

Sablime[®] v6.1 Update 2

Audit and Troubleshooting Guide July 2006

Introduction

Sablime includes several utilities to assist in maintaining the system and troubleshooting issues.

The **audits** are designed to be run on a regular basis (usually daily), to detect corruption and inconsistencies in the databases.

Database corruption can occur as a result of a system failure, disk or temp space issues, or for a variety of other reasons.

The **troubleshooting** utilities are intended to be run when the user or administrator suspects a problem with the system, and wants to evaluate the current setup.

Audits

The audit programs, "dbcross", "dbdelta", and "dbxcross", check for corruption of individual database records, and cross-compare data in one place with corresponding data elsewhere. Dbcross concentrates on the MR-related data, while dbdelta concentrates on the source file data. Dbxcross looks at data related to the External MR Communications feature.

The audit programs can be run from the console interface by just typing the program name. Use "<audit> -help" to see the possible option settings.

It is recommended that you run the audits daily, using the system's automated scheduler. [Download the script "run_audits"](#) from Sablime's web site and install it into your bin directory on the Sablime host. The script is designed to run the audits, keeping a week's worth of output files for each product.

You can create a "cron" (the system's scheduler) entry to run the script on a regular basis. For example, this entry would cause the audits to run each Monday through Saturday at 4 in the morning:

```
0 4 * * 1-6 /bin/ksh <SablimeBin>/run_audits
```

You can review the manual page (`$ man cron`) to see how to install the entry.

The output is stored into `$HOME/audits/<product>`. Someone should review the audit output on a regular basis: the system does not attempt to do analysis of the results. See the [Audit Message](#) section for a description of the output messages that might be emitted by the audits, and the recommended response to these.

Troubleshooting

If you suspect there's a problem with Sablime, there are some utilities you can run to check for and/or fix non-database problems. The first, "hotline.ck", runs from the console interface. Just type in "hotline.ck" after initializing Sablime; its output should be self-explanatory.

You can also run "setperm" from the console interface. It will review and update the permissions of Sablime database and executable files.

You can "Run Site Diagnostics" from the help menu of the Lifecycle interface (this is the same diagnostics as "wsabcheck" on the Administration menu of the "Classic" web interface) which validates things specific to the web server and setup. Again, the output should be self-explanatory.

From that same menu you can select "Site Information" (or "sabinfo" on Classic). This reports the current settings of your Sablime system.

Both of these can also be run from the Console as `$sabLCB/sabinfo` and `$sabLCB/wsabcheck`.

If you have occasion to contact the Sablime helpdesk, they may ask you to run one or more of these utilities in order to help them assist you.

Audit Messages

The following table lists messages that might be reported in the audit output, and suggests the action you should take to address the problem.

dbcross Message	Response
<code>\$_</code> not in environment and not found in <code>\\$sabVAR</code> file.	Variable must be set and exported.
ERROR: Global database [<code>\$_sabGDB</code>] is not a directory.	Check that <code>sabGDB</code> is set to proper location.
ERROR: Sablime stop file [<code>\$_sabADB</code>]/FILES/SAB.stopfile] is not a regular file.	Make sure <code>SAB.stopfile</code> is a valid and readable file.
WARNING -- Sablime is stopped for the following reason(s):	No action is necessary.
The following file names are invalid within the relations (RELATION/file) of the [<code>ADB/IDB/GDB</code>]:	Remove all invalid tuple files from relations in that DB.
The following relation directories are missing:	Create the missing relations.
The following are not regular files in the relations (RELATION/file) of the [<code>ADB/IDB/GDB</code>]:	Files listed are directories or zero-length. Make them into regular text files.
The following file names are invalid within the relations (RELATION/file) of the [<code>ADB/IDB/GDB</code>]:	Remove all invalid tuple files from the relations.
The following lock files should be removed from DBLOCK (RELATION/file) in the [<code>ADB/IDB/GDB</code>]	Remove the named lock files.

[filepath]:	
The following lock files were found in DBLOCK (RELATION/file) in the [ADB/IDB/GDB] [filepath]:	Indicates that database changes were in progress while running the audits.
The following keys are duplicated in [INACTIVE.]\$rel: field [1];.. ;field[n] (\$tup)	Verify relation tuple files and remove duplicate entries.
The following keys are duplicated between \$rel and INACTIVE.\$rel: field[1]; .. ;field[n] (\$tup)	Verify relation tuple files and remove duplicate entries.
G vs. G The following GENERIC GID combinations from [INACTIVE] G have invalid GID:	Review the GID allocations in the G relation to determine the correct GID setting for this G.
MR vs MR, ORG vs MR, MR vs ORG, FILES vs MR	
The following MR MRSTATUS combinations from [INACTIVE] MR have invalid MRSTATUS:	Verify other relation tuple files and change any invalid MRSTATUS to one of the following: created, active, mra_deferred, or mra_study.
The following MR's for which spawned MR's exist are missing in [INACTIVE] MR:	Verify the MRS relation record and either add record to MR and/or ORG relation or delete record from MRS relation.
The following MR names from [INACTIVE] ORG are not in [INACTIVE] MR:	Verify MR records and either add record to MR relation or remove from ORG relation.
The following MR names from [INACTIVE] MR are not in [INACTIVE] ORG:	Verify MR records and either add record to ORG relation or remove from MR relation.
The following MR names from [INACTIVE] FILES/description are not in [INACTIVE] MR	Save description file and recreate MR using saved description file.
The following MR names from [INACTIVE] MR are not in [INACTIVE] FILES/description:	Create a new description file with the MR number as the name and enter into the FILES/description directory.
The following MR names from [INACTIVE] FILES/glob_solution are not in [INACTIVE] MR	Save glob_solution file and reuse to propose MR.
MRX vs MRX, MRX vs MR, MRX vs ORG	
The following MR names from [INACTIVE] MRX are not in [INACTIVE] MR:	Verify MR record and either add record to MR relation or remove from MRX relation.
The following MR names from [INACTIVE] MRX are not in [INACTIVE] ORG:	Verify MR record and either add record to ORG relation or remove from MRX relation.
MG vs MG, MG vs G, MG vs MR, FILES vs MG	
The following MR GENERIC combinations in MG have no assigned developer:	Assign a developer or change the state so that it is neither under study nor assigned.
The following GENERIC names from MG are not in G:	Change invalid generic names to valid ones from list in G relation.
The following GENERIC names from INACTIVE.MG are not in G or INACTIVE.G:	Change invalid generic names to valid ones from list in G relation.
The following MR names from MG are not in [INACTIVE] MR:	Verify MR records and either add missing or delete extra record.
The following MR names from MG should not be in MG, because the MRSTATUS from MR is "created", "mra_deferred" or "mra_study":	Verify MR records and either remove MG relation record or change MR relation MRSTATUS to active.
The following MR names from MR should be in MG, because the MRSTATUS from MR is "active":	Verify MR records and either add record to MG relation or change MR relation MRSTATUS to created.
The following MR GENERIC MGSTATUS combinations from INACTIVE.MG have invalid MGSTATUS. It should be "closed" because the MRSTATUS from INACTIVE.MR is "completed:"	Change the MGSTATUS in the IDB for that MRG to be closed.
The following MR GENERIC combinations from [INACTIVE] FILES/resolution are not in [INACTIVE] MG	Save the resolution file and re-submit the MR.
The following MR GENERIC combinations from [INACTIVE] FILES/solution are not in [INACTIVE] MG	Save the solution file and re-propose the MR.
The following MR GENERIC combinations from [INACTIVE] FILES/rejection are not in [INACTIVE] MG	Save the rejection file and re-reject the MR.
The following MR GENERIC STATE SYSCODE combinations from MG contain inconsistent STATUS and SYSCODE:	Correct the MG record so that Status and Syscode match.
Active GS vs Active GS, Active GS vs Active G Inactive GS vs Inactive GS, Active GS vs Inactive GS	
The following SOURCEFILE DIRECTORY GENERIC GSSTATUS combinations from [INACTIVE] GS indicate that the "source" command was renaming, moving, or deleting the file during the audits.	This could cause unpredictable audit results. Run the audits with the database stopped to avoid such messages. This does not necessarily indicate corruption.

The following GENERIC SOURCEFILE DIRECTORY COMMON records from GS contain inconsistent common field declarations:	The displayed records show disagreements between 2 or more generics. Determine which is correct and add or remove generic entries to the common field of the others.
The following GENERIC SOURCEFILE SCCSDIR combinations are duplicated in [active db]/GS:	Verify relation tuple files and remove duplicate entries.
The following GENERIC SOURCEFILE DIRECTORY SCCSDIR GSSTATUS combinations from [active db]/GS have invalid GSSTATUS:	Change the GS relation GSSTATUS so that it is either free or busy.
The following GENERIC SOURCEFILE SCCSDIR combinations are duplicated in [INACTIVE] GS:	Verify relation tuple files and remove duplicate entries.
The following GENERIC SOURCEFILE SCCSDIR combinations are duplicated between GS and INACTIVE.GS:	Verify relation tuple files, decide whether they should be active or inactive, and remove the appropriate entries.
The following SOURCEFILE DIRECTORY GENERIC GSSTATUS combinations from [INACTIVE.] GS have invalid GSSTATUS:	If error occurred in the ADB, change GSSTATUS to be free or busy. If error occurred in the IDB, change GSSTATUS to be free.
The following GENERIC names from [INACTIVE] GS are not in [INACTIVE] G:	Change generic names in GS relation to a valid choice from the list in the G relation.
The following SOURCEFILE DIRECTORY GENERIC GSSTATUS combinations from inactive GS show a GSSTATUS of other than "free".	All files from inactive generics should have GSSTATUS of "free": Verify whether the file should be in inactive DB, and either remove the record or set the GSSTATUS to free.
The following GENERIC SOURCEFILE DIRECTORY combinations from [INACTIVE] GS show reserved MR checkout, but zero total checkouts:	Verify MR and source file records [#] and either remove the "rmr" entry in the GS record, or change the "cocnt" record to reflect the correct number of checkouts.
Active MD vs Active MD, Inactive MD vs Inactive MD	
The following GENERIC SOURCEFILE DIRECTORY combinations have more than one "reserved" checkout MD records:	Verify MR and source file records [#] and change all but one of the MD record's MDSTAT to "unreserved".
The following MR GENERIC SOURCEFILE DIRECTORY SID MDSTATUS combinations from [active db]/MD have invalid MDSTATUS:	Change MD relation MDSTATUS to either delta, reserved, or unreserved.
The following MR GENERIC SOURCEFILE DIRECTORY SID MDSTATUS combinations from inactive MD show an MDSTATUS other than "delta".	All MD records from closed MRs should have MDSTATUS of "delta": Verify that the record should exist in the INACTIVE MD and if so, change the MDSTATUS to delta.
WARNING: The following groups are empty:	No action is necessary, just informing user of the fact.
GRP vs GRP, GRPM vs GRP, GRP vs GRPM, GRP vs MR, GRP/GRPM vs other	
The following GROUPNAMEs from GRPM do not exist in GRP:	Verify group records and either add record to GRP relation or remove from GRPM relation.
WARNING: The following groups are empty:	This is a just a warning.
The following MR names from [INACTIVE] MR and GROUPNAMEs from GRP are the same.	MR and group names must be mutually exclusive: Change the name of the group to a non-MR name.
The following GROUPNAMEs from CAS do not exist in GRP	Remove the groupname from the Cascade relation, or add a group by that name.
MS vs MG, MG vs MS	
The following MR GENERIC combinations from [INACTIVE] MS are not in [INACTIVE] MG:	Verify MR records and either add record to MR relation or remove from MS relation.
The following MR GENERIC MGSTATUS MSSTATUS combinations from [INACTIVE] MG and [INACTIVE] MS have incompatible statuses:	Change either MG relation or MS relation status so they are equal. Refer to list of valid statuses for each relation.
UMS vs MG	
The following MR GENERIC combinations from UMS are not in MG:	Verify MR records and either add record to the MG relation or remove from UMS relation.
MS vs GS, GS vs MS, UMS vs GS	
The following GENERIC SOURCEFILE DIRECTORY combinations from MS are not in GS:	Verify MR and source file records and either add record to GS relation or remove from MS relation.
The following GENERIC SOURCEFILE DIRECTORY combinations from INACTIVE.MS are not in GS or INACTIVE.GS:	Verify MR and source file records in the IDB and either add record to the GS relation in the IDB or remove the record from the MS relation in the IDB.
The following GENERIC SOURCEFILE DIRECTORY combinations from GS are not in MS or INACTIVE.MS:	Verify MR and source file records and either add record to MS relation or remove from GS relation.
The following GENERIC SOURCEFILE DIRECTORY	Verify MR and source file records and either add record

combinations from UMS are not in GS:	to GS relation or remove from UMS relation.
MS vs MD, MD vs MS	
The following MR GENERIC SOURCEFILE DIRECTORY combinations from [INACTIVE] MS are not in [INACTIVE] MD:	Verify MR records and either add record to MD relation or remove from MS relation.
The following MR GENERIC SOURCEFILE DIRECTORY combinations from [INACTIVE] MD are not in [INACTIVE] MS:	Verify MR records and either add record to MS relation or remove from MD relation.
GS vs MD, MD vs GS	
The following GENERIC SOURCEFILE DIRECTORY combinations from MD have MDSTATUS of "reserved/unreserved", but there is no corresponding "busy" record in GS:	Verify MR and source file records [#] and either change MD relation MDSTATUS to delta or change GS relation GSSTATUS to busy.
The following GENERIC SOURCEFILE DIRECTORY combinations from GS have GSSTATUS of "busy", but there is no corresponding "reserved/unreserved" record in MD:	Verify MR and source file records [#] and either change an MD relation MDSTATUS to reserved or unreserved or change GS relation GSSTATUS to free.
The following GENERIC SOURCEFILE DIRECTORY RMR combinations from GS show the MR as a reserved checkout, with no corresponding MD reserved checkout record:	Verify MR and source file records [#] and either remove the reserved MR number from the GS record, or change the checkout type of an MD record to reserved.
The following MR GENERIC SOURCEFILE DIRECTORY combinations from MD are listed as reserved checkouts, but are not present in the "reserved MR (rnr)" for any GS record:	Verify MR and source file records [#] and either add the reserved MR number to the GS record, or change the checkout type in MD to unreserved.
The following GENERIC SOURCEFILE DIRECTORY COCNT #_of_MD have COCNT (check-out count) showing a different number of checkouts in GS than there are reserved or unreserved MD records:	Verify MR and source file records [#] and change COCNT to show the correct number of existing checkouts.
UMS vs MS, MS vs UMS	
The following MR GENERIC SOURCEFILE DIRECTORY combinations from UMS are not in MS:	Verify MR and source file records [#] and either add record to MS relation or remove from UMS relation.
The following MR GENERIC SOURCEFILE DIRECTORY combinations from UMS also exist in MS, but the MSSTATUS is [approved]:	Verify MR and source file records [#] and either change MS relation MSSTATUS to unapproved or remove record from UMS relation.
The following MR GENERIC SOURCEFILE DIRECTORY combinations from MS have MSSTATUS of [unapproved], but do not exist in UMS	Verify MR and source file records [#] and either change MS relation MSSTATUS to approved or add a record to UMS relation.
FTD vs FTD	
WARNING: The following Command/Field Screen Labels (right column) do not match the '\$cmd1' command Screen Label (left column). Format Below: (CMD INT-KEY LABEL CMD INT-KEY LABEL):	This is just a warning that an inconsistency exists. You can either ignore it or change the field label names to be consistent.
<*> WARNING: The following Command/Field External Keys (right column) do not match the '\$cmd1' command External Key (left column). Format Below: (CMD INT-KEY EXT-KEY CMD INT-KEY EXTKEY):	This is just a warning that an inconsistency exists. You can either ignore it or change the field label names to be consistent.
The following COMMAND INT-KEY names have their Display Flag turned on, but the '\$cmd1' command Display Flag is turned off:	Either turn off the Display flag for the COMMAND FIELD listed or turn on the Display flag for the specified field in the command mentioned.
The following COMMAND EXT-KEY combinations in FTD are duplicated	Remove one of the records.
The following COMMAND INT-KEY names do not have their Display Flag turned on:	This is not an error; it is just an informative message.
ADM vs ADM, ADM vs. GS, ADM vs GRP, ADM vs /etc/passwd	
The ADM relation does not contain exactly 1 record.	Remove all but one tuple file in the ADM relation.
The ADM relation shows Temporary Branching as disabled, but the following GENERIC SOURCEFILE DIRECTORY combinations show multiple checkouts in COCNT	Verify MR and source file records [#] . Normally, turning off temporary branching (using setrel) is not permitted while any files are checked out more than once. This condition suggests that the "brflags" flag (for "Temporary Branching") in the ADM relation was changed manually to "n". Either use setrel to set the flag back to "y", or use edput or unedget to eliminate

	the extra checkouts of the indicated file(s).
The following database administrator from ADM is not a valid PTS group.	Change the first field of the ADM relation so that it contains the name of a valid group.
The following MR administrator from ADM is not a valid PTS group	Change the second field of the ADM relation so that it contains the name of a valid group.
PTS vs GRP, PTS vs GRPM, GS vs PTS/GRP, MG vs PTS/GRP, CRIT vs PTS/GRP, PTS vs. Key File	
The following database administrator from ADM is not a valid PTS group:	Change the first field of the ADM relation so that it is the name of a valid PTS group.
The following MR administrator from ADM is not a valid PTS group.	Change the second field of the ADM relation so that it is the name of a valid PTS group.
The following GROUP OWNERS from GRP are not valid PTS IDs:	Change the invalid group owners to valid PTS IDs.
The following GROUP MEMBERS from GRPM are not valid PTS IDs:	Delete the invalid group members from the group.
The following FILE OWNERS from GS are not valid PTS IDs/groups:	Change the invalid file owner to valid groups/ PTS IDs.
The following ASSIGNEE's from MG are not valid PTS IDs/groups:	Either reassign the MR to a valid PTS ID/ group or create a PTS ID/group for the MR assignee.
The following CRITERIA OWNERS from CRIT are not valid PTS IDs/groups:	Either delete the Criteria Owner from MG or create a PTS ID/group for the Criteria Owner.
WARNING: The number of PTS records listed as licensed in the PTS relation exceeds the maximum of [xxx] as defined in the license file.	Either contact the Sablime helpdesk to increase the number of users allowed for your current contract, or change the excess PTS records to unlicensed.
The PTS license file is not readable.	Change permissions on the PTS license file so that it is readable.
The following PTS records are listed as licensed in the PTS relation, but are not in the license file:	Change the PTS records for those users to show them as not licensed. Then use the pts command to license them, if need be.
The following PTS records are listed as licensed for Sablime merge tool in the PTS relation, but are not in the license file:	Change the PTS records for those users to show them as not licensed. Then use the pts command to license them, if need be.
DEP vs DEP, DEP vs MG, DEP vs. MD	
The following MR GENERIC DEP/MPR combinations from [INACTIVE] DEP and [INACTIVE] PDEP have Logical and Physical dependency flags set to "n":	Set either the Logical or the Physical dependency flag in the DEP relation to "y."
The following MR GENERIC DEP/MPR combinations from [INACTIVE] DEP were found in PDEP but Physical dependency flag was not set to "y":	Set the Physical dependency flag in the DEP relation to "y."
The following MR GENERIC DEP/MPR combinations from [INACTIVE] DEP were not found in PDEP but Physical dependency flag was not set to "n":	Set the Physical dependency flag in the DEP relation to "n."
The following MR GENERIC combinations from [INACTIVE] DEP are not in [INACTIVE] MG:	Verify the MR records and either add record to the MG relation or remove from the DEP relation.
The following DEP/MPR GENERIC combinations from DEP are not in MG or INACTIVE MG:	Verify the MR records and either add record to the MG relation or remove from the DEP relation.
The following DEP/MPR GENERIC combinations from INACTIVE.DEP are not in INACTIVE.MG:	Verify the MR records and either add record to the MG relation or remove from the DEP relation.
The following MR GENERIC FILENAME DIR SID combinations from [INACTIVE] PDEP are not in [INACTIVE] MD:	Remove the PDEP record or add an MD record with corresponding values.
GT vs G	
The following Generic names from [INACTIVE] GT are not in [INACTIVE] G:	Verify generic records and either add record to the G relation or remove from the GT relation.
The following Generic names from [INACTIVE] G are not in [INACTIVE] GT:	Verify generic records and either add record to the GT relation or remove from the G relation.
MRS vs MG, MG vs MRS, MRS vs MR	
The following spawned MR GENERIC combinations from [INACTIVE] MRS are not in [INACTIVE] MG:	Verify MR records and either add record to the MG relation or remove from the MRS relation.
The following spawned MR names from [INACTIVE] MRS are not in [INACTIVE] MR:	Verify MR records and either add record to the MR relation or remove from the MRS relation.
The following MR GENERIC combinations from FILES/spawnotes are not in MRS:	Verify that the MR was spawned and then either create the MRS record or remove the spawnotes file.
The following MR GENERIC combinations from	Create a new spawnotes file with the MR number as the

[INACTIVE] MG are in the spawned state but are not in [INACTIVE] MRS:	name in the FILES/spawnotes directory.
The following spawned MR GENERIC combinations from [INACTIVE] MG are not in [INACTIVE] MRS:	For each case, either take the record out of the MG relation or add an MRS record for it.
The following MR GENERIC combinations from [INACTIVE] MG are in the spawned state but are not in [INACTIVE] MRS:	Add new records to the MRS relation for the MG records mentioned.
The following MR GENERIC combinations from MRS are not in MG with a STATUS of "spawned":	Change the status in the MG relation to "spawned" for those MG records.
The following MR GENERIC combinations from MRS are not in MG:	For each case, either take the record out of the MRS relation or add an MG record for it.
MR Initialization Check	
The following MR GENERIC MGSTATUS TYPE combinations from MG are [initialization] type MRs, but have not yet been approved:	This could result in zero length files being retrieved when br=ofc. Not necessarily a problem, as long as your process is able to handle such files.
Inactive MR vs Inactive ORG, Inactive ORG vs Inactive MR	
The following MR names from INACTIVE MR are not in INACTIVE ORG:	Verify MR records and either add record to ORG relation or remove from MR relation.
The following MR names from INACTIVE ORG are not in INACTIVE MR:	Verify MR records and either add record to MR relation or remove from ORG relation.
Inactive MR vs Inactive MR	
The following INACTIVE MR's are missing for which spawned MR's exist:	Verify the MRS relation record and either add record to MR and/or ORG relation or delete record from MRS relation.
Inactive MG vs Inactive MR	
The following MR names from INACTIVE MG are not in INACTIVE MR:	Verify MR records and either add missing or delete extra record.
Inactive MS vs Inactive MD, Inactive MD vs Inactive MS	
The following MR GENERIC SOURCEFILE DIRECTORY combinations from INACTIVE MS are not in INACTIVE MD:	Verify MR records and either add record to MD relation or remove from MS relation.
The following MR GENERIC SOURCEFILE DIRECTORY combinations from INACTIVE MD are not in INACTIVE MS:	Verify MR records and either add record to MS relation or remove from MD relation.
Inactive MS vs Inactive MG, Inactive MD vs Inactive MG	
The following MR GENERIC names from INACTIVE MS are not in INACTIVE MG:	Verify MR records and either add record to MD relation or remove from MS relation.
The following MR GENERIC names from [INACTIVE] MD are not in [INACTIVE] MG:	Verify MR records and either add record to MS relation or remove from MD relation.
CP vs. PTS, CP vs. GS, CP vs. CP	
The following field from CP should NOT be comma separated:	Only one entry can be in this field. Create more CP records for the extra entries.
The following CMD GENERIC FUNCTYPE combinations from CP should NOT be empty in the fourth field:	Fill in an executor list for this CP record.
The following CMD GENERIC FUNCTYPE combinations from CP should NOT be empty in the fifth field:	Fill in an email list for this CP record.
The following CMD GENERIC combinations from CP have an invalid generic:	Replace the invalid generic with a valid one, or eliminate the record.
The following CMD FUNCTYPE combinations from CP are incorrect. FUNCTYPE should be blank for that CMD:	Remove third field for CP record starting with command mentioned.
The following CP CMDs have _AD in fields 4 or 5, but are not allowed to:	Take out the _AD entry for the CP record starting with the command mentioned.
_NONE is not allowed as an EMAIL RECIPIENT for the following CP CMDs:	Enter "_DEFAULT," "_AD," "_ORIG," a PTS ID, a PTS ID group, an email group or an email address in the last field for this CP record.
The following CMD is invalid for CP:	The only commands allowed are those listed in table 4-7 of the Administrator's Guide.
The following CMD FUNCTYPE combination is invalid for CP:	Change the FUNCTYPE according to table 47 of the Administrator's Guide.
The following EXECUTOR(s) from CP are invalid:	Remove the executor from the 4th field.
The following EMAIL RECIPIENT(s) from CP are invalid:	Remove the email recipient from the 5th field.
The following CMD GENERIC FUNCTYPE combinations from CP are duplicated:	Verify relation tuple files and remove duplicate entries.

The following CMD GENERIC FUNCTYPE combinations from CP contain empty fields while CMD indicates that this is incorrect:	These keys should not be empty. Fill in the appropriate fields.
The following CMD GENERIC combinations from CP are incorrect. GENERIC should be blank for that CMD:	Blank out the Generic field for that record.
The following CMDs from CP have _ALL or _NONE mixed with other values in field 4 or 5: In fields 4 and 5 of CP, _ALL and _NONE can only appear by themselves.	Either remove the _ALL or _NONE or the other value(s) in that field.
Miscellaneous	
The following SNAPID GENERIC combinations from [INACTIVE] SNAP have empty CREATOR:	Enter a PTS ID in the third field of that SNAP record.
The following SNAPID GENERIC combinations from SNAP have invalid GENERIC:	Put a correct generic into the second field of that SNAP record.
The following CREATOR from [INACTIVE] SNAP is invalid:	Replace invalid creator with a valid PTS ID.
The following FILE DIR GENERIC combinations from FZ are not in GS:	Fix the FZ record so that it matches a GS record.
The following FILE DIR GENERIC SID combinations from FZ are not in MD or INACTIVE.MD:	Fix the FZ record so that it matches an MD record.
The following GENERIC SNAPID combinations from FZ are not in SNAP:	Fix the FZ record so that it matches a SNAP record.
Relation \$rel expected \$N fields but got \$nf	Fix the record so that it has the correct number of fields.
The following keys have empty fields in \$rel:	Keys should not be empty. Fill in the appropriate fields.
The following TESTERs from MG are not valid PTS IDs/groups:	Change the entry in the tester field to be valid PTS IDs or groups.
The following COMMAND EXT-KEY combinations in FTD are duplicated:	Verify relation tuple files and remove duplicate entries.
The following MR GENERIC combinations from MRS are not in FILES/spawnotes:	Create a spawnotes file for that MRS record.
The following ASSIGNEE's from [INACTIVE] MRX are not valid PTS IDs/groups:	Change the entry in the assignee field to be valid PTS IDs or groups.
dbcross internal error: unknown CPcmd group [\$cgrp] for [\$cmd]	There is a bug in the program. Report this to the Sablime HOTLINE.
The following MR GENERIC spawned MR combinations from [INACTIVE] MRS do not belong together:	The spawned MR must contain the parent MR number.
Missing directory: \$adb/FILES/spawnotes/\$gen	There is a bug in the program. Report this to the Sablime HOTLINE.
No \$adb/FILES/spawnotes directory. Could not run tests!	Create the spawnotes directory in the ADB.

In the above table "Verify MR and sourcefile records" means to verify the following:

- The file, if it has any MD records, has a GS record.
- The GS record has a GSSTATUS of busy if it is checked out in the current generic.
- The GS COCNT has the total number of existing checkout for the file in the current generic.
- There is an MD record with an MDSTATUS of "reserved" or "unreserved" for each checkout of the file.
- There is an MD record with an MDSTATUS of "delta" for each completed check-in of the file.
- There is no more than one "reserved" checkout.
- The "reserved" check-out (if there is one) has its MR number listed in the GS record as "rmr".
- The "reserved" checkout has a lock file (p.) in the Source Database (SDB).
- Each completed check-in has a corresponding record in the SDB history (s.) file.
- There is a UMS record for any unapproved MR's file changes, and an MS record for changes approved or not.

The audits report when there is a conflict between these records, but it is up to the administrator to determine which of the conflicting records is wrong.

dbdelta Message	Response
\$_ not in environment and not found in \sabVAR file\n	Variable must be set and exported.
ERROR: Global database [\${sabGDB}] is not a directory.	Check that sabGDB is set to proper location.
File System and Inode Space Check Execution of the 'spacecheck' script has failed due to the following variables being unset: <Variable List>	Edit spacecheck and set these variables according to the description in Checking for Disk Space.

Starting GS retrieve / SDB PRS	
GS record exists for [[\${sabSDB}]/\${SDBPATH}/s.\${Source}], but the SDB file doesn't exist or has 0 size.	Remove records from the following ADB relations: GS, MS, MD, UMS and (if it exists) remove the SDB file; then return the file to the Database using addsrc or addgsrc.
GS record exists for [[\${sabSDB}]/\${SDBPATH}/s.\${Source}], but the SDB file is unreadable.	Remove records from the following ADB relations: GS, MS, MD, UMS and (if it exists) remove the SDB; file then return the file to the Database using addsrc or addgsrc.
GS record exists for [[\${sabSDB}]/\${SDBPATH}/s.\${Source}], but the status of the SDB file is unknown.	Remove records from the following ADB relations: GS, MS, MD, UMS and (if it exists) remove the SDB file; then return the file to the Database using addsrc or addgsrc.
The following FILE DIR GEN combinations do not have a valid 'Binary Flag' set:	Check the SDB file for binary characteristics; use the source command to set the Binary flag to y or n accordingly.
The following FILE DIR GEN combinations do not use a valid 'Version Control Tool' of either SBCS or SCCS:	Check the Binary flag; if the flag is set to y, use the source command to change the Version Control Tool to SBCS. If the flag is set to n, choose a valid Version Control Tool.
The following FILE DIR GEN combinations have a 'Binary Flag' set to 'y' but the 'Quality Assurance Flag' is not set to 'n':	Use the source command to set the Quality Assurance flag to n.
The following FILE DIR GEN combinations have a 'Binary Flag' set to 'y' but the 'Version Control Tool' is not set to 'SBCS':	Use the source command to set the Version Control Tool to SBCS.
The following errors were detected while processing the SDB files: (list of errors)	The errors that appear here are from SCCS or SBCS directly. Execute the SCCS help or SBCS nhelp command on the help number given to find the actual problem and solution.
The following errors were generated by the SDB prs command: (list of errors)	The errors that appear here are from SCCS or SBCS directly. Execute the SCCS help or SBCS nhelp command on the help number given to find the actual problem and solution.
The following SDB files do not have a corresponding GS record: (list of files)	Verify the SDB file and MR records in the MS, MD, and UMS relations and either add record to the GS relation or remove the SDB file.
The following generic SIDs found in the SDB files reflect non-existent G records: (list of SIDs)	Compare SID numbers with those in the third field of the G relation. Remove any SDB file SID with the SCCS rmdel or SBCS nrmdel command.
The following FILE GENERIC sabSDB combinations reflect nonexistent GS records: (list of file names, generics, and Databases)	Verify the SDB file and MR records in the MS, MD, and UMS relations and either add record to the GS relation or remove the SDB file.
The following SDB deltas [FILE sabSDB SID PGMR MDSTATUS] reflect non-existent MD combinations: (list of deltas)	Verify the SDB file delta numbers and add missing delta records to the MD relation.
The following MD combinations [FILE (GS_SDBDIR) SID PGMR MDSTATUS] show an expected check-in (SID) that is beyond the next available delta in the SDB:	This may mean that a delta was manually removed (rmdel) from the SDB. Unedget and re-edget the existing checkouts of the file.
The following MD combinations [FILE (GS_SDBDIR) PSID PGMR MDSTATUS] show a parent delta ID (PSID) that does not exist in the SDB:	This may mean that a delta was manually removed (rmdel) from the SDB. Unedget and re-edget the existing checkouts of the file.
The following MD combinations [FILE (GS_SDBDIR) SID PGMR MDSTATUS] show a reserved checkout where the expected delta is not in the next available delta in the SDB:	This could mean that a delta was manually removed (rmdel) from the SDB, or some other corrupting event occurred. Unedget and re-edget the existing checkouts of the file.
The following MD combinations [FILE (GS_SDBDIR) SID PGMR MDSTATUS] reflect nonexistent SDB deltas:	Verify the MR records in the MD relations in the IDB and ADB, and check with the MS and UMS relations, and with the source file. If these MR records are useless, remove them from the MD relations; otherwise, remove them and redo the changes for the MRs to the source file.
The following file, directory, SID and MDSTATUS were	Check the SDB file to see which of these deltas (if any)

<p>duplicated in the MD relation</p>	<p>ended up in the source file. Remove all but one of the MD records for this SID.</p>
<p>The following SID were duplicate in SDB delta files</p>	<p>Check the SDB file and any related "p." file for duplicated deltas. If the duplicated delta is the most recent, use unedput to remove it. Otherwise, this is fairly severe corruption of the SCCS file. Contact the help desk.</p>
<p>The following SDB files do not have a corresponding GS record:</p>	<p>Add a GS record for each generic where this file has any SDB file deltas.</p>
<p>The following FILE DIR DELTA combinations from the GS relation have corrupt lastofcsid</p>	<p>Verify the status of the MRs against this SBCS file, and insert the highest numbered approved MD SID into lastofcsid.</p>
<p>WARNING: The following LOGICAL DIRECTORY Names found in the GS Relation do not have a corresponding Directory Structure File entry [generic]:</p>	<p>These directories should probably be added to your Directory Structure File for the indicated generic (so that setnode operations create them).</p>
<p>WARNING: The following GENERIC Names do not have a corresponding Directory Structure File in the Global Database DIR Relation:</p>	<p>If the indicated generics have files associated with them, then a Directory Structure File should be created.</p>
<p>The following FILE DIR GENERIC MR combinations are missing from MD relation for official branch:</p>	<p>Add MD records for these approved deltas from the SDB file.</p>
<p>The following FILE DIR DELTA combinations from the GS relation are missing from the MD relation:</p>	<p>Verify the status of the deltas for this file and add records to the MD relation as necessary.</p>

dbxcross Message	Response
<p>\$_ not in environment and not found in \\${sabVAR} file\n</p>	<p>Variable must be set and exported.</p>
<p>ERROR: Global database [\${sabGDB}] is not a directory.</p>	<p>Check that sabGDB is set to proper location.</p>
COM vs G	
<p>The following GENERIC names missing in G: (list of generics)</p>	<p>Verify generic records and either add record to the G relation or remove from the COM relation.</p>
EMR vs MR	
<p>The following MR names from EMR are not in MR: (list of mrs)</p>	<p>Verify the MR records and either add record to MR relation or remove from EMR relation</p>
EMR vs ORG	
<p>The following MR names from EMR are not in ORG: list of mrs)</p>	<p>Verify the MR records and either add record to ORG relation or remove from EMR relation.</p>
EMG vs EMR	
<p>The following External ID Names in EMG have a broken link, the EMR record is missing: (list of IDs) NOTE: An investigation into the Sender's Databases must occur.</p>	<p>The ID name must be found from the Database of the product that sent the MR. Once known, it must be entered into the fourth field of the EMR relation.</p>
<p>The following External Product Names found in EMG are not in EMR (list of products)</p>	<p>Verify product records and change product names so they are the same.</p>
MG vs COM, MG vs Files	
<p>The following Commitment ID Names found in MG are not in COM (list of IDs)</p>	<p>Verify MR records and add ID to second field of COM relation.</p>
<p>The following GENERIC/COMMID names found in MG do not have corresponding files in [\${sabADB}/FILES/mrcommit]</p>	<p>Save the mrcommit file and recommit the MR.</p>
<p>The following MR GENERIC COMMID records found in MG do not have corresponding [\${sabADB}/FILES/mrcommit] records</p>	<p>Recommit the MR.</p>
DOC vs G, DOL vs G, DS vs G	
<p>The following GENERIC Names in DOC are not in G (list of generics)</p>	<p>Verify generic records and change generic names in DOC relation to match those from valid list of generics in G relation.</p>
<p>The following GENERIC Names in DOL are not in G (list of generics)</p>	<p>Verify generic records and change generic names in DOL relation to match those from valid list of generics in G relation.</p>
<p>The following GENERIC Names in DS are not in G</p>	<p>Verify generic records and change generic names in DOL</p>

(list of generics)	relation to match those from valid list of generics in G relation.
DS vs DOL	
The following GENERIC DOC DIR combinations in DS are not in DOL (list of generics, documents, and directories)	Verify generic records and either add record to the DOL relation or remove from DS relation.
DS vs GS, DOL vs GS	
The following GENERIC DOC DIR combinations in DS are not in GS (list of generics, documents, and directories)	Verify generic and source file records and either add record to GS relation or remove from DS relation.
The following GENERIC DOC DIR combinations in DOL are not in GS list of generics, documents, and directories)	Verify generic and source file records and either add record to GS relation or remove from DOL relation.
HC vs G, HC vs HC, MG vs HC, HC vs FILES	
The following GENERIC names from HC are missing in G:	Verify the valid generic names in G and modify the record in the HC relation with a valid generic name.
The following HCODE GENERIC names are duplicated in HC:	Verify relation tuple files and remove duplicate entries.
The following HCODE names from MG are not in HC:	Verify HC hcode names and modify the record the MG relation with a valid hcode name.
The following GENERIC/HCODE names from FILES/hcode are not in HC:	Either add the missing record to the HC relation or delete the hcode description from FILES/hcode/generic directory.
PDI vs G, PDI vs PDI, MG vs PDI	
The following GENERIC names from PDI are missing in G:	Verify the valid generic names in G and modify the record in the PDI relation with a valid generic name.
The following PDI GENERIC names are duplicated in PDI:	Verify relation tuple files and remove duplicate entries.
The following PDI names from MG are not in PDI:	Verify PDI relation pdi names and modify the record in the MG relation with a valid pdi name.

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