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Banner General Release Guide

Release 8.7.3
January 2015



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Revision History

Publication Date	Summary
January 2015	New version that supports Banner General 8.7.3 software.

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Introduction

This release guide documents release 8.7.3 of Banner® General. Banner General 8.7.3 includes Job Submission enhancement as well as change requests addressed in Banner General 8.7.1.1.

Enhanced Job Submission

This document describes changes made to enhance Banner Job Submission processing in a Unix or Linux operating system environment.



Note: This release guide pertains to only Banner General Job Submission processes.

The Job Submission Control Form (GJAPCTL) allows users to submit a Banner job or report for processing. Most jobs in the Job Submission service execute a (`.shl`) file that makes the appropriate calls to other executable programs and packages based upon the job's type configured in the Process Maintenance Form (GJAJOB). The type of job indicates the programming language used to generate the report or execute a process. The following are the languages supported by baseline Job Submissions service:

- COBOL
- JAVA
- Pro*C

Changes have been made to ensure that the user's username and password will not be exposed while Job Submission is run on a Unix or Linux operating system. The user's username and password can now be written to a file in the filesystem during the submission of the job, before the (`.shl`) is executed. The credentials can then be obtained from the filesystem, as opposed to obtaining them from the positional parameters on the command line as has previously been the case. This filesystem file is readable only by the Job Submission owner (the `gurjobs` process) and is immediately deleted when it is no longer required.

Since most jobs in the Job Submission service execute a (`.shl`) file, the (`.shl`) file has been modified to run Job Submission the new way. In some cases, the corresponding program that the (`.shl`) file called also needed modification. The (`.shl`) file has been modified to create a pseudo-password string of `NOTVALIDPASSWD`. This is now the password that is passed and made visible to the Linux operating systems during execution, while the real username and password remain protected in the filesystem file. The (`.shl`) file has an *if* statement to look for the string `NOTVALIDPASSWD` to determine if this job is configured to run the new way or old way. The **Filesystem Credentials** check box on the GJAJOB form has to be selected for this pseudo-password to be passed.

Modified batch jobs

General 8.7.3 has modified and tested the following batch jobs to run the enhanced way. The **Filesystem Credentials** check box on GJAJOBS (GJBJOBS_CREDS_IN_FILE column) has been delivered as selected for the following batch jobs with this release.

- GJRRPTS
- GLBDATA
- GLBLSEL
- GLBPARM
- GLOLETT
- GLRLETR
- GORPGEO
- GORSEVE
- GORSGEO
- GORSRIN
- GPPADDR
- GUAVRFY
- GUPDELT
- GURDETL
- GURHELP
- GURIROL
- GURPDED
- GURTABL
- GURTEXT
- GURTPAC
- GUSMDID
- GKPPSQL

The following is an example that shows the modifications made to the GLOLETT job which calls the *glolett.shl* file and executes a COBOL process and GURINSO.pc. The primary *IF* branch is essentially the previous version of the *glolett.shl* file. This is such that if required, this process can run the old way (i.e. with the **Filesystem Credentials** check box unchecked). The primary *ELSE* branch is the (*.shl*) file modifications necessary for this process to run the new way (i.e. with the **Filesystem Credentials** check box checked).

```

if [ "$2" != "NOTVALIDPASSWD" ]
then
  CMDFILE=$HOME/$_RMJOB CMDFILE;
  cat /dev/null >$CMDFILE
  chmod 600 $CMDFILE
  #
  echo $1 $2 $3 $4 $5 >$CMDFILE
  $COBPREF GLOLETT$COBSUFIX >$HOME/glolett_$3.log 2>&1
  if [ "$5" = "DATABASE" ]
  then
    case $2 in
      /) UIPW=$2;;
      *) UIPW=$1/$2;;
    esac
    gurus -n $3 -l $HOME/glolett_$3.log -j $4 -w $1 $UIPW
  fi
  #
  if [ -n "$$PRNT" ]
  then
    if [ "$$PRNT" != "NOPRINT" -a "$$PRNT" != "DATABASE" ]
    then
      if [ -x $HOME/$TEMP.log ]
      then
        $PRNTOPT $HOME/$TEMP.log 1>>$LOG 2>&1
      fi
    fi
  fi
  #
  /bin/xm $CMDFILE
fi
CMDFILE=$HOME/$3.creds;
#
$COBPREF GLOLETT$COBSUFIX >$HOME/glolett_$3.log 2>&1
if [ "$5" = "DATABASE" ]
then
  case $2 in
    /) UIPW=$2;;
    *) UIPW=$1/$2;;
  esac
  gurus -n $3 -l $HOME/glolett_$3.log -y $HOME/gurinsc_$3.in -j $4 -w $1 $UIPW
fi
#
if [ -n "$$PRNT" ]
then
  if [ "$$PRNT" != "NOPRINT" -a "$$PRNT" != "DATABASE" ]
  then
    if [ -x $HOME/$TEMP.log ]
    then
      $PRNTOPT $HOME/$TEMP.log 1>>$LOG 2>&1
    fi
  fi
fi
#
/bin/xm $CMDFILE
/bin/xm $HOME/gurinsc_$3.in
/bin/xm $HOME/$3.creds
/bin/xm $HOME/glolett_$3.in
fi

```

Modified forms

The following form is modified for this release.

forms\gjajobs.fmb

Process Maintenance Form (GJAJOBS)

The following new check box is added to this form.

Field	Description
Filesystem Credentials	This check box allows the user to enable/disable the new functionality and decide which specific jobs in their job submission service should use the new functionality.

Modified tables

The following table is modified for this release.

Report/Process Definition Table (GJBJOBS)

The following new column is added to this table:

Column	Column Comments
GJBJOBS_CREDS_IN_FILE	Indicates whether job will be processed by obtaining authentication credentials from the filesystem or not. The column is of significance to the gurjobs process when running under the Operating System of Unix/Linux. A value of <i>N</i> or null value indicates to process the job with credentials passed as positional arguments. A value <i>Y</i> indicates to process the job with credentials obtained from the filesystem.

Modified processes

The following processes are modified for this release.

- guarpfe.c
- gsubsql.pc
- gurinso.pc
- gurjobs.pc
- gurcnvc.pc
- guaorac2.pc

New scripts

The following scripts are new for this release.

- ddl\gjbjobs_080703_01.sql
- ddl\gjbjobs_080703_02.sql
- dml\gjbjobsu_080703.sql

Modified scripts

The following scripts are modified for this release.

- gjajobs.shl
- glbdata.shl
- glblsel.shl
- glbparm.shl
- glolett.shl
- glrletr.shl
- gorsrin.shl
- guavrfy.shl
- jsm2gorblob.shl
- gurjbif.jar
- gjrinvci_08070101.sql
- guraobji_08070101.sql