

DegreeWorks

Release Guide

September 30, 2008

Release DW4.0.0

Software Patch DW4.0.1



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Think before you print.

Document Change Log

Version	Date	Change Description
DW4.0.1	December 19, 2008	Update version for DW4.0.1 changes
DW4.0.0	September 30, 2008	Initial Version



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I. Introduction

The DW4.0.1 software patch release supports an upgrade path for existing Unix and Linux DW4.0.0 DegreeWorks clients running Oracle. The DW4.0.1 software patch release does not contain changes in the supported components outlined in the DW4.0.0 Release Guide. If your site has any questions about supported components for DW4.0.1, please refer to the DW4.0.0 Release Guide.

How do I confirm that I should process the DW4.0.1 software patch release?

I am currently running the following configuration:	Can I install this release?
DW4.0.0 DegreeWorks	Yes
7.7.2 DegreeWorks standalone on Unix with Oracle	No, contact your Account Manager
7.7.2.D02 software release on Unix or Linux with Oracle	No, contact your Account Manager
7.7.2.D02 software release plus P01, P02 or P03 patches	No, contact your Account Manager
7.7.2.D02 software release, P03 patch plus Bundle 01 (B01)	No, contact your Account Manager
7.7.2.D01 or D01A release	No, contact your Account Manager
.Net version of DegreeWorks	No, contact your Account Manager
IFAS ERP DegreeWorks (RIM)	No, contact your Account Manager
DegreeWorks running on MPE (Image), Informix or DB2	No, contact your Account Manager

If a site wishes to contract installation or web localization services, extract consulting or training on the DW4.0.1 software patch release, please contact your SunGard Higher Education Account Manager.

II. Requirements

Requirements for DW4.0.1 are the same as DW4.0.0, except where noted below. Refer to the DW4.0.0 Release Guide.

PC Product compatibility

The DW4.0.1 software patch release includes updated PC applications for Transit and Scribe.

PC Product Compatibility - DW4.0.1				
	DW4.0.1 Host	DW4.0.0 Host	7.7.2.D02 Host	7.7.2 Host
DW4.0.1 Scribe	Green	Green	Grey	Grey
DW4.0.1 Transit	Green	Green	Grey	Grey
DW4.0.1 SureCode	Green	Green	Grey	Grey
DW4.0.1 TreQ	Green	Green	Grey	Grey
DW4.0.0 Scribe	Green	Green	Green	Green
DW4.0.0 Transit	Green	Green	Green	Green
DW4.0.0 SureCode	Green	Green	Green	Green
DW4.0.0 TreQ	Green	Green	Green	Red
7.7.2.D02 Scribe	Grey	Yellow	Green	Grey
7.7.2.D02 Transit	Grey	Green	Green	Grey
7.7.2.D02 SureCode	Grey	Green	Green	Grey
7.7.2.D02 TreQ	Grey	Green	Green	Grey
7.7.2 Scribe	Grey	Red	Grey	Green
7.7.2 Transit	Grey	Green	Grey	Green
7.7.2 SureCode	Grey	Green	Grey	Green
7.7.2 TreQ	Grey	Red	Grey	Green
Key				
Green	Compatible			
Yellow	Compatible, but the AID blocktype is not available until you move to DW4.0.0 Scribe			
Red	Not compatible, must run two executables			
Grey	Path not supported			

III. Functional Enhancements

Available as of DW4.0.1

PC Applications

1. Enhanced Scribe if-statements to allow use of: NumberOfMajors, NumberOfMinors or NumberOfConcentrations, 1stMajor, 2ndMajor, 3rdMajor, 4thMajor, 1stMinor, 2ndMinor, 3rdMinor, 4thMinor, 1stConc, 2ndConc, 3rdConc, 4thConc (RPE 1-46HHFH)
2. Added the new Scribe command "CopyRulesFrom" to allow rules from one block to be copied into another block. (RPE 1-47Z7OJ)
3. New Transit Scribe reports have been developed:
 - SCR06 - List block primary and secondary tags
 - SCR08 - List scribe text LOG entries
 - SCR09 - List scribe text TODO entries

Further, the SCR10 (text search) report, along with the new SCR08 and SCR09 reports, now show the lines of text from the Scribe blocks that match the search string. Transit Scribe reports have been enhanced to place tabs into the report output for copy/paste into Excel. (RPE 1-48KSD1)

Web Interface

1. The Student Educational Planner now contains the "last modified" date and who fields. (RPE 1-4476A5)
2. The Remove Course exception has been enhanced to work on a rule that does not already have the course listed. In this situation an "Except" list will be created with this course so that it cannot be used to satisfy the rule. (RPE 1-47Z7QI)

Audit process

1. MinClasses and MinCredits are now supported on a rule (course rule, subset and group). Customers can specify a course rule and then add MinClasses 1 from ... to specify that the student must take one class out of the list. Multiple MinClass/Credit qualifiers are allowed on a rule. (RPE 1-45HEUB)
2. If the credits in the rule have been satisfied but an in-progress class is found and has a qualifier that has not been met, the rule will now be considered qualifier-incomplete (99%) - which is important for choosing the best sub-rule needed by a group. (RPE 1-45HEUB)
3. LastRes now allows a list of courses to be specified to indicate the courses that should be considered "resident" courses. In addition, when LastRes is placed in a Major, Minor, etc. block DegreeWorks will only examine the courses in that block when calculating the last credits taken. (RPE 1-4AA4RO)

Bridge

1. The bridge has been modified to replace SPACES with UNDERSCORES in the Discipline Codes that contain imbedded blanks. (RPE 1-48KS2J)
2. The RAD11 bridge was enhanced to allow import of externally-created educational plans into DegreeWorks. More information can be found in the Technical Guide documentation, under BIF R300PLAN. (RPE 1-4B5F83)

System

1. Removed the database login from the PCOPTS environment variable in dwenv, modifying to call the plsqli function using cursor select from dual instead of embedded sql call. (RPE 1-43O5AP)

Native Integrated Interface for Banner

1. Modified the Banner STUDENT extract to load the Banner GOREMAL email address into the rad_email address on the rad_primary_mst even if no "@" is found in the GOREMAL email address. (RPE 1-43UCHR)
2. Modified ban40 to extract the Camp Code from the SSBSECT and SHRTCKN class records and write to the rad_class_dtl Location Code. (RPE 1-44JXRT)
3. Modified the DGW_Technical_Guide_UCX and DGW_Technical_Guide_Banner_Data_Mapping_for_BIF documents, adding information on Repeat Policy "B" for Banner clients. (RPE 1-47D1OH)
4. The documentation for UCX-STU356 and UCX-STU385 has been updated to reflect the changes made in DW4.0.0 for the Banner UCX Extract (ban44) related to the use of the SHRGRDO table being used to load these UCX tables. (RPE 1-48KS3Q)

IV. Defect Resolutions

Corrected as of DW4.0.1

Clients moving from DW4.0.0 to DW4.0.1 will now be able to take advantage of the following defect corrections.

1-376ZLN	Modified Scribe to allow the Stop Catalog Year and Start Catalog Year values to be the same without giving errors.
1-3F2CCC	Users without the SDWORKS key receive a message disallowing access to DegreeWorks on the web.
1-3H96G8	Worksheets now display the Change the Limit exception on a rule. Previously this type of exception was enforced, but not displayed.
1-3H9VGP	When placing an Apply Here exception the WITH data is now removed so that a course that normally did not meet the WITH qualifiers will be able to fit on the rule. If the Apply Here exception contains a new WITH qualifier that will be applied as always.
1-3HLQFW	If the number of classes/credits on a rule has been satisfied, but the Including list has not been satisfied, the auditor will now remove one or more classes from the rule, allowing them to be used on other rules. Additionally, this will leave room for the classes that are needed to satisfy the Including list.
1-3MBH1B	The Last Audit date now changes to the literal "Today" when a new audit is run for a student.
1-3MDYFT	The SRNADVX group was fixed to have access to Petitions, and not have access to Exceptions. The SRNADV group was fixed to have access to Exceptions, and not have access to Petitions.
1-3O8EQP	Banner extract: When a class is failed we no longer set the [force] Insufficient flag to Y, while the Passed flag will be still set to N. In doing this, the failed class can be checked against the major/minor and included in the block GPA instead of going directly to the Insufficient section. The Incomplete flag is still being set based on the Complete-flag on SHRGRDE. Customers should set the UCX-STU385 Override flag as needed to make sure the failed classes apply to audits correctly.
1-3P4CDT	When a "force complete" is performed on a subset, advice no longer appears for rules in that subset. Fixed XSLs for hiding subset rules that are not needed because of an exception on the overall subset.
1-3QORXQ	Resolved issue with a Transit-launched RAD30 log file conflicting with the dap22 log file when printing.
1-3R0XYG	Fixed second ampersand display in What-If select boxes for the Safari browser.
1-3R4G29	Resolved issue in the Student Educational Planner, where it was not possible to add a new plan after viewing Planned vs. Taken. You are now able to add a new plan after reviewing a Planned vs. Taken report.
1-3RDNKD	Modified the Student Education Planner to handle template codes (major, minor, conc, etc.) with special characters and allow searching for templates with ampersands.
1-3UAXNR	Modified the auditor to display the course discipline and number on the Split Course nodes.
1-3UZ8EX	Major codes, minor codes, etc. used in header IF-statements are now validated against the UCX.
1-3VADX2	Deginfo now gets the rad_term_dtl using the school defined on the rad_degree_dtl during a What-if audit, which ensures the GPA for the student is retrieved.
1-3VFQQV	Fixed Web to suppress EXCEPT word when all contents of EXCEPT are hidden (by hide-from-advice)
1-40MY26	Resolved issue with header qualifiers enclosed in an if-statement not matching classes.
1-41674C	Simplified the key combinations required to control authorization for modifying notes. Review the Security section in the Technical Documentation for more information.

1-416PH5	When doing a WhatIf audit the College now correctly appears in the student header of the worksheet as with a regular audit. The Program literal is now also available on the Deginfo node of the xml for display in the student header if you wish to display the program information. The student's email address now appears in the StudentHeader xml node next to the student's name. The advisor's email address now appears in the MajorMinorData xml node next to the advisor's name. Any user may click on the advisor's name appearing in the student header to send an email to that advisor. Any user (who is not the student) may click on the student's name appearing in the student header to send an email to that student.
1-42RBRO	To resolve the issue with Look Ahead courses not correctly calculating DWResident, set look-ahead courses to have the transfer attribute of "C" (native).
1-42ZEK3	Resolved Mac Safari browser issue with clicking the name picklist, then hitting enter. The audit is now produced instead of garbled text.
1-43LL4X	Course attributes for LookAhead courses are no longer accumulating from previous courses.
1-43O5AX	Support Oracle encryption, and support tnsname instead of dburl for the database connection.
1-441Z0Z	Modified web to properly display the progress bar when percent complete is less than or equal to 1.
1-44BH3T	Fixed the transfer class repeat logic to use the UCX-CFG020BANNER 5 Transfer Repeat settings instead of the 5 Repeat settings (for Current/History classes).
1-44JK96	The dwenv script now defaults to /usr/local/dw/java if DWJAVA_LIB is not set in dwenv.config.
1-44JXRT	Modified ban40 to extract the Camp Code from the SSBSECT and SHRTCKN class records and write to the rad_class_dtl Location Code.
1-44V299	Resolved issue where some of the planned classes were still showing when Show Completed Classes was checked, but the number of planned classes for a historic term was more than those taken.
1-44V29Y	Resolved problem with the Hide-Rule not working on rules within Groups. Changes included DGW_Report.xsl and AuditSEP.xsl.
1-44V2AX	Resolved issue with "WITH" data not showing in advice when no classes applied to the block/audit.
1-44V2HH	Resolved issue on the AIX platform with today's date not being formatted correctly, preventing the dap22 file from being built.
1-44VDJT	Users with a user-class of ADV now only qualify for ADV instead of the ADV and ADVX if-statements in SHPCFG.
1-44ZOZ1	Modified the rad41 bridge to sort the data records for a student before evaluating each individual hash.
1-4500X5	Corrected web message queue problems that resulted when web09 encountered an error. Web04 and web08 no longer send redundant messages that resulted in garbage in the message queue.
1-450EI6	Modified the Scribe Block Template, removing extraneous text and characters.
1-45VY6V	Modified webstop and dapstop scripts, changing the uppercase commands to lowercase for improved cross-platform compatibility.
1-460KH5	Updated the non-Banner BIF documentation, changing the SHPU shp_access_code field to 64 bytes. In DW4.0.0 the size of the field changed from 20 to 64 bytes.
1-4662IN	Modified web worksheets to use the Createld field when showing the Created-By field on the web. This change helps resolve the incorrect exception name for records created prior to 7.7.2.D02.
1-473O49	Added trapping for AWARD and ATHLETE blocks to ensure they are not pulled into normal academic audits, regardless of their secondary tags.
1-47LEZR	Executing the Banner extract Refresh through the Web now attempts to reconnect to Oracle if the connection had been lost. This prevents the intermittent error 4021 when executing a Web Refresh.
1-47MDYC	Resolved issue with equivalencies not applying correctly because of a "5" in the course number. This number conflicted with a special repeat policy.

1-47Z1BR	Fixed problem with program codes being truncated at byte 11. Now the full 12-byte program code is extracted.
1-4808I8	Grades that should not appear in the Advice Calculator are now filtered out using the Graded Attempted flag in UCX-STU385. Setting this flag to "N" for a given STU385 entry will prevent it from being used in the Advice Calculator.
1-484EQ5	Clients can now blank out the PASSWORD-xxx settings.
1-48R3FL	Modified the RAD Primary Master documentation to explain in more detail how the Active Term is calculated by the Banner student extract (ban40.ec).
1-497YVI	Added SSRMEET to the bannerextract.config file. Fixed typos in column names for SSRMEET. Added CampCode to SELECT for SSBSECT to match include file.
1-49FLS5	Qualifiers are now processed in the order in which they appear in the header. The order of the MAX qualifiers in the header is now significant and gives the customer more control about how the auditor counts classes and credits.
1-49LY16	Added SSRMEET to the Banner Considerations list of tables.
1-49M51X	The MinSpread qualifier is now considered before trying to keep the maximum number of credits on the rule when dealing with a range.
1-4AJ22B	Changed the Financial Aid Summary section to sort on the custom-value, matching the sort order of the blocks listed.
1-4AVEQO	Removed the SDEXCEPT key for exceptions from the SRNSTU shp-group.
1-4C7JXV	Modified dapblockunload and dapblockload to ignore Student Educational Planner-generated blocks. This will prevent SEP blocks from being overwritten when the scripts are run.
1-4CUUMD	Resolved issue with the web Banner ID search not working for ID numbers input directly into the ID field. This was only a problem when using the Firefox browser.
1-4D44FQ	Resolved issue with exceptions becoming unenforced when a change was made to a block. This problem was due to an incorrect status being returned.
1-4CUQZV	Resolved issue with the Advanced Find in Banner aborting on the AIX platform. Additionally, fixed the Banner search to return the proper amount of the name value, for accurate search results on all platforms.

V. Documentation

The following documentation changed with the DW4.0.1 software patch release.

Release Documentation

DGW_Installation_Guide
DGW_Release_Guide

Technical Documentation

DGW_Technical_Guide
DGW_Technical_Guide_Banner_Considerations
DGW_Technical_Guide_Banner_Data_Mapping_for_BIF
DGW_Technical_Guide_BIF
DGW_Technical_Guide_UCX

User Documentation

DGW_User_Guide_Scribe
DGW_User_Guide_Transit
DGW_User_Guide_Web

VI. Database Changes

There are no changes to the DegreeWorks database tables with the DW4.0.1 software patch release.

VII. Configuration Considerations

DW4.0.1 contains changes that require customers to make manual modifications to several areas of the product. Please review the high-level overview of action items and refer to the Installation Guide for specifics on areas that require further action during the installation.

UCX - Review and update

There are changes in the UCX-CFG020, UCX-RPT036, UCX-STU352 and UCX-STU385 tables.

Security - SHPCFG

A new key related to notes access was created for DW4.0.1.

Multi-Entity Processing

There are no configuration considerations for DW4.0.1.

Luminis

There are no configuration considerations for DW4.0.1.

Banner Self-Service

There are no configuration considerations for DW4.0.1.

Extract changes

Bridge Interface Format (BIF) Record Changes

The table below displays the Header Identifiers for DW4.0.0 release, along with any changes to the format for the DW4.0.1 software patch release.

DW4.0.0 Record	Change As of Release	Description of changes between Releases
R011PRIM	DW4.0.1	No changes.
R026APPL	DW4.0.1	No changes.
R031DEGR	DW4.0.1	No changes.
R041SCHL	DW4.0.1	No changes.
R061TERM	DW4.0.1	No changes.
R070CLAS	DW4.0.1	No changes.
R081TRAN	DW4.0.1	No changes.
R085ATTR	DW4.0.1	No changes.
R091TEST	DW4.0.1	No changes.
R100PDEG	DW4.0.1	No changes.
R111NCRS	DW4.0.1	No changes.
R121CUST	DW4.0.1	No changes.
R126REPT	DW4.0.1	No changes.
R128AID	DW4.0.1	No changes.
R130NOTE	DW4.0.1	No changes.
R140NTXT	DW4.0.1	No changes.
R171SHPU	DW4.0.1	Increased size of the shp_access_code to 64 (documentation change only – the database was changed as of DW4.0.0).
R180SWAP	DW4.0.1	No changes.
R190DEQV	DW4.0.1	No changes.
R200TREQ	DW4.0.1	No changes.
R300PLAN	DW4.0.1	New.
R301PCRS	DW4.0.1	New.
R302PNTE	DW4.0.1	New.
R601CRSE	DW4.0.1	No changes.
R605CRSA	DW4.0.1	No changes.
R650MAPD	DW4.0.1	No changes.
R655MAPC	DW4.0.1	No changes.
R701ETSM	DW4.0.1	No changes.
R800UCXT	DW4.0.1	No changes.

In addition to the record layout changes noted above, the bridge has been modified to replace SPACES with UNDERSCORES in the Discipline Codes that contain imbedded blanks. There are action items to implement this change, located in the “Other” section in the Installation Guide.

3rd party reporting

There are no configuration considerations for DW4.0.1.

3rd party upgrades

There are no configuration considerations for DW4.0.1.

VIII. Patch Contents

The following is a list of the files delivered with the software patch release:

File Part	Version
app/batch/RAD11JOB	23
app/batch/SCR06JOB	2
app/batch/SCR08JOB	2
app/batch/SCR09JOB	2
app/scripts/dapblockload	9
app/scripts/dapblockunload	7
app/scripts/dapindex	17
app/scripts/dapq	6
app/scripts/dapreq2ndlist	2
app/scripts/dapreqcrs	5
app/scripts/dapreqgrep	5
app/scripts/dapreqlist	3
app/scripts/dapspview	10
app/scripts/dapstop	5
app/scripts/dwenv	12
app/scripts/webq	6
app/scripts/webstop	10
app/shpscripts/SD2EXPCON	13
app/shpscripts/SD2EXPMGT	7
app/shpscripts/SD2GETAUD	23
app/shpscripts/SD2GPAADV	7
app/shpscripts/SD2NTEUPD	6
app/shpscripts/SD2SEPAUD	12
app/shpscripts/SD2STUCON	30
app/shpscripts/SD2STUGID	20
app/shpscripts/SD2TMPCON	5
app/shpscripts/SD2WIFBODY	18
app/shpscripts/SD2WORKS	17
app/src/c/dap09s.c	96
app/src/c/dap13hnd.c	66
app/src/c/dap14hnd.c	142
app/src/c/dap15hnd.c	70
app/src/c/dap37s.c	16
app/src/c/dap40s.c	20
app/src/c/dap41s.c	33
app/src/c/dap42s.c	29
app/src/c/dap43s.c	26
app/src/c/dap46s.c	12
app/src/c/dap47s.c	7
app/src/c/dap48s.c	16
app/src/c/dap56s.c	7
app/src/c/psk93s.c	17
app/src/c/rad31s.c	12
app/src/c/rad41s.c	44
app/src/c/shp40s.c	13
app/src/c/tst94s.c	19

app/src/c/utl57s.c	35
app/src/c/utl75s.c	10
app/src/c/utl79s.c	22
app/src/c/web04s.c	21
app/src/c/web08s.c	15
app/src/c/web09s.c	32
app/src/c/web11hnd.c	32
app/src/include/bifheader.h	11
app/src/include/bifpcrs.h	1
app/src/include/bifplan.h	1
app/src/include/bifpnte.h	1
app/src/include/dap45.h	6
app/src/include/dap82.h	12
app/src/include/dap86.h	7
app/src/include/dgwdefs.h	19
app/src/include/rad31.h	6
app/src/include/rad41.h	17
app/src/include/ucxcfg020.h	11
app/src/include/utl57.h	17
app/src/include/web12.h	8
app/src/stn/dap13eqt.stn	14
app/src/stn/dap13prd.stn	34
app/src/stn/dap13pst.stn	43
app/src/stn/dap13qls.stn	14
app/src/stn/dap13skw.stn	14
app/src/stn/dap13syn.stn	25
app/src/stn/dap14adv.stn	22
app/src/stn/dap14app.stn	46
app/src/stn/dap14att.stn	13
app/src/stn/dap14aud.stn	36
app/src/stn/dap14ccs.stn	20
app/src/stn/dap14cmp.stn	16
app/src/stn/dap14fru.stn	22
app/src/stn/dap14gpa.stn	15
app/src/stn/dap14mcs.stn	7
app/src/stn/dap14mpd.stn	6
app/src/stn/dap14mpf.stn	5
app/src/stn/dap14mtf.stn	5
app/src/stn/dap14mtm.stn	6
app/src/stn/dap14res.stn	6
app/src/stn/dap14set.stn	10
app/src/stn/dap14spd.stn	6
app/src/stn/dap14xpt.stn	15
app/src/stn/dap15vxp.stn	9
app/src/stn/dap15xml.stn	80
app/src/stn/web12key.stn	5
app/transit/ODE20903	11
app/transit/ODE20987	9
app/transit/PTSSCRIB	2
app/transit/SCR02QST	2
app/transit/SCR05QST	1
app/transit/SCR06QST	1

app/transit/SCR08QST	1
app/transit/SCR09QST	1
app/transit/SCR10QST	2
app/txt/CFG02002	5
app/txt/CFG020B	7
app/txt/CFG020S	5
app/txt/CFG020V	6
app/txt/CFG020X	6
app/txt/STU307	4
app/ucx/SHP077	4
app/ucx/SYS935_SELFSEV	3
app/ucx/SYS941_PSDGWSTD	10
postscripts/dapnextidmst	3
sis_Banner/app/batch/RAD30JOB	3
sis_Banner/app/scripts/bannerextract	3
sis_Banner/app/sql/bannerlink.sql	3
sis_Banner/app/sql/banview.sql	3
sis_Banner/app/sql/dwssbfaculty.sql	2
sis_Banner/app/sql/dwssbstudent.sql	2
sis_Banner/app/src/ec/ban40.ec	12
sis_Banner/app/src/ec/ban44.ec	2
sis_Banner/app/src/ec/ban45.ec	2
sis_Banner/app/src/ec/ban47.ec	7
sis_Banner/app/src/ec/dap58.ec	4
sis_Banner/app/src/include/bannershrctkn.h	2
sis_Banner/app/src/include/bannersorlcur.h	2
sis_Banner/app/src/include/bannersbsect.h	2
sis_Banner/app/src/include/bannersrmeet.h	2
webroot/AuditExceptions.xsl	15
webroot/AuditHD.xsl	28
webroot/AuditSEP.xsl	38
webroot/AuditTranscript.xsl	7
webroot/DGW_Aid_Report.xsl	10
webroot/DGW_Audit.js	10
webroot/DGW_Control.js	18
webroot/DGW_Functions.js	8
webroot/DGW_Registration.xsl	22
webroot/DGW_Report.xsl	54
webroot/DGW_SEPCompareView.js	7
webroot/DGW_SEPDataIsland.js	13
webroot/DGW_SEPEdit.js	43
webroot/DGW_SEPView.js	10
webroot/DGW_StudentFunctions.js	10
webroot/DGW_TMPEdit.js	8
webroot/pickup.html	1
webroot/PlanSEPCompareView.xsl	9
webroot/PlanSEP.xsl	11
webroot/SEP_Context.xsl	11
webroot/SEP_TemplateSearch.xsl	8
webroot/TMP_Search.xsl	10