

IBM DevOps solution: Continuous Business Planning to get cost out - and agility in



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IBM DevOps Solution Series 5-part webcast series with IBM DevOps experts

IBMSystems MAGAZINE

Presenters	Topics	Live On
	IBM DevOps solution: Accelerating the Delivery of Multiplatform Applications	August 7, 2013
	Presenters: Carmen DeArdo, Hayden Lindsey, and Mike Perera	
	IBM DevOps solution : Continuous Business Planning to get cost out and agility in	August 14, 2013
	Presenters: Rick Slade and Richard Szulewski	
	IBM DevOps solution : Collaborative Development to Spark Innovation and Integration among Teams	Sept 4, 2013
	Presenters: Tim Hahn and Danny Mace	
	IBM DevOps solution : Continuous Testing to save costs and improve application quality	Sept 11, 2013
	Presenters: Rosalind Radcliffe and Marty Shelton	
	IBM DevOps solution : Continuous Release and Deployment to compress delivery cycles	Sept 18, 2013
	Presenters: David Myers and Mike Baskey	

Organizational IT wants has to...

Align their application portfolio to the organizations' overall strategy



But...

Lack of business and IT information makes decision making ad-hoc, error prone and politically driven versus analytical and fact-based. Limited awareness of applications (usage, design, relationship to business requirements, etc.) increases cost, slows development delivery and reduces quality.



Target attainment



What is DevOps and the Practices that support it?





Practices that enable a DevOps approach



Plan and Measure: Overview

Continuously plan, measure and bring business strategy and customer feedback into development lifecycle

Highlights:

- Better align investment decisions with value and organizational strategies and priorities
- Gain control of development initiatives by improving visibility and transparency
- Provide a governance model adapted to multi-supplier sourcing structure
- Plan releases predictably driven by the needs of the business





Plan and Measure

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Continuous Business Planning: Market Trends

Market volatility, increasing competition and decreasing product life cycles are forcing organizations to move to a much more rapid, continuous planning cycle

- Organizations are facing increasing pressure to deliver high-quality software and meet continuously evolving business objectives.
- Collaboration Business and software delivery teams work in silos and lack a collaborative platform to prioritize, share and govern demand and delivery.
- Organizations face unprecedented challenges in trying to align their software development team with business team to meet the rapidly changing customer needs.
- Organizations face reduced development time and increased competition; thus bringing high quality products to the market at shortened time frame becomes the major success factor

Continuous Business Planning: Differentiators



Tagline "Doing the right things" and "Doing things right"

- Reduce costs and improve business agility by supporting governance and more collaborative decision making
- Prioritize business needs, ideas and project proposals to create optimized portfolios
- Reduce rework and accelerate time to market by collaborating with stakeholders in individual projects
- Improve business results and manage change in delivery with improved transparency, collaboration and communication

✓ Simplicity - Unique way to prioritize and focus on value

- ✓ Aligning business and software delivery in a way no other organization does today keeping organizational focus on value, combined with market leading CLM/ALM tools.
 - Shorter release cycles through collaborative and rapid decision making across disparate stakeholders when doing multi-level business release planning
 - Improved business agility through lifecycle traceability enabling rapid re-planning with downstream impact analysis
 - Improved transparency through status tracking of each business capability across business releases, application releases, and development iterations
 - Demonstrate compliance by ensuring full traceability of requirements

Summary: What solutions do we provide?



A definition of Application Portfolio Management



Application portfolio management (APM) is a repeating process using information and analytics that produces objective and transparent decisions around investing, consolidating, modernizing, or replacing applications.

Benefits:

- Align the application portfolio with business strategies
- Reduce costs and optimize value
- Increase speed-to-deployment and speed-to-market
- Reduce risk associated with technology or resources
- Implement shared services

Analyst Report: Read a commissioned study conducted by Forrester Consulting, Measuring the Total Economic Impact of IBM Rational Integrated Solution for Application Portfolio Management https://www14.software.ibm.com/webapp/iwm/web/signup.do?source=swg-rtl-sd-ar&S_PKG=500020251

IT optimization business outcomes

APM-driven scenarios





1) Define high level goals



- High level goals established
 - Example: Reduce application costs by 20% by end of 2013
- Explicit targets for accomplishing goals are established
 - Example 1: Reduce maintenance spend by 15% by end of next quarter
 - Example 2: Establish Goals for Decommissioning Applications, with the ability to track Plans and Actuals to those goals

Display > Decommissioning Plan								
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Modules	Year	Quarter	Retirement Goal	Savings Goal	Retirement Plan	Planned Savings	Actual Retired	Actual Savings
Add Display	2012	3 Q3	5	\$700,000	O	\$0	O	\$0
Applications	2012	4 Q4	5	\$700,000	0	\$0	0	\$0
💡 Projects 🤤 Project Roadmap	2012	Q 1	4	\$600,000	3	\$78,500	1	\$38,000
Portfolio Investment Decommissioning Plan	2012	<mark>2</mark> Q2	6	\$800,000	0	\$0	0	\$0
🕺 Weights 🔹 Business Units	2013	4 Q1	5	\$650,000	0	\$0	0	\$0
My Applications - Per	2013	2 Q2	7	\$450,000	0	\$0	Ö	\$0



2) Create or augment application inventory



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- Rapidly import inventory from existing spreadsheets
- Optionally leverage role-based Web interface for additional information entry

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3) Provide application information (wide and shallow)





Application Architect

Application Business Owner





- Web-based entry through role-based views
- Provide filters to make data entry trivial
- Increase data quality through choice selections and built in quality assurance steps

4) Analyze and determine investigation targets Identify applications to be further investigated



Analyst







5) Provide detailed application information Focus on four dimensions





Process

Business Idministratio

Product Fulfilme

Application Architect

0.

Add

Display

Applications

Portfolios Information

Linux

C# (both gui & servel)

Java

AutoFit

Active Risk Manager

Application Component: Supporting Risk

Control function

Param Feed

Product Serv

N V V

Application **Business Owner** **Business Value** Functional Quality Strategic Value Technical Quality



System

Architect

Asset

Analyzer



- Web-based and role based information gathering
- May optionally be informed by application analysis tools, such as IBM Rational Asset Analyzer or CAST **Application Intelligence** Platform
- May optionally be informed by an Enterprise Architecture tool, such as IBM Rational System Architect



18 Decommission?

6) Analyze and set candidate dispositions Propose disposition and understand savings potential

Disposition	Description	Potential % Savings based on industry benchmarks	
Decommission (a.k.a. Retire)	Discontinue the application.	70% of maintenance and production infrastructure cost	
Relocate	Evaluate and select alternate sourcing for application hosting, maintenance and/or development.	40% of labor (enhancement and maintenance) + 3% of production infrastructure cost	
Reprioritize	Reduce spend on maintenance or operations costs.	15% of maintenance labor	
Replace	Replace current application(s) with new application / packaged application.	25% of total cost	
Reduce (a.k.a. Consolidate)	Rationalize multiple applications with similar function into a single application.	60% of total cost	
Enhance	Add additional functionality. Improve flexibility by using new principles, e.g. SOA, Web Services.	No change -????	
Modernize (a.k.a. Rustproof)	Modernize application by upgrading technology and improving architecture.	15% of labor (enhancement and maintenance)	
Retain	Keep as-is.	No change	



7) Recommend dispositions and rationalization projects

Define Future State architecture(s)

Current

Proposed





7) Recommend dispositions and rationalization projects Produce project proposals for rationalization projects





Application Architect

Application Business Owner

🛛 Planning Data		8
Start Date	6/1/11	Arch
End Date	8/30/12	Stra
Benefits End Date	10/1/13	Busi
Primary Business Objective	1 Reduce Costs by 10% over the next 2 years	Com
Supported Business Objectives	👔 Gain 5% organic growth by Dec 2011	Tota
Related Applications	A0299:Billing	1018
	A0302:GOLedger	

E Scorecard	
Architectural Fit	📒 5 - Very High
Strategic Alignment	🗖 4 - High
Business Value	🗧 5 - Very High
Competitive Advantage	🗖 4 - High
Total Business Value Score	1,129
Total Risks Score	71

 Link Future State architectures to project proposals

Expected Cost: \$1.4 M Expected Benefits (accrued over 13 months after project completion: \$1.9 M Net Present Value (28 months)



 Propose and establish business case for projects



8) Assemble proposal for reaching goals Evaluate and prioritize rationalization projects





- Compare projects side by side using pair-wise comparison
- Visualize project priority base on defined project criteria



Continuous Business Planning

Maximize business outcomes and value through an open collaborative, standards-based platform and strong governance framework



■ Rational® Focal Point[™]

- Empower LOB, Product Managers, Portfolio Team and CIO team to (a) manage business concepts like business requests and plan business releases, (b) make informed decisions to better align products and portfolio investments and (c) gain control of development initiatives by improving visibility and transparency.
- Rational® Requirements Composer
 - Requirements management and definition using a collaborative approach, that enables stakeholders and IT teams anywhere in the world to provide input, gain clarity, better achieve consensus, and adapt to changes more quickly
- Rational® Insight
 - Measurement and management improves project and process performance

Continuous Business Planning

Application Portfolio Management



"Smarter APM and associated application revitalization has enabled IBM's IT to cut maintenance costs by 20% and defects by 58%."



— IBM Corporation



Functional Component Segregation

Use powerful tools to quickly begin SOA evolution by harvesting and repurposing proven assets



Application modernization

what are the modernization options



Incrementally modernize applications

Use IBM ODM to unlock rules hidden in existing applications

- Gradually pull out rules from existing applications
 - -Focus on those business decisions that change fast and often
 - -Re-express business rules in natural language
 - -Manage and store them in a central facility
 - Does not require a "big bang" change

The Lustratus BRMS Maturity Model

http://www.lustratusresearch.com/store/product/Using-business-rules-with-CICS-for-greater-flexibi,215,0.aspx

Redefined Application Change Cycle

IBM Operational Decision Manager v8.5 (ODM)

ODM for System z enables smart organizations to capitalize on modernization and innovation

- Faster Time to Market: Ability to react to changes in a fast pace competitive marketplace though Business events and rules
- Lower cost of maintenance
 - Leading to improvement operational efficiency and total cost of ownership
- Better visibility and control
 - Leading to improvement to better corporate governance
- Ability to implement the best rules for the best outcome
 - Business users can see, understand and have the appropriate tools to support the needs of the organization by maximizing their IT investment
- Ability to manage and document business decisions executed in System z applications
 - Authoring rules for COBOL & PL/I applications in business terminology
 - Ability to share business rules with Java and other COBOL & PL/I applications
 - Integrate seamlessly with existing COBOL & PL/I applications

Application Portfolio Management decisions and plans are executed and tracked in solutions for Application Lifecycle Management and Enterprise Modernization

IBM CIO Office - Continuous business planning experiences

- Application reduction
 - From 16,000 to 4500
 - Targeting another 50% reduction by 2015
- Benefits
 - \$1,5 Billion dollar estimated savings as a result of application and data center consolidation
 - Of applications classified as "Blue", an estimated 95% savings in maintenance (due to consolidation and freeze of maintenance dollars)
 - SLAs now vary based on objective business criteria
 - Re-engineered applications defects down 58% and maintenance costs down 20%
 - Separated low value work and applied strict governance and controls
- Ongoing process
 - Application Portfolio Management never ends, this is the 3rd time we cut application count by 50% or more....
 - Many other improvements besides IT cost reduction, such as business process efficiencies gained from global processes for a global company
 - For more info, see Computerworld article: <u>http://www.computerworld.com/s/article/9226430/IBM_on_path_to_cut_internal_apps_by_85_</u>

Resources

- Websites:
 - Continuous Business Planning
 - Portfolio Demand and Delivery Management
 - IBM Operational Decision Manager for z/OS
- White papers & tech docs
 - Four Steps to creating product value
 - Gartner report: PPM goes from managing projects to managing value and change
- Redbooks
 - Flexible Decision Automation for Your zEnterprise with Business Rules and Events
 - Batch Modernization on z/OS
 - Patterns: Integrating WebSphere ILOG JRules with IBM Software
- Demo: <u>Project Portfolio Management</u> using IBM Rational Focal Point
- IBM Operational Decision Management YouTube demo
- Top 10 Business Use Cases for Operational Decision Management

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5-part webcast series with IBM DevOps experts

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