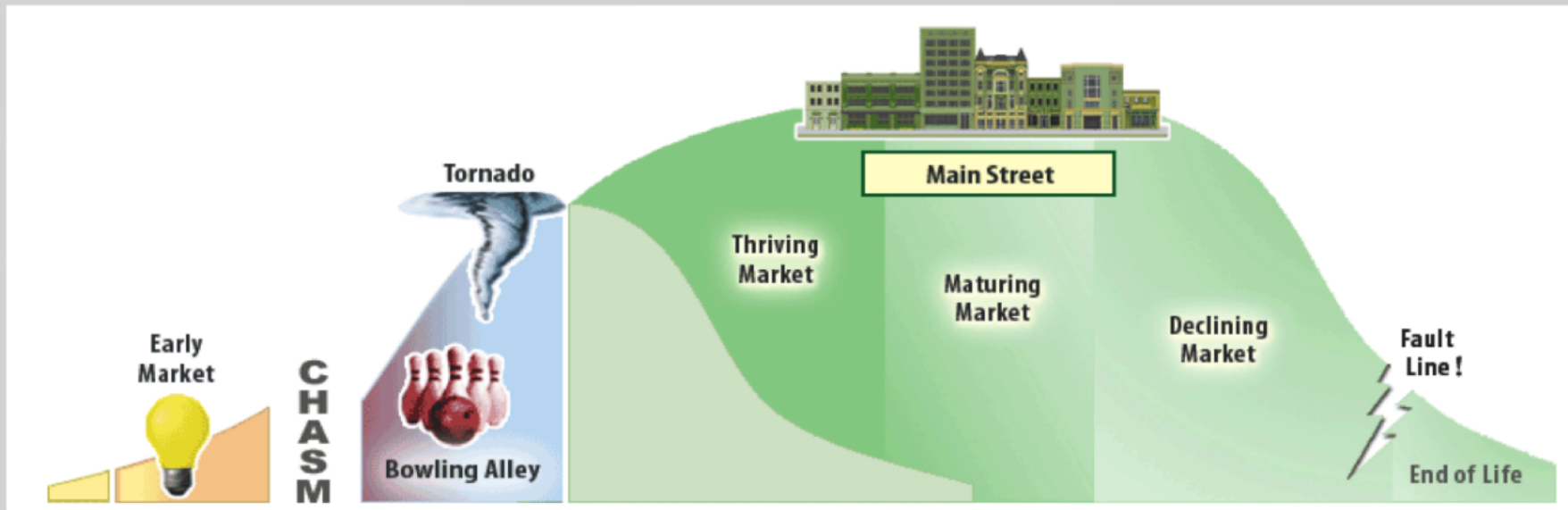
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[Source: Wikipedia]



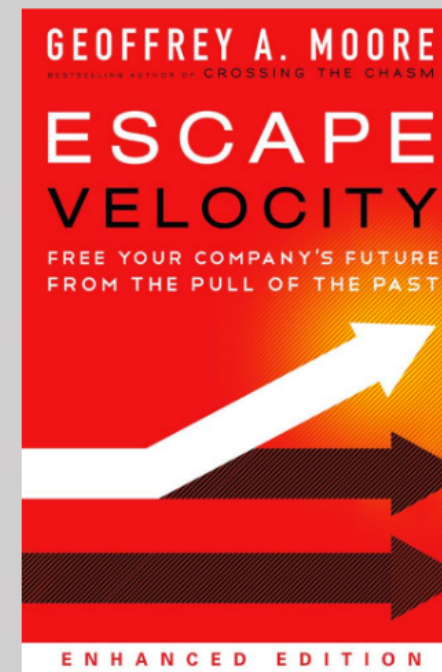
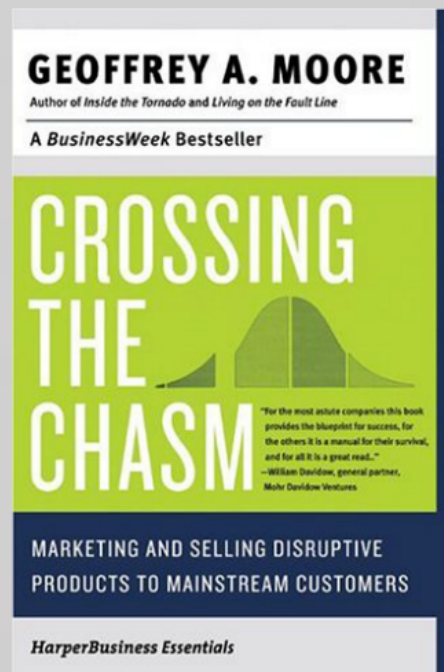
Technology Adoption Life Cycle





[Source: Chasm Institute]

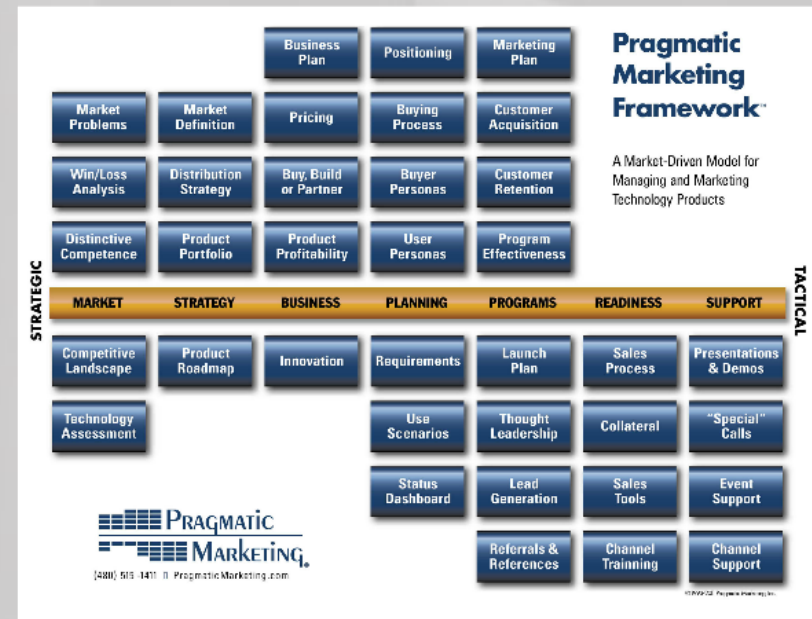
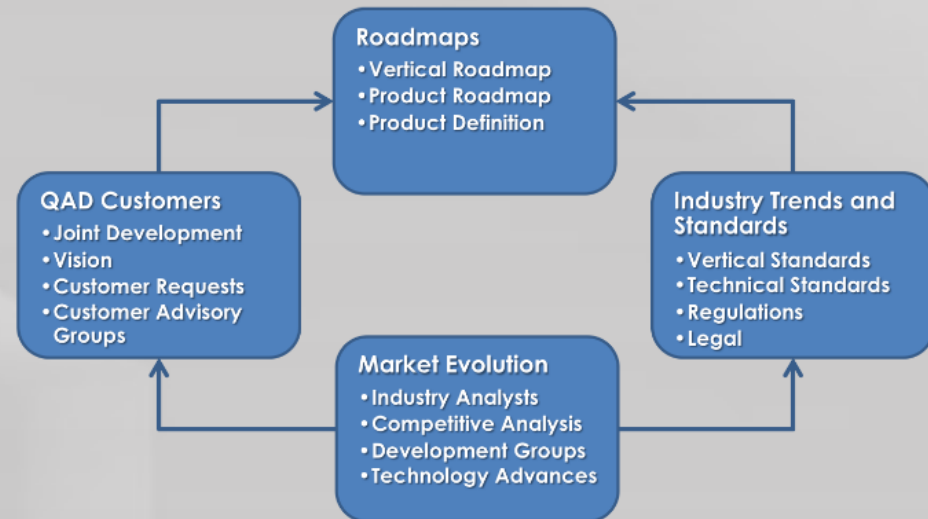
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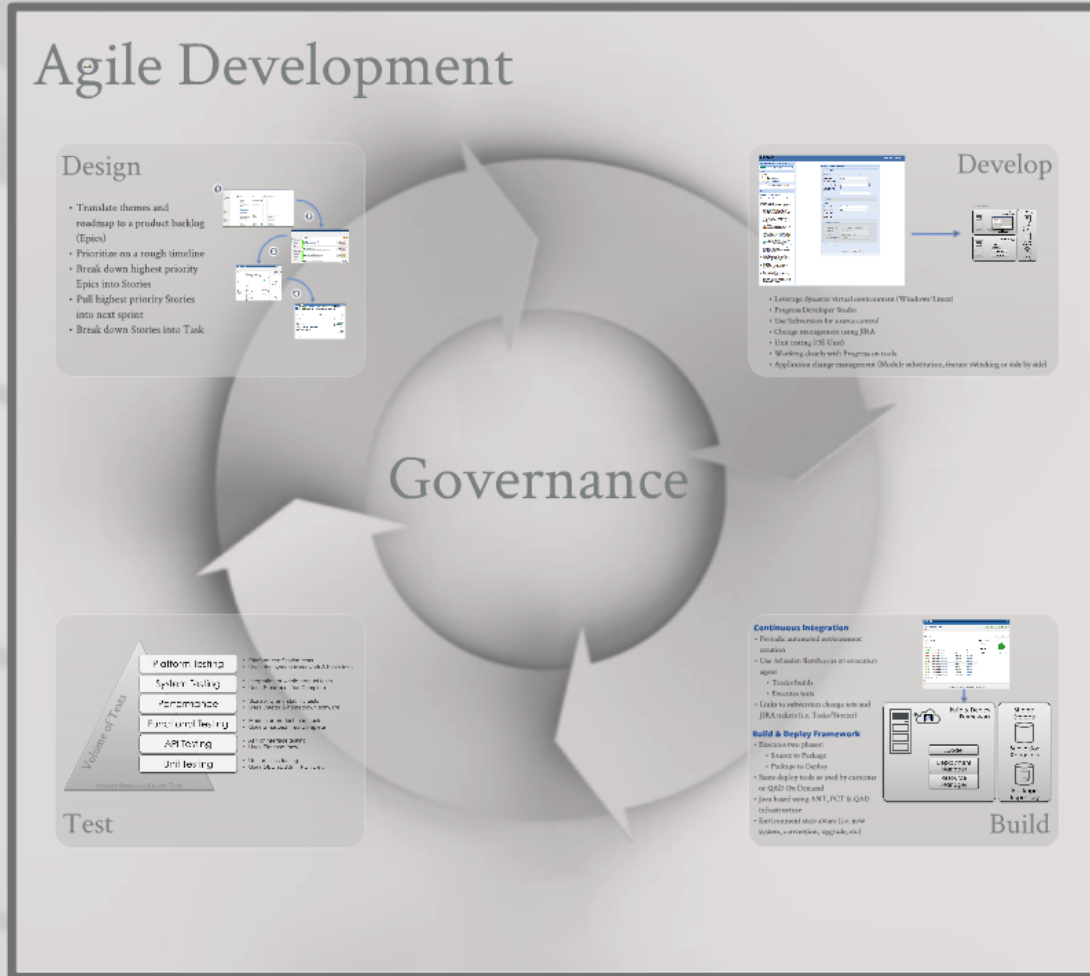
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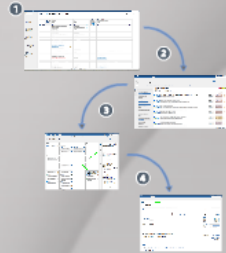
Quick lesson in Scrum



Agile Development

Design

- Translate themes and roadmap to a product backlog (Epics)
- Prioritize on a rough timeline
- Break down highest priority Epics into Stories
- Pull highest priority Stories into next sprint
- Break down Stories into Task



Develop



- Leverage dynamic virtual environment (Windows/Linux)
- Progress Developer Studio
- Use Subversion for source control
- Change management using JIRA
- Unit testing (OE Unit)
- Working closely with Progress on tools
- Application change management (Module substitution, feature switching or side by side)

Governance

Test

Volume of Tests

Platform Testing	<ul style="list-style-type: none"> • Platform optimization suite • User Deployment Framework & tools suite
System Testing	<ul style="list-style-type: none"> • Integration or other standard tests • User Enrollment Test Complete
Performance	<ul style="list-style-type: none"> • Scalability and load tests • User Jmeter & homegrown engines
Functional Testing	<ul style="list-style-type: none"> • WebUI or product team tests • User Smartbear TestComplete
API Testing	<ul style="list-style-type: none"> • API or interface testing • User Finestra (com)
Unit Testing	<ul style="list-style-type: none"> • Unit or class testing • User OJUnit, JUnit, PMUnit, etc.

Atlassian Bamboo to Execute Tests

Build

Continuous Integration

- Periodic automated environment creation
- Use Atlassian Bamboo as an execution agent
 - Tracks builds
 - Executes tests
- Links to subversion change sets and JIRA tickets (i.e. Tasks/Stories)

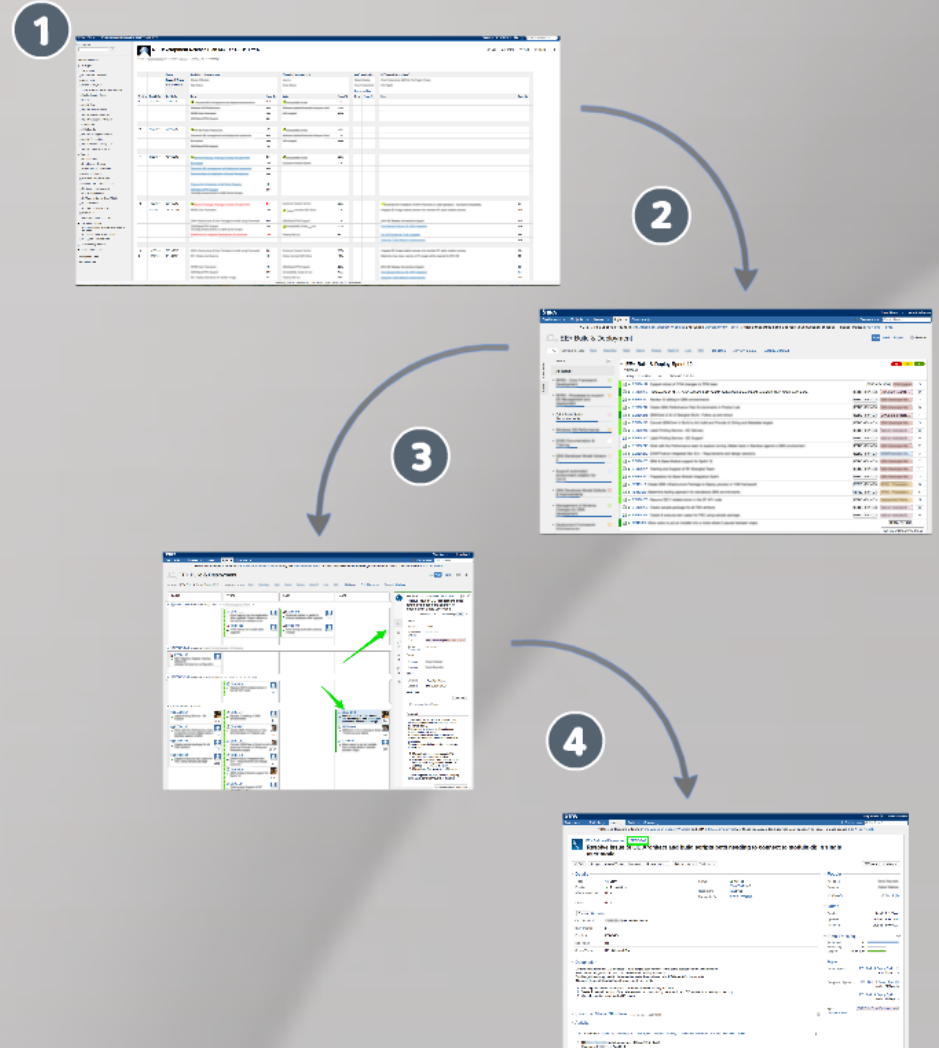
Build & Deploy Framework

- Executes two phases:
 - Source to Package
 - Package to Deploy
- Same deploy tools as used by customer or QAD On Demand
- Java based using ANT, PCT & QAD infrastructure
- Environment state aware (i.e. new system, conversion, upgrade, etc)

The diagram shows a 'Build & Deploy Framework' box containing 'Source to Package' and 'Package to Deploy' steps. It is connected to a 'Subversion Repository' and a 'Package Repository'. A 'Shared Storage' icon is also present.

Design

- Translate themes and roadmap to a product backlog (Epics)
- Prioritize on a rough timeline
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Backlog

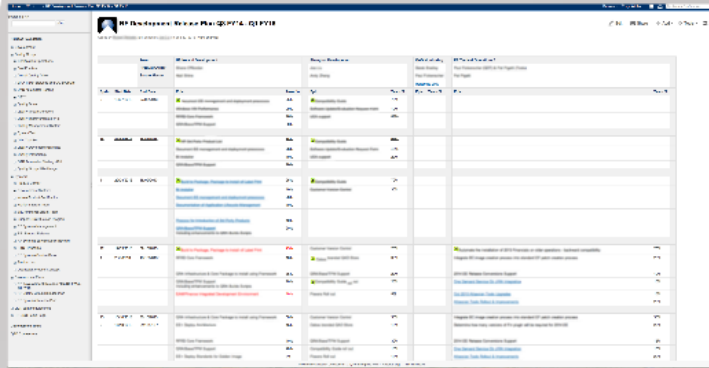
Timeline

Priority

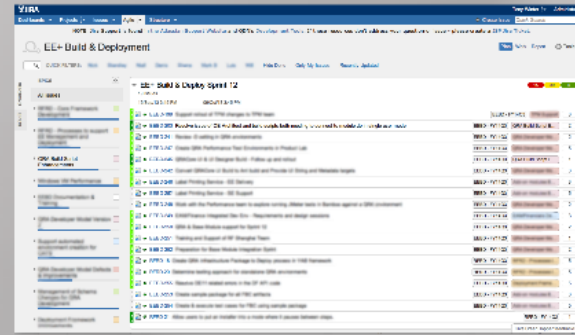
Stories

Task

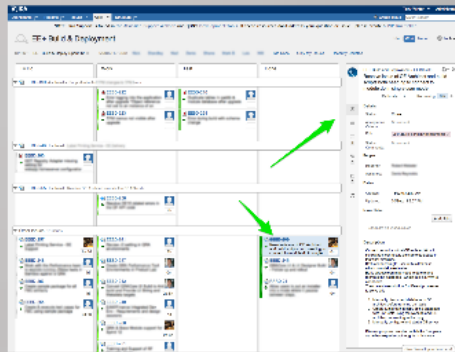
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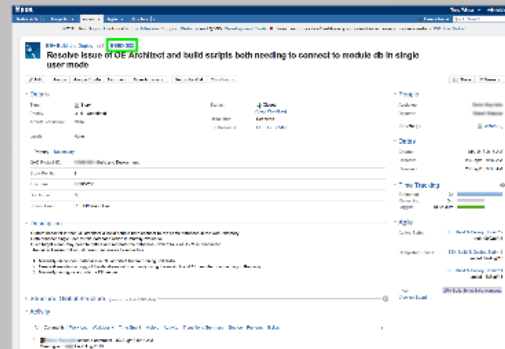
2



3



4



- Searching RF
-
- Release Foundation**
- Development
 - Quality Group
 - Certification Operations
 - Best Practice
 - Global Quality Drive
 - JIRA Ticket Statuses and QG Structure
 - QAD Automated Testing
 - CATS
 - Quality Drive
 - Quality Group Members
 - Quality Improvements FY13
 - Quality Management System
 - System Test
 - GTA Tool Set
 - Quality Development Metrics
 - Quality Partnership
 - QAD Automated Testing - Old
 - Quality Group JIRA Usage
 - Systems
 - Product Center
 - Development Systems
 - Whole Product Certification
 - Platform Scrum Team
 - Environments Scrum Team
 - Support - R&D Liaison Program
 - RF Systems Management
 - RF - Product Release
 - RF Systems Service Desk (rfshelp)
 - R&D - Presales
 - RF Systems Service Desk
 - Product Lab
 - Openstack Proof of Concept
 - Development Plans
 - RF Development Release Plan Q3 FY14 - Q1 FY15
 - RF Quality Group Release Plan
 - RF Systems Release Plan
 - QDN content guidelines
 - HP SSO Home Page
 - Development Tools
 - QAD Connectors

RF Development Release Plan Q3 FY14 - Q1 FY15

Added by [Robert Blawie](#) last edited by [jira](#) on Sep 30, 2013 ([view change](#))

[Edit](#) [Share](#) [Add](#) [Tools](#)

		Team	US/Ireland Development	Shanghai Development	QAD Monitoring	RF Tactical Operations *		
		Product Owner	Shane O'Rourke	Jim Liu	Desk Bradley	Paul Fikenscher (2017) & Pat Flynn (Pilot)		
		Scrum Master	Neil Stone	Andy Zhang	Paul Fikenscher	Pat Flynn		
					Roadmap Link			
Sprint	Start Date	End Date	Epic	Team %	Epic	Team %	Epic	Team %
9	18/07/2013	07/08/2013	<ul style="list-style-type: none"> Document EE management and deployment processes 25% Windows VM Performance 20% WFO Core Framework 25% QAD/Beaver/VM Support 30% 	<ul style="list-style-type: none"> 70% 10% 20% 				
10	08/08/2013	28/08/2013	<ul style="list-style-type: none"> Build JIRA Party Product List 50% Document EE management and deployment processes 20% Beaver 40% QAD/Beaver/VM Support 20% 	<ul style="list-style-type: none"> 70% 10% 20% 				
11	29/08/2013	18/09/2013	<ul style="list-style-type: none"> Build to Package: Package to install of Label Print 25% Beaver 40% Document EE management and deployment processes 20% Documentation of Application Lifecycle Management 40% Process for introduction of JIRA Party Products 40% QAD/Beaver/VM Support including enhancements to QAD Build Scripts 20% 	<ul style="list-style-type: none"> 70% 30% 				
12	19/09/2013	09/10/2013	<ul style="list-style-type: none"> Build to Package: Package to install of Label Print 25% WFO Core Framework 10% QAD Infrastructure & Core Package to install using Framework 35% QAD/Beaver/VM Support including enhancements to QAD Build Scripts 20% QAD/Beaver/VM Support including enhancements to QAD Build Scripts 10% 	<ul style="list-style-type: none"> 20% 30% 20% 25% 5% 		<ul style="list-style-type: none"> Automate the installation of 2013 Financials on older operations - backward compatibility 25% Integrate BC image creation process into standard EP patch creation process 20% 2014 EE Release Conventions Support 10% One Demand Service On JIRA Integration 10% Get 2013 Release Tools Upstream 15% Release Tools Refact & Improvements 20% 		
1	26/9/2013	16/10/2013	<ul style="list-style-type: none"> WFO Core Framework 10% QAD Infrastructure & Core Package to install using Framework 35% QAD/Beaver/VM Support including enhancements to QAD Build Scripts 20% QAD/Beaver/VM Support including enhancements to QAD Build Scripts 10% 	<ul style="list-style-type: none"> 30% 20% 25% 5% 		<ul style="list-style-type: none"> Integrate BC image creation process into standard EP patch creation process 30% Determine how many versions of Fw plugin will be required for 2014 EE 20% 2014 EE Release Conventions Support 15% One Demand Service On JIRA Integration 10% Release Tools Refact & Improvements 20% 		
13	10/10/2013	30/10/2013	<ul style="list-style-type: none"> QAD Infrastructure & Core Package to install using Framework 50% EE+ Deploy Architecture 15% WFO Core Framework 10% QAD/Beaver/VM Support 20% EE+ Deploy Standards for Golden Image 5% 	<ul style="list-style-type: none"> 30% 15% 30% 10% 15% 		<ul style="list-style-type: none"> Integrate BC image creation process into standard EP patch creation process 30% Determine how many versions of Fw plugin will be required for 2014 EE 20% 2014 EE Release Conventions Support 15% One Demand Service On JIRA Integration 10% Release Tools Refact & Improvements 20% 		
2	17/10/2013	6/11/2013	<ul style="list-style-type: none"> WFO Core Framework 10% QAD/Beaver/VM Support 20% EE+ Deploy Standards for Golden Image 5% 	<ul style="list-style-type: none"> 30% 10% 15% 		<ul style="list-style-type: none"> 2014 EE Release Conventions Support 15% One Demand Service On JIRA Integration 10% Release Tools Refact & Improvements 20% 		



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EE+ Build & Deployment

Plan Work Report Tools

QUICK FILTERS: Hide Done Only My Issues Recently Updated

- EPICS
 - All issues
 - EPIC - Core Framework Development
 - EPIC - Processes to support EE Management and Deployment
 - EPIC - QRA Build Script Enhancements
 - EPIC - Windows VM Performance
 - EPIC - EPIC Documentation & Training
 - EPIC - QRA Developer Model Version 2
 - EPIC - Support automated environment creation for QRA
 - EPIC - QRA Developer Model Defaults & Improvements
 - EPIC - Management of Schema Changes for QRA Development
 - EPIC - Deployment Framework Improvements

EE+ Build & Deploy Sprint 12

19 issues
19/Sep/13 3:45 PM — 09/Oct/13 3:45 PM

15 39 4

EEBD-199	Support rollout of TPA changes to TPA team	EEBD - FY14Q3	TPA Support	3
EEBD-203	Resolve issue of OE Architect and build scripts both needing to connect to module db in single user mode	EEBD - FY14Q3	QRA Build Script E...	2
EEBD-241	Review CI setting in QRA environments	EEBD - FY14Q3	QRA Developer M...	2
EEBD-247	Create QRA Performance Test Environments in Product Lab	EEBD - FY14Q3	QRA Developer M...	5
EEBD-246	QRA Core UI & UI Designer Build - Follow up and rollout	EEBD - FY14Q3	QRA Build Script E...	1
EEBD-242	Convert QRA Core UI Build to Ant build and Provide UI String and Metadata targets	EEBD - FY14Q3	QRA Developer M...	3
EEBD-246	Label Printing Service - EE Delivery	EEBD - FY14Q3	Add-on Module S...	3
EEBD-257	Label Printing Service - EE Support	EEBD - FY14Q3	Add-on Module S...	5
EEBD-248	Work with the Performance team to explore running JMeter tests in Sandbox against a QRA environment	EEBD - FY14Q3	QRA Developer M...	2
EEBD-249	EMMFinance Integrated Dev Env - Requirements and design sessions	EEBD - FY14Q3	EMMFinance De...	3
EEBD-250	QRA & Base Module support for Sprint 12	EEBD - FY14Q3	QRA Developer M...	2
EEBD-251	Training and Support of WF Shanghai Team	EEBD - FY14Q3	QRA Developer M...	1
EEBD-252	Preparation for Base Module Integration Sprint	EEBD - FY14Q3	QRA Developer M...	2
RFRD-18	Create QRA Infrastructure Package to Deploy process in TPA framework	RFRD - FY14Q3	EPIC - Processes	5
RFRD-20	Determine testing approach for standalone QRA environments	RFRD - FY14Q3	EPIC - Processes	5
EEBD-255	Resolve EE11 related errors in the DF API code	EEBD - FY14Q3	Deployment Fram...	5
EEBD-253	Create sample package for all TBC artifacts	EEBD - FY14Q3	Add-on Module S...	3
EEBD-254	Create & execute test cases for TBC using sample package	EEBD - FY14Q3	Add-on Module S...	5
RFRD-24	Allow users to put an installer into a mode where it pauses between steps.	RFRD - FY14Q2		1

Give GreenHopper feedback!

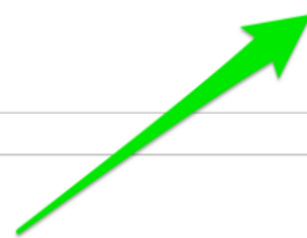
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EE+ Build & Deployment

Plan Work Report Tools

SPRINT: EE+ Build & Deploy Sprint 12 QUICK FILTERS: Hide Done Only My Issues Recently Updated

To Do	Work	Test	Done
<p>EEBD-199 4 sub-tasks Support rollout of 17th changes to 17th team</p>			
	<p>EEBD-222 Error logging into the application after upgrade. Users reference not set in an instance of an</p> <p>EEBD-223 17th release not visible after upgrade</p>	<p>EEBD-216 Duplicate entries in build & release database after upgrade</p> <p>EEBD-224 Error during build with schema change</p>	
<p>EEBD-246 1 sub-task Latest Printing Service - Q2 Delivery</p>			
	<p>EEBD-260 Q2 Printing Adapter missing settings for printing performance configuration</p>		
<p>EEBD-255 1 sub-task Resolve OE11 related errors in the DF API code</p>			
	<p>EEBD-258 Resolve OE11 related errors in the DF API code 4h</p>		
<p>Other Issues 16 issues</p>			
<p>EEBD-257 Latest Printing Service - Q2 Support 1w 1d</p> <p>EEBD-248 Work with the Performance team to create testing plans for Service Agents & Q2s 1d</p> <p>EEBD-253 Create sample package for all 17th releases 4d</p> <p>EEBD-254 Create & execute test cases for 17th using sample package 3d 3h</p>	<p>EEBD-241 Review Q2 settings in Q2s environments 7h</p> <p>EEBD-247 Create Q2s Performance Test Environments in Product Lab 0m</p> <p>EEBD-242 Convert Q2s Case ID Build to API build and provide of string and database targets 2d 6h</p> <p>EEBD-249 Q2s Release Integrated Dev Env - Requirements and Design Review 4d</p> <p>EEBD-250 Q2s & Q2s Module support for Sprint 12 2d 6h</p> <p>EEBD-251 Training and Support of 17th Development Team</p>	<p>EEBD-203 Resolve issue of OE Architect and build scripts both needing to connect to module db in single 0m</p> <p>EEBD-245 Q2s Release of Q2 Developer Build - Troubleshoot and roll out 0m</p> <p>RFRD-24 Allow users to not see installer when a build which 1 person cannot access logs 0m</p>	



EE+ Build and Deployment / EEBD-203

Resolve issue of OE Architect and build scripts both needing to connect to module db in single user mode

Estimate: 2 Remaining: 0m

Details

Status: Closed

Acceptance Criteria: No content

Epic: QRA Build Script Enhancements x

Status: No content

Comments: 4

People

Reporter: Robert Moore

Assignee: Dave Reynolds

Dates

Created: 18/Jul/13 2:17 AM

Updated: 20/Sep/13 9:07 AM

Issue Links

Add Link

There are no linked issues

Description

Current behavior is that OE architect & build scripts both connect to the same database in the work directory. Both connect single user to this database which is mutually exclusive. Build target clean may need to delete and recreate the database - which fails as AVM is connected. The current users follow 3 different processes to solve this

1. Manually disconnect database in OE architect before running unit tests
2. Create & maintain a copy of the database with unit tests using the work db and OE architect connecting to the copy
3. Manually configure and start a DB server

Discuss proposed solution with Mike Dempsey as he has experience/thoughts in this area.

Give GreenHopper feedback!

NOTE: Jira Support is found in the [Atlassian Support Website](#) and [QDN's Development Tools](#). If these resources don't address your question or issue - please create a [JSP Jira Ticket](#).



EE+ Build and Deployment **EEBD-203**

Resolve issue of OE Architect and build scripts both needing to connect to module db in single user mode

[Edit](#) [Assign](#) [Assign To Me](#) [Comment](#) [More Actions](#) [Return to Work](#) [Workflow](#)

[Share](#) [Views](#)

Details

Type:	Story	Status:	Closed (View Workflow)
Priority:	6 - Undefined	Resolution:	Resolved
Affects Version/s:	None	Fix Version/s:	EEBD - FY14Q3
Labels:	None		

Primary Secondary

QAD Project ID: EE+ Build and Deployment

Story Points: 2

Epic Link: EEBD-200

Doc Impact: No

Scrum Team: RF US/Ireland Dev

People

Assignee: [Derek Reynolds](#)
 Reporter: [Robert Walker](#)
 Vote (0) Watch (2)

Dates

Created: 18/Jul/13 2:17 AM
 Updated: 20/Sep/13 9:07 AM
 Resolved: 20/Sep/13 9:00 AM

Time Tracking

Estimated: 3d
 Remaining: 0m
 Logged: 1d 6h 30m

Agile

Active Sprint: [EE+ Build & Deploy Sprint 12](#)
 ends 09/Oct/13
 Completed Sprints: [EE+ Build & Deploy Sprint 9](#)
 ended 07/Aug/13
[EE+ Build & Deploy Sprint 11](#)
 ended 18/Sep/13

Epic: [QRA Build Script Enhancements](#)
[View on Board](#)

Description

Current behavior is that OE architect & build scripts both connect to the same database in the work directory. Both connect single user to this database which is mutually exclusive. Build target clean may need to delete and recreate the database - which fails as AVM is connected. The current users follow 3 different processes to solve this

1. Manually disconnect database in OE architect before running unit tests
2. Create & maintain a copy of the database with unit tests using the work db and OE architect connecting to the copy
3. Manually configure and start a DB server

Structure: [Global Structure](#) (does not include EEBD-203)

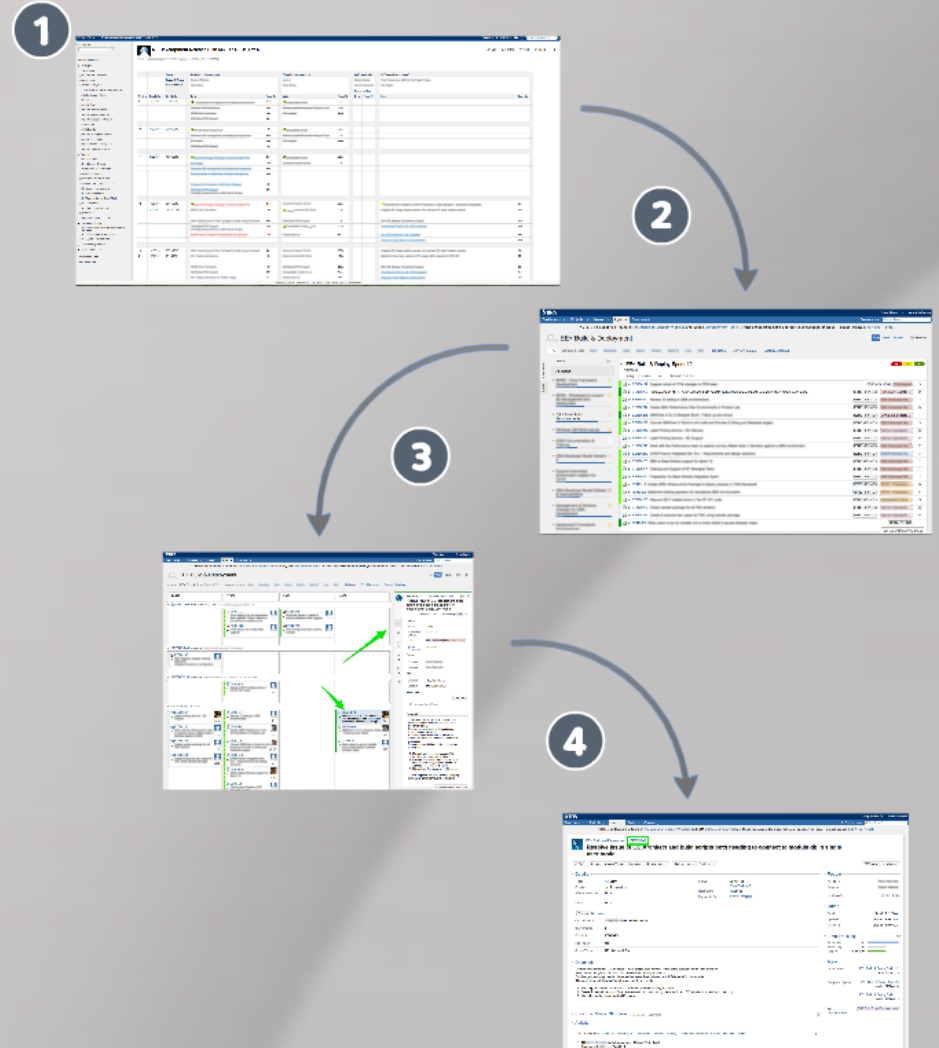
Activity

All [Comments](#) [Work Log](#) [Worklogs +](#) [Time Spent](#) [History](#) [Activity](#) [Transitions Summary](#) [Source](#) [Reviews](#) [Builds](#)

[Derek Reynolds](#) added a comment - 02/Aug/13 5:13 AM
 Meeting with [mrad](#) Fri 2 Aug 2013.

Design

- Translate themes and roadmap to a product backlog (Epics)
- Prioritize on a rough timeline
- Break down highest priority Epics into Stories
- Pull highest priority Stories into next sprint
- Break down Stories into Task



QAD
Our Passion. Your Advantage

User: tww Logout

tww - Overall Sandbox Quota Usage
3.34GB/20GB

Menu
 Setup
 Management
 Public Environments
 Private Environments
 New Private Environment
 Use Existing private Environment

Quick Help
 New Private Environment
 Here you will be able to create a new Private Environment.

Available Options:

- Host Name:** Select the host name to use for the new Private Environment. Depending on your maximum number of allowed environments, it might be possible that you have no available host names (for example, if your max number of servers is two and you already have two servers available). In this case, the list will be empty and you won't be able to create a new environment.
- Durations:** Selects the number of hours to schedule your Private Environment Reservation. Maximum reservation time can be found by scrolling through the available options. Please note that the reservation may not be able to use this setting if you select a value larger than the maximum allowed by the system. The maximum depends on the next scheduled maintenance downtime. The reservation may be made with the system's proposed length. For example, if a 10 hour reservation is requested, and maintenance is scheduled in 4 hours, a 3 hour reservation may be scheduled. Always review the confirmation email to see the allocated reservation duration.
- Release:** Selects the release to use when creating your Private Environment.
- Subversion Branch:** Selects the branch from where the code will be checked out.
- Subversion Repository:** Selects the Repository from where the code will be checked out.
- Subversion URL:** Selects the URL to access the Subversion Repository.
- User Custom Path:** Selects the path that will be added to your Private Environment's PROPATH.
- Work Area:** Selects the path where the Private Environment code will be checked out.
- Work Area Link:** Selects the path of the Symbolik Link to be created pointing to your Work Area directory.

Create new Private Environment

General Options
 Host Type: Windows Linux
 Host Name: vmbww01
 Duration (days): 0
 Duration (hours): 9
 Send Me Build Completion email:
 Also Send Email To:

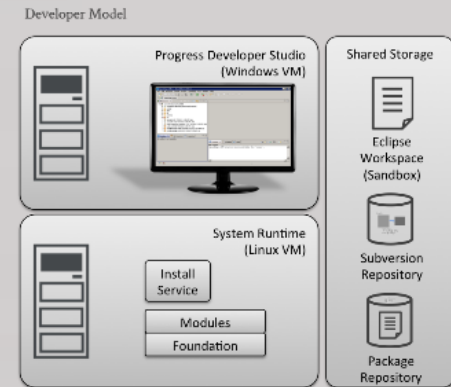
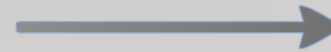
Windows
 Linux
 Use code from: Select Code Source
 Use data from: QMI
 Install Vertex:
 Install QXTend:

Subversion Options
 Subversion URL: http://subversion.qad.com/svn
 Repository: test_repository
 Branch: branches/maint_93
 Build Configuration: (default)

Directory Options

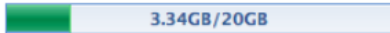
Submit Reset

Develop



- Leverage dynamic virtual environment (Windows/Linux)
- Progress Developer Studio
- Use Subversion for source control
- Change management using JIRA
- Unit testing (OE Unit)
- Working closely with Progress on tools
- Application change management (Module substitution, feature switching or side by side)

tww - Overall Sandbox Quota Usage



Menu

- Setup
- ▾ Management
 - Public Environments
 - ▾ Private Environments
 - ▢ New Private Environment
 - Use Existing private Environment

Quick Help

New Private Environment

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- **Work Area Link:** Selects the path of the Symbolik Link to be created pointing to your Work Area directory.

Create new Private Environment

General Options

Host Type: Windows Linux

Host Name:

Duration (days):

Duration (hours):

Send Me Build Completion email:

Also Send Email To:

Windows

Linux

Use code from:

Use data from:

Install Vertex:

Install QXtend:

Subversion Options

Subversion URL:

Repository:

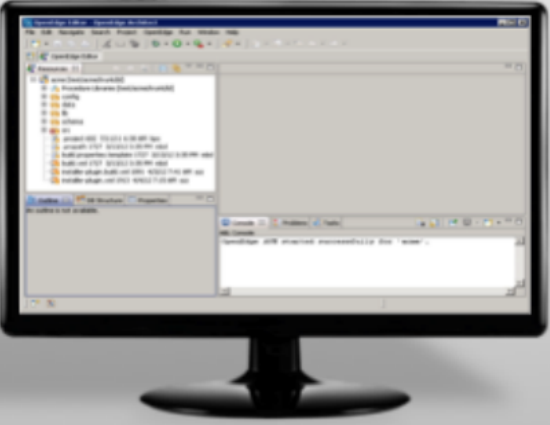

Branch:

Build Configuration:


Directory Options

Developer Model

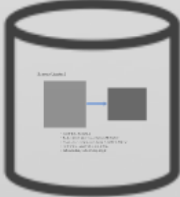
Progress Developer Studio
(Windows VM)




Shared Storage



Eclipse
Workspace
(Sandbox)




Subversion
Repository



Package
Repository

System Runtime
(Linux VM)



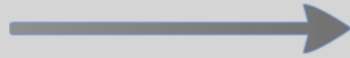
Install
Service

Modules

Foundation

Source Control

The screenshot shows a JIRA ticket titled "Update Standard BL Services" under the project "EE+ Base Module / BASE-403 Item Inventory Data with Validators / BASE-490". The ticket is a "Story Task" with a priority of "6 - Undefined". It is assigned to "Limerick" and has a fix version of "Mar2014". The ticket is currently in the "Wkr" (Work) state. The description is "Click to add description". The activity log shows two commits: one to trunk in QADModule (5 files) on 23/Sep/13 at 2:47 AM, and another to trunk in QADModule (2 files) on 23/Sep/13 at 3:16 AM. Both commits are for the task "Update Standard BL Services".



The screenshot shows a code review interface for the file "CurrencyDataObject.cls". The file tree on the left shows the project structure, including "CurrencyDataObject.cls" under "CurrencyData". The code diff on the right shows changes to the file, with line numbers 1 through 41. The code includes comments and Java-like syntax for a class implementation.

- Commits to Subversion
- Each commit linked to an Atlassian JIRA ticket
- Create code review using Atlassian Crucible & Fisheye
- Code review issues link to new tickets
- Full traceability back to Story & Epic

NOTE: Jira Support is found in the Atlassian Support Website and QDN's Development Tools. If these resources don't address your question or issue - please create a JSP Jira Ticket.



EE+ Base Module / BASE-403 Item Inventory Data with Validations / BASE-490

Update Standard BL Services

Edit Assign Assign To Me Comment More Actions Code Review Return Work to New Workflow Share Views

Details

Type: Story task
 Priority: 6 - Undefined
 Affects Version/s: None
 Labels: None
 QAD Project ID: 11073 QRA Base Module Implementation
 Epic Link: BASE-1
 Doc Impact: No

Status: Work (View Workflow)
 Resolution: Unresolved
 Fix Version/s: Mar2014

People

Assignee:
 Reporter:
 Vote (0) Watch (1)

Dates

Created: 17/Sep/13 8:25 PM
 Updated: Sunday 5:42 PM

Description

Click to add description

Structure: QRA Base Module

Key	Summary	Progress	Sprint	TP	Status	Σ Time Spent
BASE-1	ITEMS AND SITES	<div style="width: 100%;"></div>			New	30w 1d
BASE-403	Item Inventory Data with V	<div style="width: 100%;"></div>	Sprint 8		Test	1w 3d 7h 30m
BASE-490	Update Standard BL	<div style="width: 100%;"></div>	Sprint 8		Work	1d 6h

Showing 3 issues

Time Tracking

Include sub-issues
 Σ Estimated: 1d 4h
 Σ Remaining: 0m
 Σ Logged: 1d 6h

Activity

All Comments Work Log Worklogs + Time Spent History Activity Transitions Summary Source Reviews

Builds

Create crucible review for all 21 changesets

submitted changeset 1609 to trunk in QADModule (5 files) - 23/Sep/13 2:47 AM

CRU-BASE-58

BASE-490: Update Standard BL Services

- base/trunk/bl/src/impl/com/qad/base/item/Site.cls (+2 -2)
- base/trunk/bl/src/impl/com/qad/base/item/SiteBS.cls (+2 -2)
- base/trunk/bl/src/impl/com/qad/base/item/SiteBE.cls (+1 -1)
- base/trunk/bl/src/api/com/qad/base/item/Site.cls (+1 -1)
- base/trunk/bl/src/api/com/qad/base/BaseMessageKey.cls (+2 -0)

submitted changeset 1610 to trunk in QADModule (2 files) - 23/Sep/13 3:16 AM

CRU-BASE-58

BASE-490: Update Standard BL Services

- base/trunk/bl/src/impl/com/qad/base/item/ItemBE.cls (+142 -4)
- base/trunk/bl/src/test/com/qad/base/item/ItemTest.cls (+3 -0)

Agile

Active Sprint: Sprint 8 ends 29/Sep/13

Epic: Items and Sites

View on Board

QADModule / base / trunk / bl / src / impl / com / qad / base / currency
CurrencyDataObject.cls

All trunk Select branch or tag

Activity Revisions Users Reports Source

1703 1703 Changeset Raw Annotation Highlighting Columns

- /base/
 - branches/
 - tags/
 - trunk/
 - autoScripts/BaseModule/
 - bl/
 - config/
 - data/
 - etc/
 - lib/
 - schema/
 - src/
 - api/
 - impl/com/qad/base/
 - GTM/
 - abc/
 - address/
 - attribute/
 - calendar/
 - coa/
 - code/
 - codes/
 - currency/
 - Currency.cls
 - CurrencyDA.cls
 - CurrencyDataObject.cls**
 - customer/
 - custsupp/
 - daybook/
 - dbcontrol/
 - domain/
 - exceptions/
 - item/
 - label/
 - nrm/
 - proxy/
 - resource/
 - session/
 - transaction/
 - wrapper/

Revision	Author	Line	Code
47	/*	1	/*
47	/*	2	* com.qad.base.currency.CurrencyDataObject - The implementation class for the ICurrencyDataObj
47	/*	3	*
47	/*	4	* Copyright 1986 QAD Inc. All rights reserved.
47	/*	5	*
1272	/*	6	* \$Id: CurrencyDataObject.cls 1703 2013-09-30 08:08:48Z zgc \$
47	/*	7	*/
47	/*	8	
47	/*	9	using com.qad.base.currency.ICurrencyDataObject.
47	/*	10	using com.qad.qra.query.DataObjectBase.
47	/*	11	using com.qad.qra.query.DataObjectMetaData.
1354	/*	12	using com.qad.qra.core.Utility.
47	/*	13	
47	/*	14	routine-level on error undo, throw.
47	/*	15	
1272	/*	16	class com.qad.base.currency.CurrencyDataObject inherits DataObjectBase implements ICurrencyData
47	/*	17	
47	/*	18	define private variable bufferCurrency as handle no-undo.
47	/*	19	define private variable bufferRoundingMethod as handle no-undo.
47	/*	20	
1272	/*	21	define override public property DataObjectFields as com.qad.qra.query.DataObjectMetaData no-u
47	/*	22	get:
47	/*	23	define variable currencyMetaData as DataObjectMetaData no-undo.
1341	/*	24	
1272	/*	25	currencyMetaData = new DataObjectMetaData(
47	/*	26	"CurrencyCode,character," +
47	/*	27	"CurrencyID,integer," +
47	/*	28	"CurrencyDecimalDescription,character," +
47	/*	29	"CurrencyDescription,character," +
47	/*	30	"CurrencyIsActive,logical," +
47	/*	31	"CurrencyNumberOfDecimals,integer," +
47	/*	32	"RoundingMethodCode,character," +
47	/*	33	"RoundingMethodDescription,character," +
47	/*	34	"RoundingMethodUnit,decimal" +
47	/*	35	"RoundingMethodThreshold,decimal" +
47	/*	36	"LastModifiedDate,date," +
47	/*	37	"LastModifiedTime,integer," +
47	/*	38	"LastModifiedUser,character").
47	/*	39	return currencyMetaData.
47	/*	40	end get.
47	/*	41	
47	/*	42	define public property CurrencyCode as character no-undo
47	/*	43	get:
47	/*	44	if UseDBbuffer then return bufferCurrency::CurrencyCode .



Package
Repository

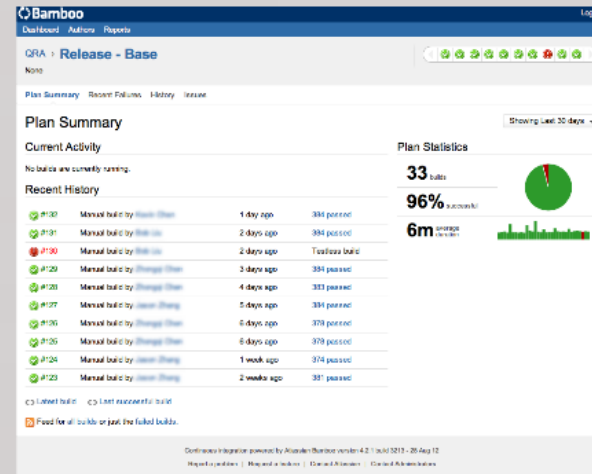
Packages



- QAD standard for encapsulating software
- Smallest unit of software
- Contains all artifacts for a module/product
- Identified by name & version
- Meta data describing:
 - Identity, description, source, type, dependencies & compatibility
- Technology and content agnostic
- Immutable - never changing once created

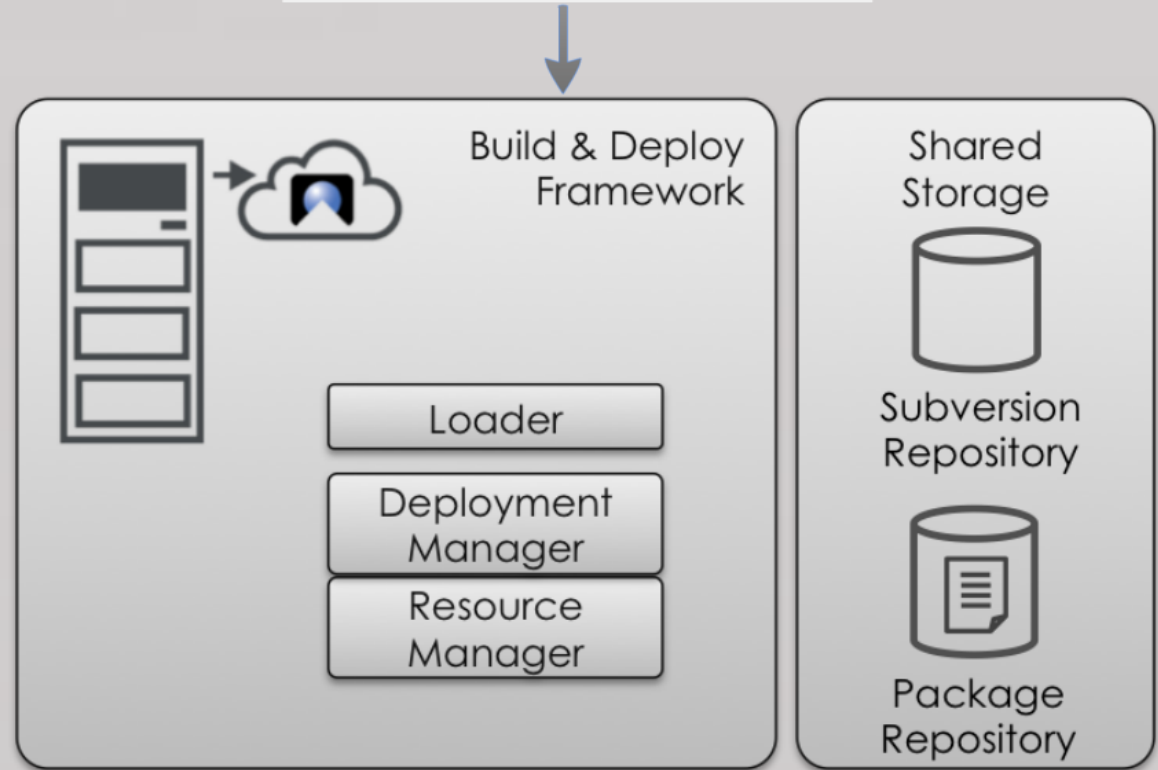
Continuous Integration

- Periodic automated environment creation
- Use Atlassian Bamboo as an execution agent
 - Tracks builds
 - Executes tests
- Links to subversion change sets and JIRA tickets (i.e. Tasks/Stories)



Build & Deploy Framework

- Executes two phases:
 - Source to Package
 - Package to Deploy
- Same deploy tools as used by customer or QAD On Demand
- Java based using ANT, PCT & QAD infrastructure
- Environment state aware (i.e. new system, conversion, upgrade, etc)



Build

QRA > Release - Base

None



Plan Summary Recent Failures History Issues

Plan Summary

Showing Last 30 days

Current Activity

No builds are currently running.

Recent History

✔ #132	Manual build by Kevin Chen	1 day ago	384 passed
✔ #131	Manual build by Bibi Liu	2 days ago	384 passed
! #130	Manual build by Bibi Liu	2 days ago	Testless build
✔ #129	Manual build by Zhengyi Chen	3 days ago	384 passed
✔ #128	Manual build by Zhengyi Chen	4 days ago	383 passed
✔ #127	Manual build by Jian Zhang	5 days ago	384 passed
✔ #126	Manual build by Zhengyi Chen	6 days ago	378 passed
✔ #125	Manual build by Zhengyi Chen	6 days ago	378 passed
✔ #124	Manual build by Jian Zhang	1 week ago	374 passed
✔ #123	Manual build by Jian Zhang	2 weeks ago	381 passed

↶ Latest build ↷ Last successful build

📡 Feed for all builds or just the failed builds.

Plan Statistics

33 builds

96% successful

6m average duration



Volume of Tests

Platform Testing

- Platform certification tests
- Uses deployment framework & basic tests

System Testing

- Integration or whole product tests
- Uses Smartbear TestComplete

Performance

- Scalability and stability tests
- Uses Jmeter & homegrown software

Functional Testing

- Module or product team tests
- Uses Smartbear TestComplete

API Testing

- API or interface testing
- Uses Fitnesse (new)

Unit Testing

- Unit or class testing
- Uses OJUnit, JUnit, PUnit, etc

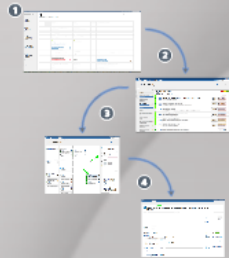
Atlassian Bamboo to Execute Tests

Test

Agile Development

Design

- Translate themes and roadmap to a product backlog (Epics)
- Prioritize on a rough timeline
- Break down highest priority Epics into Stories
- Pull highest priority Stories into next sprint
- Break down Stories into Task

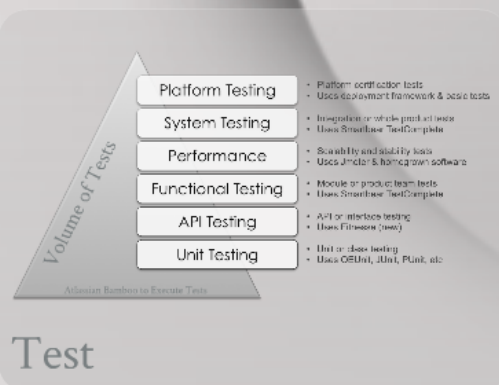


Develop



- Leverage dynamic virtual environment (Windows/Linux)
- Progress Developer Studio
- Use Subversion for source control
- Change management using JIRA
- Unit testing (OE Unit)
- Working closely with Progress on tools
- Application change management (Module substitution, feature switching or side by side)

Governance



Test

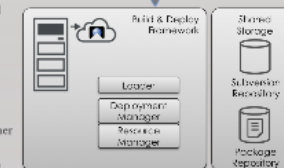
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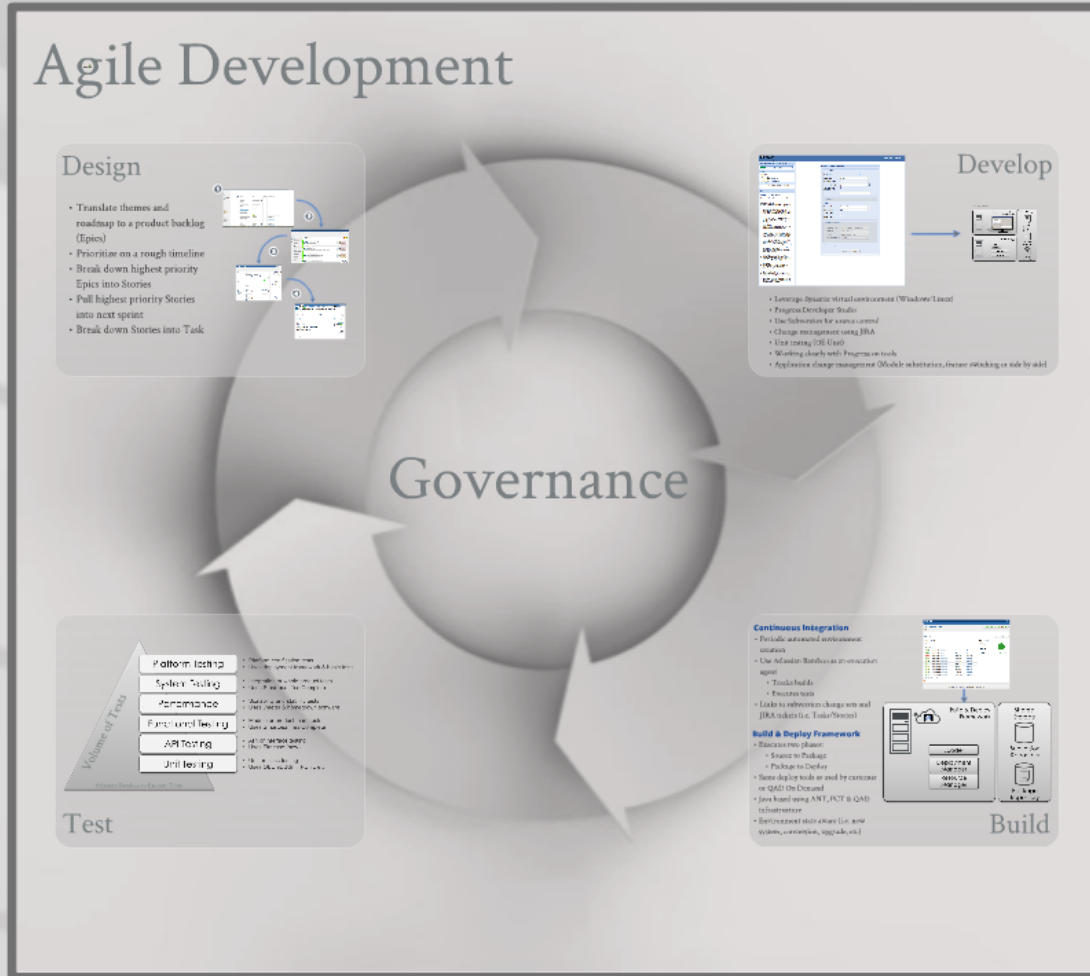
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- Same deploy tools as used by customer or QAD On Demand
- Java based using ANT, PCT & QAD infrastructure
- Environment state aware (i.e. new system, conversion, upgrade, etc)



Build

Development



Release

- Validate all tests have executed and quality levels met
- Complete project deliverables
- Publish packages to the QAD Store
- Notify relevant customers of new versions

1

QAD Store
SOFTWARE & SERVICES MARKETPLACE

Getting Started
Products
Process Maps
Analysis
Mobile
Intermodal
On Demand
Utilities
Customer Support
Partner Products
Software Request
Helpdesk
Private Feedback

QAD Store
Welcome to the QAD Store where you can browse all products, upgrades, and applications offered by QAD on the system.

Getting Started
Products
Process Maps
Analysis
Mobile
Intermodal
On Demand
Utilities
Customer Support
Partner Products
Software Request
Helpdesk
Private Feedback

2

QAD Store
SOFTWARE & SERVICES MARKETPLACE

Products
The products in the QAD Store are available for purchase and use on the system. They are organized into categories and sub-categories.

3

QAD Store
SOFTWARE & SERVICES MARKETPLACE

QAD Store > Products > Sample Pre-configured Role-based Dashboards - All

Getting Started
Products
Process Maps
Analysis
Mobile
Intermodal
On Demand
Utilities
Customer Support
Partner Products
Software Request
Helpdesk
Private Feedback

Sample Pre-configured Role-based Dashboards - All

Dashboards bring together timelines, web pages, business intelligence, and operational metrics within user-defined panels, providing key information at the fingertips and supporting The Objective Enterprise. For QAD 2013, QIC, as well as the QAD 10.00 customers with 2013 or earlier QIC, Sample Dashboards have been pre-configured for 20 instance user roles, including Business Relationship Center, Customer Service Manager, Shop Floor Controller, and 17 other roles—providing an outstanding role-based user experience.

You can use these pre-configured Dashboards as is or by simply adjusting the parameters according to the customer user process. You also can create and Dashboards for additional roles.

Related

Customer Relationship Management
Mobile Help Management
QAD Customer Management
QAD Process Maps
QAD
Manufacturing Management
QAD Store

Sample Pre-configured Role-based Dashboards - All

Category: All Products
Company: QAD Inc.
Released: 2013-09-26
Version: 1.0.0

Features

The sample Dashboards are bundled into three packages:

- Customer Management package: 7 dashboards
- Financials package: 4 dashboards
- Manufacturing package: 9 dashboards

The web-based dashboards are created as the standard for all downloads for the Customer Management, Financials, and Manufacturing Sample Dashboard packages. Using role-based dashboards all users are able to get the three packages and then follow the installation instructions for each package as described in the release notes for each package.

Copyright 2013, QAD Inc. Our Passion. Your Advantage.
2.0.0.7



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QAD Store

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QAD Store



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[Mobile](#)

[Internationalization](#)

[Interoperability](#)

[On Demand](#)

[Utilities](#)

[Customizations](#)

[Partner Products](#)

[Enhancement Requests](#)

[Software Request](#)

[Solutions](#)

[Provide Feedback](#)

QAD Store

Welcome to the QAD Store where you can browse all products, upgrades, and applications offered by QAD and its partners.



Getting Started



Products



Process Maps



Analytics



Mobile



Internationalization



Interoperability



On Demand



Utilities



Customizations



Partner Products



Solutions



Provide Feedback



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QAD Store

SOFTWARE & SERVICES MARKETPLACE

[QAD Store](#) > [Products](#)



[Getting Started](#)

Products

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[Software Request](#)

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Products

We've gathered the best minds in ERP and manufacturing to create a family of products that are optimized to equip global manufactured products companies with best-in-class solutions.

What's New

- Sample Pre-configured Role-based Dashboards - All
- QAD Manufacturing Sample Dashboards
- QAD Financials Sample Dashboards
- QAD Customer Management Sample Dashboards

Sort by [Relevance](#) Order [Asc](#)

- Planning and Scheduling Workbenches 3.2.4
- QAD Customer Management Sample Dashboards
- QAD Financials Sample Dashboards
- QAD Manufacturing Sample Dashboards
- Sample Pre-configured Role-based Dashboards - All
- QAD 2013.1 Enterprise Edition
- QAD On Demand: Full-Strength Cloud ERP for Manufacturing
- QAD 2013 Standard Edition
- Business Process Management (BPM)
- Cebos Enterprise Quality Management - MQ1
- Global Requisition System (GRS)
- QAD Advanced Pricing Management, Medical





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QAD Store

SOFTWARE & SERVICES MARKETPLACE

[QAD Store](#) > [Products](#) > [Sample Pre-configured Role-based Dashboards - All](#)



Getting Started

Products

Process Maps

Analytics

Mobile

Internationalization

Interoperability

On Demand

Utilities

Customizations

Partner Products

Enhancement Requests

Software Request

Solutions

Provide Feedback

Sample Pre-configured Role-based Dashboards - All

Dashboards bring together browses, web pages, business intelligence, and operational metrics within user-defined panels, providing key information at the fingertips and supporting The Effective Enterprise. For QAD 2013.1 EE, as well as for 2013 EE customers with .NET UI version 3.0.1, sample Dashboards have been pre-configured for 20 common ERP user roles - including Accounts Receivable Clerks, Customer Service Managers, Shop Floor Controllers, and 17 other roles - providing an outstanding role-based user experience.

You can use most pre-configured Dashboards as-is or by simply adjusting the parameters according to the companies' best practices. You also can easily add Dashboards for additional roles.



Sample Pre-configured Role-based Dashboards - All

[Employee Download](#)

Category: Analytics
Company: QAD Inc.
Released: 2013-09-26
Versions:

Related



Customer Management Reports and Browses Bundle 1.5 for Enterprise Edition



Mobile Item Enquiry Server by Pralo



QAD Customer Management Sample Dashboards



QAD Financials Sample Dashboards



QAD Manufacturing Sample Dashboards

Features Technical Details Useful Links

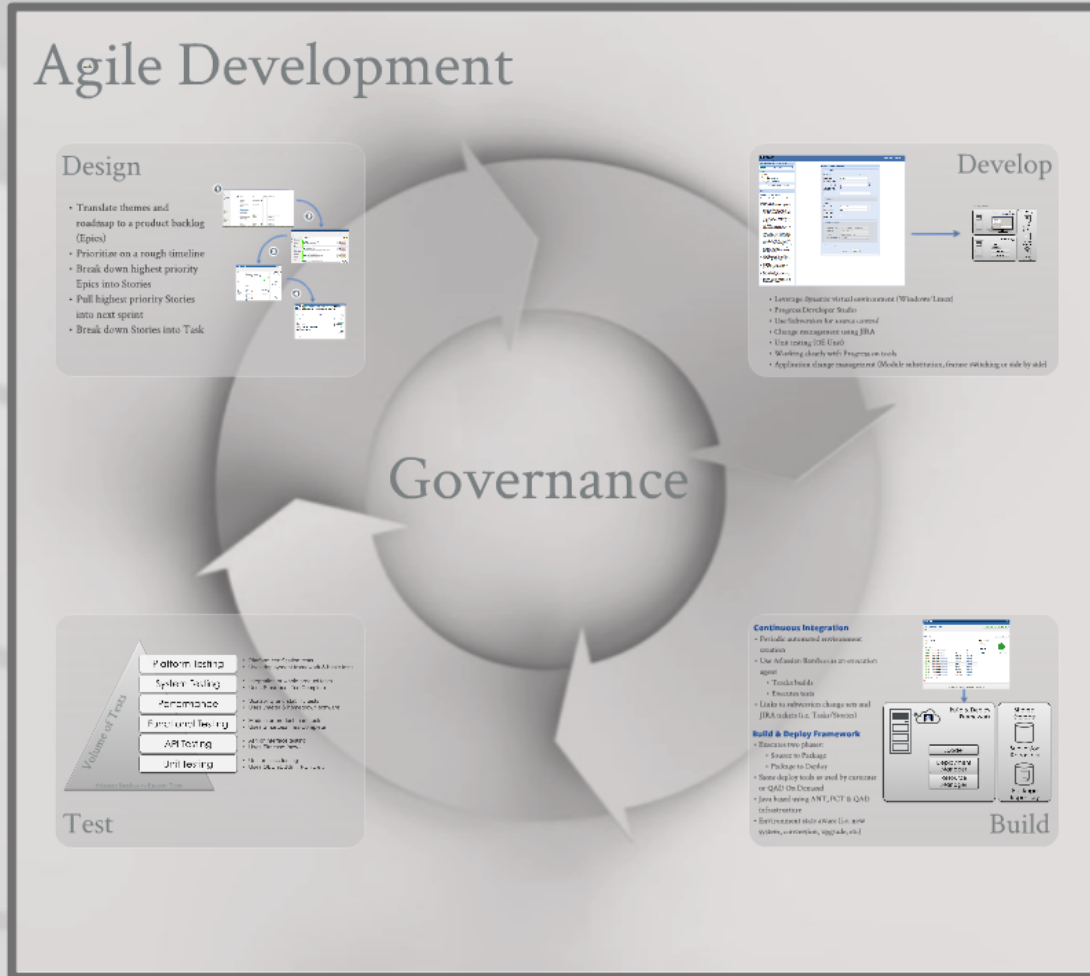
Features:

The sample Dashboards are bundled into three packages:

- Customer Management package: 7 dashboards
- Financials package: 4 dashboards
- Manufacturing package: 9 dashboards

The netui-module-dashboard-all-install.zip file contains the .zip downloads for the Customer Management, Financials, and Manufacturing Sample Dashboard packages. Unzip netui-module-dashboard-all-install.zip to get the three packages and then follow the installation instructions for each package as described in the release notes for each package.

Development



Operations

Released software management

Fulfillment

- QAD Store for all products
- Ecosystem (Partners/Customers)
- QAD Store leverages Amazon S3 for fulfillment
- Compatibility guide visualizes package meta data:
 - Evolve to a deployment configurator
 - Vision is to auto-deploy infrastructure and software



Build & Deploy Framework

- Same deploy tools as development and QA
- Java based using ANTL, PCT & QAD Infrastructure
- Environment size aware i.e. new system, conversion, upgrade, etc)
- Headless invocation for full automation
- Use package cache as catalog (once deploy)
- Resource manager oversees full environment configuration
- Intelligent upgrades



Deploy

Governance

QAD Enterprise System Management

- Browser base interface for distributed systems management (DevOps)
- Remote execution (deploy on site (ev/audit))
 - Chef
 - Puppet
 - RemoteX
 - Salt Stack
- System scripts and Java classes to perform tasks (Part of Build & Deploy Framework)
- APIs to support automation
- Full scale of change
 - WAN friendly
 - Secure



Manage

QAD Enterprise Monitoring

- Collection of OpenSource Infrastructure:
 - Zabbix
 - OpenEdge
 - Logstash
 - ElasticSearch
 - Kibana 3
- Monitoring, Alerting, Trending and Troubleshooting
- Future: Automated recovery
- QAD On Demand Production Only Stats
 - 1800 items tracked, graphed and trended
 - 30 to 130 days precise measurement
 - 360 to 720 days trending data
 - 700 items actively monitored for alerts, escalations and SLA measurement
 - 275 hours



Monitor

Fulfillment

- QAD Store for all products
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The image shows a sequence of three screenshots from the QAD Store website, illustrating the user journey:

- Screenshot 1:** The main QAD Store homepage. It features a navigation menu, a search bar, and a grid of product categories including QAD, QAD Cloud, QAD ERP, QAD CRM, QAD SCM, QAD HR, QAD BI, QAD Analytics, QAD Mobile, QAD Integration, QAD Cloud Services, QAD Cloud Managed, QAD Cloud Managed Services, and QAD Cloud Managed Solutions.
- Screenshot 2:** The QAD Store Compatibility Guide. It shows a search for 'QAD Cloud Managed' and displays a list of products and components. A table below shows compatibility information for various products and components.
- Screenshot 3:** A detailed product page for 'QAD Cloud Managed'. It shows the product details, including the product name, version, and a list of components. The page also includes a 'Buy' button and a 'Add to Cart' button.

Product	QAD 2013-EE	QAD 2014-EE	QAD Customer Self Service 2.2.2
OpenEdge 11.1	✓	✓	✓
OpenEdge 16.2B	✓	✓	✓
OpenEdge 16.2A	✗	✓	✓
OpenEdge 16.1C	✗	✓	✓



Search

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[Processes](#)

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[Support](#)

[Resources](#)

[About QAD](#)

QAD Store

SOFTWARE & SERVICES MARKETPLACE

QAD Store



[Getting Started](#)

[Products](#)

[Process Maps](#)

[Analytics](#)

[Mobile](#)

[Internationalization](#)

[Interoperability](#)

[On Demand](#)

[Utilities](#)

[Customizations](#)

[Partner Products](#)

[Enhancement Requests](#)

[Software Request](#)

[Solutions](#)

[Provide Feedback](#)

QAD Store

Welcome to the QAD Store where you can browse all products, upgrades, and applications offered by QAD and its partners.



Getting Started



Products



Process Maps



Analytics



Mobile



Internationalization



Interoperability



On Demand



Utilities



Customizations



Partner Products



Solutions



Provide Feedback



Search


[QAD Store](#) > [Compatibility Guide](#)

Compatibility Guide

[+ Add Server](#)

[Reset](#)

[Tools](#)

Base Product +	Products +	Components
 QAD Enterprise Edition QAD 2013-EE <input type="text"/> 1	QAD QXtend Inbound 1.8.3 <input type="text"/> 1	1 Server 1
	QAD Customer Self Service 5.2.2 <input type="text"/> 1	OpenEdge 11.1 RH Enterprise Linux 5 Advanc... 2 Server 2

█ Compatible
 █ Incompatible
 █ Incompatible with component
 ▲ Warning
 ⓘ Information
 ⚠ Notice
 C Customized

Compatibility Information Tables

OpenEdge	Operating System	Third Party Product	Language	Localization	Base Product
Add	OpenEdge				QAD 2013-EE QAD QXtend Inbound 1.8.3 QAD Customer Self Service 5.2.2
<input type="checkbox"/>	OpenEdge 11.1				✓ ✓ ✓
<input type="checkbox"/>	OpenEdge 10.2B				✓ ✓ ✓
<input type="checkbox"/>	OpenEdge 10.2A				✗ ✓ ✓
<input type="checkbox"/>	OpenEdge 10.1C				✗ ✓ ✓



- Philosophy
- Processes
- Solutions
- Industries
- Services
- Support
- Resources
- About QAD

QAD Store

SOFTWARE & SERVICES MARKETPLACE

QAD Store > wds

wds

Name: Don Springer

End User:

Company: QAD Inc. - Americas

History

File Downloads

Select to display your files grouped by Orders or Products

Orders

Date	Order #	Ordered By	Products
10/14/2010	7299	Willy Johnson	5
04/30/2010	7207	John Jones	1
04/27/2010	7204	Doug Nelson	7
02/12/2010	7150	David Cohen	2
02/19/2010	7127	David Cohen	1
06/30/2011	7124	John Jones	2
10/29/2010	7059	John Jones	4

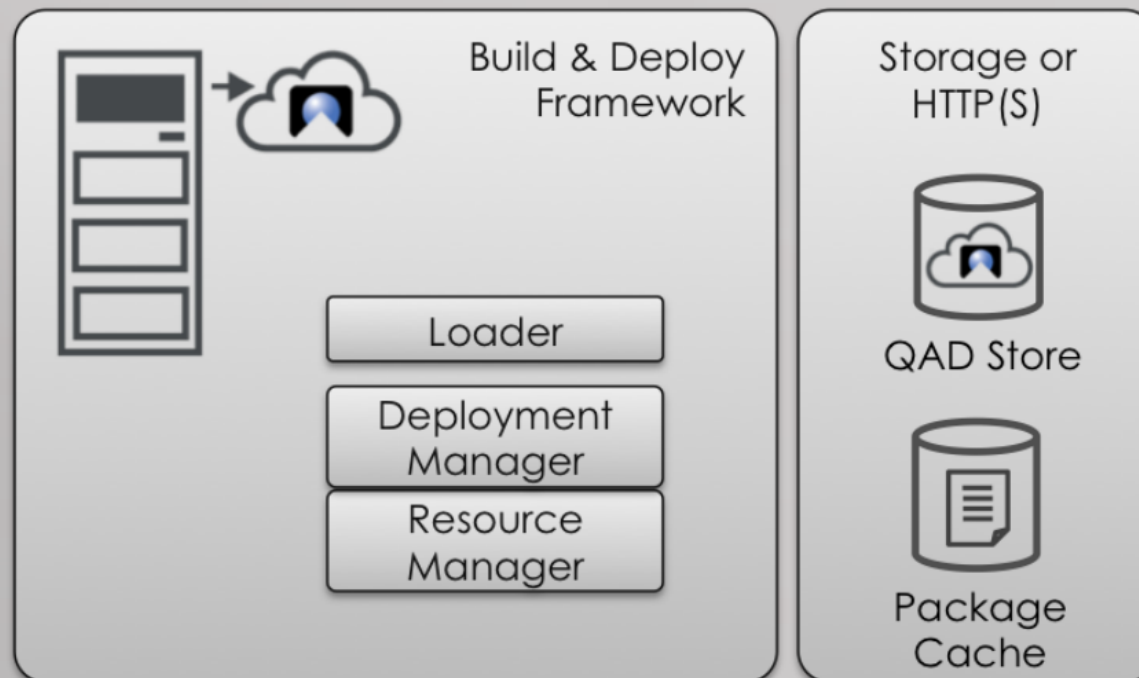
Qty	Product
1	Progress® OpenEdge® 10.2B Linux Intel 64-bit Progress® OpenEdge® 10.2B Linux X86 64-bit OpenEdge 10.2B Service Pack 06 OpenEdge 10.2B Service Pack 05 OpenEdge 10.2B Service Pack 04 OpenEdge 10.2B Service Pack 03 OpenEdge 10.2B Service Pack 02 OpenEdge 10.2B Service Pack 01 Web Services Adapter (WSA) WebSpeed Messenger SQL Client Access NameServer AppServer Internet Adapter (AIA) Adapter for Sonic ESB Supplemental PROMSGS Progress® WebClient™ OpenEdge 10.2B Service Pack 07
1	Progress® OpenEdge® 10.2B Windows 32-bit Progress® OpenEdge® 10.2B Windows 32-bit OpenEdge 10.2B Service Pack 06 OpenEdge 10.2B Service Pack 05

Filename	SQL Client Access	Downloads/Addresses
3741283-102b_sqlclientaccess_aix.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741293-102b_sqlclientaccess_aix04.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741303-102b_sqlclientaccess_hp32.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741313-102b_sqlclientaccess_hp64.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741323-102b_sqlclientaccess_hpia.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741333-102b_sqlclientaccess_linux32.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741343-102b_sqlclientaccess_linux64.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741353-102b_sqlclientaccess_linuxppc.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741363-102b_sqlclientaccess_nt.exe	SQL Client Access	0/Unlimited 1/Unlimited
3741373-102b_sqlclientaccess_nt64.exe	SQL Client Access	0/Unlimited 1/Unlimited
3741383-102b_sqlclientaccess_sol32.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741393-102b_sqlclientaccess_sol64.tar	SQL Client Access	0/Unlimited 1/Unlimited
3741403-102b_sqlclientaccess_unix.tar	SQL Client Access	0/Unlimited 1/Unlimited

Deploy

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- Same deploy tools as development and QA
- Java based using ANT, PCT & QAD infrastructure
- Environment state aware (i.e. new system, conversion, upgrade, etc)
- Headless invocation for full automation
- Use package cache as a catalog (zero deploy)
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- Intelligent upgrades

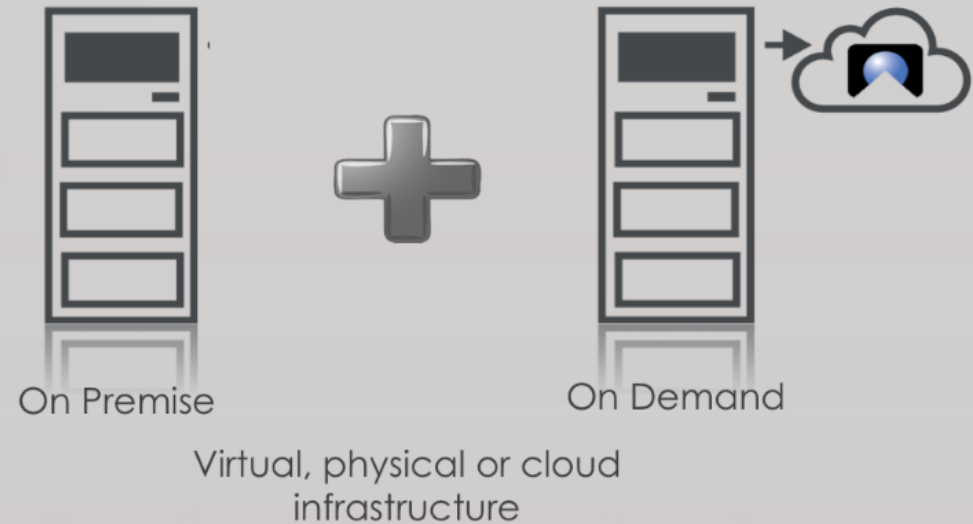


QAD Enterprise Monitoring

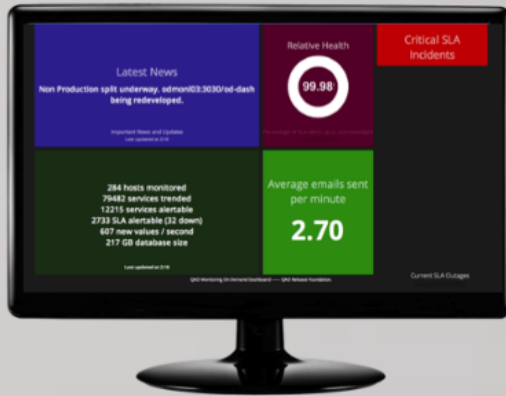
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 - OpenEdge
 - Logstash
 - ElasticSearch
 - Kibana 3
- Monitoring, Alerting, Trending and Troubleshooting
- Future: Automated recovery
- QAD On Demand Production Only Stats
 - 62000 items tracked, graphed and trended
 - 30 to 120 days precise measurement
 - 360 to 720 days trending data
 - 7800 items actively monitored for alerts, escalations and SLA measurement
 - 275 hosts



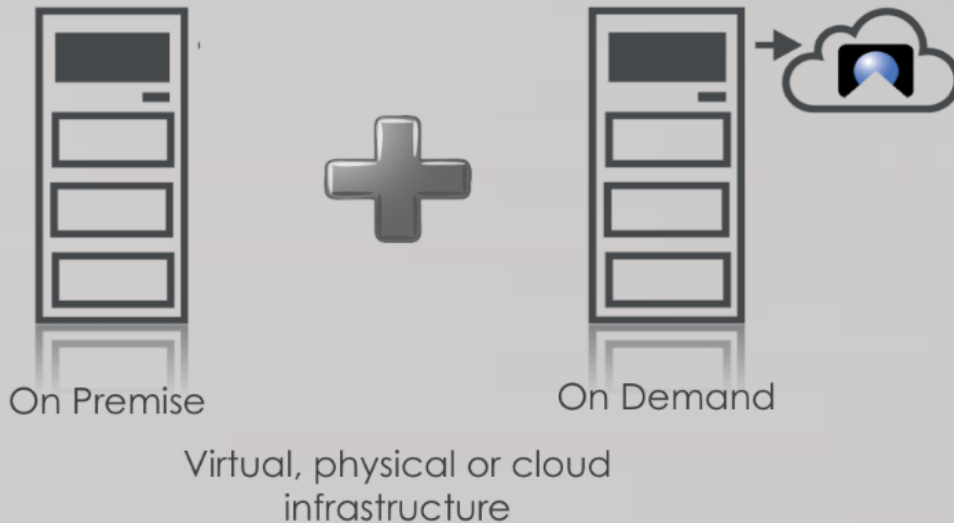
Monitoring and Management



Monitor



Monitoring and Management



QAD Enterprise System Management

- Browser base interface for distributed systems management (DevOps)
- Remote execution/deploy engine (evaluating):
 - Chef
 - Puppet
 - Rundeck
 - Salt Stack
- System scripts and Java classes to perform tasks (Part of Build & Deploy Framework)
- API's to support automation
- Full audit of change
- WAN friendly
- Secure

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 - Zabbix
 - OpenEdge
 - Logstash
 - ElasticSearch
 - Kibana 3
- Monitoring, Alerting, Trending and Troubleshooting
- Future: Automated recovery
- QAD On Demand Production Only Stats
 - 12000 items tracked, graphed and trended
 - 30 to 130 days precise measurement
 - 360 to 720 days trending data
 - 7000 items actively monitored for alerts, escalations and SLA measurement
 - 27% hours



Monitor

World-Class Application Lifecycle Management: The QAD Story

Tony J Winter - Chief Technology Officer, QAD Inc

Establishing Governance

Knowing what to build:

- Understand target markets
- Evaluate requirements from multiple sources
- Evaluate business cases
- Consolidate into prioritized themes and roadmaps
- Establish projects, funding, management and teams

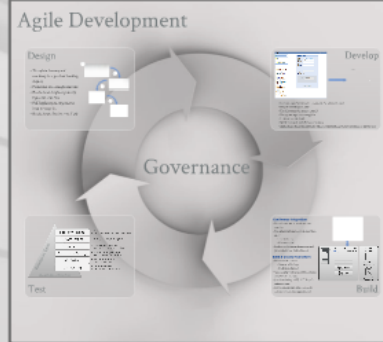


What is Application Lifecycle Management?

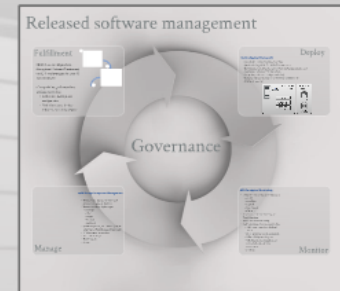
Application lifecycle management (ALM) is the product lifecycle management (governance, development, and maintenance) of application software. It encompasses requirements management, software architecture, computer programming, software testing, software maintenance, change management, project management, and release management.



Development



Operations



Questions?

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