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AFCEA InfoTech

Leveraging ERP Investments to Drive SOA

Todd Cameron

Agenda



- Services Oriented Architecture (SOA) Analogy
- Evolution of ERP Architectures
- Oracle Architecture Summary
- GCSS vs. Oracle Architecture
- Sample Process / Composite Application
- Summary
- Discussion

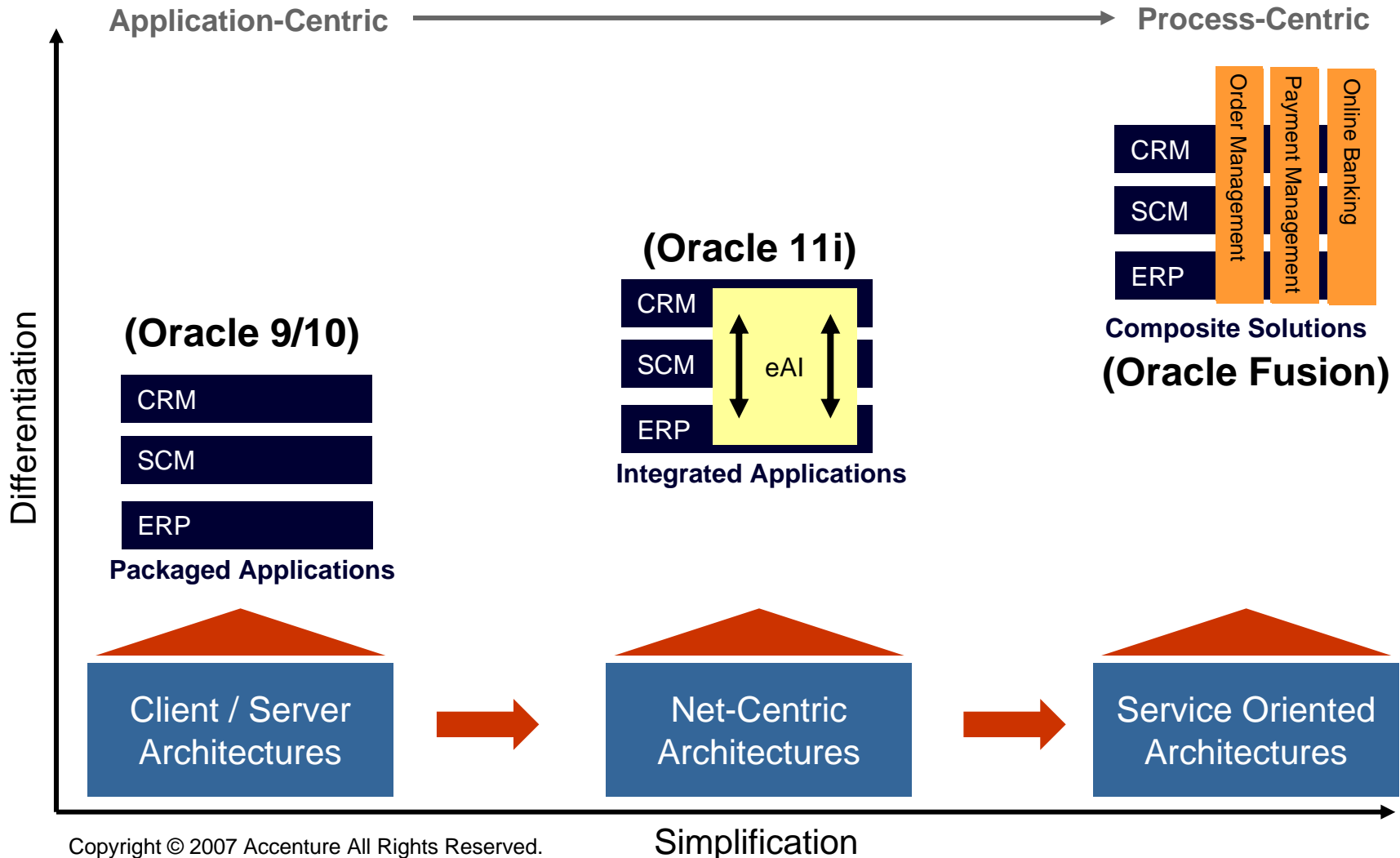
Analogy to Everyday Life



- Modular design **simplifies** production
- Allows **differentiation** through colors, character themes and packaging

SOA the Future of IT?

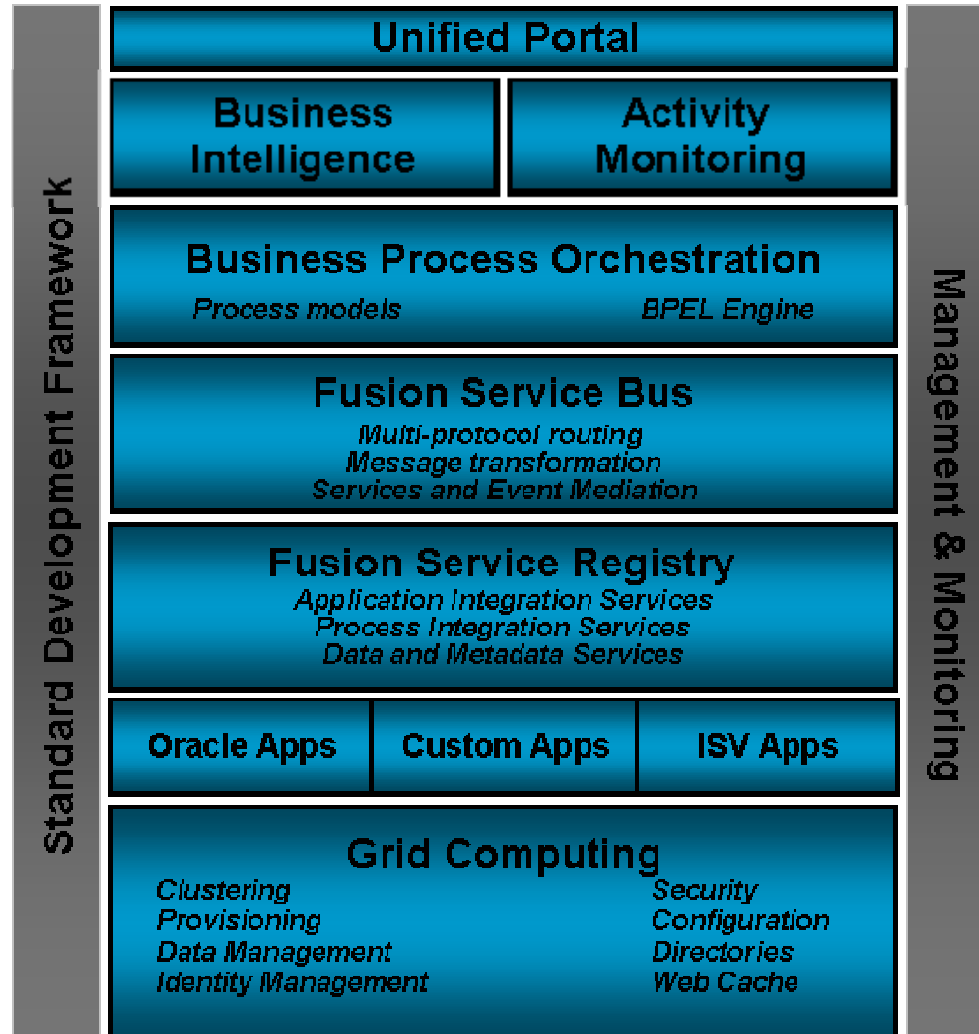
How ERP Architectures Have Evolved



Example ERP Architecture



- Oracle 11i Financials
- Oracle SOA Suite
 - Oracle BPEL
 - Oracle BAM
- Oracle Collaboration Suite
- Oracle 10g DB/AS
 - Portal/OID
- Misc Bolt-Ons

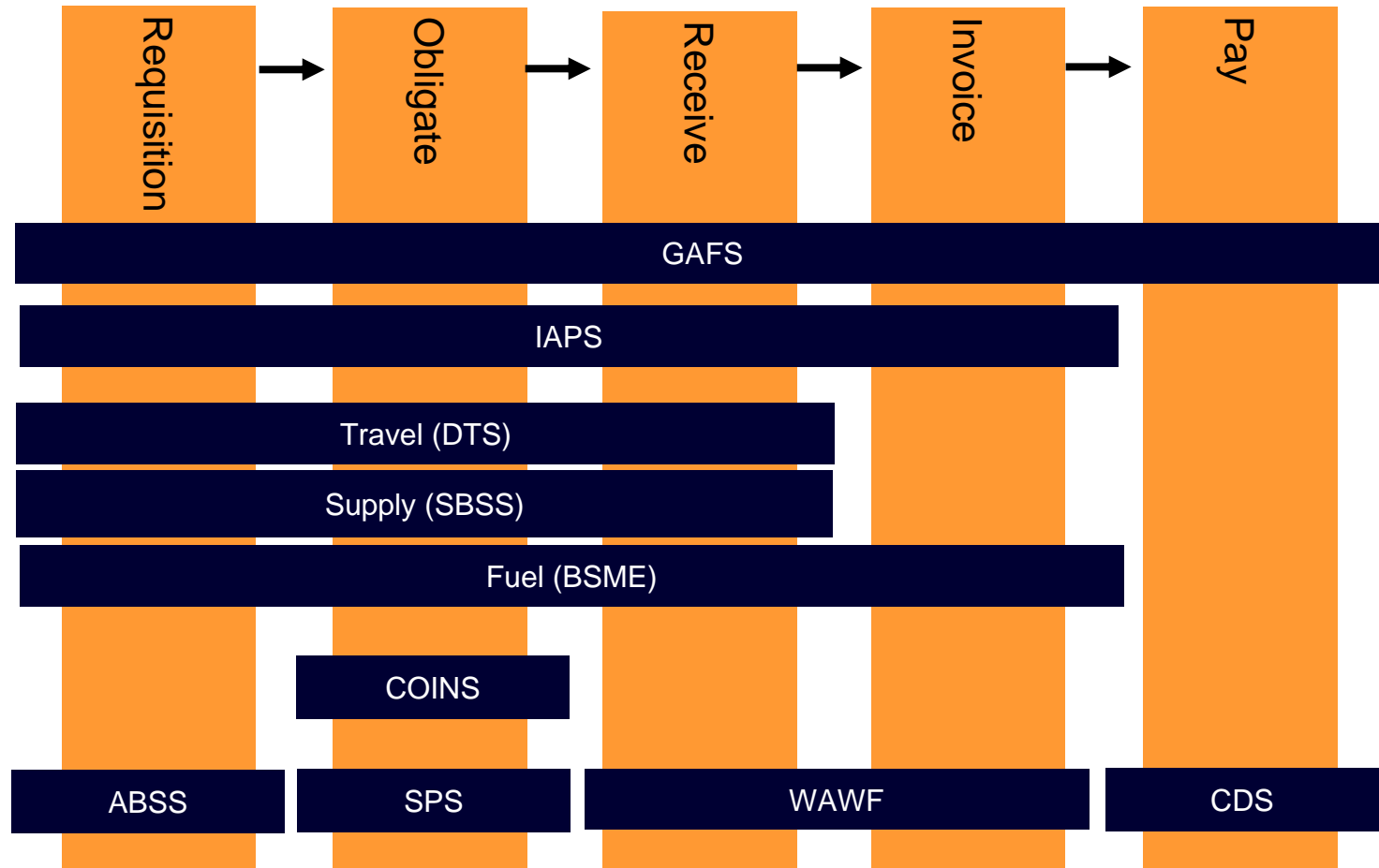


ERP Architecture vs. GCSS-AF Architecture

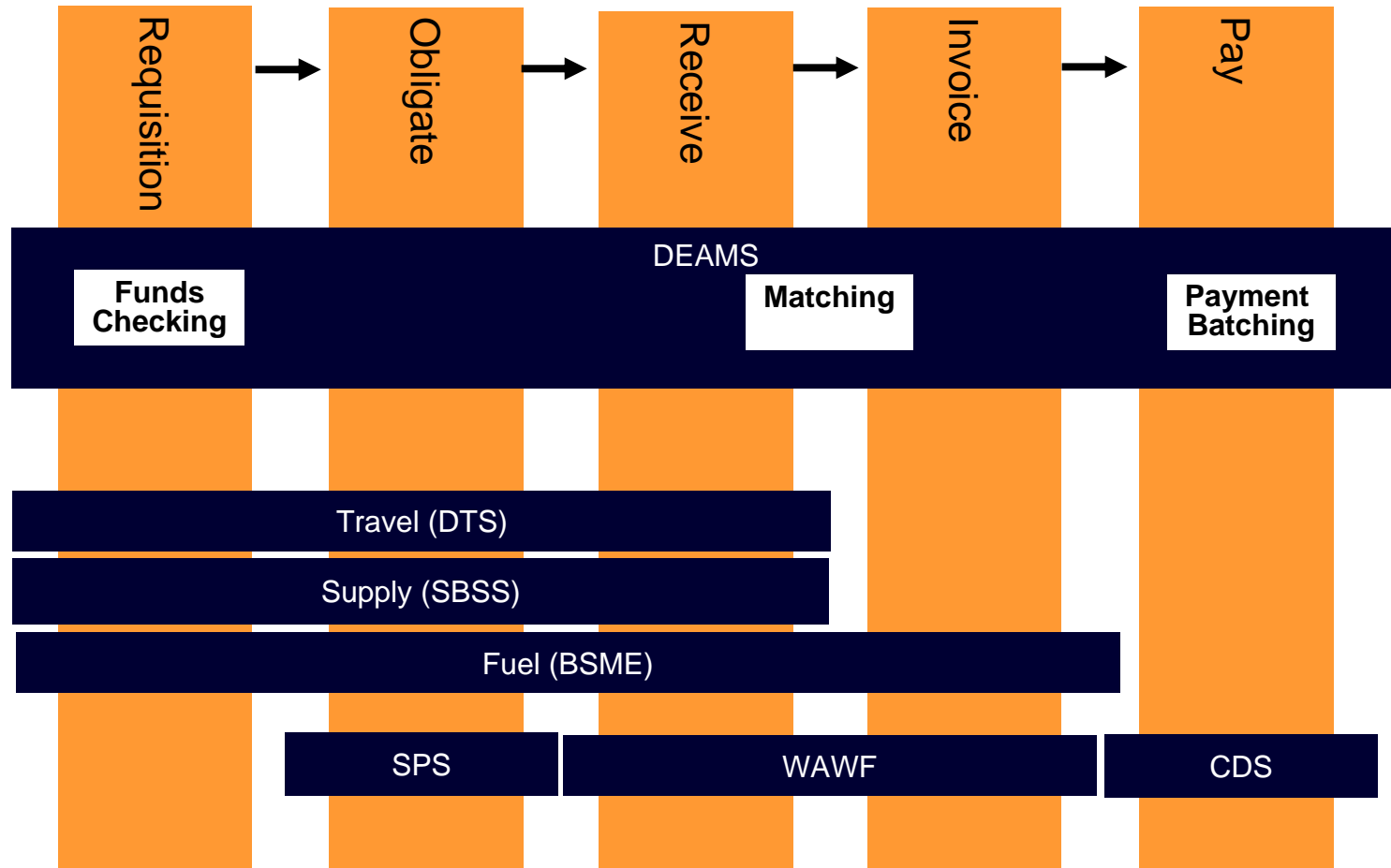


Service	Oracle ERP	GCSS-AF
Portal	Oracle Portal	GCSS-AF Portal
Business Intelligence & Reporting	Discover, BI Publisher	Business Objects, Oracle Reports, Cognos
Business Process Orchestration	BPEL	None
Service Bus	Oracle SOA - ESB	GCSS-AF ESB
Service Registry	Oracle SOA – Oracle Service Registry	GCSS-AF Services
Management and Monitoring	Oracle Enterprise Management – GRID Control	GCSS-AF Ops and Support
Security Services	OID	TAM

Sample Business Process – Legacy Environment



Potential Composite Application using SOA



Challenges



- Complexity of Integrating GCSS-AF Services with Overlapping Services?
- When Conflicts Arise Follow Oracle or GCSS-AF Standard?
- How to Leverage Investments in Both GCSS-AF and Oracle Infrastructures

Summary



- ERP Vendors Continue to Migrate To SOA Architectures and Software “Services”
- Air Force ERP Purchases Include the Underlying SOA Architectures and Tools
- Migration to ERP Processes and SOA Architectures Provides a Clear Set of Standards / Roadmap
- Governance Key to Transition From Current Environment

Questions



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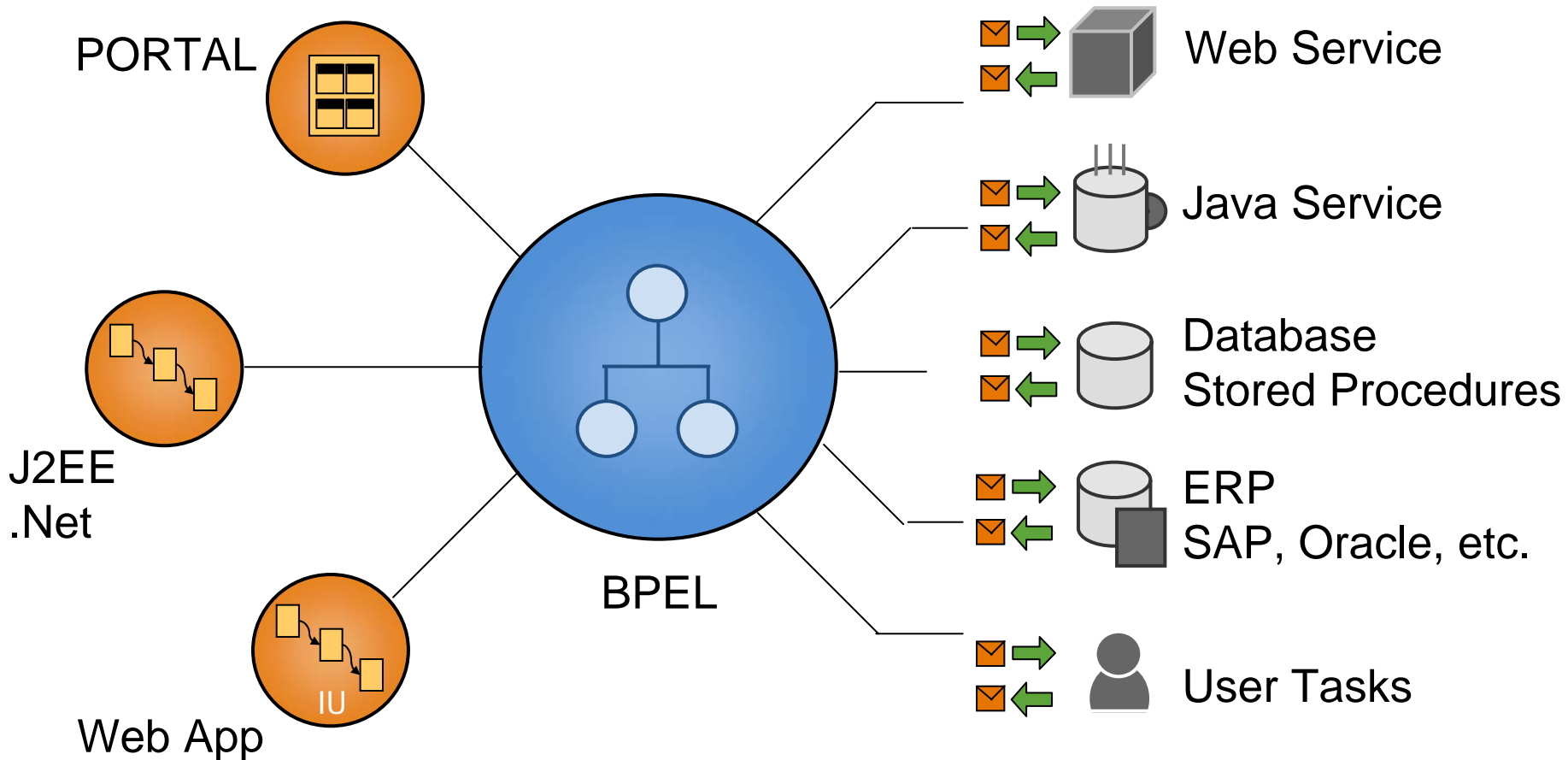
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Back-Up Charts

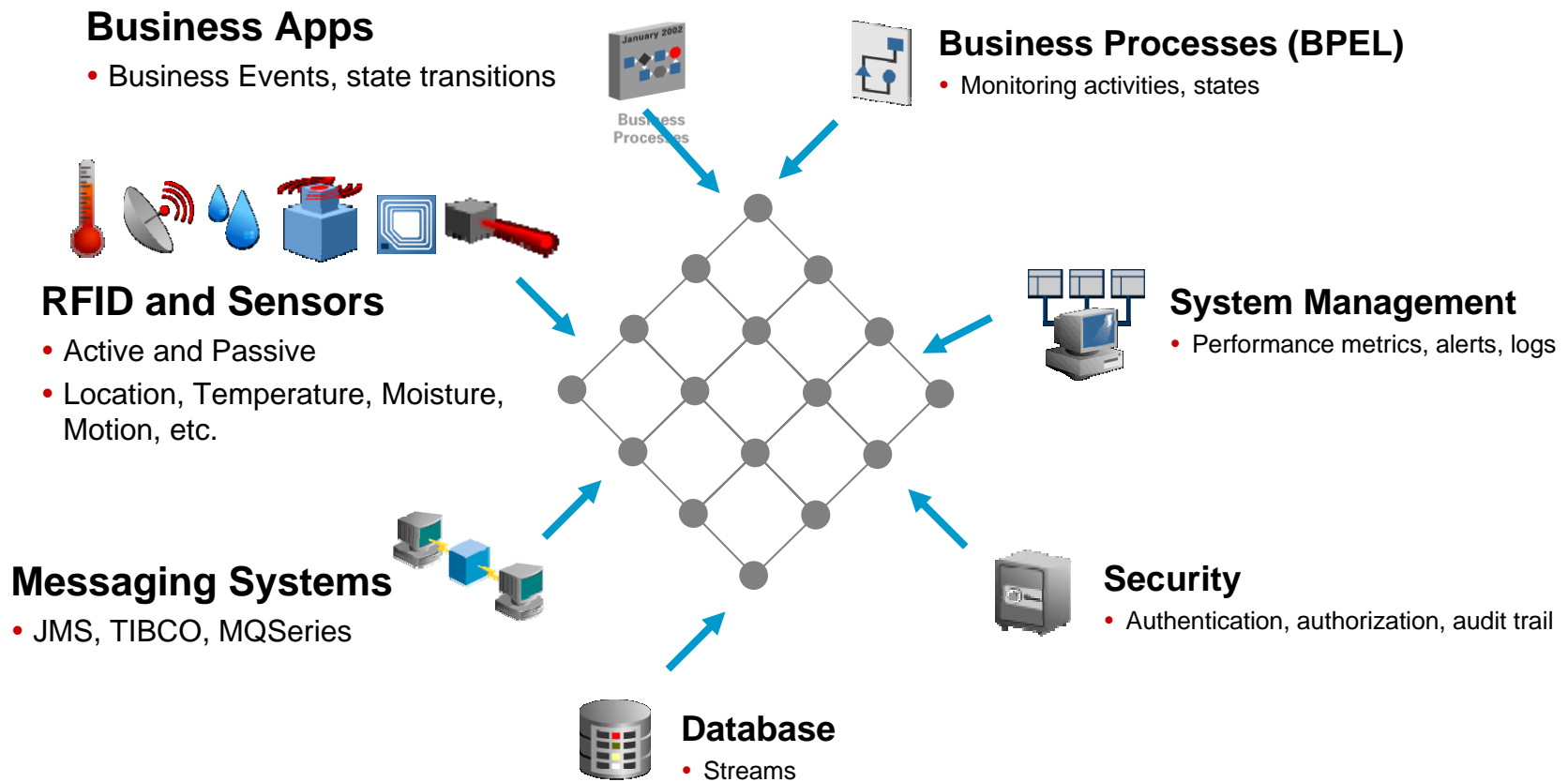


BPEL



BPEL Enables Services Integration Across the Enterprise

BAM, Enabling Real Time Analysis



BAM Enables Real-Time Operations Visibility

BAM at DEAMS



Functional

- Real-Time KPIs
- Status of Procure to Pay Process

Technical

- Integration Schedule
- Alerts and Notifications
- Integration Performance