



Deltek INSIGHT > 2019

CP-76:

Tech Titans: Gaining
Technical Insights Into
Costpoint 7.1.1

Dmitri Tyles, Deltek

Agenda

- » Costpoint 7, Time&Expense 10, Budgeting&Planning 7 Architecture Overview
- » Platform support updates
- » New release model/methodology
- » Less known usability features for desktop/laptop and mobile access
 - » Progressive Web Apps (PWA) capabilities
 - » PWA and Native app capabilities for Enter Time
 - » Demo

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Costpoint 7

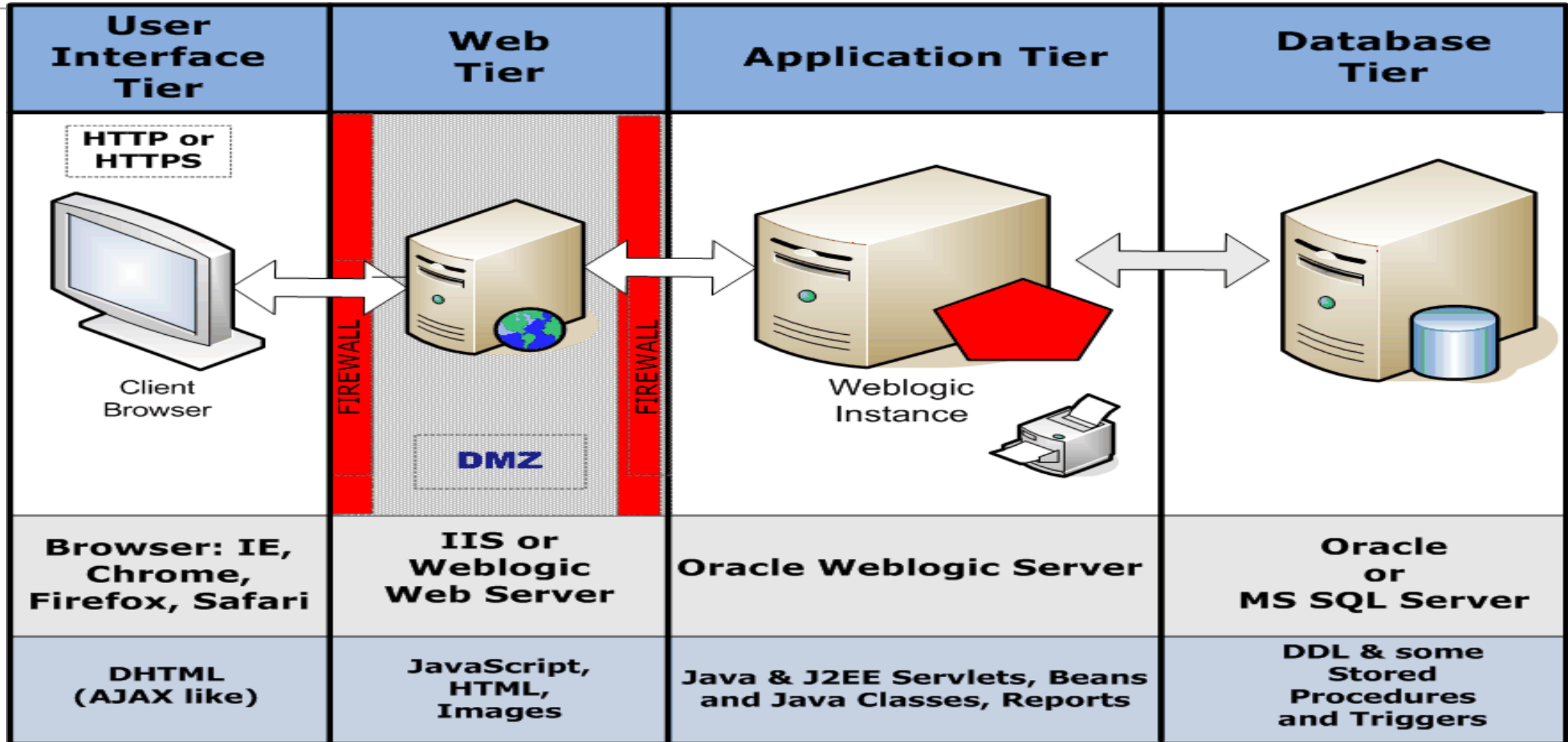
Time & Expense 10

Budgeting&Planning 7

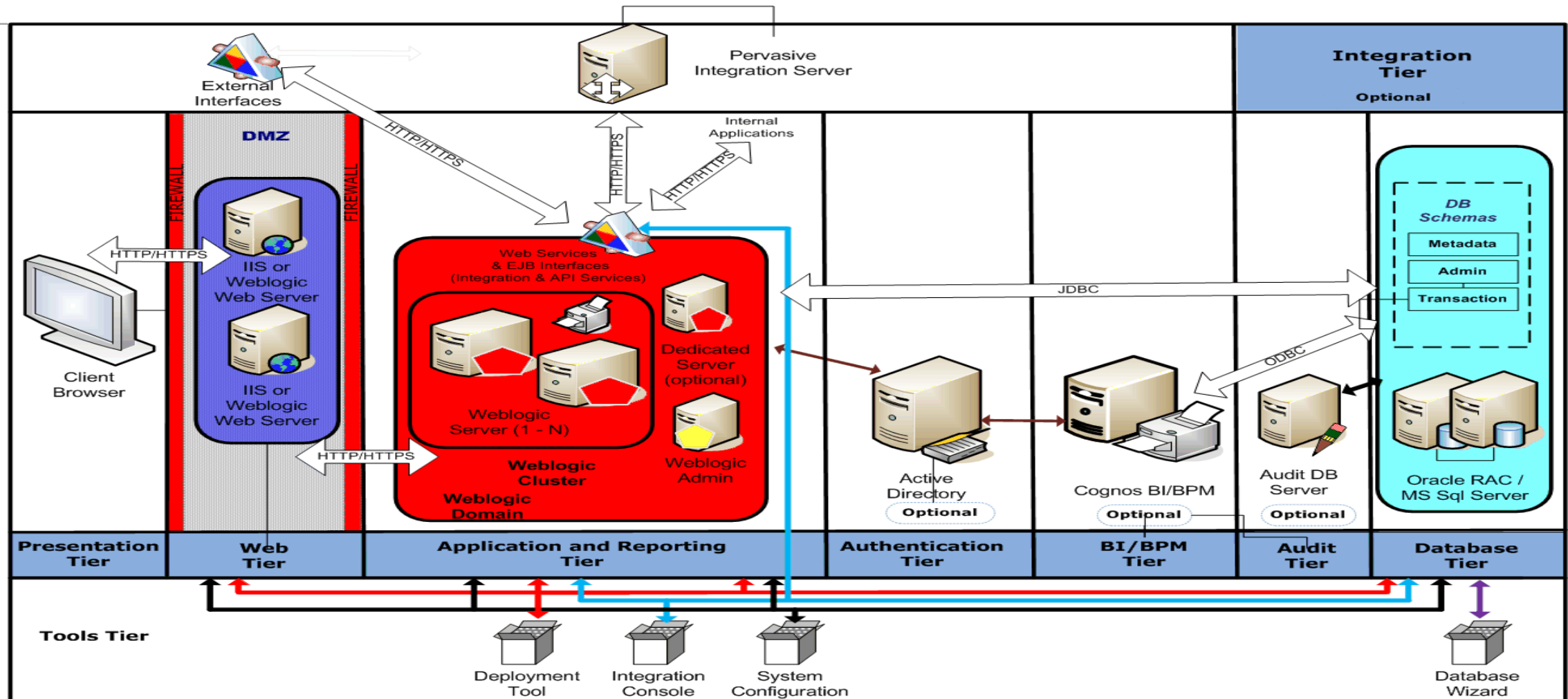
Architecture Overview



Costpoint 7 - Basic Deployment



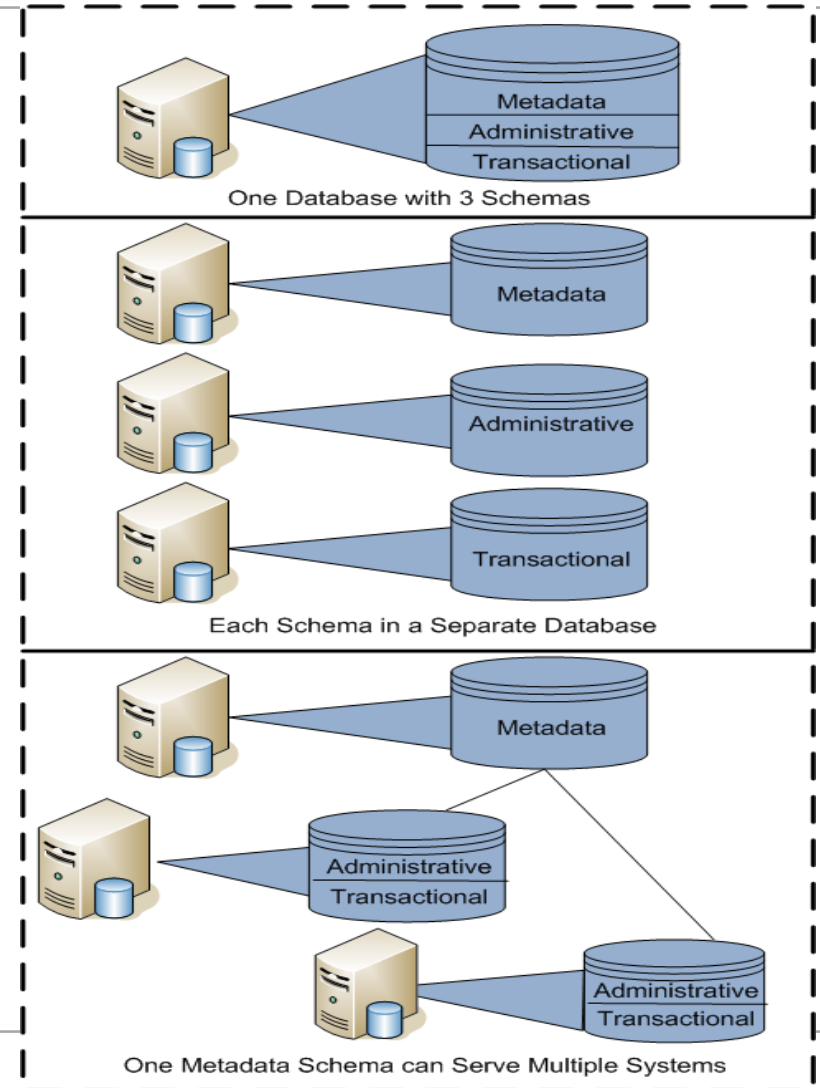
Costpoint 7 - Enterprise Deployment



Costpoint 7 Architecture

Database Schemas:

- » Metadata
 - » Application component descriptions
- » Administrative (admin)
 - » System configuration, User authorization, **Extensibility**
- » Transactional schemas
 - » Costpoint proper business data
 - » Time&Expense business data
 - » Budgeting&Planning business data
- » ***All of the above schemas can be co-deployed***



Deployment options with T&E10 and B&P7

Selecting one of the options below is the most critical deployment decision that you need to make when upgrading to T&E10 and/or B&P7

- » “Share everything” model
- » “Share infrastructure” model
- » “Share nothing” model
 - » Completely separate deployments for each product (same as today with T&E9 and B&P6)

Deployment options with T&E10 and B&P7

“Share everything” model - recommended option

Used in vast majority of TE10 deployments today

Single system to support and manage rights

Share infrastructure/capacity across products

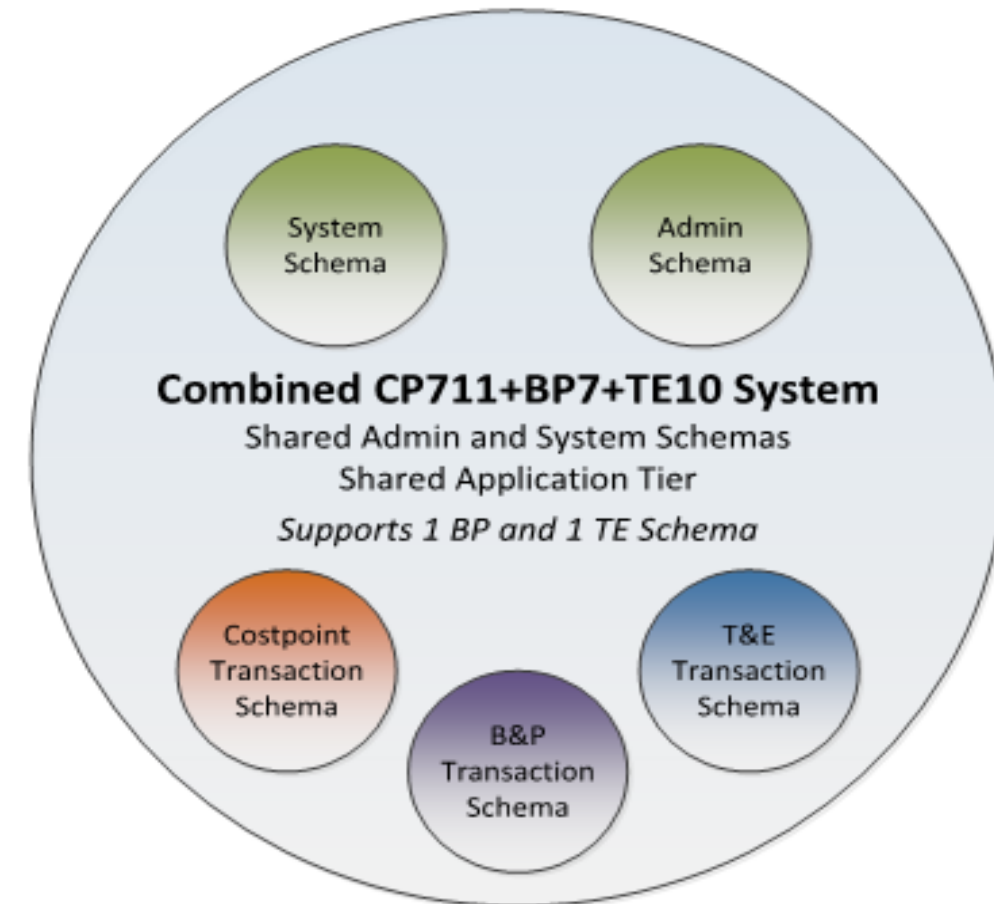
If ESS is used single system for all users to login

Access to CER/Cognos from CP menu through SSO

Can use Sub-contractor mgmt. feature

One-click export of Timesheets and Expenses

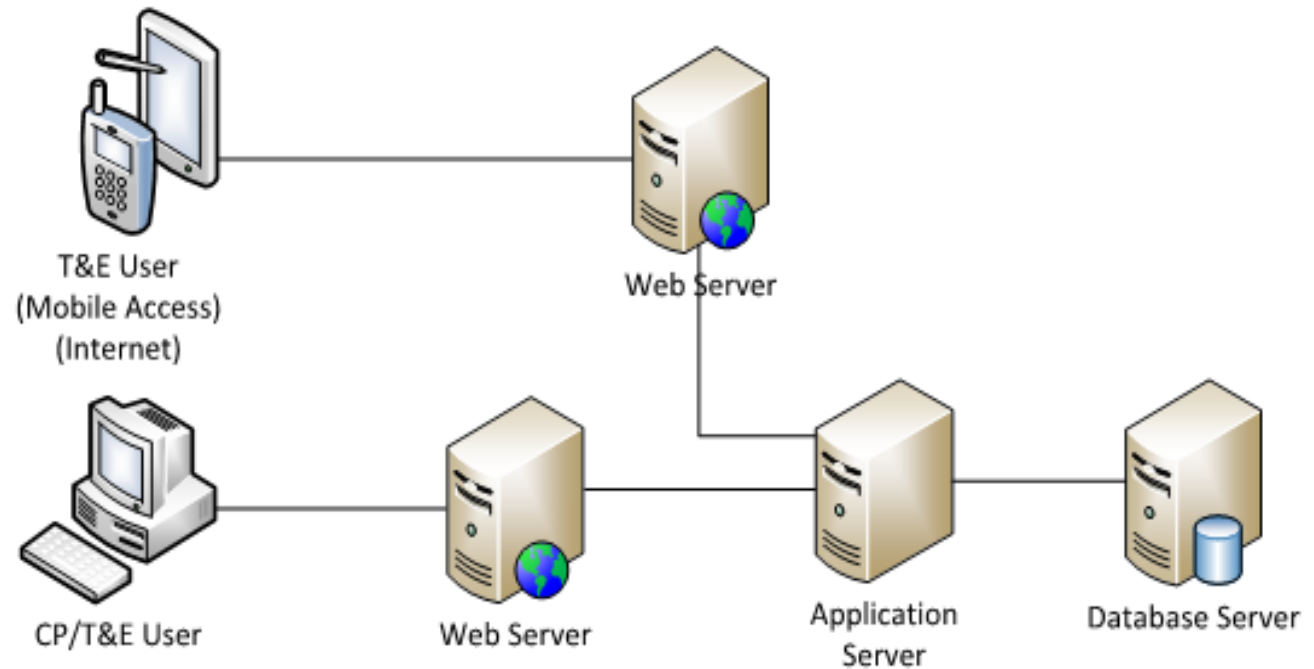
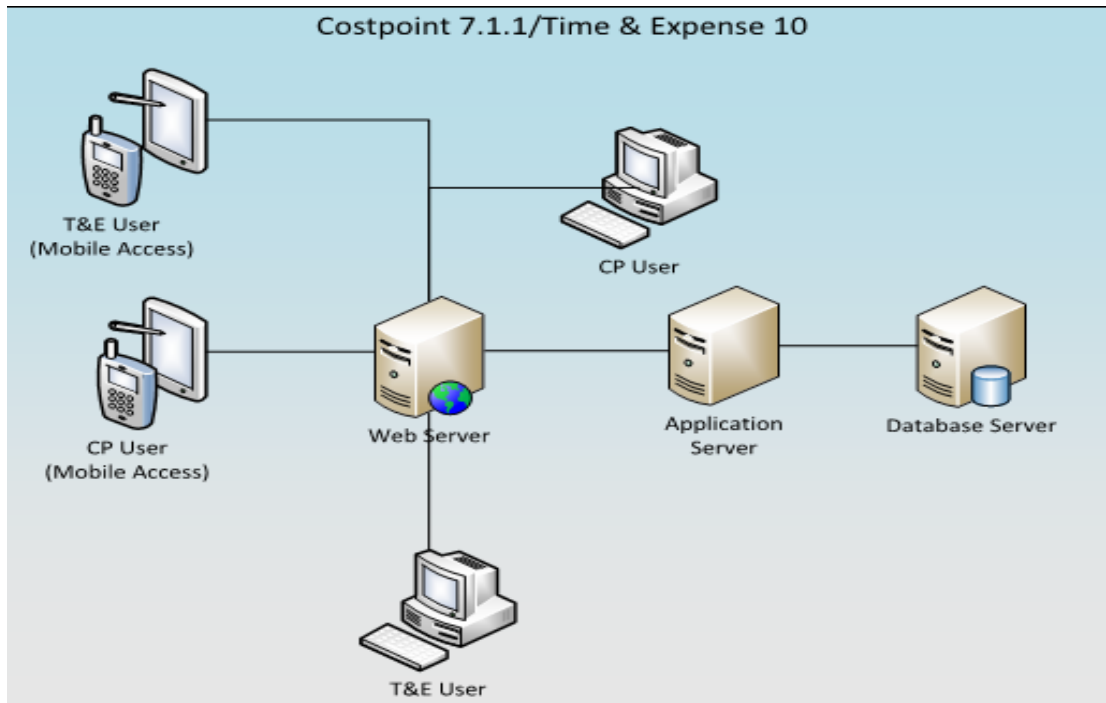
Automatic T&E and ESS user creation



Deployment options with T&E10 and B&P7

» “Share everything” model

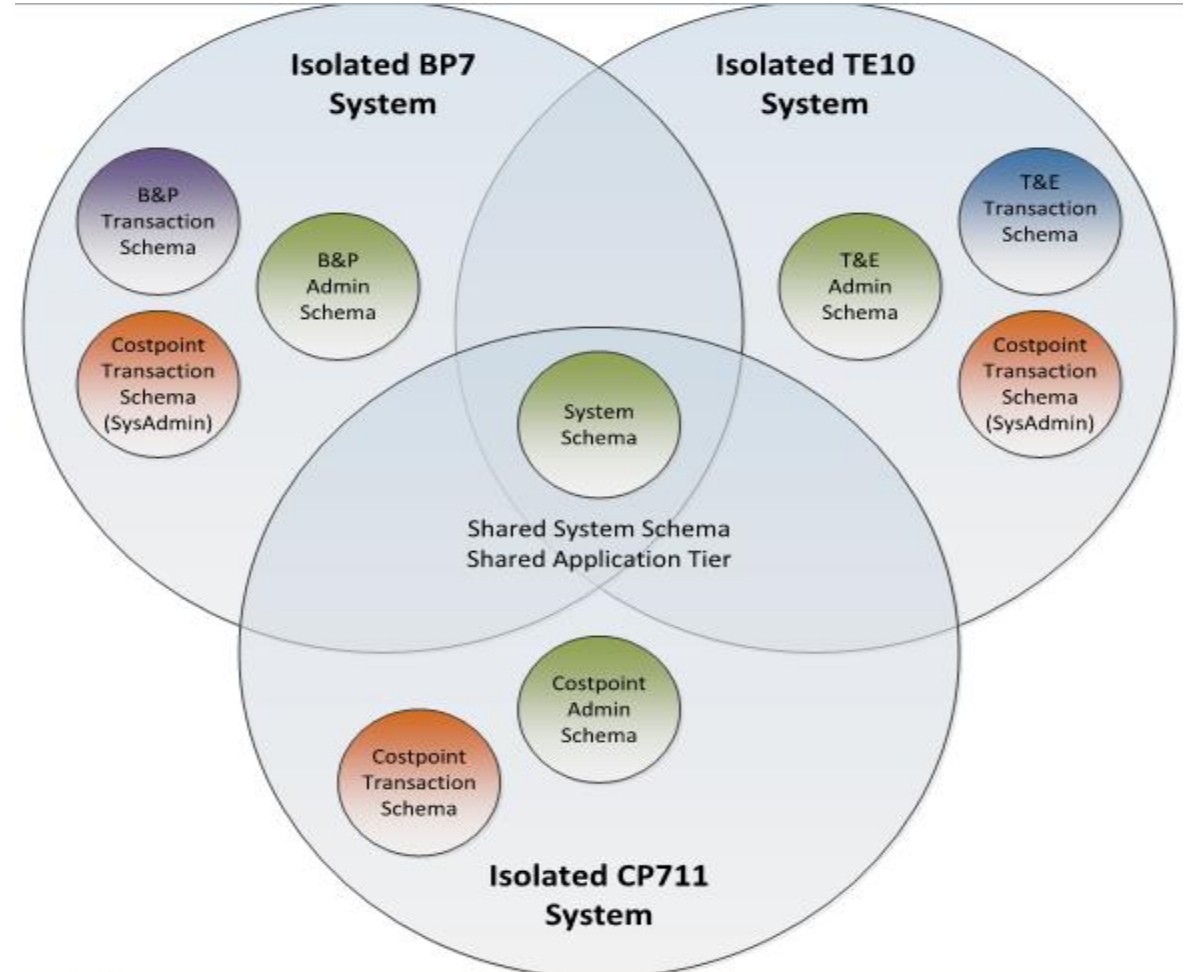
» You can control access by product (Internet vs Intranet)



Deployment options with T&E10 and B&P7

» “Share infrastructure” model

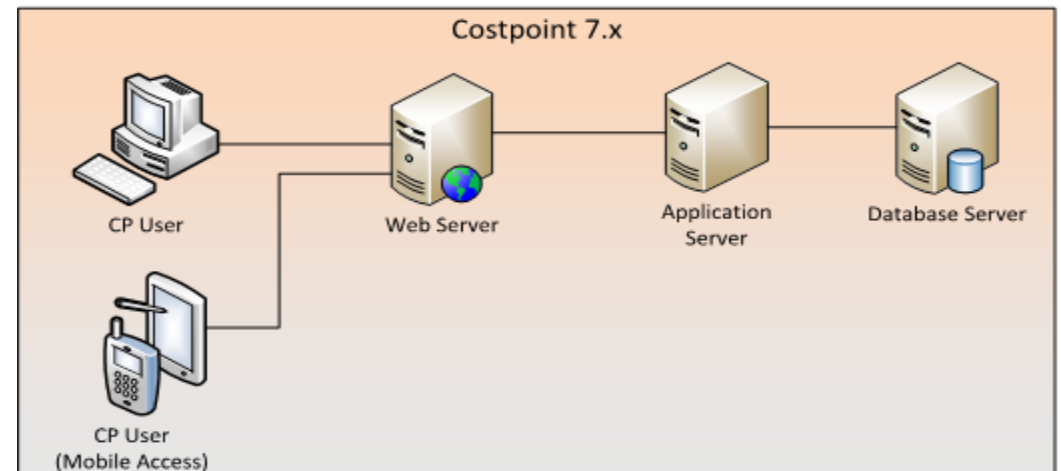
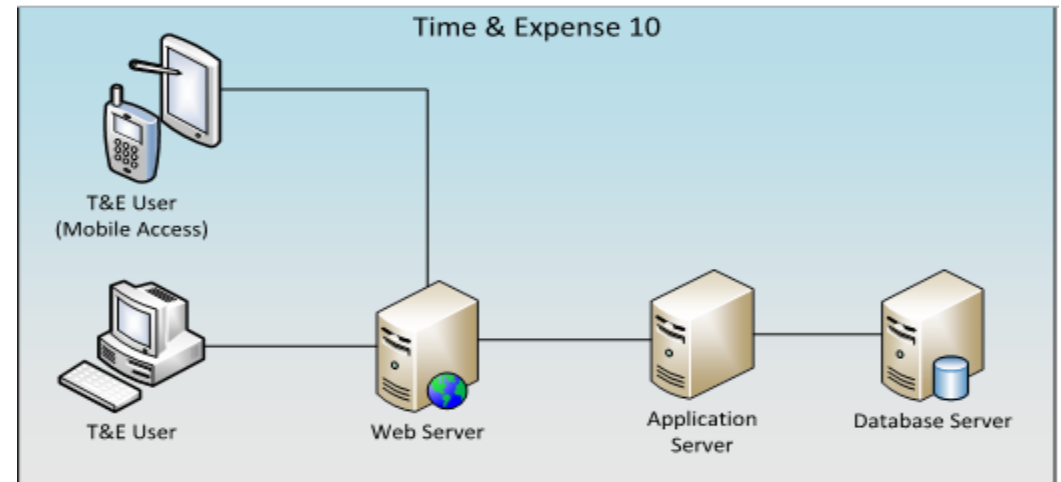
- » One shared Weblogic server/cluster but separate systems for each product
- » You can share metadata schema
- » All products must be on same system jar
- » Each product can have its own users and administrators
- » Share infrastructure/capacity across products
- » *No direct integration*



Deployment options with T&E10 and B&P7

» “Share nothing” model

- » Completely separate deployments for each product (same as today with T&E9 and B&P6)
- » Products could be on different patch versions
- » *No direct integration*



Technical features available in CP7, TE10 and B&P7

Comprehensive security framework – AD, ADFS, Azure, Kerberos, SAML, biometric authentication

» *For more information please attend CP-62 SAML and Biometric Authentication in CP 7*

Generic Integration Framework – virtually any application can be exposed through Web Service

Comprehensive Extensibility Framework – ability to customize existing applications and create new ones

» *For more information please attend CP-78 Lesser known Extensibility Features*

Integration with Content Management Systems – Sharepoint, IBM Filenet, Alfresco, OnBase, and more

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Platform support updates



Platform support

- » Added support for Weblogic 12.2.1.3 – July 2018
 - » Weblogic 12.1.3 will be de-supported December 31, 2019, to align with Oracle's end of free extended support
- » Added support for SqlServer 2017 – July 2018
 - » SqlServer 2014 was de-supported July 1, 2019
- » Oracle 11g was de-supported Dec 31, 2018 in line with Oracle ending free extended support
- » Added support for Oracle 18c
- » Support for Oracle 19c – in testing
- » Support for Web Authentication standard (previously FIDO)
 - » Already supported by vendors in Chrome, Edge, and Firefox. Safari in progress by Apple
 - » *Please attend CP62: SAML and Biometric authentication with CP 7 (Wed, 11:10AM, Destin 1-2)*

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New release model/methodology



Changes in release methodology

- » 2012 - mid 2019 – Costpoint was utilizing “continuous delivery model”
 - » 7.0.1 – stabilization release (no enhancements)
 - » 7.1.1 – innovation release
 - enhancements released once ready (developed and tested)
 - Defect fixes (all severities) are released once ready
 - “pick & choose” model for deploying fixes and enhancements
 - Can select app jars and libraries to deploy without a system jar

Changes in release methodology

- » mid 2019 and going forward Costpoint will be using new release model
 - » New minor/major release about every 9-12 months
 - » No enhancements in already released versions i.e. all enhancements go into future releases
 - » Only fixing Sev1 and Sev2 defects in released versions i.e. Sev3/4 defects are deferred to next release
 - » No pick & choose option to deploy fixes (starting with January 2020 for 7.1.1)
 - One monthly all inclusive Cumulative Update (CU) bundle for CP, TE, BP
 - Regulatory updates will be offered as a separate bundle

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Less known usability features for desktop/laptop and mobile access



Progressive Web Applications (PWA)

- » Original vision laid out by Steve Jobs at Apple Dev conference in 2007
 - » <https://www.youtube.com/watch?v=8Vq993Td6ys>
 - » Since Web is the future the only application you need on your iPhone is Safari
- » In 2015 Google laid out a comprehensive vision for next generation applications:
 - » will **combine** the advantages of browser-based and native applications
 - » on **any** device or operating system – desktop, laptop, tablet, phone, Windows, Android, iOS
 - » based entirely on **open standards**
 - » A new term was coined – **Progressive Web Application (PWA)**
- » Microsoft and open source developer community quickly joined the project
- » Apple released support for key PWA features in Safari in the last 2 years

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Progressive Web Applications (PWA)

Examples of PWA capabilities:

- Deployed on a given device/OS as a native application with or without proprietary store
- Ability to work offline or with poor connection
- Full screen display on any device – same as native applications
- Ability to receive/display native notifications on any device
- Ability to use UI controls native to the device – e.g. native combo-box picker on iOS
- Access to native APIs on Windows or mobile device features (camera, GPS, Bluetooth, etc)

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Demo



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PWA and Native app capabilities for Enter Time



Browser/PWA capabilities for mobile Enter Time

	Browser/PWA	Native
Icon on the phone	Yes	Yes
Application must be installed from Google or Apple store	No	Yes
IT can push application/icon to users' devices through MDM or private store	Yes	No
IT has full control over version of the application on users' devices	Yes	No
Application is automatically refreshed when IT installs updates on the server	Yes	No
Application supports all Authentication methods available in Costpoint including SSO/SAML	Yes	No (DB/AD authentication supported, plan to add SAML)
Application supports all functionality available on a desktop	Yes	No
Application supports/utilizes both Portrait and Landscape orientation	Yes	No
Application supports other CP/TE screens besides Enter/Approve Time	Yes	No

Questions and Answers



Call to Action

- » See Deltek Costpoint in the Solutions Pavilion
- » Attend Additional Sessions on Deltek Costpoint for More In-Depth Information
 - » CP-62: Tech Titans: SAML and Biometric Authentication with Costpoint 7
 - » CP-68: Blockchain & Digital signatures = Legally Enforceable Costpoint Transaction
 - » CP-69: Optimally Deploying and Configuring Costpoint
 - » CP-78: Tech Titans: Lesser known Extensibility Features



Next Steps

1. Complete the session survey in the mobile app.
2. Utilize the Post-Event Toolkit to share what you've learned.
3. You can download Continuing Education credit information from your certificate hub link. The link is in the mobile app and will be emailed to you after the conference.

Downloading Presentations?

- Available presentation PDFs are in the Insight Attendee Portal (Schedule Builder) and in the mobile app.
- Online and mobile app access to this year's presentations expires on March 1, 2020.