



COLLABORATE 18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

APEX in EBS SIG

Session ID:

10335

Prepared by:

John Peters
Sylvain Martel
Chad Johnson

April 23th, 2018

Remember to complete your evaluation for this session within the app!

#C18LV

Your future's bright.

WHEN YOU RELY
ON THE OAUG TO
ILLUMINATE YOUR PATH!

**VISIT BOOTH 1335 TO DISCOVER
HOW OAUG MEMBERS SHINE.**

OAUG OAUG.ORG/ILLUMINATE

OAUG is doing an awesome job to bring valuable content at Collaborate and throughout the year. You have access to a selection of presentations, recorded webinars and white papers to help your organization getting the most of your software investments.

Make sure to visit their booth and sign up as a member if you are not already subscribing.

Agenda

- About the **APEX in EBS** SIG
- **APEX in EBS** SIG Past Events
- EBS R12.2 and APEX
- Large APEX applications strategy
- Overview of APEX 5.2
- APEX at Collaborate 18
- Q & A – General Discussions

About the APEX in EBS SIG



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

About “APEX in EBS” SIG

The purpose of the APEX for EBS SIG is to inform OAUG members on how to use APEX to solve business issues and showcase the successes that other organizations have had using APEX for EBS Extensions.

This SIG focuses on sharing knowledge and provide a forum for discussions related to creating EBS extensions using APEX for Oracle E-Business Applications Release 11i and Release 12.

John Peters - JRPJR
john.peters@jrpjr.com

Sylvain Martel – Insum
smartel@insum.ca

Chad Johnson – Polk County
chadjohnson@polk-county.net



This SIG really wants to help users, developers and organizations as a whole to discover how they can help themselves by using APEX in the context of EBS.

Even if we have topics to presents, these SIG sessions are an opportunity for the community to discuss and share with other member on subjects and experiences related to APEX. There will be time towards the end of the session for an « open mic » session.

Non Scientific Survey!



Ask the attendees which ERP they are using. On-Premise? Cloud? EBS R12.,1/ R12.2 / 11i ?

Ask the attendees which version of APEX they are using? Are you following new releases?

Ask the attendees their challenges with APEX in EBS.

APEX in EBS SIG Past Events



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

APEX in EBS SIG Past Events

- First **APEX in EBS** SIG meeting at Collaborate 17
- **APEX in EBS** SIG presentation at Oracle Open World 17 conference
- Webinars
 - Turbocharge your E-Business Suite Development with Oracle Application Express!
Alfredo Abate, Senior Oracle Systems Architect – Brake Parts Inc.
 - Security, Audit, Controls and Compliance for EBS using Oracle APEX
Suneel Tiruveedhula, Senior Applications DBA - Kirby Corporation



We have started to present APEX in EBS topics since our inaugural event last year at Collaborate. There will be more webinars to come in the coming weeks and months.

With the announcement of the new APEX 5.2, we will definitely make every effort to present a webinar on that subject to our members.

Ask attendees subjects they would like to see in the coming year.

EBS R12.2 and APEX



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

EBS R12.2 and APEX

- Online patching requires some programming changes
 - XX database schema needs to EBR enabled
 - Upgrade custom table for online patching

```
exec ad_zd_table.upgrade('XX', 'XX_CUSTOM_TABLE')
```

 - Creates an Editioning View ending with “#” (make sure table names are less than 29 characters)
 - Creates a grant ALL for APPS on Editioning View
 - Creates a synonym in APPS for Editioning View
 - Create triggers on the Editioning View
 - Use Editioning View in APEX applications



EBS R12.2 online patching is a very complex process. There is definitely a lot to learn but the essential part related to development changes using APEX are fairly minimal and easy to implement.

Question periods. Chances for attendees to interact.

Large APEX applications strategy



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

Large APEX Application Strategy

- Option 1
 - Export individual application pages
 - Control page version in SVN
 - High chances of dependencies with other pages or application items/processes
- Option 2
 - Split a large application in multiple smaller applications
 - This is similar to APEX Builder / SQL Workshop / Team Development / Packages Apps
 - Make sure field **Cookie Name** in **Authentication Scheme** contains a common value
 - Application items shared by each application need to be set a **Global**



As APEX is used to developed large application, strategies have to be implemented to allow larger development groups to implement modules and functionalities in an agile way. Based on customer experiences and best practices, development options are presented.

Question periods. Chances for attendees to interact.

Overview of APEX 5.2



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

Overview of APEX 5.2 New Features

- Top 5 New Features
 - New Create App Wizard
 - REST Service Consumption
 - Page Designer Improvements
 - Interactive Grid Enhancements
 - REST Enabled SQL Support



New Create App Wizard

- New and improved user experience for creating applications
- Simpler wizards for creating pages
- Add common frameworks or “features” to applications such as activity reporting, access control, theme selection and more
- Customize user interface options such as Theme Style, application icon and page icons
- Leverage existing applications or UI defaults to default labels and form display types

REST Service Consumption

- Create and maintain references to REST services (Web Source Modules) within Shared Components
- Leverage Oracle REST Data Services features like server-side filtering or pagination to fetch only required data from the REST service
- Use Simple HTTP for generic REST services, JSON or XML data feeds
- Have Application Express automatically discover and maintain the Data Profile; no manual SQL or PL/SQL coding is required for JSON or XML parsing
- Use Web Sources as the data source for Classic Reports, Interactive Reports, Oracle

JET Charts or the CSS Calendar

- Use the APEX_EXEC PL/SQL package in order to invoke REST services from within custom PL/SQL code in Plug-Ins or page processes.

Page Designer Improvements

- Property Editor
 - Updated UI to improve usability
 - Removed show common / show all, and collapse all / expand all functionality
 - When a property has focus, the group becomes highlighted
 - Improved 'Go to group' functionality
- Sticky Filters
 - Filters can now be pinned so you can filter on something and click across to other components maintaining the filter

Interactive Grid Enhancements

- Copy Down support and range selection; see new Actions > Selection sub menu (Fill and Clear)
- Copy to Clipboard (for row or cell range selections)
- Expose additional events to Dynamic Actions

REST Enabled SQL Support

- Create and maintain references to REST Enabled SQL instances (Oracle REST Data Services) in Shared Components
- Use a REST Enabled SQL Service and therefore a remote Oracle database as the data source for Classic Reports, Interactive Reports, Oracle JET Charts or CSS Calendar
- Execute PL/SQL page processes on a remote Oracle database
- Use the APEX_EXEC PL/SQL package to execute SQL Queries or PL/SQL blocks on a remote database, from within your custom PL/SQL code.

New Create App Wizard

- New and improved user experience for creating applications
- Simpler wizards for creating pages
- Add common frameworks or “features” to applications such as activity reporting, access control, theme selection and more
- Customize user interface options such as Theme Style, application icon and page icons
- Leverage existing applications or UI defaults to default labels and form display types



New Create App Wizard

- New and improved user experience for creating applications
- Simpler wizards for creating pages
- Add common frameworks or “features” to applications such as activity reporting, access control, theme selection and more
- Customize user interface options such as Theme Style, application icon and page icons
- Leverage existing applications or UI defaults to default labels and form display types

REST Service Consumption

- Create and maintain references to REST services (Web Source Modules) within Shared Components
- Leverage Oracle REST Data Services features like server-side filtering or pagination to fetch only required data from the REST service
- Use Simple HTTP for generic REST services, JSON or XML data feeds
- Have Application Express automatically discover and maintain the Data Profile; no manual SQL or PL/SQL coding is required for JSON or XML parsing
- Use Web Sources as the data source for Classic Reports, Interactive Reports, Oracle JET Charts or the CSS Calendar
- Use the APEX_EXEC PL/SQL package in order to invoke REST services from within custom PL/SQL code in Plug-Ins or page processes.



REST Service Consumption

- Create and maintain references to REST services (Web Source Modules) within Shared Components
- Leverage Oracle REST Data Services features like server-side filtering or pagination to fetch only required data from the REST service
- Use Simple HTTP for generic REST services, JSON or XML data feeds
- Have Application Express automatically discover and maintain the Data Profile; no manual SQL or PL/SQL coding is required for JSON or XML parsing
- Use Web Sources as the data source for Classic Reports, Interactive Reports, Oracle JET Charts or the CSS Calendar
- Use the APEX_EXEC PL/SQL package in order to invoke REST services from within custom PL/SQL code in Plug-Ins or page processes.

Page Designer Improvements

- Property Editor
- Updated UI to improve usability
- Removed show common / show all, and collapse all / expand all functionality
- When a property has focus, the group becomes highlighted
- Improved 'Go to group' functionality
- Sticky Filters
- Filters can now be pinned so you can filter on something and click across to other components maintaining the filter



Page Designer Improvements

- Property Editor
 - Updated UI to improve usability
 - Removed show common / show all, and collapse all / expand all functionality
 - When a property has focus, the group becomes highlighted
 - Improved 'Go to group' functionality
- Sticky Filters
 - Filters can now be pinned so you can filter on something and click across to other components maintaining the filter

Interactive Grid Enhancements

- Copy Down support and range selection; see new Actions > Selection sub menu (Fill and Clear)
- Copy to Clipboard (for row or cell range selections)
- Expose additional events to Dynamic Actions



Interactive Grid Enhancements

- Copy Down support and range selection; see new Actions > Selection sub menu (Fill and Clear)
- Copy to Clipboard (for row or cell range selections)
- Expose additional events to Dynamic Actions

REST Enabled SQL Support

- Create and maintain references to REST Enabled SQL instances (Oracle REST Data Services) in Shared Components
- Use a REST Enabled SQL Service and therefore a remote Oracle database as the data source for Classic Reports, Interactive Reports, Oracle JET Charts or CSS Calendar
- Execute PL/SQL page processes on a remote Oracle database
- Use the APEX_EXEC PL/SQL package to execute SQL Queries or PL/SQL blocks on a remote database, from within your custom PL/SQL code.



REST Enabled SQL Support

- Create and maintain references to REST Enabled SQL instances (Oracle REST Data Services) in Shared Components
- Use a REST Enabled SQL Service and therefore a remote Oracle database as the data source for Classic Reports, Interactive Reports, Oracle JET Charts or CSS Calendar
- Execute PL/SQL page processes on a remote Oracle database
- Use the APEX_EXEC PL/SQL package to execute SQL Queries or PL/SQL blocks on a remote database, from within your custom PL/SQL code.

APEX at Collaborate 18



COLLABORATE18

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

APEX at Collaborate 18

- AMAZING 21 APEX related sessions this year!
- Here is the list!...

APEX at Collaborate 18

- Creating an Enterprise Reporting Platform With APEX and E-Business Suite
April 22nd @ 1:45pm – Breakers D (session ID: 10442)
- Oracle Application Express Administration for the EBS DBA
April 22nd @ 1:45pm – Breakers C (session ID: 10244)
- How I Load Data; Let Me Count the Ways, Revisited
April 23rd @ 1:15pm – Banyan C (session ID: 1151)
- Switch On! Switch Off! Apex Style!
April 23rd @ 1:15pm – Breakers C (session ID: 10071)
- Building APEX Visual Workforce Dashboards From EBS and Non-EBS Data with IoT on Private Cloud
April 24th @ 1:15pm – Banyan E (session ID: 10075)
- Controlling CEMLI: A Code Migration Methodology
April 24th @ 1:15pm – Breakers C (session ID: 10154)



APEX at Collaborate 18

- Challenge Taken: Integrating & Extending Procurement Cloud at a Multinational Real-Estate Company
April 25th @ 8:30am – South Seas H (session ID: 10092)
- Migrating Oracle Discoverer to Oracle Application Express (APEX)...Automagically
April 25th @ 8:30am – Banyan E (session ID: 10458)
- Timecards and Timekeeping in Five Acts: Microapps in APEX for Web, Desktop, Slack, SMS, and Voice
April 25th @ 8:30am – Banyan C (session ID: 1643)
- Oracle Forms and Oracle Application Express : The Odd Couple
April 25th @ 9:45am – Jasmine H (session ID: 1376)
- A New Approach to Discoverer Replacement With 12.2 Analytic Views Metadata and APEX Visualization
April 25th @ 11:00am – South Pacific H (session ID: 10241)
- From Bits of Paper to an Optimized Hospital Theatre Supply Chain
April 25th @ 11:00am – Breakers G (session ID: 10050)
- Mobile Application for E-Business Suite Made Easy With Application Express
April 25th @ 1:15pm – Breakers E (session ID: 10297)



APEX at Collaborate 18

- Tales From Retiring Discoverer: How We Found Out That There Was NO Silver Bullet
April 25th @ 2:30pm – Banyan D (session ID: 10096)
- Application Express Interface for E-Business Suite Payroll and 3rd Party Timekeeping Systems
April 25th @ 4:15pm – Breakers F (session ID: 10375)
- Streamlining Month-End Closing With Application Express (APEX)
April 25th @ 4:15pm – Breakers J (session ID: 10003)
- What Every DBA Needs to Know about Oracle Application Express (APEX)
April 25th @ 4:15pm – Palm A (session ID: 1450)
- Improve Period Close Experience With QuickLooks
April 26th @ 8:30am – Breakers I (session ID: 10345)
- Application Express and the Colors of Enterprise Resources Planning on the Cloud
April 26th @ 9:45am – Banyan E (session ID: 10298)



APEX at Collaborate 18

- The Basics of Integrating Application Express With E-Business Suite (The ABCs of EBS and APEX)
April 26th @ 9:45am – Banyan J (session ID: 10373)
- E-Business Suite Tax Reporting Extensions With Application Express (APEX)
April 26th @ 11:00am – Breakers H (session ID: 10189)



COLLABORATE18
TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

Q & A

Session ID:

10335

Remember to complete your evaluation for this session within the app!

#C18LV