Reinventing Application Integration for the Digital World

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Integration Product Management & Strategy
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Abbreviations -

BW - TIBCO ActiveMatrix BusinessWorks™

BWCE - TIBCO BusinessWorks™ Container Edition

TCI - TIBCO Cloud Integration™
Agenda

- Changes in applications, APIs & Services
- What’s new in TIBCO BusinessWorks™?
- Ecosystem around TIBCO BusinessWorks
- What’s coming next?
- Q&A
Changes in Applications, APIs & Services
Infrastructure and where to deploy

Aspects such as capacity planning and sizing for peak loads created an artificial boundary around scale and types of app deployment.

**Characteristics:**
- Elastic
- Dynamic
- Pay-as-you-go
- Serverless

**Physical Attributes:**
- On-prem
- Private/Public Cloud
- Hybrid Cloud
- Partner Hosting
- Devices

request IT for more

On-premise data-center(s)
ESB vs Cloud+Edge-Native Integration

- Centralized Architecture
- SOA and Request-Reply type patterns
- Adapters & Plug-ins for connecting to discrete systems
Services, APIs and Gateways

- Optimized for service reuse & control
- Program culture
- Siloed organization models
- “Cathedral model” of services

- Optimized for time to results & agility
- Product thinking & Platform culture
- Breaking the silos
- “Bazaar model” of microservices
Result = API led Hybrid Integration Platform

Core Integration On-Premise
Focus: ESB/SOA + connectivity to legacy systems, messaging & applications

Containers & PaaS
Your choice of Cloud
Focus: Microservices (granular, event-driven, domain-driven) + cloud integration patterns

Web-Native Integration iPaaS & Cloud Services
Focus: API-focused, SaaS connectivity, self-service, UX-driven + cloud integration

API Gateway & Management
Focus: API Portal, Security & Traffic Policies, API Distribution, Analytics

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Result = API led Hybrid Integration Platform

TIBCO BusinessWorks™ Container Edition (BWCE)

TIBCO ActiveMatrix BusinessWorks™ 5 & 6

TIBCO Cloud™ Integration (TCI)

TIBCO Mashery® (including TIBCO Mashery® Local)

TIBCO BusinessWorks Capabilities
What’s new in TIBCO BusinessWorks™?
Current State

550+ Customers
Known customers actively using TIBCO BusinessWorks 6 for their current and in-production projects

75+ Connectors
Connectors (Plug-ins & Adapters)
Plug-ins & Palettes available as Premium or Community Edition

7 Quarterly Releases (since 6.3.0)
Rapid & predictable release cycle that allows in-place upgrades

110+ Connector Endpoints
Single Connector product integrates with multiple systems/platforms to ease user experience & consumption
# What’s new??

## Design Time Enhancements
- Building shared module and including them from Maven repository
- Engine Command Activity
- Ability to Ungroup activities
- API Modeler now available in BW6 Business Studio
- Shared module properties are now shareable
- Referencing multiple XSDs with the same namespace
- Namespace registry

## New Embedded Policies
- kerberos authentication using Rest Reference binding.
- Kerberos Authentication for outbound HTTP requests
- Support for WSS Consumer and WSS Provider policies to encrypt and sign certain parts of the message header

## Runtime Enhancements
- Runtime Cache to support empty target namespace across modules.
- FTGroup mode now offered as a persistence mode for the engine
- TIBCO FTL® support for configuring bwagent transport and engine group provider mode in FT scenario
- Support for multiple bwagents to be registered with TIBCO® Enterprise Administrator

## REST & API Improvements
- Support for MockAPIs using the API Modeller
- Support for push APIs to Mashery® for seamless API Build + Manage experience
- Support anonymous arrays in JSON responses
- Array elements can be used in query parameters for REST operations
- Add query parameters for each REST operation
What’s new??

**OOTB Monitoring & Management**
- Uploading and Downloading logback files from the Admin UI
- Application and Process stats - on demand enable and disable statistics
- Job data and activity stats collected across all applications running on multiple app nodes
- Persist job data and activity stats in DB and run advanced analytics using a solution of choice
- Customizable logging - appenders and tools to plug-in to a solution of choice

**Custom Tooling**
- Unit Testing Framework - support for assertions
- Open source Apache Maven™ Plugin for CI/CD
- Open APIs to support Third Party JDBC and JMS compliant drivers
- Support for DataDirect Drivers

**Improved migration**
- Migrate BW 5 Design Time Library to a BW 6 Shared Modules.
- Composite XPath Expressions for migrated projects
- Service Agent Migration
- Design time libraries (DTL) as a part of the Migration Utility
- Call Process BW5 style
- Selective Migration
- XSLT 1.0 support for Migrated projects
- Dynamic Call Process

**Performance Improvements**
- Strict validation has been removed - 'Validate output' field is now available on the ParseXML activity.
- Faster XML Processing
- Validation improvements
- TIBCO Business Studio™ handling large XSD’s
- Migrating and editing large projects
- Workspace corruption and hang issues for large projects
TIBCO BusinessWorks™ Container Edition

Build microservices with fastest time to results

Visually integrate APIs

Leverage PaaS or CaaS of your choice

For Cloud-Native Integration Apps – tibco.com/bwce
Key Items: BusinessWorks 6.4 & Container Edition 2.3

**Unit-Testing**
Tests folder to create unit-test processes that can assert against an output

**Administration Improvements**
Download/upload logback files from TEA; SSH & OSGi commands for AppNode

**Security Policies**
Enforce diverse set of design-time security policies to binding/activity in BWCE

**API Modeler**
Visually model API specs in a web browser and import in Studio to implement*

**Platforms**
Pivotal Cloud Foundry 1.10, Kubernetes 1.4, Red Hat OpenShift v3.x, Docker 1.13+, AWS ECS and Azure CS
Demo – Building shared modules and including in Maven repo

1. Build Shared Module
2. Include in Maven Repo as .jar
3. MAVEN REPO
4. Build Application
5. Add Shared Module Dependency
6. Generate Application Archive (.ear)
7. Deploy
   - On-Premise
   - Docker Container
Ecosystem around TIBCO BusinessWorks
Connector Ecosystem

Pre-Built Connectors

- Out-of-the-Box native tooling and connectivity
- Connect Applications and Systems (On-Premise & Cloud)
- Available across all delivery channels

Custom Tooling & Ease of Consumption

- Plug-in Development Kit
- Eclipse Update Site
- Community

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What's new in Connector Ecosystem?

**Technology & Application Connectors**
- Added 14 New Connectors
  - Amazon Connectivity (Amazon S3, SQS, SNS, DynamoDB)
  - Adapter to Plug-ins (SAP Solutions, JDE, Tuxedo, Files)
- Connector Updates (Salesforce, SAP Solutions, Microsoft Dynamics CRM, NetSuite, Sharepoint)
- Certifications (SAP Solutions, ServiceNow)

**Big Data Connectivity**
- Expanded Big Data Ecosystem (Apache Cassandra, HBase, Spark, Kafka, Amazon DynamoDB)
- Key Enhancements to the Big Data Connector
- Certifications (Big Data Connector Certified by Cloudera)

**Portability & Extensibility**
- 12 Connectors on TIBCO Cloud Integration
- 21 Connectors on TIBCO BusinessWorks Container Edition
- Feature and Functional Parity across all Delivery channels
- Connectors made available on Eclipse Update Site
- Validate your use case & then purchase

**Web Native Connectors**
- Connectors powered by Project Flogo™ Open Source Project
- Added New Flogo™ Connectors on TIBCO Cloud Integration (Salesforce, Marketo, SugarCRM)
- Contribution Model for Activities & Connectors using Flogo for TIBCO Cloud Integration (Studio SDK & CLI)
What’s coming next?
BW5 IS HERE TO STAY!


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TIBCO ActiveMatrix BusinessWorks 5.13 has no end-of-support date. Adapters and Plug-ins that are compatible with BW 5.13 End of Support may be announced for older Adapter and Plug-in versions via individual end-of-support notices. If there are any additional questions or queries, please reach out to the Integration Product Management Team at integration.pm@tibco.com.
What’s next for TIBCO BusinessWorks 5?

Assurance of business continuity

Enterprise Readiness
E.g. Kerberos Authentication, HTTP Patch

Improved performance
TPCL upgrades

Additional Platforms
SQL Server AlwaysOn, Oracle Pluggable Databases

Improved co-existence capabilities
What’s New for TIBCO BusinessWorks 6?

**Migration**
Improved migration tooling for TIBCO ActiveMatrix BusinessWorks 5 to a Hybrid Integration Platform (HIP)

**Better Together**
Unified studio experience across BusinessWorks products, improved integration with Mashery, enhancements to FTL palette

**DevOps Tooling**
Improved Unit Testing capabilities e.g. mocking, improved assertions, integration with CI/CD tooling

**Monitoring & Management**
Advanced process visualization, detailed job data and interactive monitoring, payload data information

**Ease of use & increased developer productivity**
Improvements to logging, debugging, validation, transformation

**CloudPath**
Ability to take your BusinessWorks assets to public IaaS via configuration best practices and caveats
What’s Next for TIBCO BusinessWorks Container Edition?

**Marketplace Consumption**
Via the Azure® and GCP Marketplaces to provide a dynamic and flexible licensing option for TIBCO BusinessWorks Container Edition.

**DevOps Tooling**
Distributed Tracing, Unit-testing Capabilities e.g. improved assertions, mocking support, CI/CD Integration etc.

**Certifications & Partnerships**
Expand ecosystem of TIBCO BusinessWorks Container Edition with vendors/platforms; e.g., Red Hat, IBM, Docker & others.

**Functional Improvements**
Monitoring/Management - Download/Upload logback file, View Historical Process/Activity stats etc.

**Palettes** - File palette for CF, TCP
What’s Next for TIBCO Connectors?

**Strategic Enhancements**
- Focus on business continuity and regular connector updates
- Add new technology connectors

**Flogo Connectors**
- Web Native Connectivity for TCI
- Connectors for Business Domain - Sales & Marketing

**Portability**
- Certification across all 3 channels - as per use-case & relevance
- Port Adapters to Plug-ins for cloud readiness

**Community**
- Contribute Web Integrator Connectors powered by Flogo Open Source Project
- Improve Developer and Contribution Experience

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Takeaways

• Hybrid Integration Platform
  • Integration for an evolving application landscape

• TIBCO BusinessWorks capabilities across 3 channels
  • On-prem: ActiveMatrix BusinessWorks 6
  • Containers/PaaS: TIBCO BusinessWorks Container Edition
  • iPaaS: TIBCO Cloud Integration

• Rapid & predictable product release cycle

• Key Areas of Planned Product Improvements
  • Migration Capabilities
  • Monitoring & Management
  • PaaS & Container Ecosystem

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### Recommended Sessions

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