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# Banner Workflow Release Guide

Release 8.3  
February 27, 2015



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# Enhancements and Problem Resolutions

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This guide documents the enhancements and problem resolutions in Release 8.3 of the Banner Workflow System.

## Functional Enhancements

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### Context Parameter Support for Timer Activities

Timer activities are used to pause the workflow for a specific duration of days, hours, and minutes, or until a specified date and time. In Banner Workflow 8.2, the duration or date/time had to be specified when the workflow was defined. Banner Workflow 8.3 introduces support for context parameters to allow the duration or date/time to be specified during workflow processing.

For a detailed description and the procedures, see the "Timer Activities" section in the *Banner Workflow Analyst/Administrator Handbook*

## Technical Enhancements

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### Support For Tomcat

Banner Workflow 8.3 supports installation of Workflow with Apache Tomcat web server. Banner Workflow now supports both Oracle WebLogic and Apache Tomcat.

For instructions for installing and configuring Banner Workflow with Tomcat, see the *Banner Workflow Technical Integration Guide*.

### Support For IPv6

Banner Workflow 8.3 supports Internet Protocol version 6 (IPv6). Workflow 8.3 will work on machines with IPv6 enabled.

## Support For Oracle 12c

Banner Workflow 8.3 supports Oracle Database version 12c. Workflow now supports versions 10g R2 (10.2), 11g R1 (11.1.x), 11g R2 (11.2.x), and 12c R1 (12.1.0.2.0).

## Updated Browser Support

Banner Workflow 8.3 adds support for the Safari and Google Chrome web browsers, and also for new versions of Internet Explorer and Firefox. For the supported versions, see the *Banner Release Interdependency Matrix*, available from the Documentation Libraries area of the [Ellucian Support Center](#).)

## MEP-Aware Technology Types

Banner Workflow 8.3 includes two new technology types to support multi-entity processing (MEP):

- MEP-aware SQL Query - for creating SQL query automated activities.
- MEP-aware Stored Procedure- for creating stored procedure automated activities.

These technology types were added primarily to allow Banner Travel and Expense to support MEP.

For details, see the "MEP-aware Automated SQL Activities" section in the *Banner Workflow Analyst/Administrator Handbook*

## setWorkflowContext Web Service

Banner Workflow 8.3 includes a new web service, setWorkflowContext, used to update parameter names and values for a workflow. For example, the setWorkflowContext web service can be used to fix issues with context parameters in a dynamic wait date in a timer activity. For that procedure see the section on *Workflow Alert: "Parameter type mismatch for: TimerWaitDate"* in the *Banner Workflow Analyst/Administrator Handbook*.

## Problem Resolutions

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### Fix for CAS Client Security Vulnerability CVE-2014-4172

A critical security vulnerability has been discovered in several Jasig/Apereo CAS clients that allows URL parameter injection due to improper URL encoding at the back-channel ticket validation step of the CAS protocol (referenced as CVE-2014-4172).

In Banner Workflow 8.3, the CAS Client JAR has been updated to version 3.3.3 to address this vulnerability.

## Other Problem Resolutions

The following issues have been addressed since the release of Workflow 8.2. Some of these issues were addressed in Workflow 8.2 patch releases. All of these issues are resolved in Workflow 8.3.



**Note:** The Banner Workflow Resolutions Report 8.3 is a companion to this release guide. The Resolutions Report provides summary information about the change requests that are resolved in Banner Workflow 8.3. It is available in the Banner Workflow documentation library in the [Ellucian Support Center](#). The final list may include additional defects that were resolved after this document was finalized.

**Table 1: Problem Resolutions in Banner Workflow 8.3**

Object	Number	Summary
Internationalization	CR 1-1C3BRBD	Hard coded "Error" in Modeler.
Internationalization	CR-000125293	Navigation buttons are in English on PDF print preview window.
Internationalization	CR-000125294	Menu item Revert is in English in Custom Activity Designer.
Internationalization	CR-000125295	Under Business Component Catalog, parameter types appear in English on Add Parameter page.
Application	CR 1-1AA0LRZ	System Verification - Install file uses version 4 for the business components.
Application	CR-000120676	Missing context parameter and value in Custom Form.
Application	CR-000124097	Dynamic Role/Performer Rule combination sends workitem to the worklist to all users on the role ignoring the performer specified.
Application	CR-000125296	CSS Class attribute Not in HTML for display area and radio button.
Modeler	CR-000108452	Estimated time for metrics tracking cannot be set beyond 24 hours.
Security	CR 1-JF342R, CR 1-IN4ZC5	Workflow passing cleartext username and password to Banner INB.
Performance	CR-000122177	Performance improvement for worklist.
Performance	CR-000114540	Performance improvement for users with large number of roles and proxies.