

## Adding Groups to the Printed Purchase Order: Provided starting with Release 12.1.X

By: Jake Walsh

Prior to release 12.1 the only accepted method for adding data to be used in the Printed Purchase Order via the 'PO Output for Communication' concurrent program was to add fields to the delivered Oracle views that are used to generate the data (PO\_HEADERS\_XML, PO\_LINES\_XML, etc...). There was no accepted method for adding new groups to the XML output.

### Business Case:

Our client wanted to add a number of fields in multiple different XML groups...Vendor address information, Requisition information, Vendor Notes, Cost Center and Approval Action History.

The Approval Action history was used to determine who's signature should be added electronically to the purchase order as it moved through the approval process.

The code below illustrates the how this requirement was met.



PO\_CUSTOM\_XMLGEN\_PKG.pkb



XX\_PO\_CUSTOM\_XMLGEN\_PKG.pkb

### Solution:

#### **My Oracle Support (Doc ID: 1946377.1) PO PDF Generation Custom Hook**

Oracle has introduced a new custom hook in the form of a database package (PO\_CUSTOM\_XMLGEN\_PKG) as a placeholder for custom code. This custom hook is a provision creating additional XML groups to the output generated by the 'PO Output for Communication' concurrent program.

The new package contains one procedure (generate\_xml\_fragment) which takes in the document ID, revision number, document type and document sub-type as inputs. The output is the custom xml generated. This procedure uses the dbms\_xmlgen utility to format the new XML output.

It is suggested that you create a copy of PO\_CUSTOM\_XMLGEN\_PKG and rename it as a custom object (ie. XXPO\_CUSTOM\_XMLGEN\_PKG). This is suggested so that your custom logic is not lost during an upgrade or patching. The only changes to the PO\_CUSTOM\_XMLGEN\_PKG.generate\_xml\_fragment would be to call the custom copy PO\_CUSTOM\_XMLGEN\_PKG.generate\_xml\_fragment.

### **Pseudo Code:**

1. Call `dbms_xmlgen.newContext` and pass a select statement which references `PO_COMMUNICATION_PVT` in the where condition to select the data required. For example `'PO_COMMUNICATION_PVT.GetDocumentId()'` will return the `po_header_id`. There are a number of different values that are provided by `PO_COMMUNICATION_PVT`.
2. Call `dbms_xmlgen.setRowsetTag` to set the name of the XML fragment result set. Pass in the value generated by `dbms_xmlgen.newContext`.
3. Call `dbms_xmlgen.setRowTag` to set the name of the XML tag for the result set. Pass in the value generated by `dbms_xmlgen.newContext`.
4. Set the output parameter value using `dbms_xmlgen.getXML`. Pass in the value generated by `dbms_xmlgen.newContext`.
5. Use `dbms_xmlgen.closeContext` to close the xml group.

### **About the Author**

Jake Walsh is an accomplished Oracle EBS, Oracle Custom Development and Business Intelligence architect, designer and developer with over nineteen years of experience in working with Oracle. Specialties include project management, requirements gathering, design and build of reports, conversions, interfaces and extensions. As a hands-on manager, Jake has led a number of technical teams on successful, large-scale implementations and upgrades of differing Oracle modules as well as managed budgets and timelines. As a technical architect he has designed and built custom extensions, conversions and user interfaces on several projects.

Mr. Walsh has experience in various industries with the Oracle development technology stack and with the Oracle Financials, Oracle Projects, Oracle Human Resources, Oracle Advanced Benefits, Order Management and Manufacturing and Planning/Forecasting modules including Oracle Process Manufacturing, Oracle Warehouse Management, Advanced Supply Chain Planning and Demantra. Jake can be reached at [jwalsh@o2works.com](mailto:jwalsh@o2works.com).

### **About O2Works**

O2 Works LLC was founded in 2001 as has its principal office in Dallas, Texas located on 1701 N Market Street, Suite 313 along with offices in Chicago, Denver and Virginia. We focus strictly on providing expert, hands-on consulting resources for the Oracle e-Business suite of applications. Our skilled consultants have more than 18 years of Oracle applications experience as well as strong business backgrounds.

We are a Certified Oracle Partner firm and are very active in the Oracle Application User Group, where we are a Level 3 partner. We invest a significant amount of time and effort in our Oracle Application User Group (OAUG) activities. In addition to being presenters at numerous events, we hold positions for various national and regional groups. This affords us the ability to build relationships with new leaders at Oracle and work with Oracle development on new features and programs.

We are 100% focused on the Oracle e-Business suite and have some of the most experienced and highly regarded hands-on consultants in the industry. "Putting Oracle to Work" means that we help our customers get the most out of their Oracle investment by providing our in-depth application knowledge and effectively communicating shared best practices. Our ability to add value to an organization is further enhanced by our years of practical business experience and excellent communication skills.

We understand the importance of combining business knowledge with functional Oracle application know-how. It is that blend that enables the innovative problem solving that O2Works is known for. Unfortunately, many organizations today may lack resources with the depth and breadth of knowledge to get the most out of their Oracle ERP investment. With our up-to-date knowledge of the latest release of the Oracle applications and Best Practice approaches as well as tricks-of-the-trade, we can help companies to bridge the gap.

O2Works, while focused strictly on the Oracle e-Business suite of applications offers a variety of value-added services including:

- ☑ **Upgrades and/or Re-implementations** – We provide the full range of capabilities from Upgrade planning to functional testing and training as well as DBA and Project Management support
- ☑ **Implementations** – We offer the full range of technical and functional EBS implementation services for the full suite or individual modules depending upon the customer's needs
- ☑ **Remote Support** - DBA / Sys. Admin and functional apps support – Our Experts on Call offerings (DBA/Sys Admin., Functional, and Developer/Analyst) supply organizations with personalized, high quality, rapid response support at a fraction of the cost of an FTE
- ☑ **Application Optimization & Performance Tuning** – We provide assessments as well as remediation services (including training) for all types of functional and technical issues in order to assist organizations to maximize their Oracle investment
- ☑ **Project Management** - full time or supplemental – Our experienced resources who have both application and business skills are capable of providing Project Management services on either a part-time or full time basis depending on the project needs
- ☑ **Development and design capabilities** – Our highly skilled developer analysts possess business know-how and communication skills that enable them to develop useful solutions to solve the client's problems. They participate in the requirements development and develop a useful solution as opposed to "just" coding
- ☑ **Quality Assurance** – Heavily experienced resources and proven, successful methodology enable us to deliver Quality Assurance to all types of Oracle EBS projects and issues
- ☑ **Client Advocate** - advisory and planning – Due to our deep Oracle application skills and business knowledge we provide advisory services to variety of clients and assist them to maximize their Oracle investment. The trusted advisor role is the foundation for many of our long standing client relationships
- ☑ **Training** - applications and system – Our experienced resources often provide personalized training to organizations looking to increase their knowledge and update their skills

- ☑ **Application Maintenance and Support** – This applies not only to maintaining patch levels (as well as the requisite testing) but also assisting with application and process changes to maintain the fit between the organization and their EBS applications
- ☑ **Testing: planning and support** – Whether is an implementation (full or partial), an upgrade, or just required patching, we provide test plan assessment and development services as well as testing support
- ☑ **Applications Restructuring Planning** – Many organizations have outgrown their original Oracle applications implementations because of changes to their business structure. With our intricate knowledge of the Oracle applications and our insight as to future Oracle direction, we frequently assist organizations in reviewing their Oracle application footprint and support them by providing knowledge about new features or functionality that can be incorporated
- ☑ **Divestitures and Acquisitions** - rapid re-implementations. These types of transactions generally cause major changes to the ERP landscape at a time when things must be done quickly. Our proven rapid re-implementation approach allows companies to focus on those set-up issues that need to change and streamlines the planning process and implementation timeline

Our experienced, hands-on resources enable us to bring a strong breadth of services focused on the e-Business suite. There is no substitute for experience. We have a strong mix of functional consultants with business backgrounds and effective communications skills who know how to use the Oracle applications to solve business problems. All of our consultants are based in the United States.

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