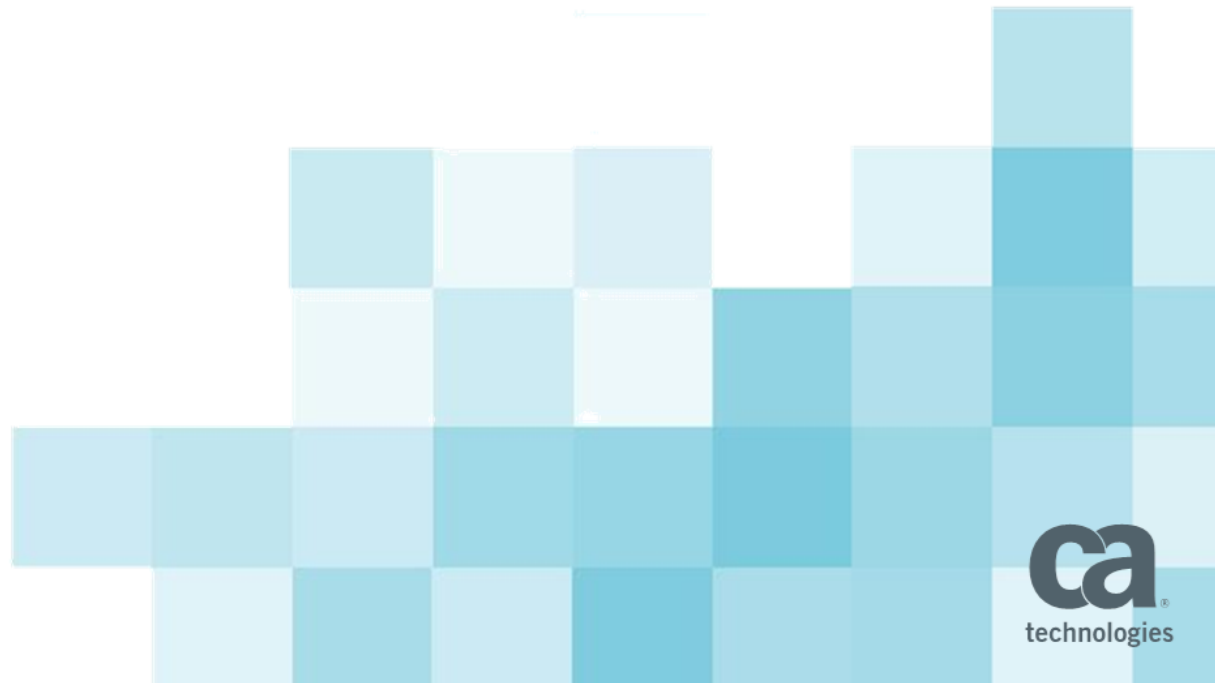


Application Development Business Line Overview

Michael Maggio, VP Product Management and Strategy
Business Line Leader

September 2014



Hello, My Name Is...

Way Too Early???

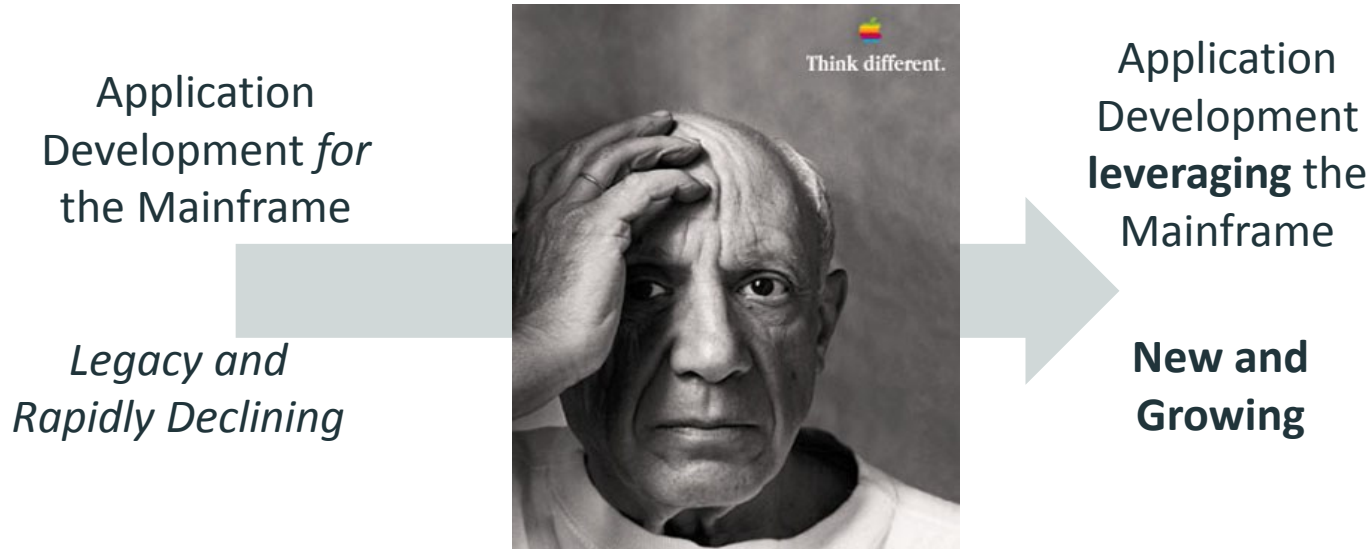
- **Over 25 years building startups from the ground floor:**
 - **Segue Software**, Automated Testing Company
 - Original VP of Engineering
 - Grew company from 3 to 300 people over 7 years
 - Multiple rolls: VP Development, VP BD, SVP Marketing, GM
 - IPO
 - **NetMorf**: One of the first mobile application companies
 - Founding CEO
 - Grew company from 3 to 80 employees in 18 months
 - Customers included BN.com, Fidelity, Pivotal Software
 - Victim of the Dot-Com crash
 - **Newbury Networks**: First WiFi based indoor-location company
 - Recruited in as CEO
 - Delivered multiple solutions based on technology: Hospitality, Security, Healthcare
 - Established OEM eco-system with largest WLAN players
 - Sold to one of our OEM's – creating a 5X revenue multiple in year 1 (\$10M - \$50M)



Never Too Late!!!

- **Up Next:** Building a growth organization with the Application Development Portfolio of one of the largest ISV's in the world!

Application Development in a Mainframe World

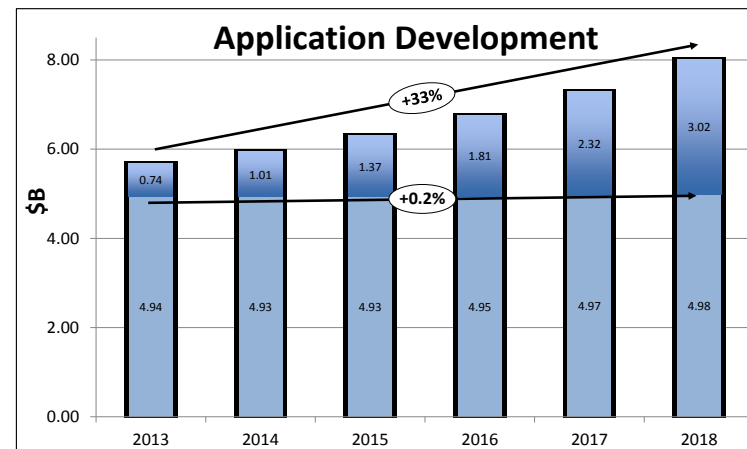


■ Business Line Strategy:

- **Update** our **existing products** to address the **ENTIRE** dynamic datacenter
 - Complete the suite and expand access from Mobile to Mainframe
- **Balance** investments between existing and **new technology**
 - New solutions leverage our customer existing investment in CA Products
- **Expand** our offerings to integrate existing **CA & 3rd Party products**
 - Provide a platform to integrate best-of-breed solutions adopted by our customers

MF CSU: A Growth Business – The Dynamic Data Center

- The NEW Market for MF Application Development:
 - Enterprises are differentiating themselves by providing services closer to the customer via **mobile and web apps**
 - These same enterprises utilize the **Mainframe** as the “*System of Record*” at the heart of the Dynamic Data Center
 - **Application developers** are rapidly building **new** mobile and web applications that **access** Mainframe systems, their associated databases and application logic
 - The integration of agile-based **mobile app development** dependent on mission-critical **mainframe-based operations** is driving the importance of **DevOps initiatives** within the application development organizations



Source: IDC & CA Research

The High Cost of Application Development

Application development and maintenance takes up 34% of IT budgets:

- **Rising cost of labor**, both in-house and off-shore development
- Dramatically increasing number and **complexity of applications**
- Competitive need for **rapid delivery** and updates to applications

*Source: Gartner Research

Recent leading analyst survey shows:

- **Over half** of customer-facing and business-critical applications are **dependent on the mainframe**.
- **70%** of CIOs believe application developers are unaware of how their **code impacts the mainframe**.
- **Poorly optimized** application interacting with the mainframe **drive up MIPS costs unnecessarily**.
- **Drastic costs reductions** occur if developers have visibility on how their **code affects the mainframe**.

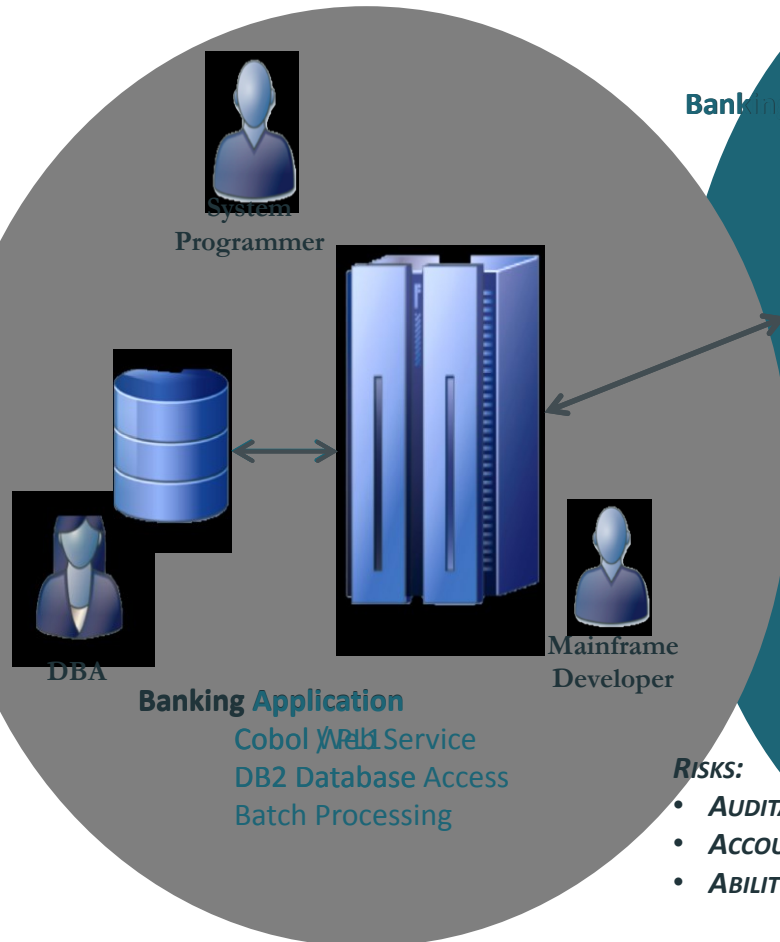
ENTERPRISE APPLICATION DEVELOPMENT REQUIRES CONTINUOUS INTEGRATION AND ORCHESTRATION BETWEEN DEVELOPMENT TOOLS TO PROVIDE *VISIBILITY, TRACEABILITY AND MANAGEMENT* ACROSS MOBILE, CLOUD, DISTRIBUTED AND MAINFRAME ENVIRONMENTS

AppDev Migration from MF to Dynamic Data Center

Risks:

- **KNOWLEDGE LOSS – AGING WORKFORCE**
- **DRAMATIC RISE IN LOAD FROM MOBILE**
- **DATA INTEGRITY CHALLENGES**

Banking



Risks:

- **AUDITABILITY OF CHANGES**
- **ACCOUNTABILITY FOR INTRODUCTION OF DEFECTS**
- **ABILITY TO IDENTIFY BOTTLENECKS AND FAILURES**



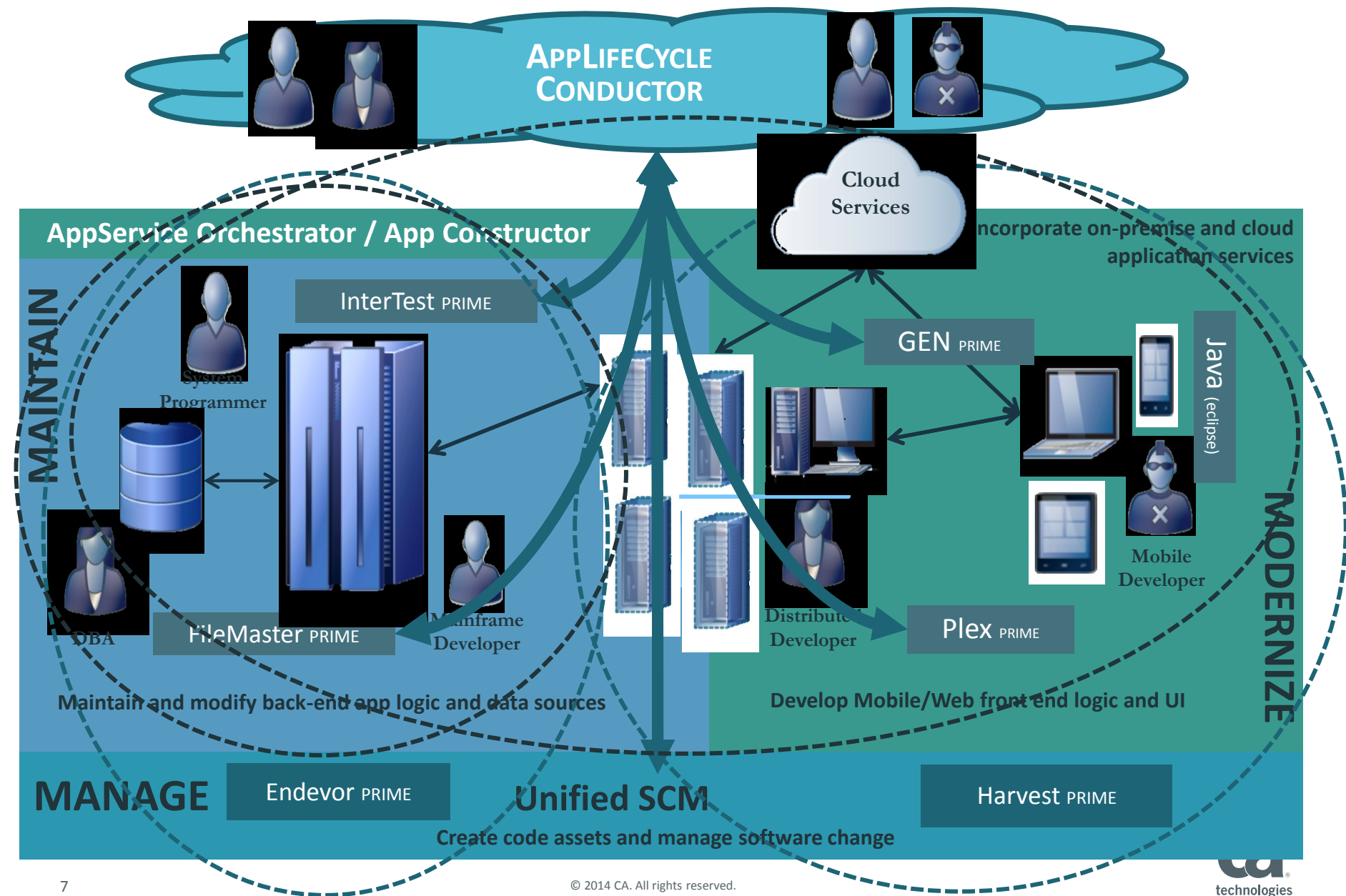
Banking Mobile App
 SOA
 Cloud Services
 Device Telemetry



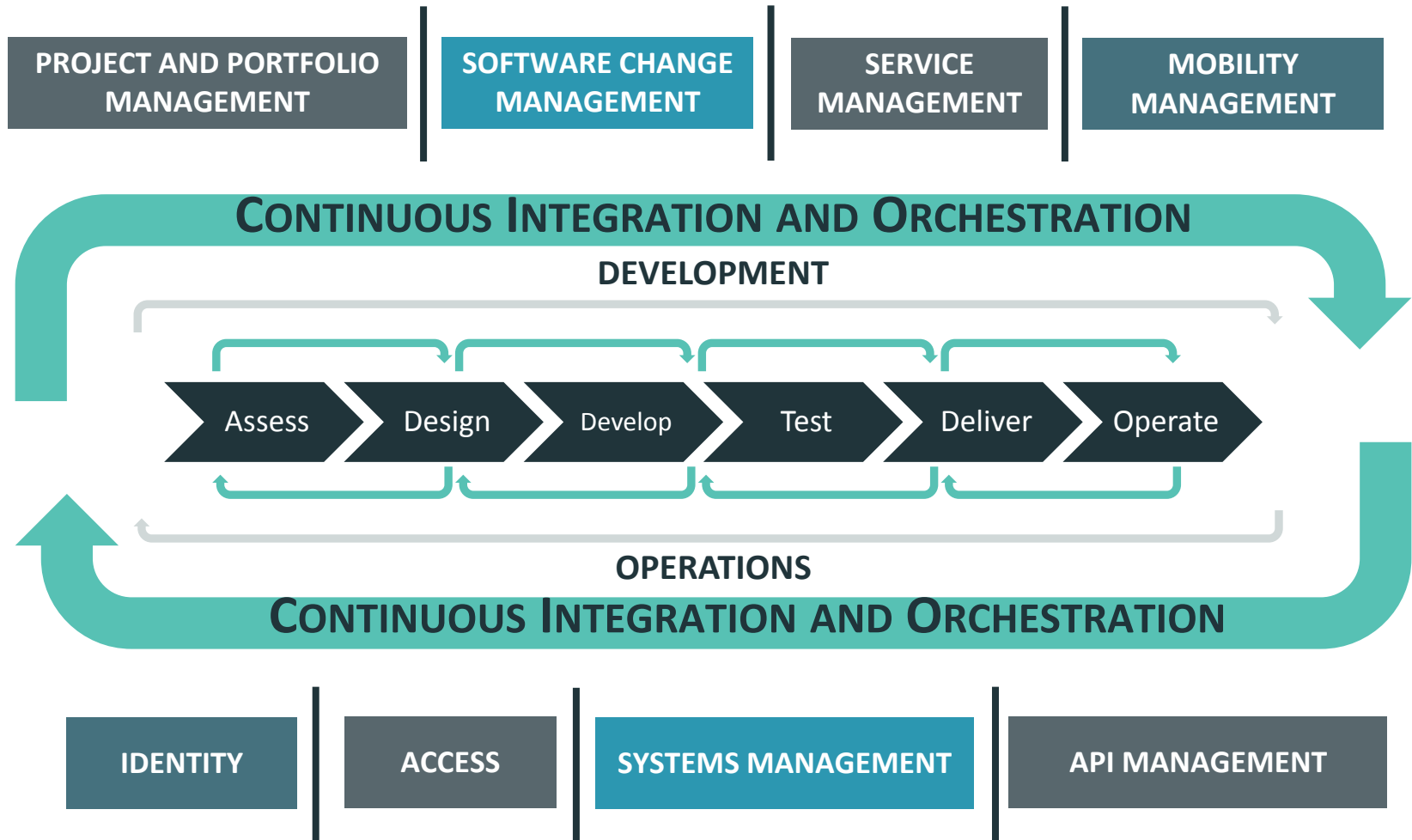
Risks:

- **RAPID INTRODUCTION OF NEW FEATURES**
- **AVAILABILITY OF DATA CENTER RESOURCES**
- **ACCESS CONTROL AND SECURITY CHALLENGES**

The CA Application Development Solution



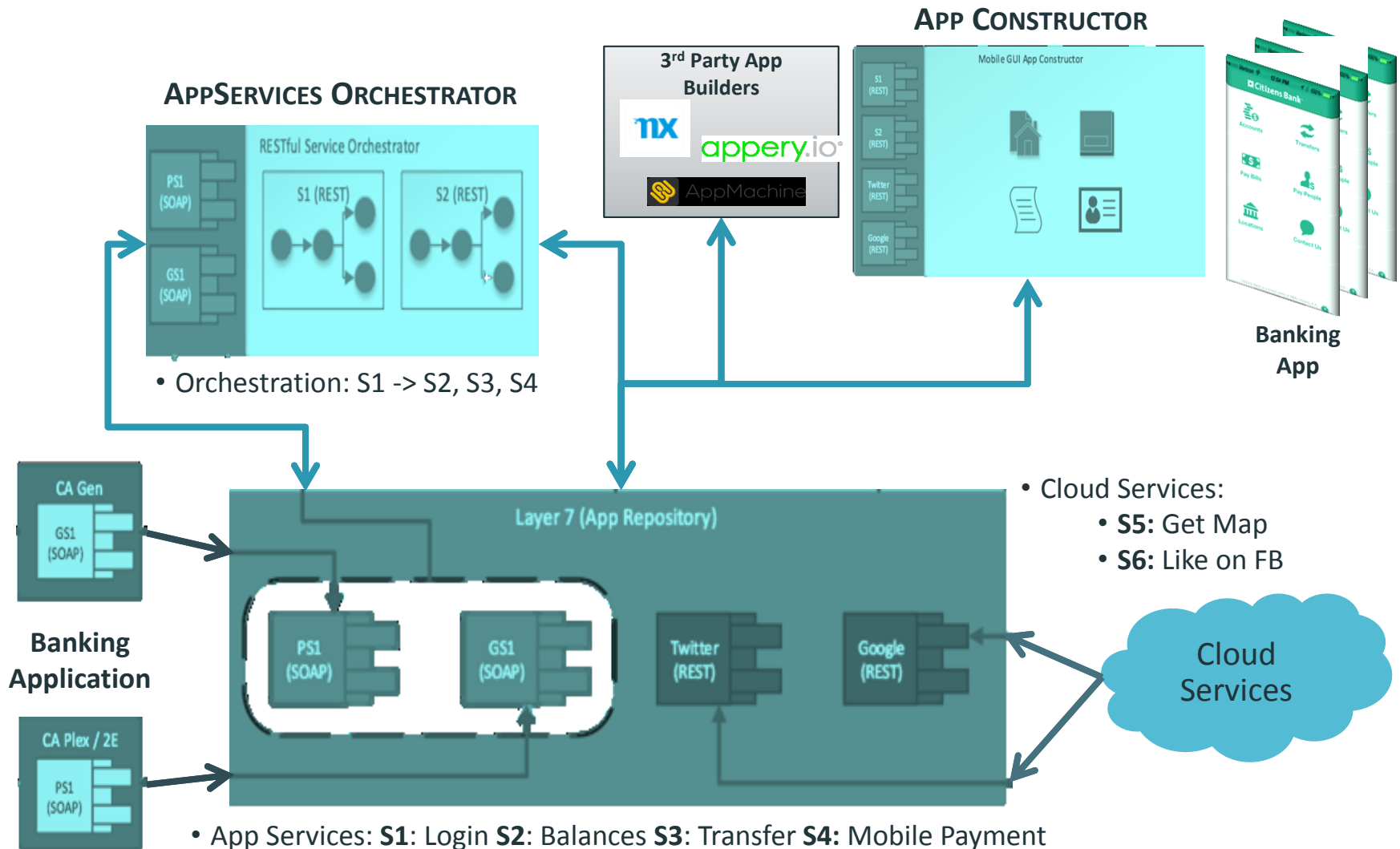
Continuous Integration and Orchestration of DevOps is a Critical Enabler of the Application Economy



Enhanced AppDev *PRIME* Offerings

- **FileMaster *PRIME*** – *File Management, Data manipulation, and Data Creation*
 - Eclipse UI access to z/OS data files, IMS, & DB2, Futures: Oracle, SQL Server
 - Integrated Data Masking Capabilities (Grid Tools)
- **InterTest *PRIME*** – *Application Analysis and Debugging for System Z Applications*
 - Eclipse UI integrating InterTest & SymDump
 - Improved Installation and Enhanced Performance for SymDump
- **Endevor *PRIME*** – *Software Change Management and Deployment on System Z*
 - Eclipse GUI interface with Mobile Software Change (Package) approval
 - LISA RA integration for cross-enterprise release automation with mainframe assets
- **Harvest *PRIME*** – *Software Change Management and Builds for Distributed Systems*
 - LISA RA integration for cross-enterprise release automation with mainframe assets
 - Distributed builds & “package” creation to align Harvest with Endevor functionality
- **Gen *PRIME*** – *Model Based Application Generator from Mobile to Mainframe*
 - Delivery of model development through Eclipse-based Gen Studio
 - Extended support for publishing to App Service Repository
- **Plex *PRIME*** – *Model Based Application Generator for Distributed Systems*
 - Extended support for publishing to App Service Repository

AppServices Orchestrator and App Constructor



Unified SCM

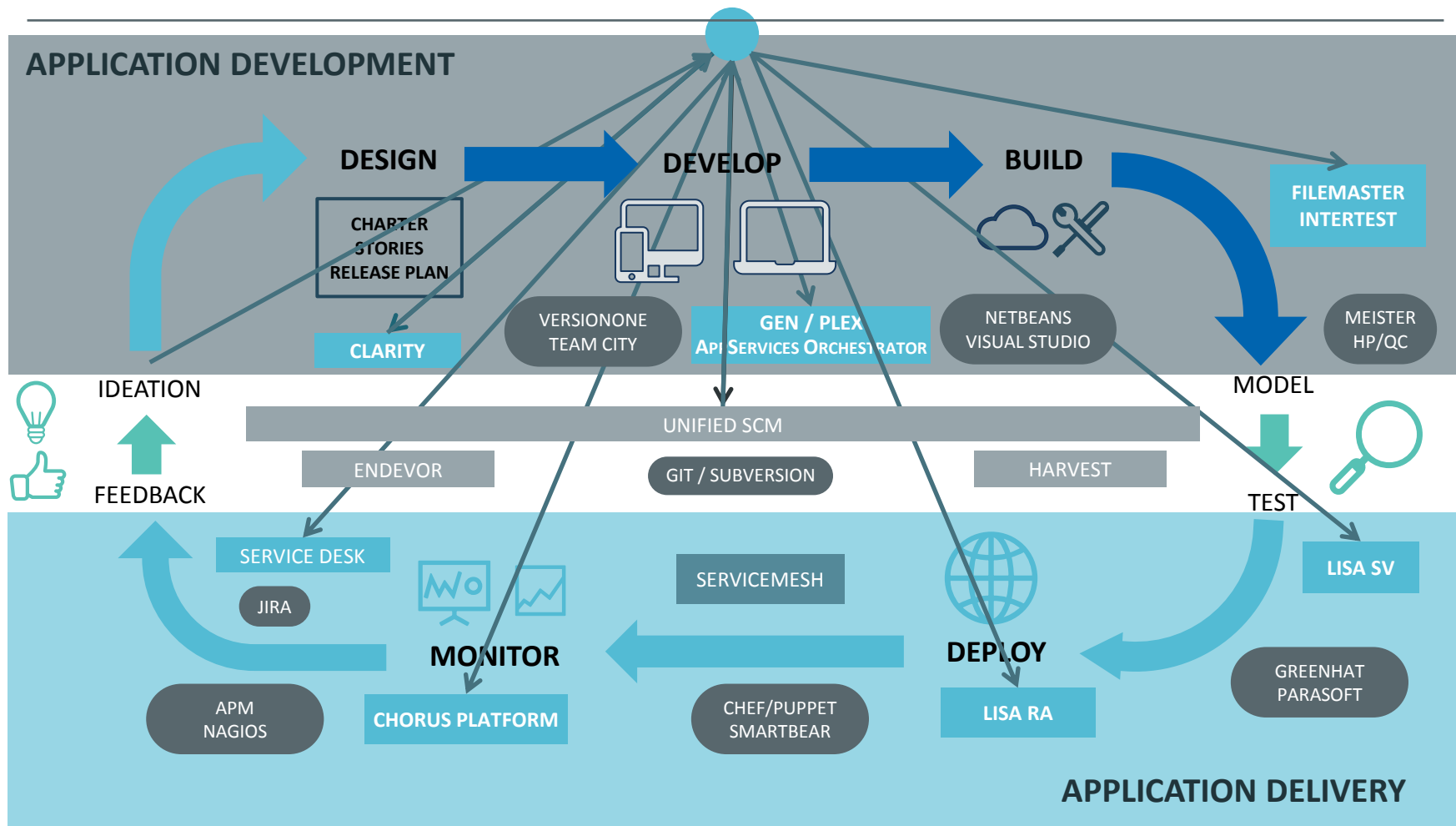
- Managing Software Assets from Mainframe to Mobile
 - Normalized SCM functions for managing software assets across the enterprise
 - Full support for software audit, lifecycle management, and XXX
 - Common Integrated User Interface (Eclipse, HTML, IDE Plugin)
 - UX Emphasis towards:
 - Platform agnostic
 - Ease of use; lighting-fast adoption
 - Industry known terminology
 - Integration with high-use, open source tooling
 - Preserves the investment in current SCM solutions



App Lifecycle Conductor

Continuous Integration And Orchestration Between Application Development Technologies To Visualize, Control And Manage Flow Across The Development And Delivery Process

APP LIFE-cycle CONDUCTOR



Application Development Business Line

CA's Application Development business line delivers a comprehensive solution for application developers to *build and maintain* critical business applications, *manage* modifications and enhancements over time and *modernize* them to meet the mobilization and consumerization trends of today's agile IT organizations.

AppDev Product Offerings

Now

APP LIFEcycle CONDUCTOR

Maintain

FileMaster PRIME

(z/OS, IMS, DB2, Data masking)

InterTest PRIME

(CICS, Batch, SymDump)

UNIFIED SCM

Modernize

GEN PRIME

Plex PRIME

Manage

Endevor PRIME

(All Endevor components)

Harvest PRIME

(Harvest Premium)

APPServices ORCHESTRATOR APP CONSTRUCTOR

New

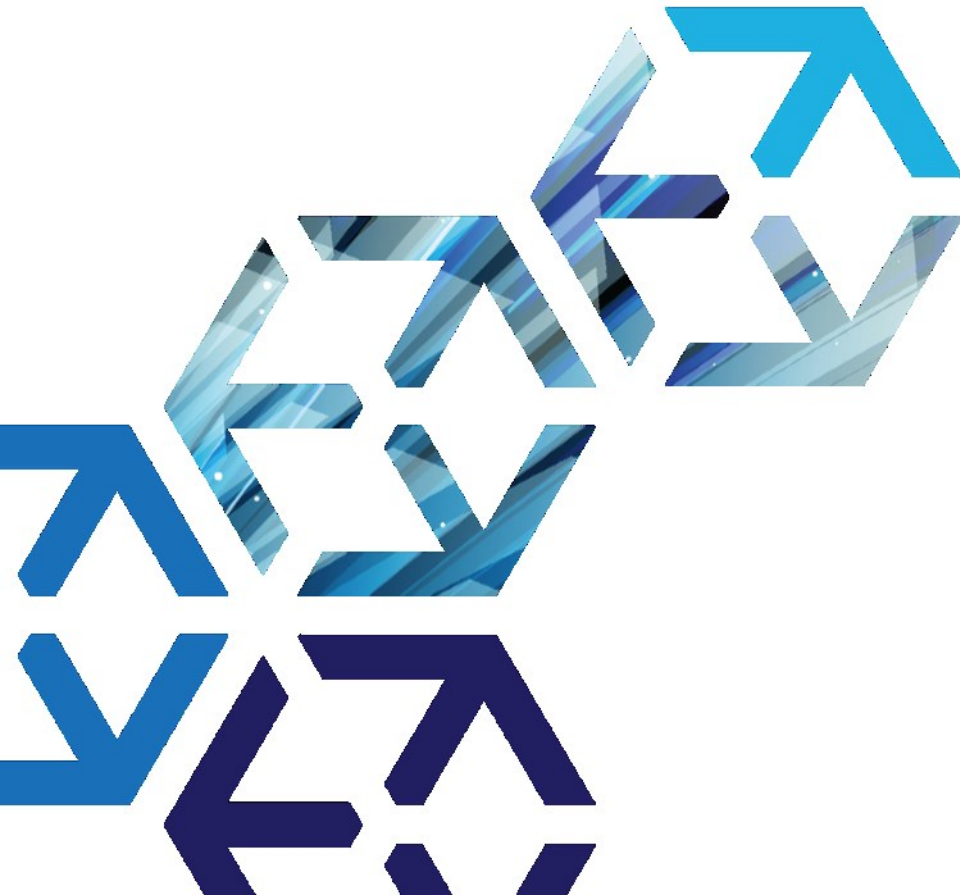
- Additional Portfolio Products -

Verify * Optimizer * SymDump System * 2E * Easytrieve * Aion * Telon * Panvalet * Librarian

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Thank You!

Q&A



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