

Banner Payment Processor Connection for Payment Card Industry Data Security Standard (PCI-DSS) compliance

This note provides information on the Banner 7 and Banner 8 PCI patches.

For an overview of PCI-DSS, see
FAQ 1-6CH32F Banner Unified Digital Campus Payment Card Changes

For technical information on the process flow see
FAQ 1-8PW7AF - Payment Processor Connection

For Banner 7 and 8 the following PCI patches were shipped.

Affected Object	Version Number	Defect #	Patch #
Banner Accounts Receivable	7.3	1-648T2T	p1-648t2t_tas70300
Banner Advancement	7.4	1-7RJSXR	p1-7rjsxr_alu70400
Banner Advancement	7.5	1-5OYVUR	p1-5oyvur_alu70500
Banner Advancement Self-Service	7.4	1-7RJSZC	p1-7rjszc_bwa70400
Banner Advancement Self-Service	7.5	1-5OYVUX	p1-5oyvux_bwa70500
Banner Faculty and Advisor Self-Service	7.6	1-63A007	p1-63a007_bwl70600
Banner General	7.6	1-639EOR	p1-639eor_gen70600
Banner Student	7.6	1-639ZYI	p1-639zyi_stu70600
Banner Student Self Service	7.6	1-639ZZ3	p1-639zz3_bws70600
Banner Voice Response Common	7.0	1-648T1Q	p1-648t1q_vr70001
Banner Web General	7.3	1-639ER2	p1-639er2_bwg70301
Banner Web Tailor	7.4	1-7549TH	p1-7549th_twb70401
Banner Accounts Receivable	8.1	1-648T2F	p1-648t2f_tas80100
Banner Advancement	8.1	1-7ENRD0	p1-7enrd0_alu80100
Banner Advancement	8.2	1-5OYVUV	p1-5oyvuv_alu80200
Banner Advancement Self-Service	8.2	1-7ENRC3	p1-7enrc3_bwa80200
Banner Advancement Self-Service	8.3	1-5OYVUZ	p1-5oyvuz_bwa80300
Banner Faculty and Advisor Self-Service	8.2	1-639ZZO	p1-639zzo_bwl80200
Banner General	8.2	1-639EQC	p1-639eqc_gen80200
Banner Student	8.1	1-7BTXXX	p1-7btxxx_stu80101
Banner Student	8.2	1-639ZXZ	p1-639zxz_stu80200
Banner Student Self Service	8.1	1-7BTXZ0	p1-7btxz0_bws80101
Banner Student Self Service	8.2	1-639ZZ5	p1-639zz5_bws80200
Banner Voice Response Common	8.1	1-648SZG	p1-648szg_vr80100
Banner Web General	8.2	1-639ES5	p1-639es5_bwg80200
Banner Web Tailor	8.2	1-7549UZ	p1-7549uz_twb80201

Patch p1-639zz3_bws70600.trz was reposted on October 12th.
If you had already applied patch p1-639zz3_bws70600, to apply the reposted patch
run the bwsdbpr2.sql script. All the other steps in the patch can be skipped if the patch was previously applied.

```
sqlplus /nolog @bwsdbpr2.sql
sqlplus /nolog @gurutlrp.sql
```

Note that although the patches are named p1-XXXXXX_xxx70600.trz implying the objects shipped with the patch have an Audit Trail of 7.6.0.x, the objects actually have an Audit Trail of 7.6.1.1. The objects are named correctly, the trz patch was named incorrectly. This was an error with the naming of the patch. Although it does add add confusion it has no functional impact.

The patches do not require the Banner Web Services product. The Banner Payment Transaction Service Adapter shipped as an Enterprise ARchive (ear) file is installed following the steps outlined in the Banner General Web Services Handbook after the Banner General patch (p1-639eor_gen70600), Banner Web General patch (p1-639er2_bwg70301) and Banner Web Tailor patch (p1-7549th_twb70401) have been applied. Oracle Application Server 10.1.2.0.2 with patch 5231566 and 10.1.2.3 are supported.

Note if you have applied the Apache module mod_rewrite to prevent SQL Injection as described in

FAQ 1-2PE6V7 Apache configuration changes for improved security then the following exclusions will also need to be applied to your httpd.conf file:

```
RewriteCond %{REQUEST_URI} !.*\pci_yourURLmappingName.* [NC]
RewriteCond %{REQUEST_URI} !.*\gokpurl\.p_payment_failure_return.*
[NC]
RewriteCond %{REQUEST_URI} !.*\gokpurl\.p_payment_success_return.*
[NC]
RewriteCond %{REQUEST_URI} !.*\bwskwtrr\.p_failure_page.* [NC]
RewriteCond %{REQUEST_URI} !.*\bwakgift\.p_donation_receipt.* [NC]
RewriteCond %{REQUEST_URI} !.*\bwckcpmt.p_dispsigpage_cc.* [NC]
RewriteCond %{REQUEST_URI} !.*\bwskaalog\.p_dispsigpage_cc.* [NC]
RewriteCond %{REQUEST_URI} !.*\bwakngft\.p_donation_receipt.* [NC]
RewriteCond %{REQUEST_URI} !.*\bwskrqst\.p_dispsigpage_cc.* [NC]
```

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BANNER 7 Related FAQs and Defects with PCI
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1) Defect 1-8KOY0E Missing file Issues when applying PCI patch p1-639eor_gen70600. The two files convert_streamlf_82 and stream_lf.fdl were not delivered with the patch. The patch should have shipped a file convert_streamlf_82.com which should have been called convert_streamlf_p1-639eor_gen70600.com. These files are specific to VMS customers. The reg_pci_xsd.lst file does not get generated. The text does display to the screen but does not spool to a lst file.

2) FAQ 1-8P8DHR Banner PCI General GOICCAU form error ORA-04061 existing state of package body has been invalidated

3) Defect 1-8P8PL9 In the Banner General Release Guide 7.6.1.1 the prerequisites listed are:

 Banner General 7.3 with patch p1-639eor_gen70600

 Banner Web General 7.4 with patch p1-639er2_bwg70301

 Banner Web Tailor 7.4.0.1 with patch p1-7549th_twb70401

It should read Banner Web General 7.3 as 7.4 does not yet exist.

4) Packages BWSKWCCP, BWSKAPMT, BWSKWTRR are invalid with references to BWPKOLIB after applying p1-639zz3_bws70600. This happens in databases where Employee Self-Service is not installed. The patch was reposted on 11/10/09 to correct this problem.

5) Defect 1-8IO0BK Banner General PCI (Payment Card Industry) compilance patch p1-639eor_gen70600 readme.txt file does not include line to run gobobjs.sql causing this error at runtime execution of GOICCAU form from the Banner Main Menu: *ERROR* Unable to call invalid object named GOICCAU

6) FAQ 1-8XBDLG - INVALID objects BWGKEPAY BWGKTPAY BWGKTPAY related to PLS-00302 component P_INSERT_GORCCAU must be declared

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BANNER 8 Related FAQs and Defects with PCI

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1. Packages BWSKWCCP, BWSKAPMT, BWSKWTRR are invalid with references to BWPKOLIB after applying p1-7btxz0_bws80101. This happens in databases where Employee Self-Service is not installed. The patch was reposted on 11/11/09.

2) In patch p1-7btxz0_bws80101, you receive an error running script bwsmen08020001.sql in step 11:

ERROR at line 1:
ORA-02292: integrity constraint (WTAILOR.FK1_TWGRINFO_INV_TWGBWMNU_KEY) violated - child record found
This issue is currently being researched by development.

3) Defect 1-8R42T5 - Issues when applying patch p1-639eqc_gen80200
The convert_streamlf_82 and stream_lf.fdl specific to VMS environments were not delivered.
The genform.shl it not re-shipped to include new forms shipped with patch.
Patch does not cleanup after itself and drop SCHEMA_DIR.

4) FAQ 1-8XBDLG - INVALID objects BWGKEPAY BWGKTPAY BWGKTPAY related to PLS-00302 component P_INSERT_GORCCAU must be declared

5) Defect 1-AOFZK5 - There are multiple problems with patch p1-7enrc3_bwa80200:

a) File awdrbwatwgbwmnu_7ENRC3.sql was copied from another patch and includes incorrect file references. Specifically, this script tries to run script bwatwgbwmnui_50YVUZ.sql which is not part of this patch. The correct script that should be run is bwatwgbwmnui_7ENRC3.sql.

b) The insert script bwatwgbwmnui_7ENRC3.sql will attempt to create a record in table TWGBWMNU. If the record already exists, then clients receive an error message:

ERROR at line 1:
ORA-00001: unique constraint (WTAILOR.PK_TWGBWMNU) violated

The script should only try to insert the record if it does not already exist.