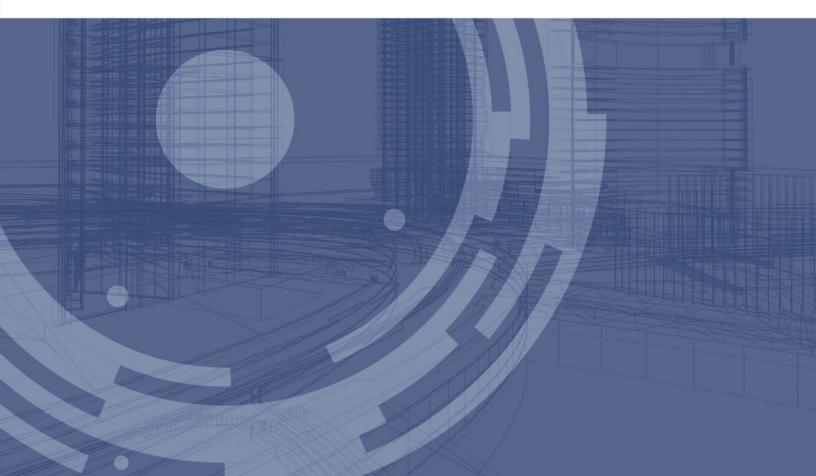**BeyondTrust**™

VISIBILITY. KNOWLEDGE. ACTION.

PowerBroker for Unix & Linux

Diagnostic Error Messages Guide for:

PowerBroker Express
PowerBroker Virtualization
PowerBroker for Unix & Linux - UNIX Edition
PowerBroker for Unix & Linux - Linux Edition

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Revision Number: 0

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Contents

Introduction

This guide provides detailed information regarding the security policy file programming language for the BeyondTrust PowerBroker® for Unix & Linux software. PowerBroker for Unix & Linux includes PowerBroker® for Unix & Linux - UNIX® Edition, PowerBroker® for Unix & Linux - Linux® Edition, PowerBroker® Virtualization, and PowerBroker® Express. This language is used to create security policy files that are used by PowerBroker® for Unix & Linux to control the following:

- Which tasks a user, or group of users, may perform

- Which machines a task may be submitted from

- On which machines a task may be run

- When a specific task may be run (day and time)

- Where a task may be run from

- Whether or not secondary security checks, such as passwords or checksums, are required to run a task

- Whether or not one or more supplemental security programs are run before a task is started

This manual assumes that the reader has a basic understanding of Unix or Linux system administration and some experience with a scripting or other computer language. It is recommended that you have experience in these areas before you attempt to create or modify security policy files.

Conventions Used in This Guide

Specific font and linespacing conventions are used in this book to ensure readability and to highlight important information, such as commands, syntax, and examples.

Font Conventions

The font conventions used for this document are:

- `Courier New Font` is used for program names, commands, command arguments, directory paths, variable names, text input, text output, configuration file listings, and source code. For example:

  `/etc/powerbroker/product.cfg`

- **`Courier New Bold Font`** is used for information that should be typed into the system exactly as shown. For example:

  `pbcheck -v`

- *`Courier New Italics Font`* is used for input variables that need to be replaced by actual values. In the following example, *`variable-name`*, must be replaced by an actual environment variable name. For example:

  `result = getenv (`*`variable-name`*`);`

- **Bold** is used for Windows buttons. For example:

  Click **OK**.

Linespacing Conventions

The linespacing of commands, syntax, examples, and computer code in this manual may vary from actual Windows and Unix/Linux usage because of space limitations. For example, a single line does not fit within the text margins for this book, the text is displayed on two lines with the second line indented, as shown in the following sample:

```
result = sprintf ("System administrator Ids: %s %s %s", "Adm1", "Adm2",
    "Adm3");
```

Where to Go Next?

For licensing information and installation instructions for PowerBroker for Unix & Linux, see the *PowerBroker for Unix & Linux Installation Guide*.

Documentation for PowerBroker for Unix & Linux

The complete PowerBroker for Unix & Linux documentation set includes the following:

• *PowerBroker for Unix & Linux Installation Guide*

• *PowerBroker for Unix & Linux System Administration Guide*

• *PowerBroker for Unix & Linux Policy Language Guide*

• *PowerBroker for Unix & Linux Browser Interface Guide*

• *PowerBroker for Unix & Linux Diagnostic Messages Guide*

• Man pages (for Unix/Linux)

Sample Policy Files

When you install PowerBroker for Unix & Linux, you can choose to copy sample PowerBroker for Unix & Linux policy files to the installation host. These sample policy files include detailed explanations of what they do. You can use these files to learn how policy files are typically written for various scenarios. The directory that these sample files are copied to is determined by the `GUI library directory` option that you specify during installation. By default, this directory is `/usr/local/lib/pbbuilder`. A `readme_samples` text file in that directory includes a brief description of each sample file.

Contacting Support

For support, go to our Customer Portal then follow the link to the product you need assistance with.

The Customer Portal contains information regarding contacting Technical Support by telephone and chat, along with product downloads, product installers, license management, account, latest product releases, product documentation, webcasts and product demos.

Telephone

Privileged Account Management Support

Within Continental United States: 800.234.9072

Outside Continental United States: 818.575.4040

Vulnerability Management Support

North/South America: 866.529.2201 | 949.333.1997

+ enter access code

All other Regions:

Standard Support: 949.333.1995

+ enter access code

Platinum Support: 949.333.1996

+ enter access code

Online

http://www.beyondtrust.com/Resources/Support/

Messages

This chapter contains a comprehensive listing of PowerBroker for Unix & Linux diagnostic messages (refer to the following table). When looking for an error number, if you cannot find the number *nnnn.yy*, refer to the number *nnnn*, since sometimes not all sub-numbers are described.

Table 1. **PowerBroker for Unix & Linux Diagnostic Messages**

Number	Diagnostic Text	Meaning	Action
1003.04	`Unknown escape sequence`	Unknown escape sequence <sequence found>	Remove or edit the escape sequence.
1004	`noexec and execute_via_su are not compatible`	noexec and execute_via_su are not compatible	The noexec feature and the execute_via_su features cannot be used together (because su must exec).
1005	`ACA policy error for '<ACA control type>' '<filespec>' '<permissions>'`	An error was encountered adding the indicated ACA policy rule.	Fix the ACA policy rule in the PowerBroker for Unix & Linux policy.
1006	`ACA Error in policy: <ACA Policy>`	The ACA policy has an invalid permission.	Fix the ACA policy in the PowerBroker for Unix & Linux policy file.
1027.04	`Undefined list variable`	A reference was made to a non-existent list.	Correct the policy.
1041.01	`Expected number`	A number was expected for the arguments of -, *, /, %.	
1041.02	`Expected number`	A number was expected for the arguments of <, >, <=, >=.	
1041.03	`Expected number`	A number was expected after a unary minus.	
1041.04	`Expected number`	A number was expected in the step expression.	
1042.01	`Expected string`	A string was expected.	
1061	`Expected list[number] = string`	An improper list assignment was attempted.	Verify that the variable being assigned is a list, the index is a number, and the value being assigned is a string.

Number	Diagnostic Text	Meaning	Action
1062	`Expected list[integer]`	An invalid list reference was attempted.	Verify that the variable being referenced is a list and the index is a number.
1063	`Expected 'string in list'`	The 'in' operator was used incorrectly.	
1064	`Expected <value1> but got <value2>.`	When using pblog, an expression can be given to search for certain log entries. This expression must result in a Boolean value. Expressions can also be given to format the output of the matching log entries. These expressions must return a string.	
1065	`Problem with variable assignment <name> = <value>. Expecting value within the range [<value1>-<value2>]`	The named variable was set to a value that is not within the valid range.	Modify the variable setting to correct the assigned value.
1070	`Too many functions`	The configuration files declare too many functions.	Remove some functions and contact BeyondTrust technical support.
1071	`Duplicate function name: <name>`	A function with this name has already been declared.	Rename one of the duplicates.
1072	`<name> is a function`	There is no return value being picked up from a function call.	Change the function declaration to a procedure or assign the result to a dummy function.
1073	`<name> is a procedure`	The call should not be used in an expression because procedures return no values.	Change the procedure declaration to a function or remove the procedure call from the expression.
1074	`Argument Mismatch`	The number of arguments in the declaration and the call are different.	Make sure the right number of arguments are passed to the function call or change the declaration.

Number	Diagnostic Text	Meaning	Action
1075	`Missing return value from function`	There was no value returned from a function. The statement "<function name> = ..."; should be used somewhere in the function.	For a function, the statement "<procedure name> = ..."; should be in the function body.
1076	`Return value from procedure`	A procedure should not return a value.	The statement "<procedure name> = ..."; should not be in the procedure body.
1077	`Expected ldap_bind (ldapc,string,[string])`	Syntax error in ldap_bind's arguments	
1078	`LDAP error: <LDAP diagnostic>`	An LDAP bind failed. The LDAP diagnostic describes the reason in more detail.	
1079	`Attempt to bind to invalid LDAP connection`	An attempt was made to perform an LDAP bind using a variable that did not contain a valid LDAP connection.	
1080	`List index out of range`	The index used to reference a list element is beyond the bounds of the list. E.g., small = {"one", "two"}; WontWork = small[99];	
1081	`range - index out of range`	An index used in the range () function is beyond the bounds of the list.	
1082	`replace - index out of range`	An index used in the replace () function is beyond the bounds of the list.	
1083	`error in for statement start-expression`	A 'for' statement has an invalid expression for its start expression.	
1084	`error in for statement to-expression`	A 'for' statement has an invalid expression for its to expression.	
1085	`error in for statement step-expression`	A 'for' statement has an invalid expression for its step expression.	

Number	Diagnostic Text	Meaning	Action
1086	error in for statement arguments - <variable name> is not a number"	The named variable does not evaluate to a number.	
1087	error in right side of assignment	The right side of an assignment is not a valid variable.	
1088	error in left side of assignment statement	The right side of an assignment is not a valid variable.	
1089	error in right side of assignment statement	The right side of an assignment is not a valid variable.	
1090	Continue statement is not in a loop	A continue statement is not inside of a loop construct.	Correct the policy.
1091.1	Bad format in <statement or operator>. Expected ### nodes, found ###	This is an internal parser error.	Contact BeyondTrust technical support.
1091.2	Bad format in <statement or operator>. Expected ### or ### nodes, found ###	This is an internal parser error.	Contact BeyondTrust technical support.
1100	Assignment to constant list '<value>'	An assignment was attempted on one of the read-only lists provided from pbrun to pbmasterd. E.g., groups = {"admin", "users"}; should probably be: rungroups = {"admin", "users"};	
1101	Assignment to constant <variable name>	An assignment was attempted on a constant or one of the read-only variables provided from pbrun to pbmasterd. E.g., user = "root"; should probably be: runuser = "root";	
1120	Can't use == on lists	There is no equivalence function for lists.	
1140	Division by zero	A mathematical expression resulted in a division by zero.	
1160	case found after default	The default case must be at the end of the switch statement. It should not come before any other case statements.	

Number	Diagnostic Text	Meaning	Action
1161	more than one default?	Only one default case is permitted in a switch statement.	
1162	Not in switch statement	A break statement was found outside of a switch statement.	
1163	Nesting overflow	Too many levels of nested statements were used. The maximum number of nesting levels is 32.	
1164	Only lists of strings supported.	Lists must only contain strings. They may not contain numbers or other lists.	
1165	Operands must be the same type	Operands of -, *, /, %, <, >, <=, >=, ==, != must be the same.	
1167	syntax error	A syntax error was found in the configuration file.	
1167. 2	Expecting a statement	A statement was expected, but not found.	
1168	Assignment operation failed	An assignment failed. This is usually preceded by another diagnostic detailing the precise cause.	Correct the policy.
1169	Variable runcommand is missing	The runcommand variable cannot be found.	Correct the policy.
1170	Variable runcommand is empty	The runcommand variable is empty or blank.	Correct the policy.
1171	Powerbroker program xxx started with invalid program name argv [0]: xxx	Argv[0] has an invalid string length, larger than MAXPATHLEN	Check and correct argv [0]
1200	Unknown function '<name>'	A call was made to an unknown function.	Contact BeyondTrust technical support.
1210- 1245	<function name> is not a procedure	A function was called as a procedure. The return value of the function was ignored.	
1261- 1262	<name> is not supported on this architecture	This function/procedure does not run on this architecture.	
1300- 1308	<procedure name> is not a function	A procedure was called as a function. Procedures do not have return values.	

Number	Diagnostic Text	Meaning	Action
1400-1437	`Expected ## Function(parameters ...)`	A call was made to a function or procedure with illegal or missing parameters.	Refer to the user documentation for the correct usage.
1438	`Expected setkeystrokeaction (<match pattern>, <"shell" | "re">, <action>)`	Invalid arguments were provided to the setkeystrokeaction() function.	
1438.1	`Pattern type is not RE or SHELL`	The pattern type argument to setkeystrokeaction() must be either 'SHELL' for a shell pattern or 'RE' for a regular expression.	Edit the policy to correct the error.
1439	`Expected unset(string)`	Invalid arguments were provided to the unset function.	
1440	`Can not unset read-only variable <name>`	An attempt was made to unset a read-only variable.	
1441	`Expected submitconfirmuser (<user name> [,<prompt string>], [<tries>])`	Invalid arguments were provided to the submitconfirmuser () function.	
1442	`Expected policygetenv(string)`	Invalid arguments were provided to the policygetenv () function.	
1443	`Expected policysetenv(string, string)`	Invalid arguments were provided to the policysetenv () function.	
1444	`Expected policyunsetenv (string|list, ...)`	Invalid arguments were provided to the policyunsetenv () function.	
1445	`Error in regular expression '<expression>': <diagnostic>`	There was an error in evaluating a regular expression. The diagnostic provides system-specific information.	
1446	`Expected sub(<pattern>, <replacement>, <target string>)`	Invalid arguments were provided to the sub () function.	
1447	`Expected gsub(<pattern>, <substitute>, <incoming string>)`	Invalid arguments were provided to the gsub () function.	

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Number	Diagnostic Text	Meaning	Action
1448	`Error in regular expression '<expression>'': <diagnostic>`	There was an error in evaluating a regular expression. The diagnostic provides system-specific information.	
1449	`Improperly formatted keystroke action list - wrong number`	pblocald detected an error in the keystroke action list sent from pbmasterd's policy.	
1450	`Improper keystroke search type - <type>`	The types for setkeystrokeaction can only be 'shell' or 're'.	
1451	`Expected ldap_unbind(ldapc)`	Syntax error in ldap_unbind's arguments	
1452	`LDAP error: <LDAP diagnostic>`	An LDAP unbind failed. The LDAP diagnostic describes the reason in more detail.	
1453	`Expected ldap_search (ldapc,string,string,string,list,int)`	Syntax error in ldap_search's arguments	
1454	`Invalid scope value <value>`	The listed value is not a valid scope string for ldap_search.	
1455	`ldap_count_entries expected a single argument`	Syntax error in ldap_count_entries' arguments.	
1456	`ldap_entry_count expected an ldap message as its argument`	The argument to ldap_count_entries must be a valid LDAP message obtained from ldap_search.	
1457	`ldap_first_entry expected an ldap message as its argument`	The argument to the ldap_firstentry () function must be a valid LDAP message from a prior call to the ldap_search () function.	
1458	`ldap_next_entry expected an ldap message as its argument`	The argument to ldap_nextentry () must be a valid LDAP message from ldap_search ().	
1459	`LDAP error: %s`	An internal LDAP error occurred in ldap_next_entry (). The LDAP diagnostic describes the reason in more detail.	

Number	Diagnostic Text	Meaning	Action
1460	`LDAP error: call on no more entries`	ldap_next_entry tried to read beyond the end of its available entries.	
1461	`ldap_attributes expected an ldap message as its argument`	The argument to ldap_ attributes must be a valid LDAP message.	
1462	`ldap_get_values expected (ldapm,string)`	Invalid arguments were provided to ldap_get_values.	
1463	`ldap_get_dn expected an ldap message`	ldap_get_dn expected a valid LDAP message as its argument.	
1464	`ldap_explode_dn expected (string,integer)`	Invalid arguments were supplied to ldap_explode_dn.	
1465	`ldap_dn2ufn expected (string)`	Invalid arguments were supplied to ldap_dn2ufn.	
1466	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Edit the policy to correct the error.
1466. 1	`submitconfirmuser No arguments provided - expecting ### argument<s>`	The submitconfirmuser () function expects arguments, but none were provided.	Edit the policy to correct the error.
1466. 2	`submitconfirmuser too few arguments - expecting ### argument(s), got ###`	The submitconfirmuser () function did not receive enough arguments.	Edit the policy to correct the error.
1466. 3	`submitconfirmuser too many arguments - expecting ### argument(s), got ###`	The submitconfirmuser () function received too many arguments.	Edit the policy to correct the error.
1466. 4	`error with argument <argument number> in submitconfirmuser`	The submitconfirmuser () function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1467	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1467. 1	`sub no arguments provided - expecting ### argument<s>`	The sub () function expects arguments, but none were provided.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1467.2	`sub too few arguments - expecting ### argument(s), got ###`	The sub () function did not receive enough arguments.	Edit the policy to correct the error.
1467.3	`sub too many arguments - expecting ### argument(s), got ###`	The sub () function received too many arguments.	Edit the policy to correct the error.
1467.4	`error with argument <argument number>`	The sub () function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1468.1	`No arguments provided to <function name>`	No arguments were provided for the named function.	Correct the policy.
1468.2	`Too many arguments to <function name> - expecting ### arguments`	Too many arguments were provided in a call to the named function.	Correct the policy.
1468.3	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1468.4	`Argument ### is not a string in <function name>`	The listed argument to the named function was not a string.	Correct the policy.
1468.5	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1468.6	`Argument 2 is not a string or number in <function name>`	The second argument to the named function was neither a string nor a number.	Correct the policy.
1468.7	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1468.8	`Argument 2 is not a string <function name>`	The second parameter to the named function is not a string. It should be.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1469.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1469.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1469.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1469.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1469.5	`Missing arguments in <function name>`	No arguments were provided to the named function.	Correct the policy.
1469.6	`Invalid arguments in <function name>`	Invalid arguments were provided to the named function.	Correct the policy.
1469.7	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1469.9	`Argument 3 is not a number in <function name>`	The second parameter to the named function is not a number when it should be.	Correct the policy.
1470	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1470.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1470.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1470.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1470. 4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1470. 5	`Missing arguments in <function name>`	No arguments were provided to the named function.	Correct the policy.
1470. 6	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1471	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1471. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1471. 2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1471. 3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1471. 4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1472. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1472. 2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1472. 3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1472. 4	error with argument <argument number> in <function name>	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1473	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1473. 1	Missing arguments in <function name>	No arguments were provided to the named function.	Correct the policy.
1473. 2	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1474	No connection to LDAP server <ldap server host name>:<port number>	No connection was found to the named LDAP server.	Correct the policy.
1475	<function name> LDAP error: <LDAP internal diagnostic>	An internal LDAP error occurred in the named function. The LDAP diagnostic message describes the reason in more detail.	The solution may be identifiable based upon the LDAP diagnostic message. Otherwise, contact BeyondTrust technical support.
1476	LDAP error: <LDAP internal diagnostic>	An internal LDAP error occurred in ldap_first_entry. The LDAP diagnostic message describes the reason in more detail.	The solution may be identifiable based upon the LDAP diagnostic message. Otherwise, contact BeyondTrust technical support.
1477	LDAP error: call on no more entries	An internal LDAP error occurred in ldap_attributes. The LDAP diagnostic message describes the reason in more detail.	Correct the policy.
1478	LDAP error: <LDAP internal diagnostic>		

Number	Diagnostic Text	Meaning	Action
1479	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1479.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1479.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1479.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1479.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1480	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1480.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1480.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1480.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1480.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1481	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1481.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1481.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1481.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1481.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1482	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1482.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1482.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1482.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1482.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1483	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1483.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1483.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1483.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1483.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1484	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1484.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1484.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1484.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1484.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1485	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic names the function.	Correct the policy.
1485.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1485.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1485. 3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1485. 4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1486	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1486. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1486. 2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1486. 3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1486. 4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1487	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1487. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1487. 2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1487. 3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1487. 4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1488. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1488. 2	`<function> too few arguments - expecting ### argument's), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1488. 3	`<function> too many arguments - expecting ### argument's), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1488. 4	`error with argument < number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1489	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1489. 1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1489. 2	`<function> too few arguments - expecting ### argument's), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1489. 3	`<function> too many arguments - expecting ### argument's), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1489. 4	`error with argument < number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.
1490	`Argument 1 (<value>) to <function name> is not a valid LDAP URL`	The first argument to the named function is not a valid LDAP URL.	Edit the policy to correct provide a valid LDAP URL.

Number	Diagnostic Text	Meaning	Action
1491	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1492	`Argument 2 (<value>), LDAP version, must either 2 or 3`	The second argument must be 2 or 3.	Edit the policy to correct the error.
1493	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1494	`<function name> <argument error>`	A call to get opt, getopt_long, or getopt_long_only failed. The argument error describes which argument was the problem.	This can be a policy error that can be corrected or a genuine argument mismatch in the argument list.
1495	`More than four expressions in a 'from' clause.`	From clauses allow up to four expressions only.	Correct the policy.
1500	`fprintf is not allowed for security reasons`	These functions cannot be called from pblog because they could affect the security of the machine. pblog was designed just to view logs, but not change anything on the system.	
1501	`mktemp is not allowed for security reasons`	These functions cannot be called from pblog because they could affect the security of the machine. pblog was designed just to view logs, but not change anything on the system.	
1502	`readfile is not allowed for security reasons`	Not applicable to PowerPassword	Nothing
1503	`Expected positive number for tries`	The number of password authentication tries must be a positive number.	
1503. 01	`Number of tries must be positive in <function name>`	The number of tries for password authentication must be a positive number.	Correct the policy file.

Number	Diagnostic Text	Meaning	Action
1503. 02	`Number of tries must be positive in <function name>`	The number of tries for password authentication must be a positive number.	Correct the policy file.
1503. 03	`Number of tries must be positive in <function name>`	The number of tries for password authentication must be a positive number.	Correct the policy file.
1503. 04	`Expected positive number for tries in <function name>`	The number of tries for password authentication must be a positive number.	Correct the policy.
1504	`Expected printf arguments`	printf, sprintf (), or fprintf was called with invalid arguments.	See the man pages for printf, sprintf (), or fprintf.
1505	`*printf - Integer argument invalid`	The argument for a %d or %u formatter was not an integer.	
1506	`*printf - String argument invalid`	The argument for a %s formatter was not a string.	
1507	`*printf - Invalid format`	The format argument for a printf-style function was invalid.	
1508	`stat is not allowed for security reasons`	These functions cannot be called from pblog because they could affect the security of the machine. pblog was designed just to view logs, but not change anything on the system.	
1509	`Invalid time`	The timebetween () function was called with an invalid time parameter. The time parameters must in 24-hour format and should not have leading zeros.	
1510	`Invalid user name <name>`	The user name given to getfullname, getgroup, getgroups, gethome, or getshell was invalid. It must exist in the user database (in /etc/passwd or the NIS map passwd).	
1511	`insert - index must be positive`	The index given to insert must be a positive number.	

Number	Diagnostic Text	Meaning	Action
1512	`Width argument invalid`	The width argument given for a printf argument was not a number. E.g., printf("%*s", "foo", "bar"); should be something like: printf("%*s", 10, "bar");	
1513	`Could not fstat '<filename>'`	The readFile () function uses fstat to determine the size of the file.	
1514	`Could not open '<filename>'`	The readFile () function could not open the file specified.	Ensure that the permissions on the file <filename> are correct; they should allow root to read the file.
1515	`Could not open '<filename>'`	The fprintf procedure could not open the file specified.	
1516	`datecmp: bad XXX date`	The XXX date in the datecmp () function is not recognized as a date.	
1517	`pad - pad string is empty`	The string to pad with is empty.	Change the string passed to non-empty.
1518	`substr - index out of range`		
1518.01	`substr - index out of range`	Start index < 0 or start > length of string.	Adjust the appropriate index.
1518.02	`substr - index out of range`	Finish < start.	Adjust the appropriate index.
1519	`unable to stat file`	The stat system call failed on the file.	Ensure this is a regular file and not a device or other special Unix/Linux file.
1520	`forbidkeypatterns not a list`	The user has a variable called forbidkeypatterns and it is not a list as expected.	Change the type of the assignment to the variable.
1521	`fset not allowed for security reasons`	These functions cannot be called from pblog because they could affect the security of the machine. pblog was designed just to view logs, but not change anything on the system.	

Number	Diagnostic Text	Meaning	Action
1522	`fset fstat error - <reason>`	The fset () function uses fstat to determine the size of the file.	
1524	`Too many arguments to Fset`	Fset takes exactly four string arguments.	
1525	`Fset expected a string as argument #`	Fset takes exactly four string arguments.	
1526	`Fset permission string is invalid`	The valid characters for a permission string are 'ogua+-=rwxXst'.	
1527	`Fset could not change owner/group on <file name> - <reason>`		
1528	`Fset could not change permissions on <file name> - <reason>`		
1529	`Invalid character in Fset mode string.`		
1529.01	`Invalid character in Fset mode string.`	Invalid character used in access group setting. The valid characters are u, g, o, and a.	
1529.02	`Invalid character in Fset mode string.`	Invalid operator used in access group setting. The valid operators are +, -, and =.	
1529.03	`Invalid character in Fset mode string.`	Invalid operator used in access group setting. The valid permission bits are r, w, x, X, s, and t.	
1530	`forbidkeyaction is not a string`	The action to log/reject is not a string.	Change the assignment to a string.
1531	`Expected ldap_open(string, [number])`	Syntax error	
1532	`unknown ssloption setting '<option name>'`	The valid values for the ssloption keyword are clientcertificates and/or allownonssl.	
1533.1	`Found improper type in a list element - <type>`	An improper type variable was found in a list. Only strings and lists are allowed as list elements.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1533. 2	`Found improper type in a list element - <type>`	An improper type variable was found in a list. Only strings and lists are allowed as list elements.	Correct the policy.
1533. 3	`Found improper type in a list element - <type>`	An improper type variable was found in a list. Only strings and lists are allowed as list elements.	Correct the policy.
1533. 4	`Found improper type in a list element - <type>`	An improper type variable was found in a list. Only strings and lists are allowed as list elements.	Correct the policy.
1533. 5	`Malformed string list`	An error was found in a string list.	Correct the policy.
1534	`List (length ###) is too short for subscript ###`	A subscript into a list was longer than the list.	Correct the policy.
1535	`Divide by zero`	An attempt was made to divide by zero.	Correct the policy.
1536	`Modulus zero`	An attempt was made to use a zero modulus.	Correct the policy.
1537	`Malformed assignment expression`	A poorly formed assignment statement was found.	Correct the policy.
1538	`Divide by zero`	An attempt was made to divide by zero in a /= operation.	Correct the policy.
1539	`Modulus zero`	An attempt was made to use a zero modulus in a %= operation.	Correct the policy.
1540. 1	`Expecting a text token`	A text token was expected, but not found.	Correct the policy.
1540. 2	`Expecting a text token`	A text token was expected, but not found.	Correct the policy.
1541. 1	`Expecting a date`	A date was expected, but not found.	Correct the policy.
1541. 2	`Expecting a date`	A date was expected, but not found.	Correct the policy.
1541. 3	`Expecting a date`	A date was expected, but not found.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1541. 4	Expecting a date	A date was expected, but not found.	Correct the policy.
1542. 1	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 2	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 3	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 4	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 5	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 6	Expecting a string	A string was expected, but not found.	Correct the policy.
1542. 7	Expecting a string	A string was expected, but not found.	Correct the policy.
1543. 1	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 10	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 2	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 3	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 4	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 5	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 6	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 7	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 8	Expecting a number	A number was expected, but not found.	Correct the policy.
1543. 9	Expecting a number	A number was expected, but not found.	Correct the policy.
1544. 1	Expecting a list	A list was expected, but not found.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1544. 2	Expecting a list	A list was expected, but not found.	Correct the policy.
1544. 3	Expecting a list	A list was expected, but not found.	Correct the policy.
1545. 1	Expecting an ldap connection	An LDAP connection was expected, but not found.	Correct the policy.
1545. 2	Expecting an ldap connection	An LDAP connection was expected, but not found.	Correct the policy.
1546. 1	Expecting an ldap message	An LDAP message was expected, but not found.	Correct the policy.
1546. 2	Expecting an ldap message	An LDAP message was expected, but not found.	Correct the policy.
1547. 1	LIBSYPARSE_evalCheckType encountered an unexpected LIBSYPARSE_CHECK_TYPE_MATCH	Internal parser error	Contact BeyondTrust technical support.
1547. 2	LIBSYPARSE_evalCheckType encountered an unexpected LIBSYPARSE_CHECK_TYPE_VAR	Internal parser error	Contact BeyondTrust technical support.
1548. 1	Expecting a string or number	A number or string was expected, but not found.	Correct the policy.
1548. 2	Expecting a string or number	A number or string was expected, but not found.	Correct the policy.
1548. 3	Expecting a string or number	A string or number was expected, but not found.	Correct the policy.
1548. 4	Expecting a string or number	A string or number was expected, but not found.	Correct the policy.
1548. 5	Expecting a string or number	A string or number was expected, but not found.	Correct the policy.
1548. 6	Expecting a string or number	A string or number was expected, but not found.	Correct the policy.
1549. 2	Expecting a string, number or list	A string, number, or list was expected, but not found.	Correct the policy.
1549. 3	Expecting a string, number or list	A string, number, or list was expected, but not found.	Correct the policy.
1549. 4	Expecting a string, number or list	A string, number, or list was expected, but not found.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1549. 5	`Expecting a string, number or list`	A string, number, or list was expected, but not found.	Correct the policy.
1549. 6	`Expecting a string, number or list`	A string, number, or list was expected, but not found.	Correct the policy.
1549. 7	`Expecting a string, number or list`	A string, number, or list was expected, but not found.	Correct the policy.
1549. 8	`Expecting a string, number or list`	A string, number, or list was expected, but not found.	Correct the policy.
1550. 1	`Expecting a string or list`	A string or list was expected, but not found.	Correct the policy.
1550. 2	`Expecting a string or list`	A string or list was expected, but not found.	Correct the policy.
1550. 3	`Expecting a string or list`	A string or list was expected, but not found.	Correct the policy.
1550. 4	`Expecting a string or list`	A string or list was expected, but not found.	Correct the policy.
1551. 1	`Expecting a string, list, LDAP message or LDAP connection`	A string, list or LDAP variable was expected, but not found.	Correct the policy.
1552. 1	`Index variable <name> missing in for loop`	Internal parser error	Contact BeyondTrust technical support.
1552. 2	`Index variable <name> missing in for loop`	Internal parser error	Contact BeyondTrust technical support.
1553	`Expected ### arguments to user-defined procedure <procedure name>, got ###`	The number of arguments to the named user-defined procedure did not match the expected number of arguments.	Correct the policy.
1554	`Expected ### arguments to user-defined function <function name>, got ###`	The number of arguments to the named user-defined function did not match the expected number of arguments.	Correct the policy.
1555. 1	`No return value from user-defined function <function name>`	A return value was not found in a user-defined function.	Correct the policy by adding a return value or changing the function to a procedure.

Number	Diagnostic Text	Meaning	Action
1555. 2	No return value from user-defined function <function name>	A return value was not found in a user-defined function.	Correct the policy by adding a return value or changing the function to a procedure.
1556	Mismatched types in call to <function name>. Expected <type>, got <type>	The arguments to the named function did not match the expected arguments.	Correct the policy.
1557	Too many arguments to getuserpasswd	Too many arguments were provided to the getuserpasswd () function.	Correct the policy.
1558	Can not unset read-only variable <name>	Read-only variables cannot be unset.	Correct the policy.
1559	Function tree not initialized	Internal parser error	Contact BeyondTrust technical support.
1560	Function tree already initialized	Internal parser error	Contact BeyondTrust technical support.
1561	Procedure tree not initialized	Internal parser error	Contact BeyondTrust technical support.
1562	Procedure tree already initialized	Internal parser error	Contact BeyondTrust technical support.
1563. 1	line ###: 1563.1 <function name> can not be called due to security reasons	The named function cannot be executed in the current context due to security constraints.	Some functions are not available to secondary programs such as pblog and pbcall. Rewrite the action without the restricted function.
1563. 2	<function name> can not be called due to security reasons	The named function cannot be executed in the current context due to security constraints.	Some functions are not available to secondary programs such as pblog and pbcall. Rewrite the action without the restricted function.
1564	<function name> is a secure function	The named function cannot be executed in the current context due to security constraints.	Some functions are not available to secondary programs such as pblog and pbcall. Rewrite the action without the restricted function.

Number	Diagnostic Text	Meaning	Action
1565	`<procedure name> is a secure procedure`	The named procedure cannot be executed in the current context due to security constraints.	Some procedures are not available to secondary programs such as pblog and pbcall. Rewrite the action without the restricted procedure.
1566	`Error in regular expression '<regular expression>': <description>`	An error was found in the listed regular expression.	Correct the policy.
1567.1	`<variable message> have: "<policy fragment>" which is <type>`	The listed policy expression has the named type, but something else was expected.	Correct the policy.
1567.2	`<variable message> have: "<policy fragment>"`	The listed policy expression has a problem described by the variable-message.	Correct the policy.
1568	`<expression is> is <type>, but got <expression> <type>`	The expression value does not match its expected type.	Correct the policy.
1569	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1570.1	`Missing arguments`	The number of arguments provided to fprintf did not match the expected number.	Correct the policy.
1570.2	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1571	`Duplicate case value '<case name>'`	The same value for a case was used more than once in a switch statement.	Correct the policy.
1572	`Variable %s is %s. Tried to assign a %s`	The named variable is of the first type, but the policy tried to assign it a value of the second type.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1573	`Recursive function <function name> type checking disabled`	A recursive call to a user-defined function was found and type checking was disabled.	
1574	`Expecting ### argument(s) in call to <user-defined function/procedure name>. Got ###`	The number of arguments to a user-defined function or procedure did not match the expected number.	Correct the policy.
1575	`Assignment to readonly variable '<name>'`	An attempt was made to assign a value to a read-only variable.	Correct the policy.
1576	`Malformed assignment expression`	Internal parser error	Contact BeyondTrust technical support.
1577.1	`Expecting a variable name`	A variable name was expected, but not found.	Correct the policy.
1578.1	`Expecting a string, list, LDAP connection or LDAP message`	A string, list, LDAP connection or LDAP message was expected, but not found.	Correct the policy.
1579	`Untranslatable type in LIBSYPARSE_definedType2InfoType - ###`	Internal parser error	Contact BeyondTrust technical support.
1580	`Untranslatable type in infoTypes2syparseDefinedTypes - ###`	Internal parser error	Contact BeyondTrust technical support.
1581	`Variable tree not initialized`	Internal parser error	Contact BeyondTrust technical support.
1582	`Variable tree already initialized`	Internal parser error	Contact BeyondTrust technical support.
1583	`Expected positive number for list subscript, found ##`	A negative subscript was found in an expression.	Correct the policy.
1583.01	`Missing arguments - expecting exactly 3`	The number of arguments provided to getopt did not match the expected number.	Correct the policy
1583.02	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1583. 03	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1584. 01	Missing arguments - expecting exactly 4	The number of arguments provided to getopt_long did not match the expected number.	Correct the policy.
1584. 02	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1584. 03	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1585. 01	Missing arguments - expecting exactly 4	The number of arguments provided to getopt_long_only did not match the expected number.	Correct the policy.
1585. 02	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1585. 03	Expected <function description>	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic that names the function.	Correct the policy.
1586	Could not write prompt string.	The policy could not write a prompt string to the client program.	
1587	Variable <name> already exists	An attempt to add a variable that already exists	This is an internal error. Contact BeyondTrust Software.
1588	Not a list	An attempt was made to perform a list operation on something other than a list	This is an internal error. Contact BeyondTrust Software.

Number	Diagnostic Text	Meaning	Action
1589	`Assignment to readonly list <name>`	An assignment was attempted to the named read-only list.	Correct the policy
1590	`Subscript (<actual value>) out of range for list <name> (0 to <maximum>)`	A list subscript is too large for the named list variable.	Correct the policy
1591	`List or element missing <name> [<subscript>]`	The list variable cannot be found, or the element in the list does not exist.	Correct the policy
1592	`Internal error - invalid info row element type ####`	An internal error.	Contact BeyondTrust Software
1593	`Internal error - invalid info type ####`	Internal error.	Contact BeyondTrust Software
1594	`Internal error - invalid info type ####`	Internal error	Contact BeyondTrust Software
1594	`Unknown function <name>`	An unknown name was used where a function name was expected.	Correct the policy.
1595	`Expected <function description>`	A function call argument did not match its expected type. This is normally preceded or followed by another diagnostic names the function.	Correct the policy.
1595	`Unknown procedure <name>`	An unknown name was used where a procedure name was expected.	Correct the policy.
1595.1	`<function> no arguments provided - expecting ### argument<s>`	The named function expects arguments, but none were provided.	Edit the policy to correct the error.
1595.2	`<function> too few arguments - expecting ### argument(s), got ###`	The named function did not receive enough arguments.	Edit the policy to correct the error.
1595.3	`<function> too many arguments - expecting ### argument(s), got ###`	The named function received too many arguments.	Edit the policy to correct the error.
1595.4	`error with argument <argument number> in <function name>`	The named function received an invalid argument at argument number <argument number>.	Edit the policy to correct the error.

Number	Diagnostic Text	Meaning	Action
1596	`Setting <name> does not exist`	The named setting is unknown to PowerBroker	Edit the policy to use a known setting.
1596	`Critical client environment variable env is missing`	The env environment variable is missing.	This is an internal error. Contact BeyondTrust Software.
1597	`function <function name> requires a <type> setting, but <setting name> is a <type>`	The named function is looking for a particular type of setting, but the named setting is a different type.	Edit the policy to correct the error.
1598	`Can not evaluate soft not-in operator`	A list operation could not be evaluated for an entitlement report.	Simplify the expression, or rerun the report with constraints that simplify the expression.
1599	`Can not evaluate soft in operator`	A list operation could not be evaluated for an entitlement report.	Simplify the expression, or rerun the report with constraints that simplify the expression.
1600	`Can not evaluate soft start expression`	The start expression for a loop cannot be evaluated.	Simplify the expression, or use constraints that will simplify the expressions.
1601	`Can not evaluate soft end expression`	The end expression for a loop cannot be evaluated.	Simplify the expression, or use constraints that will simplify the expressions.
1602	`Can not evaluate soft step expression`	The step expression for a loop cannot be evaluated.	Simplify the expression, or use constraints that will simplify the expressions.
1603	`Can not evaluate soft for-in list expression`	The list expression for a for-in loop cannot be evaluated.	Simplify the expression, or use constraints that will simplify the expressions.
1604	`Expected grep [arguments], pattern, filename-or-template [, filename-or-template...]`	The expected number of type of arguments was not found.	Correct the policy.
1605	`Too few arguments to grep`	Not enough arguments were supplied for the grep () function.	Correct the policy.

Number	Diagnostic Text	Meaning	Action
1801	`Could not find tcp protocol`	The tcp protocol could not be found in the system protocol entries.	Check /etc/protocols and the NIS system.
1802	`Could not find key < value> in map < name>`	The listed key could not be found in the named map. This is followed by an NIS diagnostic. The map is usually net groups.	Check that the key is a valid member of the map (e.g., net group). Correct the key value, the net group definitions or the NIS configuration.
1803	`Could not get port address for service < name> port < value>`	The listed service name and port value combination is not valid for the host.	Check the settings file and the system service configuration (e.g., /etc/services, NIS).
1804	`dup2 to:<target FD> ERROR ret:<return value> errno:<errno>`	An error occurred during an OS dup2 call. The operating system specific diagnostic contains more information.	Evaluate the OS errno to determine the action.
1805	`ACA Error in policy: <ACA Policy>`	The ACA policy has an invalid permission.	Fix the ACA policy in the PowerBroker for Unix & Linux policy file.
1806	`ACA Error for <filepath> in policy:<policy>`	The ACA policy for the specified filepath has an invalid permission.	Fix the ACA policy in the PowerBroker for Unix & Linux policy file.
1901	`Could not parse extended port value <extended host name>`	An attempt to parse an extended host name failed. This is often preceded by another diagnostic that details the problem.	Correct the extended host name.
1902	`Hostname <host name> not valid for interface <interface name> in <extended host name>`	The interface name in the extended host name did not match the interface for the host.	Correct the host name or the extended host name.
1903	`More than one interface tag in port <extended port>`	There are multiple interfaces in the extended port.	Remove extra interface tags from the extended port.
1904	`More than one port in port <extended port>`	There are multiple port values in the extended port.	Remove extra ports from the extended port.

Number	Diagnostic Text	Meaning	Action
1905	No port specified in address <extended port>	The extended port does not contain any port information.	Add a port to the extended port.
1906	An interface was specified for local domain socket in extended port <extended port>	A local domain socket cannot contain an interface.	Correct the extended port.
1907	Unsupported socket family <family name> (family number) – <operating system message)	The listed network family is not supported. This is followed by an operating system-specific diagnostic.	Correct the configuration problem.
1908.01	Variable 'date' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.02	Variable 'time' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.03	Variable 'user' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.04	Variable 'submithost' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.05	Variable 'runuser' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.06	Variable 'runhost' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1908.07	Variable 'runargv' is missing from I/O log data	A critical variable is missing from an I/O log file.	Check that the file is actually an I/O log file. Determine if the I/O log is corrupt.
1909.##	Foreground can only be specified with daemon mode (-d)	The -f switch (--foreground) can only be used with daemon mode (-d, --daemon).	Correct the command line arguments.

Number	Diagnostic Text	Meaning	Action
1910	`Could not find string variable runhost`	The runhost variable is missing from the environment.	Contact BeyondTrust technical support.
1911	`Could not find string variable submithost`	The runhost variable is missing from the environment.	Contact BeyondTrust technical support.
1912	`Invalid local daemon on run host <host name>`	The PowerBroker Policy Server daemon tried to connect to something other than a PowerBroker local daemon.	Check the settings file to see if the local port or pblocaldcommand points to a valid local daemon.
1913	`Invalid Policy Server daemon on Policy Server <host name>`	A PowerBroker client connected to something other than a PowerBroker Policy Server daemon.	Check the settings file to see if the Policy Server port or submitmasters points to a valid Policy Server daemon.
1914	`Invalid log server on log host <host name>`	A PowerBroker program connected to something other than a PowerBroker log server daemon.	Check the settings file to see if the logport port or logservers points to a valid log server daemon.
1915	`Invalid Policy Server daemon on Policy Server <host name>`	Something other than a PowerBroker Policy Server daemon connected to a PowerBroker local daemon.	Examine the system configuration to see what may be attempting to access the pblocald port.
1915	`Invalid Policy Server daemon on Policy Server <host name>`	Something other than a PowerBroker Policy Server daemon connected to a PowerBroker local daemon.	Examine the system configuration to see what may be attempting to access the pblocald port.
1916	`Invalid client connection from submit host <host name>`	Something other than a PowerBroker client connected to a PowerBroker Policy Server daemon.	Examine the system configuration to see what may be attempting to access the pbmasterd port.
2001	`No variables defined`	The Defined Variables Editor found no user-defined variables upon saving the contents of the Defined Variables page.	Make sure the user-defined variables are defined before saving.

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Number	Diagnostic Text	Meaning	Action
2002	`System variable <variable name> should not be defined`	The Defined Variables Editor does not allow the defining of a PowerBroker specific variable as a user-defined variable.	Remove the defined variable from the defined variables list.
2003	`List variable <variable name> contains a number in position #`	List variables cannot contain numbers.	Remove the number from the list or convert it to a string literal.
2004	`No Conditional Expression Generated!`	The PowerBroker W5 Editor failed to generate a conditional expression based on the given constraints, if any.	Check all of the constraints and try again.
2005	`Failed to process constraints from policy IF statement`	The PowerBroker W5 Editor failed to process a policy IF statement.	Contact BeyondTrust technical support.
2006.1	`Error saving file: <error message>`	The PowerBroker Policy Editor encountered an error while saving the policy file. The OS specific reason for the error follows.	Take the appropriate action indicated by the OS specific error.
2006.2	`Error saving file: <error message>`	The PowerBroker Policy Editor encountered an error while saving the policy file. The OS specific reason for the error follows.	Take the appropriate action indicated by the OS specific error.
2006.3	`Error saving file: <error message>`	The PowerBroker Policy Editor encountered an error while saving the policy file. The OS specific reason for the error follows.	Take the appropriate action indicated by the OS specific error.
2007.1	`Error saving backup file: <error message>`	The PowerBroker Policy Editor failed to make a backup of the policy file. The OS specific reason for the error follows.	Take the appropriate action indicated by the OS specific error.
2007.2	`Error saving backup file: <error message>`	The PowerBroker Policy Editor failed to make a backup of the policy file. The OS specific reason for the error follows.	Take appropriate action indicated by the OS specific error.
2008	`Timeout Reached`	The PowerBroker Policy Editor has timed-out. The Policy Editor has been idle for too long.	Close the Policy Editor when not in use.

Number	Diagnostic Text	Meaning	Action
2009	Authentication Required to access requested page.	User credentials are insufficient to access the requested page	Enter a valid username and password that has sufficient access to the requested page. Note that you may have to close the browser and open it again to clear the password cache.
2010	Security Problem - please contact your systems administrator.	The PowerBroker GUI encountered an error while trying to authenticate.	Contact BeyondTrust technical support.
2011	Only Basic Authentication Supported	The PowerBroker GUI only understands basic authentication from a web browser.	Check if the browser supports basic authentication.
2012	Username and Password must be supplied.	A username and password were not entered in the User Authentication Dialog Box provided by the web browser.	Enter a value username and password.
2013	Failed to Authenticate username and password.	The PowerBroker GUI was unable to authenticate the supplied username and password.	Contact BeyondTrust technical support.
2014.01	Check the Policy Server and run host name service configuration (/etc/hosts, DNS, NIS, etc). This could also be an attempt to spoof a Policy Server from an unauthorized machine.	Policy Server name <name> not valid for address <ip address>	The name claimed by the Policy Server does not match the address of the connection on the run host.
2014.02	Check the submit and Policy Server name service configuration (/etc/hosts, DNS, NIS, etc). This could also be an attempt to spoof a submit host from an unauthorized machine.	Submit host name <name> not valid for address <ip address>	The name claimed by the submit host does not match the address of the connection on the Policy Server.
2015	Unable to connect to call back server	PBGUID received a request from the PSMC, but was unable to connect to the defined callback URL	Check the cal back URL, and accessibility from pbguid host/port to psmc host/port

Number	Diagnostic Text	Meaning	Action
2016	`Certificate doesn't verify`	SSL certificate does not verify host - single sign on	Check certificate is valid and matches host
2017	`Common name doesn't match host name`	SSL cert common name does not match this host name	
2018	`Can't read certificate file`	PowerBroker	check file exist an ce and permissions
2019	`Unable to get CA file`		check if the file is accessible
2020	`Can't read CA list`	The file cannot be read	
2021	`Incomplete Write`	pbguid was unable to send the whole request to the PSMC via SSL	
2022	`SSL write problem`	pbguid was unable to send the request to the PSMC via SSL	
2023	`SSL error: premature close`	PSMC closed the connection ahead of time	Check PSMC
2024	`SSL read problem`	We could not read a response from the SSL channel	
2025	`Shutdown failed`	Failed to shutdown SSL channel after failure	
2026	`Unable to get CERT file`	Unable to get the CERT file	Check settings file entry
2027	`SSL connect error`	SSL connect error	Check return codes
2050	`Could not allocate enough memory to process BeyondInsight response.`	A realloc operation failed.	If this occurs often, increase the amount of swap space on the machine.
2051	`BeyondInsight returned an error <detailed error message>`	BeyondInsight event service rejected the data that PowerBroker for Unix & Linux sent.	Refer to the accompanying BeyondInsight error message for additional information.
2052	`libcurl error: Could not enable verification of the peer certificate's authenticity <detailed error message>`	An error occurred while invoking a libcurl command.	Refer to the accompanying error message for additional information.

Number	Diagnostic Text	Meaning	Action
2053	`BeyondInsight CA certificate is missing or not valid.`	sslrcscafile does not exist in the settings file, or has an empty or invalid value.	Add a valid BeyondInsight CA certificate and assign to the sslrcscafile keyword in the settings file.
2054	`libcurl error: Problem with the BeyondInsight Certificate Authority (CA) certificate <detailed error message>`	An error occurred while invoking a libcurl command to assign the CA certificate.	Refer to the accompanying error message for additional information.
2055	`libcurl error: Could not enable verification of the server named in the peer certificate <detailed error message>`	An error occurred while invoking a libcurl command.	Refer to the accompanying error message for additional information.
2056	`No valid BeyondInsight client certificate in the settings file.`	sslrcscertfile does not exist in the settings file or is empty.	Add a valid BeyondInsight client certificate and assign to the sslrcscertfile keyword in the settings file.
2057	`libcurl error: Problem with the BeyondInsight client certificate <detailed error message>`	An error occurred while invoking a libcurl command to assign the BeyondInsight client certificate.	Refer to the accompanying error message for additional information.
2058	`Event forwarding failed <detailed error message>`	An error occurred while the event data was being sent to BeyondInsight.	Refer to the accompanying BeyondInsight error message for additional information.
2059	`Unable to form appropriate headers for HTTP request.`	An error occurred while trying to build the HTTP request.	Ensure there is enough memory on the machine for the operation.
2060	`Unable to set up libcurl environment to communicate with the target web service.`	An error occurred while trying to initialize libcurl.	Ensure there is enough memory on the machine for the operation.

Number	Diagnostic Text	Meaning	Action

2061	`Encryption algorithm`
	`<encryption algorithm> is not`
	`valid. Please refer to the`
	`PowerBroker for Unix & Linux`
	`Admin for valid values.`
		An invalid encryption algorithm was specified in for eventlogencryption in the settings file.	Please refer to the PowerBroker for Unix & Linux Admin for valid encryption algorithm types.

2062	`Problem with store file <file>` `<detailed error message>`	The store file specified is missing or invalid.	Refer to the accompanying error message for additional information.
2063	`Problem with key file <file>` `<detailed error message>`	The key file specified is missing or invalid.	Refer to the accompanying error message for additional information.

2064	`An encryption key file must be`
	`provided for the encryption`
	`algorithm <encryption type>`
		When invoking pbfwdevents to forward eventlog data to BeyondInsight, an encryption algorithm was named, but not the corresponding key file.	When invoking pbfwdevents, if providing an encryption algorithm, one must also provide the key file.

2065	`The encryption algorithm must`
	`be provided for the specified`
	`encryption key file <file>`
		When invoking pbfwdevents to forward eventlog data to BeyondInsight, a key file was named, but not the corresponding encryption algorithm.	When invoking pbfwdevents, if providing a key file, one must also provide the encryption algorithm.

2066	`Unable to lock store file` `<file>`	Attempt to lock the store file failed.	Check for reasons why the store file cannot be locked.
2067	`Failed to lock store index file` `<file>`	Attempt to lock the store index file failed.	Check for reasons why the store index file cannot be locked.

2068	`Unable to forward record to`
	`destination due to rejected`
	`data. Skipping this record`
	`permanently.`
		Data being sent to BeyondInsight has a problem or is corrupted.	Check for reasons why the data is rejected.

2069	`Unable to forward record to`
	`destination. Terminating store`
	`and forward processing.`
		A problem was encountered while communicating with BeyondInsight.	Check if the BeyondInsight server is up and resolve any network connectivity issues.

Number	Diagnostic Text	Meaning	Action
2070	`Unknown error. Terminating store and forward processing.`	An unknown error occurred while communicating with BeyondInsight.	Check if the BeyondInsight server is up and resolve any network connectivity issues.
2071	`There is no store file to read.`	The settings file does not contain the keyword that identifies the appropriate store file.	Add the correct store file keyword and value in the settings file.
2072	`2072 specified program is null.`	A pb.settings host specification contains backticks without specifying a program.	Fix the host specifications in pb.settings
2073	`2073 specified program:<programname> is not secure.`	The program specified, withing backticks within a pb.settings host specification, (or the path leading to that program) is not secure (eg writable by non-root).	Change the permissions of the specified path and program
2074	`popen error: <errno> <error string>`	popen failed to execute the program specified by backticks in a pb.settings host specification.	Examine the <error string> for potential cause of the failure.
2075	`pclose error:<errno> <error string>`	pclose failed when waiting on the program specified with backticks in a pb.settings host specification.	Examine the <error string> for potential cause of the failure.
2076	`null hostname returned by <program>`	An external program (specified for submitmasters, acceptmasters, logservers, altsubmitmasters keyword, or the pblocald --acceptmasters option) did not return data.	Ensure that the program (identified in the diagnostic text) returns a valid host specification.
2077	`select failed in <program name> while checking fd <number> during timed atomic write (<error string>)`	Select failed during a timed atomic write due to reason specified in the <error string>.	Examine the <error string> for potential cause of the failure.
2078	`atomic loop timed out in <program name> on fd <number> during timed atomic write`	Program exceeded its protocol timeout setting while looping during an atomic write.	Adjust the program's protocol timeout setting.
2079	`select timed out in <program name> while checking fd <number> during atomic read`	Select timed out waiting for fd to become readable.	

Number	Diagnostic Text	Meaning	Action
2080	`select failed in <program name> while checking fd set (<error string>) during atomic read`	Select failed during a timed atomic read due to reason specified in the <error string>.	Examine the <error string> for potential cause of the failure.
2081	`atomic loop timed out in <program name> on fd <number> during timed atomic read`	Program exceeded its protocol timeout setting while looping during an atomic read.	Adjust the program's protocol timeout setting.
2082	`Timed atomic write by <program name> to fd <number> failed (<error string>)`	A timed atomic write failed. This is followed by a system-specific diagnostic message.	Examine the <error string> for potential cause of the failure.
2083	`Timed atomic read by <program name> from fd <number> failed (<error string>)`	A timed atomic read failed. This is followed by a system-specific diagnostic message.	Examine the <error string> for potential cause of the failure.
2084	`<keyword> setting contains invalid character(s)`	The keyword has a value that contains invalid characters.	Refer to the user documentation for the correct usage and edit pb.settings.
2085	`Could not access debug level settings file.`	Unable to save the debug level setting.	
2086	`Insufficient file system space for debug trace file <filename>. Disabling debug mode.`	The disk where the debug trace file will be written is running out of space. Debug tracing is disabled until the issue is resolved.	Make space on the affected file systems in order to produce debug trace files.
2087	`Debug option <option> must be run as root.`	The specified option is only available if the client was run by root.	Re-run as root to use the specified option.
2088	`Saved debug level exceeds maximum range. Setting debug level to <number>`	The debug level settings file contains an invalid value, or the file is corrupted.	Refer to user documentation to determine the location of the appropriate debug level settings file, then correct the value it contains.
2089	`Select timed out in <program name> while checking fd <number> during timed atomic write`	Select timed out waiting for fd to become writeable.	
2427	`Connection failed after initial establishment`	A connection to pbmasterd was initially successful, but failed during later setup.	Examine the pbrun and pbmasterd log files to see why the connection aborted.

Number	Diagnostic Text	Meaning	Action
2428	`Could not retrieve user information`	The user was not found in the server's user database	Use a different user id or add the user to the server's user database (e.g. /etc/passwd, NIS).
2429	`Internal error, bad expression type - <policy expression>`	An internal error occurred while evaluating an expression	Contact BeyondTrust Software.
2430	`Can not determine dynamic include file name`	An include file name could not be evaluated for an entitlement report.	Simplify the expression, or rerun the report with constraints that simplify the expression.
2431	`Terminating to protect system resources`	Entitlement reporting creates many child processes to evaluate the true and false branches of each decision. Entitlement reporting for PowerBroker policies with large numbers of IF statements that do not result in an accept or reject can spawn a huge number of child processes.	If the host machine's resources are expended to the point that the machine becomes unresponsive, try a machine with more memory and at least two processors. Edit the policy so that most IF statements result in an accept or a reject. A limit has been placed on that machine so that entitlement reporting will not disable a machine.
2432	`Entitlement reporting loop terminating to protect system resources at line <number>,:<string>`	Entitlement reporting creates many child processes to evaluate the true and false branches of each decision. Certain loop constructs can result in an endless loop during entitlement reporting. A safety mechanism to limit the number of child processes evaluating the same loop is used to prevent disabling the system with too many child processes.	If the host system has plenty of resources, increasing the value of the `--maxloopchildren` option may result in additional reported data.

Number	Diagnostic Text	Meaning	Action
		In this case, only the processes acting on the same loop statement are terminated. The rest of the entitlement reporting processes continue to create an entitlement report. **Note:** This can result in an incomplete report.	The line number and string reported indicate the policy position where the possibly endless loop is located. Evaluate the policy code to determine if the loop can be rewritten in a more efficient manner.
2433	`sigprocmask failure`	A call to the `sigprocmask ()` function failed.	Contact Beyond Trust Technical Support.
2434	`waitpid error: <number> <string>`	A call to the `waitpid()` function failed. The `errno` value and its meaning are displayed.	Evaluate the `errno` value and its meaning to determine the possible actions. Contact BeyondTrust Technical Support.
3001	`Unable to initialize SIA password structure/` `Unable to release SIA password structure`	A call to a SIA security function failed.	
3001	`Connection to <program> on <host> failed`		Check that pblocald is up and running and being started from inetd. Try 'telnet hostname pblocald'. You should get a message like "pbmasterd not on a reserved port". If you get "Connection timed out", there is a network problem between the machines. If you get "Connection refused", inetd is not accepting connections for pblocald.
3001	`Expected boolean`	A Boolean was expected.	

Number	Diagnostic Text	Meaning	Action
3002	`Connection to <machine> timed out`	The connection to a machine timed out because it is heavily loaded or does not have the same encryption key (/etc/pb.key). A pb.key problem can cause this. This can also occur if one of the daemons has incorrect command line options. (inetd accepts the connection but the daemon quits immediately because the options are incorrect.) This may also occur if pblocald cannot reconnect to pbrun during the reconnect optimization. This can occur if the Policy Server is running DNS, but the submithost is not. Therefore the Policy Server tells pblocald to connect to pbrun on machine X.Y.Z, but machine X.Y.Z thinks its name is only X.	Check the diagnostic logs on the pbmasterd or pblocald machine for something like "port checksum mismatch". If it occurs, check pb.key for a problem. Check the daemons for incorrect command line options. Check to see that the remote machine can resolve machine names correctly. This typically happens to the run host when it tries to resolve the submit host name or possibly the log host name. Check to see if the Policy Server is running DNS, but the client is not. Use the noreconnect variable, i.e. put 'noreconnect = 1;' in the /etc/pb.conf file.
3003	`Could not connect to a Policy Server daemon`	pbrun could not connect to any Policy Server daemon (pbmasterd). This could be caused by the Policy Server machine being down or inetd on the Policy Server machine not starting up pbmasterd. Try: 'telnet hostname pbmasterd'. You should get a message like "pbrun not on a reserved port". If you get "Connection timed out", there is a network problem between the machines. If you get "Connection refused", inetd is not accepting connections for pbmasterd.	

Number	Diagnostic Text	Meaning	Action
		Possible reasons for "Connection refused": - Entry in inetd.conf is incorrect/missing - Entry in services is incorrect/missing - On Suns, /etc/services is ignored when NIS is running so entries must be put in the NIS services map. (i.e.. the pblocald and pbmasterd lines need to be in the /etc/services file on the NIS Policy Server and the NIS maps need to be remade). - If DNS returns fully qualified hostnames, but the machine does not have the fully qualified hostname in /etc/hosts, or NIS, or if /etc/resolv.conf is not resolving to the short name, PowerBroker is unable to convert the fully qualified hostname to an IP address using gethostbyname().	
		"pbbench" also reports "warnings". Workaround: use shortnamesok in /etc/pb.settings. Open a line at the bottom of the file and enter: shortnamesok yes or add the fully qualified hostname after 'masters', or make sure that /etc/hosts shows both the short and fully qualified name. - On AIX, the inetimp command must be run after changing either /etc/services or /etc/inetd.conf, but before restarting inetd. This is done in the new pbinstall scripts but not the old ones.	

Number	Diagnostic Text	Meaning	Action
		- On Motorola, NIS services are ignored and local /etc/services are used. Other machines may do this too. Note: After changing inetd.conf or services, inetd must be told to re-read its configuration files. (On AIX run inetimp first on AIX 3 and possibly some early AIX 4 versions.) Do a 'ps -ef' or 'ps -agux' and then a 'kill -1' with the process ID.	
3003.1	Could not connect to a Policy Server	pbguid could not connect to a Policy Server.	Check the PowerBroker configuration files.
3004	Lost connection with <host>	At some time during the startup communication, one of the daemons closed its connection unexpectedly. This could be the result of one of the machines going down or network problems.	
3005	Request ended unexpectedly	pbrun finished because its connection with pbmasterd was cut off prematurely. This could be due to network problems, the Policy Server machine going down, or pbmasterd terminating.	
3006	getpeername	A problem occurred determining the source of the communication. If the diagnostic says something like "Socket operation on non-socket", someone probably has tried running pbmasterd from the command line instead of from inetd.	

Number	Diagnostic Text	Meaning	Action
3006. 04	`getpeername`	A problem occurred determining the source of the communication.	If the diagnostic says something like "Socket operation on non-socket", someone quite likely tried to run pbguid from the command line instead of from inetd.
3007	`Protocol error backbinding pblogd to pblocald`	pblogd failed to reconnect to pblocald. This only occurs when I/O logging is in use.	1. Make sure there is a path from the pblogd machine to the pblocald machine. 2. Try lognoreconnect=true in the policy. 3. Turn off I/O logging.
3008	`Connection closed unexpectedly during check NAK`		
3009	`pbrun to pbmasterd protocol error`	An unexpected result was received during pbrun to pbmasterd setup protocol.	
3010	`pblocald to pbmasterd protocol error`	An unexpected result was received during pblocald to pbmasterd set up protocol.	Check the encryption and firewall settings on the systems involved.
3011	`backReadN lost connection with <host name>`		
3012	`backReadN port checksum mismatch from <host name>`	pbrun/pbmasterd could not read connection port numbers from pbmasterd/pblocald. This is often a network or encryption problem.	1. Check that pb.key and encryption methods agree on all machines involved. 2. Check that the network is functioning as expected in both directions between the problem pair of jobs.
3013	`I/O log connect failure.`	Failed to make a connection to a log server during I/O logging	

Number	Diagnostic Text	Meaning	Action
3014	`could not back read log port. Bad file number`	Could not get log port during a log reconnect	Make sure the pblocald and pblogd machines can communicate. If they cannot communicate because of network restrictions, try setting lognoreconnect in the policy.
3014. 1	`could not back read log port. Bad file number`	Could not get log port during a log reconnect	Make sure the pblocald and pblogd machines can communicate. If they cannot communicate because of network restrictions, try setting lognoreconnect in the policy.
3015	`could not reconnect log fd`	A connection failure occurred during a log server reconnect.	
3015. 1	`could not reconnect log fd`	A connection failure occurred during a log server reconnect.	
3016	`Unknown service <pblogd name>`	The service specified is unknown to /etc/services and/or NIS and/or DNS.	
3017	`mangleSendStart failure on fd <number>`	An atomic write failed during a mangleSendStart. A process failed at the other end.	Check the pbmasterd.log, pblocald.log, and pblogd.log.
3018	`mangleRecvStart failure on fd <number>`	An atomic read failed during a mangleRecvStart. This is generally caused by the termination of the remote process during startup. This error means that a process failed at the other end.	Check pbmasterd.log, pblocald.log, and pblogd.log. Check the error logs and pb.key or for an incorrect service connected to the remote port.

Number	Diagnostic Text	Meaning	Action
			Check the error logs and pb.key. Also, verify that the log directories exist on the Policy Server machine or on the log server if pblogd is used. Verify that the log directories exist on the Policy Server machine or on the log server if pblogd is used.
3018. 01	`LIBMANGLE_mangleRecvStart failure on fd ##. ## of ## bytes received.`	A smaller than expected packet was received during protocol handshaking. This message means that a process failed at the other end. It is generally caused by the termination of the remote process during startup.	Check the error logs and for an incorrect service connected to the remote port. Also, verify that the log directories exist on the Policy Server machine or on the log server if pblogd is used. Verify that the log directories exist on the Policy Server machine or on the log server if pblogd is used.
3019	`Log server protocol failure from <log host>`	The log server did not acknowledge a processing request.	
3020	`Could not identify peer on fd ##`	The remote peer could not be identified. This is followed by an operating system message that provides details.	
3021	`initKerberosKey host name '<host name>' is not valid`	The listed host name could not be identified.	Correct the policy, settings file or name services.
3022	`Could not resolve full run hostname`	The run host name could not be resolved.	Correct the policy or name services.
3023	`Could not determine Policy Server name`	The name of the Policy Server could not be determined.	Check name services for the Policy Server.
3024	`Could not determine run host name`	The name of the run host could not be determined.	Check name services for the run host.

Number	Diagnostic Text	Meaning	Action
3025	Could not determine submit host name from fd %d	The name of the submit host could not be determined.	Check name services for the submit host.
3026	backBind# <host description> <host name> could not find local machine information	The listed host could not be determined.	Check name services for the listed host.
3027	Could not find local machine information	The local host name could not be determined.	Check name services for the listed host.
3028	Policy Server mangler mismatch – retrying	The mangler likely deprecated an encryption type. PB client is aware of the change and will reconnect to Policy Server using correct settings.	Verify the networkencryption settings entries for the client and Policy Server match.
3030	Problem initializing <encryptiontype> with key pair <algorithm>:<keyfile>	Incorrect encryption pair setting on pb.settings.	Check and correct encryption pair to use valid settings
3031	Invalid encryption time format 'yyyy/mm/dd', instead received xxxx	Indicates that one or more start or end dates has an incorrect format.	Verify the settings file for invalid dates.
3032	The start and end dates appear to be reversed.	The encryption start and end dates appear to be reversed.	Verify the dates.
3033	Key file unreachable: xxx	The first encryption pair (type and key) was invalid because the key file is unreachable or does not exist.	Check the key file name, path, and permissions. Then make any necessary corrections.
3050	initMangle failure while verifying Policy Server	pbguid could not initialize its encryption keys.	
3051	mangleSendStart failure	pbguid could not send its protocol header block to pbmasterd.	
3052	mangleRecvStart failure	pbguid did not receive pbmasterd's protocol header block.	
3053	initMangle failure	pbbench could not initialize its encryption keys (receive).	
3054	initMangle failure	pbbench could not initialize its encryption keys (transmit).	
3055	mangleSendStart failure connecting to <host>	pbbench could not transmit its protocol header block.	

Number	Diagnostic Text	Meaning	Action
3056	`mangleRecvStart failure connecting to <host>`	pbbench did not receive its protocol header block.	
3057	`log server initMangle error`	The program could not initialize its encryption keys for a log server connection.	
3058	`mangleSendStart failure to log server <log host>`	The program could not send its protocol header block to the named log server.	
3059	`mangleRecvStart failure from log server <log host>`	The program did not receive its protocol header block from the named log server.	
3060	`manglelex initMangle failure`	The program could not reset and reinitialize its encryption keys for file encryption.	
3061	`encrypt mangler initMangle failure`	The program could not initialize its encryption keys for file encryption.	
3062	`initial initMangle failure`	pblocald could not initialize its encryption keys.	
3063	`mangleSendStart failure initializing Policy Server '<Policy Server>'`	pblocald could not send its protocol header block to the named Policy Server.	
3064	`mangleRecvStart failure initializing Policy Server '<Policy Server>'`	pblocald did not receive its protocol header block from the named Policy Server.	
3065	`Log server initMangle failure`	pblocald could not initialize its encryption keys for a log server connection.	
3066	`mangleSendStart failure reconnecting '<submit host>'`	pblocald could not send its protocol header block to pbrun on the named submit host.	
3067	`mangleRecvStart failure reconnecting '<submit host>'`	pblocald did not receive its protocol header block from pbrun on the named submit host (branch 1).	
3068	`mangleRecvStart failure from client '<submit host>'`	pblocald did not receive its protocol header block from pbrun on the named submit host (branch 2).	

Number	Diagnostic Text	Meaning	Action
3069	`initMangle failure on initial connect from <host>`	pblogd could not initialize its encryption keys from a connection from the named host.	
3070	`mangleSendStart failure on initial connect from <host>`	pblogd could not send its protocol header block to the named host.	
3071	`mangleRecvStart failure on initial connect from <host>`	pblogd did not receive its protocol header block from the named host.	
3072	`initMangle failure during log reconnect to <run host>`	pblogd could not initialize its encryption keys during a log reconnect to pblocald on the named host.	
3073	`initMangle failure from <submit host>`	pbmasterd could not initialize its encryption keys during a connection from pbrun on the named host.	
3074	`mangleRecvstart failure during back connect to <submit host>`	pbmasterd did not receive its protocol header block during a back connect to the named host.	
3075	`initMangle failure connecting to pblocald on <run host>`	pbmasterd could not initialize its encryption keys during a connection to pblocald on the named host.	
3076	`mangleSendStart failure connecting local daemon <run host>`	pbmasterd could not send its protocol header block to pblocald on the named host.	
3077	`mangleRecvStart failure connecting local daemon <run host>`	pbmasterd did not receive its protocol header block from pblocald on the named host.	
3078	`mangleSendStart failure connecting local daemon <run host>`	pbmasterd did not receive its protocol header block from pblocald on the named host.	
3079	`initMangle failure during multiplexed reconnect to <run host>`	pbrun could not initialize its encryption keys during a multiplexed reconnect to pblocald on the named host.	

Number	Diagnostic Text	Meaning	Action
3080	`mangleSendStart failure during multiplexed reconnect to <run host>`	pbrun could not send its protocol header block to pblocald on a multiplexed reconnect to the named host.	
3081	`mangleRecvStart failure during multiplexed reconnect to <run host>`	pbrun did not receive its protocol header block from pblocald on a multiplexed reconnect to the named host.	
3082	`initMangle failure during non-multiplexed reconnect to <run host>`	pbrun could not initialize its encryption keys during a non-multiplexed reconnect to pblocald on the named host.	
3083	`mangleSendStart failure during non-multiplexed reconnect to <run host>`	pbrun could not send its protocol header block to pblocald on a non-multiplexed reconnect to the named host.	
3084	`initMangle failure during startup`	pbrun could not initialize its encryption keys during startup.	
3085	`mangleSendStart failure while connecting to <Policy Server>`	pbrun could not send its protocol header block to pbmasterd on the named host.	
3086	`initMangle failure on settings file`	The program could not initialize its encryptions to read an encrypted settings file.	
3087. 01	`Check the log files on the Policy Server to see if transmission was interrupted.`	Policy Server info packet does not contain Policy Server name	The info packet between pblocald and the Policy Server is missing the name of the Policy Server.

Number	Diagnostic Text	Meaning	Action
3087. 02	`Check the log files on the submit host to see if transmission was interrupted.`	Client info packet does not contain the client host name	The info packet between client and the Policy Server is missing the name of the client host. Check the installed versions. Older versions do not contain the client host. If you have older pre 4.0 clients, upgrade the client machines or turn off the validateclienthostname setting on your Policy Server.
3087. 03	`Check the log files on the submit host to see if transmission was interrupted. Older versions do not contain the client host name.`	Policy Server info packet does not contain the client host name	The info packet between runhost and the Policy Server is missing the name of the client host. Check the installed versions. Older versions do not contain the client host. If you have older pre 4.0 submit host, upgrade the client machines or turn off the allowremotejobs setting on your run host.
3087. 04	`Check the log files on the submit host to see if transmission was interrupted.`	Policy Server info packet does not contain the run host name	The info packet between runhost and the Policy Server is missing the name of the client host.

Number	Diagnostic Text	Meaning	Action
3087. 05	Check the log files on the submit host to see if transmission was interrupted. Older versions do not contain the client host name.	The client info packet does not contain the client host name.	The info packet between submithost and the Policy Server is missing the name of the client host. Check the installed versions. Older versions do not contain the client host. If you have older pre 4.0 clients, upgrade the client machines or turn off the validateclienthostname setting on your Policy Server.
3087. 06	Check the log files on the submit host to see if transmission was interrupted.	The client info packet does not contain the run host name.	The info packet between submithost and the Policy Server is missing the name of the run host.
3088. 01	The settings for the runhost specify that remote commands are not allowed.	Remote commands from <submit host name> not allowed on <run host name>	Remote commands from the submit host are not allowed.
3088. 02	The settings for the masterhost specify that remote commands are not allowed.	Remote commands from <submit host name> not allowed on <run host name>	Remote commands from the submit host are not allowed.
3088. 03	The settings for the submithost specify that remote commands are not allowed.	Remote commands are not allowed in <settings file name>.	Remote commands are disabled in the named settings file, but -h was used on the pbrun command line.
3089	Could not send initial protocol header to Policy Server <Policy Server name> - <operating system message>	The program could not send its initial protocol packet to the Policy Server. The operating system diagnostic contains more details.	
3090	Did not receive initial protocol header from Policy Server <Policy Server name> - <operating system message>	The program did not receive an initial protocol packet from the Policy Server. The operating system diagnostic contains more details.	

Number	Diagnostic Text	Meaning	Action
3091	Terminated on protocol failure	The Policy Server did not complete the startup protocol.	Check the Policy Server daemon log file on the Policy Server.
3092	Unsupported socket family type <network family number> for fd ##	An unsupported socket family type was found.	This is an internal error. Contact BeyondTrust technical support.
3093	Unsupported socket family type <network family number>	An unsupported socket family type was found.	This is an internal error. Contact BeyondTrust technical support.
3094	Unsupported socket family type <network family number>	An unsupported socket family type was found.	This is an internal error. Contact BeyondTrust technical support.
3095	Could not get socket information for fd #	Socket name information could not be determined for the listed file descriptor. This is followed by a system-specific diagnostic.	
3096	Could not find Policy Server protocol and service <service name>	The named service could not be found.	Check that the service name is correct and that it can be found in the system configuration files (e.g., /etc/services, NIS).
3097	Unsupported (<network family name>) internet family type for license generation	The primary interface for the machine was something the licensing mechanism could not handle.	Contact BeyondTrust technical support for suggestions on setting the primary interface type to a family licensing can use.
3098	Missing Hostname, required when connecting via pbssh	The runhost (-h) is required when executing with option pbssh	Define the runhost by using pbssh with -h.
3099	Missing user, required when connecting via pbssh	The user (-u) is required when executing with pbssh	Reissue the command specifying the user.
3100	ssh port can only be used with option --ssh or --manssh	ssh port can only be used if ssh is requested.	Remove ssh port option if ssh is not used.
3101	Unknown host: <name>	The host specified is unknown to /etc/hosts and/or NIS and/or DNS.	

Number	Diagnostic Text	Meaning	Action
3101.03	`Unknown host: <name>`	The host specified is unknown to /etc/hosts and/or NIS and/or DNS.	Try shortnamesok yes.
3101.06	`Unknown host: <name>`	The specified host is unknown to the system (i.e. /etc/hosts, DNS, NIS, etc.).	Verify that the host name is valid and can be resolved by the system's name services.
3101.09	`gethostbyname: <message>`	The host specified is unknown to /etc/hosts and/or NIS and/or DNS.	
3102	`Unknown group: <name>`	The group specified is unknown to /etc/group and/or NIS and/or DNS.	
3102.01	`Unknown group: <name>`	The group that the user is supposed to execute as does not know the group specified.	Make sure that the user is executing from the correct group.
3102.02	`Unknown group: <name>`	The group specified is one of the secondary groups.	Add the group on the local machine.
3102.03	`Unknown group: <number>`	Cannot find the group specified	Correct the group.
3102.04	`Unknown group: <number>`	Cannot find the group specified	Correct the group.
3103	`Unknown group id: ###`	The group id specified is unknown to /etc/group and/or NIS and/or DNS.	
3104	`Unknown service: <name>`	The service specified is unknown to /etc/services and/or NIS and/or DNS.	
3105	`Unknown user: <name>`	The user specified is unknown to /etc/passwd and/or NIS and/or DNS.	
3106	`Unknown user id: ###`	The user id specified is unknown to /etc/passwd and/or NIS and/or DNS.	
3106.01	`Unknown user id: ###`	The user id specified is unknown to /etc/passwd and/or NIS and/or DNS.	

Number	Diagnostic Text	Meaning	Action
3106.02	`Unknown user id: ###`	The user id specified is unknown to /etc/passwd and/or NIS and/or DNS.	
3106.03	`Unknown user id: ###`	The user id specified is unknown to /etc/passwd and/or NIS and/or DNS.	
3107	`exited abnormally`	The runprogram or pbmasterd exited in an unexpected fashion.	Check pbmasterd.log and pblocald.log.
3108	`backBind#InitListeners could not obtain a listening port address for %s during a backbind`	A listening port for the named host could not be found during a dynamic reconnection.	Check minlistening port to see that it is valid. Verify the name services for the named host. Check that sufficient ports are available.
3109	`backConnect# <host type> <host name> could not identify local host`	A host name could not be found during a dynamic reconnection.	Check name services for the named host.
3110	`backConnect# <host type> <host name> hostname length invalid %d`	The name length for the listed host was transmitted incorrectly.	This is an internal protocol error. Contact BeyondTrust technical support.
3111	`backConnect# <host type> <host name> could not get address for outgoing port <port>`	An outgoing port for the named host could not be found during a dynamic reconnection.	Check the outgoing port settings to see that they are valid. Verify the name services for the named host. Check that sufficient ports are available.
3112	`backConnect# <host type> <host name> could not obtain socket # of #`	An attempt to obtain a socket for an outgoing dynamic reconnection failed. This is followed by a system-specific message.	
3113.01	`backConnect# <host type> <host name> could not set socket port address <port number> on port # of #`	The port number could not be set for the listed socket.	Check that the socket number is valid for the host and internet family type.

Number	Diagnostic Text	Meaning	Action
3113. 02	backConnect# <host type> <host name> could not set socket port address <port address> on port # of #	The port could not be set for the listed socket.	
3114	Confirm failed, user: <user name>	A call to runconfirmuser failed on a client in local mode.	Check that the user name is valid on the submit host.
3115	No command specified	No command was specified on prune's command line.	
3116	Exited with signal	The secured task received a signal, which caused it to terminate.	
3117	Execution failure	The secured task failed to execute.	Verify that the secured task is an executable file that exists. Verify that the system has enough resources to execute tasks.
3118	Logserver error	PowerBroker possibly encountered a logging issue after the secured task was executed.	
3119	unable to set termination status	Unable to determine the termination status of the child, for logging.	Contact Technical Support
3120	child <pid> has not been reaped. Errno:<number>	The secured task is known to have terminated, but has not been reaped.	Contact Technical Support
3121	forcing child termination	PowerBroker has stopped processing IO for the secured task. The secured task is still alive, so PB is forcing the termination of the secured task.	Informational
3122	Unknown Termination code: <number>	The secured task has completed (or been killed), however the termination status returned to pbrun is unknown.	Contact Technical Support

Number	Diagnostic Text	Meaning	Action
3123	`No termination count: <number>`	Signal handler was called for SIGCHLD, however waitpid did not return an exited child pid.	Informational
3124	`waitpid error:<errno> <error string>`	The waitpid() system call returned an error while responding to SIGCHLD.	Informational
3125	`Processing select with NULL timeout`	An internal variable was not set properly.	Contact Technical Support
3126	`Error: null timeout`	An internal variable was not set properly.	Contact Technical Support
3127	`Cannot run relative-pathed commands when runcwd directory is inaccessible`	runcwd directory does not exist or is inaccessible. Relative-pathed commands may not be run under this circumstance.	Issue command using absolute path.
3201	`Exec of <program name> failed`	pblocald or pbmasterd could not execute the command specified. This is followed by a system-specific diagnostic. Note: If pbmasterd is printing the error message, it is the result of a system() call somewhere inside pb.conf. If it fails due to "Exec format error", XXX is not an executable or it does not match the checksum given by runcksum.	
3202	`Exec of <program> failed`	The program could not be started. This is followed by an operating system diagnostic.	Check that the command is correct and executable.
3204	`lockEventLog <filename> open failure: <errno> <error string>`	The open system call failed to open the eventlog file.	Contact Technical Support
3205	`lockEventLog <filename> lock failure: <errno> <error string>`	Failed to obtain a lock for the eventlog.	Contact Technical Support
3206	`rotateEventLog invalid character in unformatted eventlogrotate path:<path> ret:<error code>`	The eventlogrotate keyword contains an illegal character in the path= specification.	Edit pb.settings to change the eventlogrotate keyword.

Number	Diagnostic Text	Meaning	Action
3207	`rotateEventLog invalid character in formatted eventlogrotate path:<path> ret:<error code>`	The eventlogrotate keyword contains a %variable% substitution that results in an illegal character in the path= specification.	Edit pb.settings to change the eventlogrotate keyword. Or, edit pb.conf to change the data held by the variable substituted into the path.
3208	`rotateEventLog eventlogrotate path is not absolute or not a valid path:<path> ret:<error code>`	rotateEventLog eventlogrotate path is not absolute or not a valid path:<path> ret:<error code>	Edit pb.settings to change the eventlogrotate keyword so that the path is absolute and a valid path.
3209	`rotateEventLog new /path/filename:</path/filename> already exists`	Cannot rotate the eventlog because the destination filename already exists.	Informational only
3210	`rotateEventLog new filename:<filename> already exists`	Cannot rotate the eventlog because the destination filename already exists.	Informational only
3211	`rotateEventLog path is not secure:<path>`	The path reported is not secure (e.g. writable by non root users).	Edit pb.settings to change eventlogrotate to specify a secure path. Or, change the permissions on the path elements.
3212	`rotateEventLog mkdir:<path> errno:<errno> <error string>`	The mkdir system call failed	Examine errno for possible causes.
3213	`rotateEventLog stat error for:<path> errno:<errno> <error string>`	The stat system call failed.	Examine errno for possible causes.
3214	`rotateEventLog mkdir full:<path> errno:<errno> <error string>`	The mkdir system call failed.	Examine errno for possible causes.
3215	`rotateEventLog stat error for full:<path> errno:<errno> <error string>`	The stat system call failed.	Examine errno for possible causes.

Number	Diagnostic Text	Meaning	Action
3216	rename file from: </path/filename> to </path/filename> failed. errno: <errno> <error string>	The rename function failed to rotate the eventlog.	Examine errno for possible causes.
3217	rotateEventLogSize fstat failure: <errno> <error string>	The fstat call failed.	Examine errno for possible causes.
3203	Exec of <program> failed	The program could not be started. This is followed by an operating system diagnostic.	Check that the command is correct and executable.
3301	Calloc (<number of elements>, <element size>)	A calloc operation failed. This is followed by an operating system diagnostic message.	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.
3302	Malloc size = <requested size>	A memory allocation operation failed. This is followed by an operating system diagnostic message.	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.
3303	Realloc(0x<old address>, <new size>)	A realloc operation failed. This is followed by an operating system diagnostic message.	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.
3304	Fset error fopening <file name> - <reason>	The fset () function could not open the file specified.	
3304	Strdup <value>	A string duplication failed while attempting to copy the listed value. This may be followed by an operating system diagnostic message.	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.

Number	Diagnostic Text	Meaning	Action
3305	`Malloc failure in writeMuxBuf`	The machine is running out of memory or swap space.	If this occurs often, increase the amount of swap space on the machine.
3306	`Malloc failure in recvWinch`	The machine is running out of memory or swap space.	If this occurs often, increase the amount of swap space on the machine.
3307	`Malloc failure in recvTtyChars`	The machine is running out of memory or swap space.	If this occurs often, increase the amount of swap space on the machine.
3308	`Could not reallocate I/O buffer from ## bytes to ## bytes`	A memory allocation problem when readMuxBuf tried to increase an input buffer size. A system-specific diagnostic follows this message.	
3309	`Remote process terminated while waiting for an acknowledgement`	Check the error log on the remote machine.	
3310	`Insufficient buffer space to fetch command buffer ##/##`	The machine is running out of memory or swap space.	If this occurs often, increase the amount of swap space on the machine.
3311	`Could not allocate fname, <file name>, in parseconfig`	Could not allocate enough memory for filename	
3312	`Could not allocate MasterRules`	Insufficient memory to allocate Policy Server rules list	
3313	`Could not allocate license string`	Insufficient memory to allocate license string	
3314	`Could not allocate ## bytes for settings table from '<settings file>'`	Insufficient memory for settings table	
3315	`Could not allocate ## bytes for temporary settings table from '<settings file>'`	Insufficient memory for temporary settings table	
3316	`Could not allocate krb5 keytab name '<file name>'`	Insufficient memory for keytab name	

Number	Diagnostic Text	Meaning	Action
3317. 1	`Memory transfer truncated at byte XX`	Incorrect target buffer size.	If buffer is an user entry, an argument with a smaller length may be required, otherwise it is an internal error.
3317. 10	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in building URL string.
3317. 11	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in building URL string.
3317. 12	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in doing global substitution.
3317. 13	`Memory transfer truncated, affected source string xx`	Incorrect target buffer size.	Internal error. Error in getting expanded setting string.
3317. 2	`Memory transfer truncated at xx`	Incorrect target buffer size.	Check nis host info.
3317. 3	`Memory transfer truncated at xx`	Incorrect target buffer size.	Check the pbguid settings/configuration file.
3317. 4	`Memory transfer truncated at xx`	Incorrect target buffer size.	Error while getting the group name from the GUI.
3317. 5	`Memory transfer truncated at xx`	Incorrect target buffer size.	Check the string length.
3317. 6	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in buildmasterrule (pblocald).
3317. 7	`Memory transfer truncated`	Incorrect target buffer size.	Internal error Error in log join (pblog).
3318. 8	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in reporting lexical error message (pbmasterd).
3318. 9	`Memory transfer truncated`	Incorrect target buffer size.	Internal error. Error in Policy Server connection.

Number	Diagnostic Text	Meaning	Action
3320	`fork`	The machine is running out of processes.	If this occurs often, increase the maximum number of processes in your kernel.
3321	`Server fork 2 failure:`	A daemon could not create a child process in standalone server mode. This is followed by a system-specific diagnostic message.	
3322	`Server fork failure for <service> port ##`	A standalone server daemon could not create a child process for the listed service name and port. This is followed by a system-specific diagnostic message.	
3323	`Fork failed - <operating system message>`	An attempt to start a new process failed. The operating-system specific diagnostic contains more detail.	
3324	`Fork failed - <operating system message>`	An attempt to move a control socket failed. The operating-system specific diagnostic contains more information.	
3340	`Can't open /dev/tty`	pbrun could not open /dev/tty to get input directly from the user. (most likely a password)	
3341	`Could not get a pty`	A pseudo-tty could not be opened to run the process.	If this occurs often, add more pseudo ttys. Consult your operating system manuals (and/or /dev/MAKEDEV) for more information.
3342	`Cannot read X's password: no tty`	The pblocald confirm user password feature was selected, but the pbrun is not running on a tty (e.g.. batch job). Therefore, the password could not be received securely.	

Number	Diagnostic Text	Meaning	Action
3342. 02	`Cannot read <user name>'s password: no tty`	The client's confirm user password feature was selected, but the client is not running on a tty (for example, as a batch job). Therefore, the password could not be received securely.	
3343	`HP-UX pty problem: '<pty name>'`	This indicates a failure to access the named pty. It is followed by the system-specific diagnostic message.	
3344	`Could not open /dev/tty for input - <system specific reason>`	A tty could not be opened for input. This is followed by the system-specific diagnostic message.	
3345	`Could not allocate a pty - <operating system message>`	A pty could not be obtained. The operating system diagnostic contains more details.	
3346	`TTY is no longer available`	The tty connection needed to execute `pbrun` is no longer available for redirection.	Make sure `pbrun` has access to the tty.
3360	`open logfile: <file name>`	I/O logging was requested, but the log file could not be opened. This immediately terminates the request. The filename must be unique for each request and the file should exist before the request is made.	Verify that the filename is correct and that the disk in which it would reside is not full.
3361	`open event log: <file name>`	Event logging was requested, but the event log file could not be opened. Unlike I/O log files, an event log file may exist beforehand. It is always appended to and never overwritten.	Verify that the filename is correct.
3362	`open: /etc/pb.settings`	An error occurred while opening the pb.settings file.	

Number	Diagnostic Text	Meaning	Action
3362. 03	`open: <policy file>: <message>`	An error occurred while creating or opening the specified policy file. <message> is the text for the error code returned by the operating system.	Verify that the file and all path components exist. Correct any problem indicated by <message>.
3363	`stat /etc/pb.settings`	An error occurred while stating the pb.settings file.	
3364	`stat: <filename>`	An error occurred while stating a configuration file.	
3364. 02	`stat: <message>`	A call to the C language stat () function for the PowerBroker Event Log failed. <message> is the text for the error code returned by the operating system.	Verify that the path exists. Correct any problem indicated by <message>.
3364. 04	`stat: <policy file>: <message>`	A call to the C language stat () function for the specified policy file failed. <message> is the text for the error code returned by the operating system.	Verify that the file and all path components exist. Correct any problem indicated by <message>.
3364. 05	`stat: <message>`	A call to the C language stat () function for a PowerBroker policy file failed. <message> is the text for the error code returned by the operating system.	Verify that the path exists. Correct any problem indicated by <message>.
3364. 06	`stat: <message>`	A call to the C language stat () function for a PowerBroker policy file failed. <message> is the text for the error code returned by the operating system.	Verify that the path exists. Correct any problem indicated by <message>.
3365	`failed to write record`	The information failed to write to the event log file or an I/O log file. A disk running out of space can cause this.	

Number	Diagnostic Text	Meaning	Action
3366	`No valid Policy Server setting. Who is Policy Server?`	pbrun could not determine which machine was a Policy Server because there was no Policy Servers line in the /etc/pb.settings file, the file contained no valid hostnames, or there was no netgroup 'pbmasters'.	Make sure the hostnames in /etc/pb.settings are correct. If you are using the netgroup 'pbmasters', make sure the names are fully qualified with domain names.
3367	`event log file '<file name>' not logged to -- absolute paths only`	The event log specified did not begin with a slash (/). Pathnames for log files must be absolute.	
3368	`/etc/pb.settings: Invalid port number ###`	The port number for the masterport or localport must be between 1024 and 32767.	
3368. 05	`-p <port> must be a number between <min> and <max> or an absolute path`	An attempt was made to launch pbguid in daemon mode (-d) with an invalid port value.	Use a port value between the specified <min> and <max> values.
3369	`I/O log file '<file name>' not logged to -- absolute paths only`	The I/O log specified did not begin with a slash (/). Pathnames for log files must be absolute.	
3370	`fopen <filename>`	Could not open the file specified to pbcheck	Verify the file specified to pbcheck exists and has the appropriate read permissions.
3371	`Invalid <name> reserved port number <port number>`	The port number is outside of the acceptable reserved port range (1-1024).	
3371. 0?	`<keyword>: Invalid port number ##`	The value for minreservedport or maxreservedport in the /etc/pb.settings file is invalid.	
3371. 03	`<settings file name>: Minimum outgoing port (<number>) must be between <minimum number> and <maximum number>`	The value for the minoutgoingport setting in the listed file should be within the shown numeric range.	Correct the minoutgoingport setting.
3371. 04	`<settings file name>: Maximum outgoing port (%d) must be between %d and %d`	The value for the maxoutgoingport setting in the listed file should be within the shown numeric range.	Correct the maxoutgoingport setting.

Number	Diagnostic Text	Meaning	Action
3372	`Facility not found`	The facility specified in /etc/pb.settings is not known internally.	Check that this is a valid setting for your syslog.conf. Contact BeyondTrust technical support.
3372. 03	`<settings file name>: Minimum listening port (<number>) must be between <minimum number> and <maximum number>`	The value for the minlisteningport setting in the listed file should be within in the shown numeric range.	Correct the minlisteningport setting.
3372. 04	`<settings file name>: Maximum listening port (<number>) must be between <minimum number> and <maximum number>`	The value for the maxlisteningport setting in the listed file should be within in the shown numeric range.	Correct the maxlisteningport setting.
3373	`filename in getuserpassword not absolute`	There is no / at the beginning of the filename in the getuserpassword () function.	Change the filename.
3374	`Log server could not create temporary file`	The log server could not open a unique I/O log.	Make sure the file does not already exist. Check that the path is correct.
3375	`No valid logserver setting in <settings file>`		
3376	`logConnect <Policy Server/local> connect failure`	A logConnect failure was diagnosed when sending a Policy Server/local connect command. This usually indicates that inetd responded on the pblogd machine, but that pblogd failed to run for some reason.	Check the pblogd.log on the log server.
3377	`logConnect failure`	A generic failure occurred when starting a log server daemon.	Check the log server error log for more information.
3378	`log event ack failure`	The log daemon failed to acknowledge a protocol handshake. The log server most likely terminated. This is usually preceded by an error message from the log server.	Check pblogd.log on the log server machine.

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Number	Diagnostic Text	Meaning	Action
3379	`log server protocol failure after start. Please check for a mismatched key on <log host machine>`	The log server failed to start. This is usually a set up or encryption issue.	Examine the checksums for the keyfile on the Policy Server, local, and log server machines.
3380	`port <settings name> (<value>) must have a numeric value between <minimum allowed> and <maximum allowed>`	The port setting shown should be a number between the minimum and maximum allowed.	Correct the setting shown.
3381	`Can not set ingoing/outgoing port ranges`	A configuration problem exists in the settings file port definitions. This usually follows another message that describes the specific setting.	Look for the preceding message and correct the problem shown.
3382	`reserved space on <filesystem name> is below <number reserved> blocks (<number available>)`	There is insufficient space on the specified file system to start a new operation.	Clear some file system space or change the logreservedblocks setting.
3383	`Could not determine log server rules`	The log servers could not be found in the policy, settings, command line, or NIS.	Define the log servers.
3384	`Local mode log failure`	Logging could not be started in local mode.	This is usually preceded by other diagnostics that detail the failure.
3385.01	`Insufficient disk space for logging`	The log server daemon does not have enough disk space for logging.	Make space on the affected file systems or adjust the logreservedblocks and logreservedfilesystems settings on the log host.
3385.02	`Insufficient disk space for logging`	The Policy Server daemon does not have enough disk space for logging.	Make space on the affected file systems or adjust the logreservedblocks and logreservedfilesystems settings on the Policy Server.

Number	Diagnostic Text	Meaning	Action
3386	`Maximum log server failures (###) exceeded`	The maximum number of log failures was exceeded.	Check the local diagnostic logs to see if any log connections were made. Check the diagnostic log file on the affected log hosts for more information.
3387. 01	`Insufficient file system space for log file <log file name>`	There was insufficient disk space to write the named I/O log file.	Make space on the affected file systems on the log host or Policy Server or adjust the logreservedblocks and logreservedfilesystems settings on the log host.
3387. 02	`Insufficient file system space for log file <log file name>`	There was insufficient disk space to write the named event log file.	Make space on the affected file systems on the log host or Policy Server or adjust the logreservedblocks and logreservedfilesystems settings on the log host.
3401	`WARNING: <filename> is open for reading by non-root users`	This is a warning that a file used by PowerBroker is open for reading by non-root users. Since non-root users do not need this access to run the programs, it is suggested that the files only be readable by root.	
3402	`WARNING: <filename> is open for writing by non-root users`	This is a warning that a file used by PowerBroker is open for writing by non-root users. Security may be jeopardized because a non-root user could modify files used by PowerBroker. If root (/) has permissions of 777, pbrun will fail.	To fix, chmod 755 /.
3404	`<filename>is not owned by root!`	A known PowerBroker file was found belonging to a user other than root. root must own all PowerBroker files to be secure.	

Number	Diagnostic Text	Meaning	Action
3405	`<path name> is not secure!`	The named config file was found to be insecure for one of the previous reasons (error 3401-3404). All requests will fail if this occurs.	
3406	`/etc/pb.settings is not secure!`	The settings file was found to be insecure. All requests will fail if this occurs.	
3407	`must be run as root.`	pbmasterd or pblocald was run from someone other than root. Normally inetd starts these programs running as the root user. This error should not occur unless PowerBroker was installed incorrectly.	
3408	`must be setuid root.`	pbrun must be a setuid root program. pbrun needs to be able to access root privileged files and ports to work correctly. setuid will often fail if executed from an NFS mount. This error should not occur unless PowerBroker was installed incorrectly.	1. Check that pbrun has the setuid bit turned on. 2. Check if pbrun is in an NFS mounted directory tree.
3410	`Connection from <name> on non-reserved port disallowed`	Connections to pbmasterd and pblocald must originate from reserved port numbers. This ensures that program on the other end of the communication is running as root. Note: In previous troubleshooting tips, it is suggested that telnet be used to connect to the Policy Server or local daemons. telnet will cause this error to occur.	

Number	Diagnostic Text	Meaning	Action
3411	`Policy Server <Policy Server> is not listed in <run host>'s acceptmasters rules`	A request was received by pblocald from a machine that is not one of its recognized Policy Servers. Requests must only come from hosts listed on the acceptmasters line in the settings file or the netgroup pbacceptmasters. Note: The IP address is used to lookup the hostname. If DNS does not have the reverse lookups set up correctly, pblocald may reject the local machine.	Try 'nslookup <machine name>' then 'nslookup <ipadres>' and see if you get the same thing or add the denied Policy Server (YYY) to the Policy Server line in /etc/pb.settings.
3412	`pbmasterd on <host> not on a reserved port!`	Connections to pblocald must originate from reserved port numbers. This ensures that program on the other end of the communication is running as root. Note: In previous troubleshooting tips, it is suggested that telnet be used to connect to the Policy Server or local daemons. telnet will cause this error to occur. If a port scan is done on the port, this error will also be reported, indicating a connection was tried, but was unsuccessful.	If this occurs when pbrun is executed, ensure the inetd.conf entry for pbmasterd has its user as root.
3413	`pbrun on <host> not on a reserved port!`	Connections to pbmasterd must originate from reserved port numbers. This insures that program on the other end of the communication is running as root. Note: In previous trouble shooting tips, it is suggested that telnet be used to connect to the Policy Server or local daemons. telnet will cause this error to occur.	If this occurs when pbrun is executed, ensure the inetd.conf entry for pbmasterd has its user as root.

Number	Diagnostic Text	Meaning	Action
		If a port scan is done on the port, this error will also be reported indicating a connection was tried, but was unsuccessful.	
3414	No arguments in inetd.conf for …	The inetd configuration is missing the name of the command being run (pblocald or pbmasterd)	Change the inetd entry so it is like: service stream tcp nowait root filename to service stream tcp nowait root filename command
3415	pbrun "-testmaster" option may only be used when running as root	The testmaster option was used when running pbrun as user other than root	Re-run as root.
3421	Could not get rungroups	Internal error	Contact BeyondTrust technical support.
3422	Available key data (### characters) is smaller than the minimum (<required length>) required by <algorithm name>	The key data from pb.key or Kerberos is smaller than the key length required by the algorithm.	Increase the size of the key in pb.key or Kerberos.
3423	No symmetric algorithm supplied.	A symmetric encryption algorithm was not provided.	Check the settings file and make sure the encryption algorithms are listed.
3424	No hash algorithm supplied	A hash (digest) algorithm name was not supplied.	Check the settings file and make sure a hash algorithm is supplied.
3425	Can not find hash algorithm <name>	The hash algorithm could not be found under the name listed.	Make sure the name is correct.
3426	Can not find symmetric algorithm <name>	The symmetric algorithm could not be found under this name.	Make sure the name is correct.
3427	Can not find cipher mode <name>	Could not find the cipher mode under this name	Make sure the name is correct.

Number	Diagnostic Text	Meaning	Action
3428	Cipher mode <name> is <block/stream> mode. Symmetric algorithm <name> is <stream/block> mode	The cipher mode and symmetric algorithm have different block/stream modes.	Make sure the symmetric algorithm and the cipher mode are both block or stream mode.
3429	Unexpected buffer length decrypting with <name>	The length of the encryption buffer was not of the expected value.	
3430	Insecure operation – please consult your administrator	An insecure operation occurred.	Check the error logs on the machine that produced the error.
3431	Expecting a string, number or list	A string, number, or list was expected, but not found.	Correct the policy.
3431	Security error – please see your administrator	A security error occurred.	Check the error logs on the machine that caused the error.
3501	No validation string found.	A validation string must be found in the settings file for PowerBroker to operate fully.	
3501.1	Detected temporary placeholder string in the validation setting.	The settings file contains a placeholder string in the validation setting.	The settings file contains a placeholder string in the validation setting.
3503	The validation string is incorrect.		
3504	Warning: version conflict! VER1 on HOST1 differs with VER2 on HOST2	This is a warning that different PowerBroker versions are running on different machines.	BeyondTrust strongly suggests that you run the same version of PowerBroker on all machines to minimize incompatibility problems. Upgrade when practical.
3504.01	login_tty	For HP-UX: Unable to open /dev/ptym directory Everything needs to be of the form ptyX in the directory There needs to be a pty of the form /dev/pty/tX	

Number	Diagnostic Text	Meaning	Action
		(Unsure how many characters for X) For SGI: Unable to open a pty For SVR4 and Solaris: Unable to open directory /dev/ptmx No pty available (/dev/pts/N where N is a non-negative number) For AIX: Unable to open directory /dev/ptc. Unable to open tty For SunOS, m88k_svr32, SCO, Linux, Ultrix: Unable to find and/or open /dev/ptyXX	
3505	`WARNING: The license will expire in X days on XX.`	This is a warning that your license is about to expire. The request will still be honored, but you should get a new license if you wish to continue using PowerBroker past the expiry date.	Get a new license from BeyondTrust.
3506	`The validation string indicates an expired license.`	The validation string in the configuration file has expired.	Obtain a new validation string.
3506	`Not licensed for this host`	The license is not for the host it is run on.	Get a new license from BeyondTrust.
3507	`chksum error in license`	The license is invalid.	Get a new license from BeyondTrust.
3508	`invalid number of hosts`	The license key is corrupt.	Get a new license from BeyondTrust.
3509	`Too many clients using this license`	The Policy Server is licensed for a number of clients (pbrun and pblocald) that connect to it. More connections to/from these are used than licensed.	1. For versions 2.8 and later, try retiring unused licenses with pblicense -r. 2. Contact BeyondTrust technical support.
3510	`Problem reading client license file`	An error occurred while processing the license file.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
3511	Problem writing license file	An error occurred while processing the client license file.	Contact BeyondTrust technical support.
3512	Can't stat license file	The license file probably does not exist. This may be due to an incomplete installation. This error may also occur if the error is occurring on a Policy Server or failover Policy Server and they used pbmakeremotetar and the pbremoteinstall. These scripts were designed for use on submithost and runhost installations, not Policy Servers/failover Policy Servers.	Reinstall.
3513	Can't open license file.	The license file probably does not exist.	Reinstate the license file.
3514	Bad header in license file.	The license file is corrupt.	Reinstall.
3515	Corrupt license file.	The license file is corrupt.	Reinstall.
3516	Can't allocate memory.	Cannot allocate memory	
3517	getpeername() failed	The server cannot determine the IP address of incoming connection.	
3518	cannot close license file	The server cannot close the license file.	
3519	cannot remove lock file	The license file lock file (*.lock) cannot be removed.	Remove the offending lock file.
3520	connecting client is retired	A client who was retired from the license file attempted to connect to a server. The connection was refused.	Wait for the retirement period to expire.
3521	This installation of PowerBroker is only licensed for Linux	The license was a Linux-only license and the client OS was not Linux.	
3522	Problem reading license files for IPv6 clients	An error occurred while processing the IPv6 client license file.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
3523	Problem writing IPv6 client license file	An error occurred while processing the IPv6 client license file.	Contact BeyondTrust technical support.
3524	Cannot stat IPv6 license file	The IPv6 client license file probably does not exist. This may be due to an incomplete installation.	Reinstall.
3525	Can not open IPv6 license file	The IPv6 client license file probably does not exist.	Reinstate the IPv6 client license file.
3526	Bad header in IPv6 license file	The IPv6 client license file is corrupt.	Reinstall.
3527	Corrupt IPv6 license file	The IPv6 client license file is corrupt.	Reinstall.
3528	Failed to get address info of the target host.	The server cannot determine the IP address of the target host.	Check the pbmasterd log files/syslog to see what caused the problem.
3530	Unknown Error	An unknown error occurred during the license processing.	Contact BeyondTrust technical support.
3531	<file> is Not a regular file suitable for license data	The file specified to store auxiliary licensing data must be a regular file (i.e. not a directory).	Specify the full /path/to/filename of a file to store auxiliary licensing data.
3532	The <#days> argument must be a number between zero and 65535	This cannot be a letter or a number out of the range.	Specify an appropriate number.
3533	Client license limit reached on Policy Server. Contact BeyondTrust Technical Support to prevent future client rejection.	The Policy Server is licensed for a number of clients (pbrun and pblocald) that connect to it. The license limit was reached but a temporary extension is allowing new clients to connect.	Contact BeyondTrust Technical Support to prevent future client rejection.
3534	Client license limit reached on Policy Server and rejection of additional client is imminent. Please contact BeyondTrust Technical Support.	The Policy Server is licensed for a number of clients (pbrun and pblocald) that connect to it. The client license limit has been reached and the temporary extension is close to being reached.	Contact BeyondTrust Technical Support to prevent future client rejection.

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Number	Diagnostic Text	Meaning	Action
3535	Failed to position license file pointer to the start of the file due to bad file descriptor.		
3536	Failed to position license file pointer to the end of the file.		
3539	Unable to stat client host uuid.	Could not access PowerBroker for Unix & Linux Client's UUID file. This is followed by a system-specific diagnostic.	Correct the situation described by the system specific diagnostic.
3540	Unable to lock client host uuid file.	Could not open the PowerBroker for Unix & Linux Client's UUID file. This is followed by a system-specific diagnostic.	Correct the situation described by the system specific diagnostic.
3541	Failed to read from client uuid file.	Could not read PowerBroker for Unix & Linux Client's UUID file. It may be invalid or corrupted. This is followed by a system-specific diagnostic.	Correct the situation described by the system specific diagnostic.
3542	Failed to open PowerBroker for Unix & Linux client host uuid file.	Could not open PowerBroker for Unix & Linux Client's UUID file. It may be invalid or corrupted. This is followed by a system-specific diagnostic.	Correct the situation described by the system specific diagnostic.
3543	Detected invalid PowerBroker for Unix & Linux client host uuid file.	The PowerBroker for Unix & Linux Client's UUID file is invalid or corrupted.	Ensure that the file was not manually overwritten. Contact BeyondTrust Software for assistance.
3601	Bad constraint <constraint string>	An improper constraint string was provided to pblog.	
3602	Bad accept format <format string>	An improper accept format string was provided to pblog.	
3603	Bad reject format <format string>	An improper reject format string was provided to pblog.	
3604	Bad end format <format string>	An improper end format string was provided to pblog.	
3605	Improper keystroke format <format string>	An improper keystroke format string was provided to pblog.	

Number	Diagnostic Text	Meaning	Action
3606	`logserverdelay (##) must be -1 or greater`	An improper value was provided for the logserverdelay setting.	
3607	`eventlog name <file name> : <description>`	An invalid event log file name was provided to pblocald. The description provides the details.	
3608	`-p [port] can only be specified with daemon mode (-d))`	A -p <port number> argument was provided to pblocald, but -d (daemon mode) was not specified.	
3609	`Improper input to pblog - exiting`	An invalid command line argument was provided to pblog. This generally follows another error message(s) that describes the problem in detail.	
3610	`eventlog name <file name> : <description>`	An invalid event log file name was provided to pblogd. The description will provide the details.	
3611	`-p [port] can only be specified with daemon mode (-d))`	A -p <port number> argument was provided to pblogd, but -d (daemon mode) was not specified.	
3612	`eventlog name <file name> : <description>`	An invalid event log file name was provided to pbmasterd. The description provides the details.	
3613	`-p [port] can only be specified with daemon mode (-d))`	A -p <port number> argument was provided to pbmasterd, but -d (daemon mode) was not specified.	
3614	`local mode not allowed in <settings file>`	pbmasterd received a request from pbrun for local mode, but the settings file disallows local mode.	
3615	`request user, '<name>', longer than ## characters`	pbrun -u specified a user name that is longer than the maximum allowed.	

Number	Diagnostic Text	Meaning	Action
3616	Local mode and -h can not be specified together	pbrun's command line specified both local mode (-l) and a remote host (-h) at the same time.	
3617	Local mode and -h can not be specified together	pbrun's command line specified both local mode (-l) and a remote host (-h) at the same time.	
3618	local mode not allowed in <settings file>	pbrun's command line requested local mode (-l), but the settings file disallows it.	
3619	eventlog name <file name> : <description>	An invalid event log file name was provided to pbguid. The description provides the details.	
3620	-p [port] can only be specified with daemon mode (-d))	A -p <port number> argument was provided to pbguid, but -d (daemon mode) was not specified.	
3620.1	-d [daemon] can only be specified with daemon mode -d		Make sure flags -d and -p are used together.
3701	Can not post process report data	An error occurred while post-processing report data. This is followed by a system-specific diagnostic.	Correct the situation described by the system-specific diagnostic.
3702	Exec of <program name> failed	The program could not start the named program. This is followed by a system-specific diagnostic.	Correct the situation described by the system-specific diagnostic.
3703	Could not write work file	An attempt to write data to a work file failed. This is followed by a system-specific diagnostic.	Correct the situation described by the system-specific diagnostic.
3704	Can not open workfile <name>	The named workfile could not be opened. This is followed by a system-specific diagnostic.	Correct the situation described by the system-specific diagnostic.
3705	Internal error - list flag array maximum size exeeded	Internal error	Contact BeyondTrust Software

Number	Diagnostic Text	Meaning	Action
3706	Expected expression but found <type> in <code>	Internal error	Contact BeyondTrust Software
3707	Internal error while adding relational operation assumption	Internal error	Contact BeyondTrust Software
3708	Expression too complex to evaluate	Entitlement reporting found an expression it could not evaluate. This can result in an incomplete report.	Simplify the expression, or rerun the report with constraints that reduce the complexity of the expression.
3709	Could not create entitlement branch process	Could not create a branch during an entitlement report. This is followed by a system-specific diagnostic.	Correct the situation described by the system-specific diagnostic, or rerun the report with constraints that reduce complexity.
3710	Arithmetic overflow	An addition operation resulted in a number too big for the system.	Edit the policy to correct the error.
3711	Multiplication overflow	A multiplication operation resulted in a number too big for the system.	Edit the policy to correct the error.
3712	Can not evaluate soft conditional expression. This can result in an incomplete report.	During an entitlement report, a soft condition could not be evaluated. This can result in an incomplete report.	Simplify the expression, or rerun the report with constraints that reduce the complexity of the expression.
3901	Unrecognized keyword in /etc/pb.settings	One of the settings keywords is spelled incorrectly or is not a valid keyword.	
3902	No key file specified in /etc/pb.settings	There is no parameter after 'keyfile' in the settings file.	
3903	No policy file specified in /etc/pb.settings	There is no parameter after 'policyfile' in the settings file.	
3904	No policy directory specified in /etc/pb.settings	There is no parameter after 'policydir' in the settings file.	
3905	Malformed validation string in /etc/pb.settings	There are less than four parameters after 'validation' in the settings file.	

Number	Diagnostic Text	Meaning	Action
3906	`'yes' or 'no' must be specified after 'kerberos' in /etc/pb.settings`		
3907	`No pblocald log file specified in /etc/pb.settings`	There is no value after the keyword 'pblocaldlog'.	
3908	`'yes' or 'no' must be specified after 'syslog' in /etc/pb.settings`	The value after the keyword 'syslog' is not 'yes' or 'no'.	
3909	`No Policy Servers specified in /etc/pb.settings`	No parameters come after 'Policy Servers' in the settings file.	
3910	`No pbmasterd log file specified in /etc/pb.settings`	There is no value after the keyword 'pbmasterdlog'.	
3911	`No log facility specified in /etc/pb.settings`	There is no value after the keyword 'facility'.	
3913	`No pbrun log file specified in /etc/pb.settings`	There is no value after the keyword 'pbrunlog'.	
3914	`No Policy Server port specified in /etc/pb.settings`	There is no value after the keyword 'masterport'.	
3915	`No local port specified in /etc/pb.settings`	There is no value after the keyword 'localport'.	
3916.##	`No Policy Server principal specified in <settings file>`	There is no value after the keyword 'mprincipal'.	
3917.##	`No local principal specified in <settings file>`	There is no value after the keyword 'lprincipal'.	
3918.##	`No keytab specified in <settings file>`	There is no value after the keyword 'keytab'.	
3919.00	`Keytab not found or not secure`	Kerberos keytab was not found or open for reading/writing by non-authorized users	
3920	`No maximum port specified in /etc/pb.settings`	There is no value after the keyword 'maxport'.	
3921	`Maximum port not large enough in /etc/pb.settings`	The value for the maxport is less than the minport.	
3922	`No minimum reserved port specified in /etc/pb.settings`	There is no value after the keyword 'minreservedport'.	
3923	`No maximum reserved port specified in /etc/pb.settings`	There is no value after the keyword 'maxreservedport'.	

Number	Diagnostic Text	Meaning	Action
3924	`Maximum reserved port not large enough in /etc/pb.settings`	The value for the maxreservedport is less than minreservedport.	Change one of the values.
3925	`No minimum port specified in /etc/pb.settings`	There is no value after the keyword 'minport'.	
3926	`pbcheck 2.7.6 3926 Missing or insecure keyfile: /etc/pb.key`	The keyfile specified in /etc/pb.settings is not secure or is missing.	Verify that /etc/pb.settings exists and check the file permissions. Upgrade to a PowerBroker version newer than 2.7.6.
3927.01	`3927.01%s:line %d: unknown keyword %s`	The indicated line in the indicated settings file has an unknown keyword.	Read the man page section for the settings file and correct the indicated line number.
3927.02	`3927.02:%s: line %d:expected 'yes' or 'no' after '%s'`	The indicated keyword at the indicated line in the indicated settings file may only be set to a 'Yes' or 'No' value.	Set the keyword to a value of 'Yes' or 'No'.
3927.03	`3927.03:%s: line %d: ignoring everything after '%s'`	Extraneous characters were found after the string in the indicated settings file and line.	Remove the extraneous characters from the indicated line.
3927.04	`3927.04:%s: line %d: expected a number after %s`	Found a non-numeric character as a value for the indicated keyword at the indicated line in the indicated settings file	Set the keyword to a numeric value.
3927.05	`3927.05:%s: line %d: ignoring everything after '%s'`	Extraneous characters were found after the indicated string at the indicated line in the indicated settings file.	Remove the extraneous characters from the indicated line.
3927.06	`3927.06: %s: line %d: expected a number after %s`	Found a non-numeric character as a value for the indicated keyword at the indicated line in the indicated settings file	Set the keyword to a numeric value.
3927.07	`3927.07:%s: line %d: ignoring everything after '%s'`	Extraneous characters were found after the indicated string at the indicated line in the indicated settings file.	Remove the extraneous characters from the indicated line.

Number	Diagnostic Text	Meaning	Action
3927.08	3927.08:%s:line %d: expected something after %s	A value is expected after the indicated keyword at the indicated line in the indicated settings file. None was found.	See the man page for the indicated settings file and enter appropriate data for the keyword.
3927.09	3927.09:%s: line %d: ignoring everything after '%s'	Extraneous characters where found after the indicated string at the indicated line in the indicated settings file.	Remove the extraneous characters from the indicated line.
3927.10	3927.10:%s:line %d: expected something after %s	A value is expected after the indicated keyword at the indicated line in the indicated settings file. None was found.	See the man page for the indicated settings file and enter the appropriate data for the keyword.
3927.11	3927.11: unknown type %d	Internal error code when an unknown data type was encountered. The supported data types are string, boolean, list, and number.	Contact BeyondTrust technical support.
3940	keyword <keyword> must have a value with no more than <number> characters	The keyword has a string value that is too long.	Edit pb.settings and shorten the string value.
3941	no logservers specified in <settings file>		
3942	You must specify 'yes' or 'no' after '<word>' in your pb.settings file		
3943	keyword <name> must be one of <list of values>	A setting contained an unrecognized word. It must be one of the listed values.	
3944	keyword <name> list can contain only <list of values>	A setting contained an unrecognized word or words. All values must be in the list provided.	
3946	keyword <name> must have at least one setting	A setting was blank. It must have a value.	
3947	nonreserved port <name> (<current value>) must have a numeric value between <minimum> and <maximum>	A nonreserved port number was invalid. It must be in the listed range.	

Number	Diagnostic Text	Meaning	Action
3948	reserved port <name> (<current value>) must have a numeric value between <minimum> and <maximum>	A reserved port number was invalid. It must be in the listed range.	
3949	setting <name> (<current value>) must have a numeric value between <minimum value> and <maximum value>	The named setting must have a numeric value in the listed range.	
3950	setting <keyword>: <reason>	The named setting must contain a valid file path name. This is followed by a further description of why the name was unacceptable.	
3950. 01	setting <keyword>: <reason>	The named setting must contain a valid file path name. This is followed by a further description of why the name was not acceptable.	Correct the settings file.
3951	setting <keyword>: <reason>	The named setting must contain a valid directory name. This is followed by a further description of why the name was unacceptable.	
3952	<word> is not a valid keyword	The listed word is not a valid settings file keyword.	
3953	<server name> principal '<principal name>' is longer than ## characters	A Kerberos principal name exceeds the allowed length.	
3954	No key file specified in <settings file name>	No key file was specified in the listed settings file.	
3955	Could not establish keyfile	No key file could be established. This is followed by a system-specific diagnostic message.	
3956	No policy file specified in <settings file name>	A policy file was not specified in the listed settings file.	
3957	Could not establish policy file	A policy file could not be established. This is followed by a system-specific diagnostic message.	

Number	Diagnostic Text	Meaning	Action
3958	Bad regular expression '<expression>'	A poorly formed regular expression was found in a setting.	Correct the regular expression.
3959	Could not verify pattern '<pattern>' in client subject '<expression>'	The specified pattern was not found in the client subject expression.	Verify the regular expression and subject line. A mismatch indicates an improper expression in the settings file or an incorrect certificate on the client.
3960	Could not find certificate subject attribute	Certificate subject verification was enabled, but no certificate subject line was found.	Verify the regular expression and the certificate.
3961	Bad regular expression '%s'	A poorly formed regular expression was found in a setting.	Verify the regular expression and subject line. A mismatch indicates an improper expression in the settings file or an incorrect certificate on the client.
3962	Could not verify pattern '%s' in server subject '%s'	The specified pattern was not found in the server subject expression.	Verify the regular expression and subject line. A mismatch indicates an improper expression in the settings file or an incorrect certificate on the client.
3963	No policy directory specified in <settings file>	The policy directory was not specified in the settings file.	Edit the settings file to provide a policy directory.
3964	file <policy file name> does not exist	The named policy file does not exist.	Create the missing settings file, correct the policy which includes the named policy file, or adjust the policydir setting in the settings file to point to the file's directory.

Number	Diagnostic Text	Meaning	Action
3965. 01	`Format error in entry <entry value> for setting <settings name>`	The listed value in the named setting does not match the expected format.	Correct the value in the settings file.
3965. 02	`Format error in entry <entry value> for setting <settings name>`	The listed value in the named setting does not match the expected format.	Correct the value in the settings file.
3966	`Numeric port for <host name> in setting <settings name> must be between <minimum value> and <maximum value>`	The numeric port for the host name in the named setting is outside of the expected range.	Correct the value in the settings file.
3967	`Daemon port <setting name> (<setting value>) must have a numeric value between <minimum value> and <maximum value> or an absolute path`	The value for the named setting is invalid.	Correct the value in the settings file.
3968	`Error in settings file <settings file name>`	One or more settings are in error. This is usually preceded by diagnostic messages that detail the problem.	Correct the settings.
3969	`Error in communications settings`	One or more communications settings are in error. This will usually be preceded by diagnostic messages that detail the problem.	Correct the settings.
3970	`Invalid path for <log type> log file <path>`	The path for the named log file is invalid.	Correct the log file path.
3971	`Policy Server info packet does not contain submit host ip.`	Critical data was missing from the Policy Server's information packet.	Check the log files for pbmasterd.
3972	`Submit host ip <ip address> not valid for local host name <host name>`	The listed ip address is not valid for the local host.	This usually indicates a problem with name services on the run host.
3973	`Can not find primary group for user <user name>`	The primary group for the listed user does not exist on the run host.	Use a different user name or add the user to the run host.
3974	`Could not resolve primary group name.`	The primary group could not be found for the run user.	Correct the primary group for the runuser or use a different user name.

Number	Diagnostic Text	Meaning	Action
3975	`Could not chroot to <directory>`	The run host could not use the directory specified in a chroot command. This is followed by an operating-system diagnostic message.	Correct the situation described in the operating-system diagnostic message or use a different directory.
3976	`Could not establish start up directory`	The startup directory could not be determined. This is followed by an operating system diagnostic message.	Correct the situation described in the operating-system diagnostic message or try starting the command from a different directory.
3977. 01	`Duplicate setting <setting name> at line ### in settings file <settings file name>`	More than one occurrence of the named settings was found. The duplicate was found at the listed line number in the named settings file.	Correct the settings file.
3977. 02	`Duplicate setting <setting name> at line ### in settings file <settings file name>`	More than one occurrence of the named settings was found. The duplicate was found at the listed line number in the named settings file.	Correct the settings file.
3978. 01	`Could not store setting <setting name> from settings file <settings file name>`	This is an internal error.	Contact BeyondTrust technical support.
3978. 02	`Could not store setting <setting name> from settings file <settings file name>`	This is an internal error.	Contact BeyondTrust technical support.
3979	`Using internal default <keyword>`	The program did not find a valid setting for a required keyword. The program is using its own internal default.	Check the listed setting.
3980. 01	`No local socket directory specified for Unix Domain Socket backBind# on <host type> <host name>`	A Unix/Linux Domain Socket reconnection was requested, but there is no temporary sock directory (localsocketdir) setting on the named host.	Enter a localsocketdir setting in the settings file on the named host.

Number	Diagnostic Text	Meaning	Action
3980. 02	No local socket directory specified for Unix Domain Socket backConnect# on <host type> <host name>	A Unix/Linux Domain Socket reconnection was requested, but there is no temporary sock directory (localsocketdir) setting on the named host.	Enter a localsocketdir setting in the settings file on the named host.
3981. xx	Unexpected EOF	An unexpected EOF occurred while synchronizing IO log files.	
3982. xx	File Error	An unexpected file error occurred, see message following the error.	
3984	Unknown command	An unknown command was detected while reading an iolog.	Check io log file is compatible with 6.0.
3985	Failed to open input file for synchronization process	The file that the software was attempting to read was not accessible to the program.	Check file access.
3986	synchronize process failed: input i/o log file missing header section	The file does not appear to be an i/o log.	
3987	Unable to open user defined HTML file listed in the configuration file	Program cannot open the user defined task manager look and feel defined in the .pbguidrc file.	Make sure the file path and access is correct.
5001	Connection closed unexpectedly	Generic error indicating that a failure occurred while communicating	1. Make sure the pb.settings path to the log files is correct. An invalid path can cause a security failure to shutdown pbmasterd. 2. Determine the problem from other error messages or log files.
5001. 01	Connection closed unexpectedly while trying to send prompt '<prompt>' to fd #	A connection closed while pbmasterd tried to send a prompt.	
5001. 08	Connection closed unexpectedly while trying to send a check ACK	A connection closed while pbmasterd tried to authorize a local mode command.	

Number	Diagnostic Text	Meaning	Action
5001. 09	Connection closed unexpectedly while sending end status	A connection closed while trying to send exit status from pblocald to pbmasterd/pblogd.	
5001. 10	Connection closed unexpectedly while sending info table elements	An error occurred while trying to send an info table.	1. Make sure the pb.settings path to the log files is correct. An invalid path can cause a security failure to shutdown pbmasterd. 2. Determine the problem from other error messages or log files.
5001. 13	Connection closed unexpectedly during NAK	A connection closed while pbmasterd tried to reject a command.	
5001. 14	Connection closed unexpectedly while trying to send a swaptty command	A connection closed while pbmasterd tried to send a tty swap command.	
5001. 15	Connection closed unexpectedly during local NAK	A connection closed while pbmasterd tried to reject a local mode command.	
5001. 16	Connection closed unexpectedly while trying to send exit status	A connection closed while pbmasterd tried to send exit status.	
5001. 17	Connection closed unexpectedly while trying to send reconnect command	A connection closed while pbmasterd tried to send a reconnect command.	
5001. 18	Connection closed unexpectedly while writing localPrompt, '<string>' to fd ##	A connection closed while pblocald tried to write a prompt string.	
5001. 19	Connection closed unexpectedly while trying to send prompt '<prompt>' to fd #	A connection closed while pbmasterd tried to send a prompt.	This is followed by an operating system diagnostic with more detail.
5002	atomic read from <host>	A read failure occurred. This is followed by a system-specific diagnostic message.	Contact BeyondTrust technical support.
5003	read	Internal error	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5004	`atomic write to <host>`	A problem occurred while attempting to perform an atomic write. This is followed by a system-specific diagnostic message.	
5004. 02	`atomic write error sending prompt '<prompt>' to channel ## [##]`	A problem was encountered writing the specified prompt string to the listed fd in pbmasterd.	
5004. 07	`sendInfoElements write failure writing ## bytes to fd ##`	pbrun is connecting to the pbmasterd machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is unable to start pbmasterd. This is followed by a system-specific diagnostic message.	Check if the path in inetd.conf is correct and make sure that the executable is OK.
5004. 13	`atomic write size in backBind#Redirect`	pbmasterd is connecting to the pblocald machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is not able to start pblocald. This is followed by a system-specific diagnostic message.	Check if the path in inetd.conf is correct and make sure that the executable is OK.
5004. 14	`atomic write hostname in backBind#Redirect`	pbmasterd is connecting to the pblocald machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is unable to start pblocald. This is followed by a system-specific diagnostic message.	Check if the path in inetd.conf is correct and make sure that the executable is OK.
5004. 15	`atomic write ports in backBind#Redirect`	pbmasterd is connecting to the pblocald machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is unable to start pblocald. This is followed by a system-specific diagnostic message.	Check if the path in inetd.conf is correct and make sure that the executable is OK.

Number	Diagnostic Text	Meaning	Action
5004. 17	`Problem writing localPrompt, '<prompt>' to fd #`	A problem was encountered writing the specified prompt string to the listed fd in pblocald.	
5004. 18	`atomic write error sending prompt '<prompt>' to channel ## [##]`	A problem was encountered writing the specified prompt string to the listed fd in pbmasterd.	An operating system diagnostic with more detail follows this.
5005	`write`		Contact BeyondTrust technical support.
5006	`Multiplexed local prompt error`	pblocald failed to write a prompt to pbrun when doing a runconfirmuser.	
5007	`multiplexed masterPrompt error sending prompt '<prompt>' to fd #`	pbmasterd experienced a write error when attempting to issue a prompt through masterPrompt. This is followed by a more detailed operating system diagnostic.	
5007. 01	`multiplexed masterPrompt error sending prompt '<prompt>' to fd #`	pbmasterd experienced a write error when attempting to issue a prompt through masterPrompt.	An operating system diagnostic with more detail follows this.
5008	`listen timed out from backBind# i= ##`	A listening socket timed out while trying to back bind a connection. This is followed by a system-specific diagnostic message.	
5009	`Policy Server port checksum mismatch from <machine>. Expected 1234 got ##/##`	An expected checksum did not match during a backConnect.	
5010	`info packed (###) too large to transmit (max ####)`	The inter-process info packet exceeded 64K.	Reduce the size of the program environment by removing unneeded environment variables or unsetting unneeded policy variables.
5101	`Communication error <from host>-><to host>`		Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5102	`setuser setgroups error: number of groups=##, uid=##, euid=##, gid=##, egid=##`	A setgroups call failed during a setuser sequence. This is followed by a system-specific diagnostic message.	
5102	`Invalid communication startup <from host>-><to host>`		
5102.02	`Invalid communications startup <from host> -> <to host>`	This could be a /etc/pb.key mismatch between machines.	
5102.04	`Keyword <name> must have exactly one setting`	A setting had more than one value listed. It may only contain a single value.	
5103	`Expected CMD_CHARS`		Contact BeyondTrust technical support.
5104	`Expected CMD_WINCH`	A handshake error occurred between two PowerBroker modules. While one program waited for a window size packet, the other did not send it.	Contact BeyondTrust technical support.
5105	`failed to get ACK packet`	A handshake error occurred between two PowerBroker modules. While one program waited for an acknowledgement, the other did not send it.	Check the error log of the remote program.
5106	`Ignored 0xff## command.`		Contact BeyondTrust technical support.
5107	`port checksum mismatch from <host>. Expected ### got ###`		Contact BeyondTrust technical support.
5108	`Invalid start record`		Contact BeyondTrust technical support.
5109	`Invalid Checksum`		Contact BeyondTrust technical support.
5110	`Abnormal termination (## ##)`		Contact BeyondTrust technical support.
5111	`Error reading log`	This may occur when reading a very old log file if a backwards fseek fails while trying to read the start record.	

Number	Diagnostic Text	Meaning	Action
5112	Protocol error, received <command> (<command number>)	The log server received an unknown command.	Check the configuration of the Policy Server and the log server machines.
5113	Protocol error waiting for reconnect/noreconnect - received <command name> (<command number>)		
5114	I/O log open failure.	Failed to write an OPEN_IO_ LOG command to the log server	
5115	ioLogMktemp send error	A send command failed during an ioLogMktemp.	
5116	ioLogMktemp fetch result error	Could not retrieve the result of an ioLogMktemp	
5117	ioLogMktemp read header error	Could not retrieve the result of an ioLogMktemp	
5118	ignoring unknown command <command name> (<number>)	The log server received an invalid command.	
5119	non-command input not allowed	The log server received regular data. The log server is only meant to process command data.	
5120	header problem in readMuxHeader fd <file descriptor>. Expected <number> bytes, got <number>.	readMuxHeader received an invalid header.	
5121	readMuxHeader invalid data channel <file descriptor>	Invalid or improperly encrypted data was received during a read. This is often an error message from a child that improperly found its way into the data stream.	1. Check the log files on the pbmasterd/pblocald/pb logd machines. 2. Try disabling encryption temporarily to see if the error message makes it through. 3. This is believed to only happen in 2.8.0. Try upgrading.

Number	Diagnostic Text	Meaning	Action
5122	data problem in readMuxData fd <file descriptor>. Expected <number> bytes		
5123	Protocol error	Something other than an ACK was received during a recvAck().	
5124	received invalid command prefix <number>	An invalid command prefix was received during a command fetch.	
5125	Did not receive CMD_WINCH	Communications protocol failure. A system-specific diagnostic follows this message.	
5126	Command channel closed while waiting for CMD_WINCH	Communications protocol failure	
5127	Command channel closed while waiting for CMD_CHARS	Communications protocol failure	
5128	Did not receive CMD_CHARS	Communications protocol failure. A system-specific diagnostic follows this message.	
5129	Command channel closed during reconnect	pbrun's command channel closed during a reconnect.	
5130	Unknown command during reconnect ## <identifier>	pbrun received an improper command during a reconnect.	
5131	Invalid data stream (##) while reading multiplexed command	Unexpected data was found while trying to read a command.	Check the diagnostic logs for the affected program and the programs to which it is connected.
5132	Invalid internal command <command name> (##)	pbguid received a command it does not expect to handle.	This is an internal error. Contact BeyondTrust technical support.
5133	Command packet size (actual size) exceeds maximum size (maximum size)	A command packet exceeds the maximum size allowed.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5134	`Could not find info packet body`	An information packet was missing or corrupt.	Check the source of the data to see if it was valid. E.g., if this is from pblog, check that the input file is a valid eventlog.
5135	`Could not form info table`	An information packet was missing or corrupt.	Check the source of the data to see if it was valid. E.g., if this is from pblog, check that the input file is a valid eventlog.
5136	`writeIOLog prior stdin is still pending.`	A buffer contains stdin that should have already been written to the IO log.	Contact BeyondTrust Technical Support.
5137	`writeIOLog stdin buffer is full.`	IO Logging comparison buffer for stdin is full. The current stdin data will not be added to the buffer and will not be written to the IO log.	Contact BeyondTrust Technical Support.
5401	`accept`		Contact BeyondTrust technical support.
5401.05	`Accept failed on socket #`	pbguid failed to accept an incoming connection.	Contact BeyondTrust technical support.
5402	`connect`	This is an error from Unix/Linux during an attempted back connection from pbmasterd to pbrun or from pblocald to pbmasterd/pblocald.	Contact BeyondTrust technical support.
5403	`bind`		Contact BeyondTrust technical support.
5403.08	`bind`	pbguid failed to bind a socket.	Contact BeyondTrust technical support.
5403.09	`bind`	pbguid failed to bind a socket.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5404	`getgroups`	A return indicating "invalid number" means that the number of supplemental groups specified for the user exceeds the number allowed by the host operating system.	Contact BeyondTrust technical support.
5405	`gethostname`		Contact BeyondTrust technical support.
5405.04	`gethostname`	pbguid failed to determine systems hostname.	Contact BeyondTrust technical support.
5405.06	`Could not determine host name`	pbguid failed to determine systems hostname.	Contact BeyondTrust technical support.
5405.07	`gethostname`	pbguid failed to determine systems hostname.	Contact BeyondTrust technical support.
5406	`listen`		Contact BeyondTrust technical support.
5406.05	`listen`	pbguid failed to listen for incoming connections.	Contact BeyondTrust technical support.
5407	`pipe`		Contact BeyondTrust technical support.
5408.##	`select`	The program encountered an error in a select system call. This is followed by an operating system diagnostic that details the problem.	Contact BeyondTrust technical support.
5409	`socket`		Contact BeyondTrust technical support.
5409.01	`Error updating adding utmp record`	Could not add a new record to the utmp or utmpx database. This is a fatal error message.	
5409.02	`Error updating wtmp files`	Could not add a record to the wtmp or wtmpx database. This is not a fatal error.	
5409.05	`socket`	pbguid failed to acquire a socket for binding.	Contact BeyondTrust technical support.
5410	`sysinfo(SI_HW_SERIAL)`		Contact BeyondTrust technical support.
5411	`tcgetattr`		Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5412	`tcsetattr`		Contact BeyondTrust technical support.
5418	`Timeout on fd: <number>`	Select timed out waiting for fd to become writable.	Contact BeyondTrust technical support
5418.01	`SSL_connect timeout on fd:<number>`	Select timed out waiting for fd to become writable.	Contact BeyondTrust technical support
5418.02	`SSL_write timeout on fd:<number>`	Select timed out waiting for fd to become writable.	Contact BeyondTrust technical support
5418.03	`SSL_read timeout on fd:<number>`	Select timed out waiting for fd to become writable.	Contact BeyondTrust technical support
5419	`TIOCSWINSZ`		Contact BeyondTrust technical support.
5420	`getrlimit`		Contact BeyondTrust technical support.
5422	`AIX select timeout`		Contact BeyondTrust technical support.
5424	`ptysystem_io_loop`	A read error occurred during a ptysystem call from the policy language.	
5425	`ptyfork failed in ptysystem. <error string>`	An error occurred while trying to create a subprocess from the policy language - most likely a call to system().	
5426	`I/O log open header failure`	A readMuxHeader failed while trying to open an I/O log. This usually means the log server daemon failed after it started.	Check pblogd.log to see if an error was logged there.
5427	`I/O log entry write.`	A write called while making an I/O log entry.	Check the error logs and why a connection may have failed.
5428	`I/O log write.`	A write failed while making an I/O log header entry.	
5429	`I/O log write.`	A write error occurred while writing I/O log data.	

Number	Diagnostic Text	Meaning	Action
5430	header problem in readMuxHeader fd <file descriptor>. Expected <number> bytes	readMuxHeader received an error during a read.	This is usually a secondary error caused by a prior communications problem. Check the prior problem number.
5431	readMuxData <number>	An undiagnosed readMuxData error occurred. The number may indicate a system error number.	
5432	Error sending command <command number>. Expected length <number>		
5433	Event log write failure	Write failed during an event log record	
5434	atomic read	Read failure during fetchCommandBuffer	
5435	getSocketHostname on fd ## getsockname	The system could not determine the local hostname for a socket. This is followed by the system-specific reason.	
5435. 01	getSocketHostname <function name> on fd ## – <operating system message>	The program could not find the name of a host on a connection. If the function name is gethostname, the problem was finding the local host name. If the function name is getpeername, the problem was finding the remote host's name. This is followed by an operating-system specific diagnostic.	Check if name services (e.g. DNS, NIS, nsswitch.conf) are configured properly.

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Number	Diagnostic Text	Meaning	Action
5435.02	`getSocketAddress <function name> on fd ## – <operating system message>`	The program could not find the address of a host on a connection. If the function name is gethostname, the problem was finding the local host address. If the function name is getpeername, the problem was finding the remote host's address. This is followed by an operating system specific diagnostic.	This usually indicates a connection failure. Check the diagnostic logs for both hosts in the connection.
5436	`getSocketHostname on fd ## getpeername`	The system could not determine the remote hostname for a socket. This is followed by the system-specific reason.	
5437	`fd: <number> is open and not writable, cmd: <number>`	Unable to send a control message because the fd is not writable	Contact BeyondTrust Technical Support
5438	`backBind## could not unblock socket`	A socket could not be set to non-blocking status. This is followed by a system-specific diagnostic message.	
5439	`backBind## could not reblock socket`	A socket could not be set to blocking status. This is followed by a system-specific diagnostic message.	
5440	`backConnect# could not unblock socket:`	A socket could not be set to non-blocking status. This is followed by a system-specific diagnostic message.	
5441	`backConnect# timed out from i = ###`	A time out occurred waiting for a connection. This is followed by a system-specific diagnostic message.	
5442	`backConnect# could not reblock socket`	A socket could not be set to non-blocking status. This is followed by a system-specific diagnostic message.	

Number	Diagnostic Text	Meaning	Action
5443	write error in sendRawIOLogBody log:	A write error occurred while sending a log packet to the log server. This is followed by a system-specific diagnostic message.	
5444	Could not get full client host name '<short host name>'	The full host name could not be found.	
5445	Could not get full run host name '<short run host name>'	The full run host name could not be found.	
5446	Error in setsockopt() from connectMaster	An error occurred while trying to set socket options. This is followed by a system-specific diagnostic message.	
5447	connectClient getpeername	The submit host could not be verified. This is followed by system-specific diagnostic message.	
5448	Could not get local host interface name:	pbrun could not determine the name for its network interface. This is followed by a system-specific diagnostic message.	
5449	Could not get full local host name	pbrun could not determine the full host name for a specific interface. This is followed by a system-specific diagnostic message.	
5450	Setup failure in server child	A daemon could not perform setup actions for standalone server mode. This is followed by a system-specific diagnostic message.	
5451	Could not find service port for <service name>	The default port for the listed service name could not be determined.	
5452	Could not obtain server socket for <service> port ##:	A socket could not be created for the listed service and port. This is followed by a system-specific diagnostic message.	

Number	Diagnostic Text	Meaning	Action
5453	`Could not set server socket options for <service> port ##:`	The options for a socket could not be set for the listed service and port. This is followed by a system-specific diagnostic message.	
5454	`Could not bind server socket for <service> port ##:`	A socket could not be bound for the listed service and port. This is followed by a system-specific diagnostic message.	
5455	`Server process <pid number> accept error for <service> port ##`	A standalone server daemon could not accept an incoming connection. This is followed by a system-specific diagnostic message.	
5456	`Could not access utmpuser '<username>'`	The run host could not identify the requested user name to use in utmp.	
5457	`Could not reacquire root - setreuid`	pbrun could not reacquire root privileges. This is followed by a system-specific diagnostic message.	
5458	`Could not relinquish root - setreuid(<effective uid>, <real uid>)`	pbrun could not relinquish root privileges. This is followed by a system-specific diagnostic message.	
5459	`Could not read settings file '<settings file name>'`	The listed settings file could not be read. This is followed by a system-specific diagnostic message.	
5460	`Short read on settings file '<settings file name>'`	Could not read the expected number of bytes from the listed settings file.	
5461	`Could not resolve local host name`	pblocald could not determine its host name. This is followed by a system-specific diagnostic message.	
5462	`Could not get Policy Server name`	pbmasterd could not determine its host name. This is followed by a system-specific diagnostic message.	

Number	Diagnostic Text	Meaning	Action
5463	Error setting up -n mode	pbrun could not set up -n mode. This is a failure to open /dev/null or to duplicate a temporary file descriptor. This is followed by a system-specific diagnostic message.	
5464.01	setuser failed:	The setuser () function failed. This followed by a system-specific diagnostic message.	Check the pbmasterd log files/syslog to see what caused the problem.
5464.02	setuser failed:	The setuser () function failed. This is followed by a system-specific diagnostic message.	Check the pblocald, pbrun and syslog files to see what caused the problem.
5464.03	setuser failed:	Failed to set user and group permissions	pbguid's set user function failed to properly set the group.
5465	setuser could not setgid to ##	A setgid call failed during a setuser sequence. This is followed by a system-specific diagnostic message.	
5466	setuser could not setuid to ##	A setuid call failed during a setuser sequence. This is followed by a system-specific diagnostic message.	
5467	Could not determine auditing status	An attempt to determine Solaris 8 auditing status failed. This is followed by a system-specific diagnostic message.	
5468	Could not obtain auditmask for <user>	An attempt to load a Solaris 8 auditing mask for the listed user failed. This is followed by a system-specific diagnostic message.	
5469	Could not set auditing ##	An attempt to establish Solaris 8 auditing failed. This is followed by a system-specific diagnostic message.	
5470	Could not get pbguid host name	pbguid could not determine its host name. This is followed by a system-specific diagnostic message.	

Number	Diagnostic Text	Meaning	Action
5471	Could not get Policy Server name	pbmasterd could not determine its host name. This is followed by a system-specific diagnostic message.	
5472	Can not get host name	pbguid could not obtain the local host name.	
5473	Could not set resource limit <name> to <value>	The named resource limit could not be set to the listed value.	Check that the value is valid for the resource.
5474	Getaddrinfo failed for host <host name> - <operating system message>	A call to find the address information for the listed host failed. The operating-specific diagnostic contains more detail.	
5475. 01	openSyncPipe failed - <operating system message>	An attempt to open a synchronization pipe between two processes failed. The operating system specific diagnostic contains more information.	
5475. 02	openSocketpair for "<command>" failed - <operating system message>	An attempt to open a synchronization socket between two processes failed. The operating system specific diagnostic contains more information.	
5476	Could not obtain primary local host name.	The local host name could not be found. This is often preceded by another diagnostic that details the problem.	
547 6.##	dup2 failed on control socket - <operating system message>	An attempt to move a control socket failed. The operating system specific diagnostic contains more information.	
5477	Could not resolve address/port for <extended port> - <operating system message>	The address/port combination in the extended port could not be resolved.	Correct the extended port or correct your name services.
5478	Could not find <network family> hostname for fd ##	The program could not find the host name for a network connection.	Check name services.

Number	Diagnostic Text	Meaning	Action
5479	`Could not resolve <network family> local host name.`	The program could not determine the host name for the local machine in the listed network family.	Check name services.
5480	`Could not resolve primary local host name`	The program could not determine the primary local host name.	Check name services.
5481	`Could not get submit host name`	The program could not determine the submit host's name.	Check name services.
5481.01	`openSyncPipe failed - <operating system message>`	An attempt to open a synchronization pipe between two processes failed. The operating-system specific diagnostic contains more information.	
5482.02	`openSocketpair for "<command>" failed - <operating system message>`	An attempt to open a synchronization socket between two processes failed. The operating-system specific diagnostic contains more information.	
5483	`Could not remove named port <port name>`	The program could not remove the Unix/Linux Domain Socket with the listed name. This is followed by an operating system message that details the error.	
5484	`Could not change directory to <directory name> - <operating system message>`	The program could not change to the named directory. This is followed an operating system message detailing the problem.	
5485	`Could not set block status for fd #`	This is an internal error.	Contact BeyondTrust technical support.
5485.01	`Write error`	A write failed. This is followed by an operating-system diagnostic that details the problem.	Correct the situation described in the operating-system diagnostic.
5485.02	`Write error`	A write failed. This is followed by an operating system diagnostic that details the problem.	Correct the situation described in the operating-system diagnostic.

Number	Diagnostic Text	Meaning	Action
5486	Could not clear block status for fd #	This is an internal error.	Contact BeyondTrust technical support.
5487	Could not retrieve start time	The starting time of the request could not be determined. This is followed by an operating system diagnostic message.	Correct the situation described in the operating-system diagnostic message.
5488	Error opening environment file: <filename> <system error string>	PowerBroker was unable to open the specified file due to the reason indicated	Resolve the indicated system error.
5489	fatal error on environment file: <filename> <system error message>	fstat() failed due to the reason indicated	Resolve the system error.
5490	environment file is a directory: <filename>	The file must be a regular file.	Specify a proper environment file.
5491	environment file is not a regular file or symlink: <filename>	The environment file must be a regular file or a symlink to a regular file.	Specify a proper environment file.
5492	environment file is too large: <filename>		Create a smaller environment file.
5501	Expected eventlog to be a string		Change the configuration file to a string.
550 2.##	status undefined or not a number.		Contact BeyondTrust technical support.
5504	unknown arch: don't know how to get hostid!		Contact BeyondTrust technical support.
5505	unknown info. type ##		Contact BeyondTrust technical support.
5507	writeInfoRecord: unknown type ## -- shouldn't happen!		Contact BeyondTrust technical support.
5508	sendInfoPacket: unknown type ## -- shouldn't happen!		Contact BeyondTrust technical support.
5509	hostname size invalid ### (<host>)		Contact BeyondTrust technical support.
5510	Expected list variable for <name>		Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5511	Expected string variable for <name>		Contact BeyondTrust technical support.
5512	Expected integer variable for <name>		Contact BeyondTrust technical support.
5513	runenv should be a list		Contact BeyondTrust technical support.
5514	runenv is undefined		Contact BeyondTrust technical support.
5515	String variable <name> is undefined		Contact BeyondTrust technical support.
5516	List variable <name> is undefined		Contact BeyondTrust technical support.
5517	Integer variable <name> is undefined		Contact BeyondTrust technical support.
5518	runargv is undefined		Contact BeyondTrust technical support.
5519	Expected lognopassword to be a number	lognopassword is a string or a list.	Contact BeyondTrust technical support.
5520	Protocol string overflow	The startup protocol string between pbrun/pbmasterd or pbmasterd/pblocald is too long.	
5521	lastYylval stack underflow	An internal parser error occurred.	Contact BeyondTrust technical support.
5522	Invalid channel type in pbAtomicRead - <type>	This is an internal error.	Contact BeyondTrust technical support.
5523	Invalid channel type in pbAtomicWrite - <type>	This is an internal error.	Contact BeyondTrust technical support.
5524	getSettingsDefaultString not implemented for type <type>	This is an internal error.	Contact BeyondTrust technical support.
5525	Type mismatch wanted <desired type> for <setting name>, got <actual type>	This is an internal error.	Contact BeyondTrust technical support.
5526	Could not find settings keyword <settings name>	This is an internal error.	Contact BeyondTrust technical support.
5527	Internal error - invalid mode setting <value>	This is an internal error.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
5528	`Disabling localmode for SELinux runhost <hostname>`	The PowerBroker policy had set runlocalmode=true; however the submithost is confined by SELinux, and pbrun does not support localmode when SELinux is used. After PowerBroker policy execution, pbmasterd reset runlocalmode to false.	None required.
5529	`Local mode (-l, --local_mode) cannot be specified with SELinux confined pbrun`	pbrun is confined by SELinux and cannot support local mode; however, the -l option (or --local_mode) was specified.	Change the pbrun command line so that -l and --local_mode are not used.
5597	`The file <file> is already encrypted - please select plain text version to encrypt`	The file chosen to encrypt is already encrypted.	Use the plain text version of the file to encrypt.
5598	`Failed to read file <FILE>, <REASON>`	Failed to read the file we are going to encrypt.	Check it has read permission and has bytes in it.
5599	`Failed to open file <file>, <reason>`	Failed to open the file that we are going to encrypt (system error is displayed after the filename).	Check file exists and is readable and is a regular file.
5600	`must be run as root`	pbencode needs to be run as root to have access to the /etc/pb.key and the /etc/pb.conf files (the defaults).	
5601	`<file name> does not exist`	The listed file does not exist.	Check the command line for misspellings.
5602	`<file name>is not a regular file`	The file used to read the key or the unencrypted text is not a regular file.	
5603	`ioLogMktemp returned file name too long`	The returned filename was longer than the template.	
5604	`block length(number) on fd <file descriptor> exceeds remaining buffer size (<number>)`		

Number	Diagnostic Text	Meaning	Action
5605	psPath() called without prior call to setPrefixAndSuffix()	Internal error	Contact BeyondTrust technical support.
5606	Could not send info packet to pbmasterd	pbguid could not transmit its environment information to pbmasterd.	
5607	Can not find terminal type	pbreplay could not determine its terminal type.	
5608	Unable to initialize terminal – <terminal type>	pbreplay could not initialize the listed terminal type.	
5609	UID stack overflow	An attempt was made to store too many UID states.	Contact BeyondTrust technical support.
5610	UID stack underflow	An attempt was made to restore the UID state when no state was stored.	Contact BeyondTrust technical support.
5611	waitpid error: <number> <error string> on running job: <pid>	The waitpid() system call failed.	Contact BeyondTrust technical support.
5612	waitpid error: <number> <error string> kill0: <errno><errstring>	The waitpid() system call failed. The kill(jobPID,0) status indicates whether the job is running or not.	Contact BeyondTrust technical support.
5613	Error <errno> opening settings file <filename>	The pb.settings file could not be opened due to the error indicated by errno.	Refer to errno to determine the underlying cause.
5614	Error <errno> opening lock file <filename>	The indicated lock file could not be opened due to the error indicated by errno.	Refer to errno to determine the underlying cause.
5615	termcap info for <terminal name> not found error:<error number>	The terminal type specified does not have a termcap entry.	Add an appropriate termcap entry on the server where pbreplay is used. Or replay the iolog on a different host that has an appropriate termcap entry.

Number	Diagnostic Text	Meaning	Action
5617	`pbPamSessionStart Solaris 9 projname specified but solarisprojects is not enabled`	The `pbrun` commandline, or the PowerBroker for Unix & Linux Policy specified a Solaris Project, however the Solaris 9 `runhost` does not have Solaris Projects enabled.	Enable Solaris Projects on the `runhost`. Or change the commandline or Policy so that a Solaris Project is not specified for that runhost.
5618	`allList1ElementsNotInTreeList2 ERROR 1`	An internal PowerBroker entitlement reporting error has occurred.	Contact BeyondTrust Technical Support.
5619	`ERROR 2 ID NOT FOUND: <variable name>`	An internal PowerBroker entitlement reporting error has occurred.	Contact BeyondTrust Technical Support.
5620	`allList1ElementsNotInTreeList2 ERROR 3:<lexical type>`	An internal PowerBroker entitlement reporting error has occurred.	Contact BeyondTrust Technical Support.
5621	`error updating aux license db. no nodename`	`pbrun` did not properly communicate the submithost's nodename to `pbmasterd`	Assure that the submithost is properly configured with a nodename.
5622	`error getting peer name`	`pbmasterd` could not get the peername from the socket connected to `pbrun`.	Ensure that networking is properly configured.
5623	`terminal size error for file:<io log filename>`	The screen size captured in the iolog was too large to be replayed with the amount of memory contained in the server where `pbreplay` was run.	Increase the memory on the host where `pbreplay` is run.
5624	`REGEX ERROR: <regular expression error description returned by regerror>`	The `pbreplay -O --regex <PATTERN>` command had an invalid regex PATTERN specified	Change the PATTERN to be a valid "extended POSIX" regex pattern.
5625	`regexec ERROR`	The regular expression engine "regexec" encountered an unknown error.	Contact BeyondTrust Technical Support
5626	`Bad match format <specified format>`	The `pbreplay` "print format expression", specified with the `-p` option, is invalid.	Change the "print format expression" to include a valid PowerBroker for Unix & Linux Policy expression.

Number	Diagnostic Text	Meaning	Action
5701	Did not find Kerberos function <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibkrb5dependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibkrb5dependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibkrb5dependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses Kerberos to determine which libraries are needed.
5702	Unable to load KRB5 library.	One or more of the shared libraries listed in the sharedlibkrb5dependencies keyword could not be loaded.	See the previous error message for the name of the shared library that could not be loaded.

Number	Diagnostic Text	Meaning	Action
5703	Unable to resolve KRB5 symbol <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibkrb5dependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibkrb5dependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibkrb5dependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses Kerberos to determine which libraries are needed.
5704	Unexpected number of arguments: <count>		Contact BeyondTrust Technical Support.
5705	Error loading library: <name>	The shared library indicated could not be loaded.	Make sure the file exists. Use the 'file' command to verify the file is a shared library for the appropriate architecture.

Number	Diagnostic Text	Meaning	Action
5706	Did not find LDAP function <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibldapdependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibldapdependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibldapdependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses LDAP to determine which libraries are needed.
5707	Unable to load LDAP library.	One or more of the shared libraries listed in the sharedlibldapdependencies keyword could not be loaded.	See the previous error message for the name of the shared library that could not be loaded.

Number	Diagnostic Text	Meaning	Action
5708	Unable to resolve LDAP symbol <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibldapdependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibldapdependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibldapdependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses LDAP to determine which libraries are needed.
5709	Error loading library: <name>	The shared library indicated could not be loaded.	Make sure the file exists. Use the 'file' command to verify the file is a shared library for the appropriate architecture.

Number	Diagnostic Text	Meaning	Action
5710	Did not find SSL function <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibssldependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibssldependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibssldependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses SSL to determine which libraries are needed.
5711	Unable to load SSL library.	One or more of the shared libraries listed in the sharedlibssldependencies keyword could not be loaded.	See the previous error message for the name of the shared library that could not be loaded.

Number	Diagnostic Text	Meaning	Action
5712	`Unable to resolve SSL symbol: <name>`	The function indicated is not located in the shared libraries currently loaded using the sharedlibssldependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibssldependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibssldependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses SSL to determine which libraries are needed.
5713	`Error loading library: <name>`	The shared library indicated could not be loaded.	Make sure the file exists. Use the file command to verify the file is a shared library for the appropriate architecture.
5714	`Sleep select failed <errno string>`	The select system call failed due to the reason specified in the <errno string>	Examine the <errno string>
5714	`Sleep select failed <errno string>`	The select system call failed due to the reason specified in the <errno string>	Examine the <errno string>
5715	`Unable to load PowerBroker Identity Services event log library.`	One or more of the shared libraries listed in the sharedlibpbisdependencies keyword could not be loaded.	See the previous error message for the name of the shared library that could not be loaded.

Number	Diagnostic Text	Meaning	Action
5716	Unable to resolve PowerBroker Identity Services event log symbol: <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibpbisdependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibpbisdependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibpbisdependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses PowerBroker Identity Services event log to determine which libraries are needed.

Number	Diagnostic Text	Meaning	Action
5717	Did not find PowerBroker Identity Services event log function <name>	The function indicated is not located in the shared libraries currently loaded using the sharedlibpbisdependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibpbisdependencies keyword. nm can be run against all known shared libraries to locate the function. ldd can be run against libraries already listed in the sharedlibpbisdependencies keyword, to determine if a dependent library needs to be listed as well. truss can be used with a working service that uses PowerBroker Identity Services event log to determine which libraries are needed.
5718	PowerBroker for Unix & Linux encountered a PowerBroker Identity Services error: <error message>	PowerBroker for Unix & Linux encountered a PowerBroker Identity Services interface error.	Contact BeyondTrust technical support.
5719	Location of CURL library is unknown.	The keyword sharedlibcurldependencies is missing or has no value.	Add the sharedlibcurldependencies keyword to the settings file and provide a valid path. You may also disable the PowerBroker for Unix & Linux features that require libcurl.

Number	Diagnostic Text	Meaning	Action
5720	`Did not find CURL function <name>`	The function indicated is not located in the shared libraries currently loaded using the sharedlibcurldependencies keyword.	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibcurldependencies keyword. Nm can be run against all known shared libraries to locate the function. Ldd can be run against libraries alrea.
5721	`Unable to load CURL library.`	One or more of the shared libraries listed in the sharedlibcurldependencies keyword could not be loaded.	See the previous error message for the name of the shared library that could not be loaded. Ensure it exists and is valid.
5722	`Unable to resolve CURL symbol: <symbol>`	The function indicated is not located in the shared libraries currently loaded using the sharedlibcurldependencies keyword	Use nm, ldd, or truss to determine which library contains the named function, then add that library to the sharedlibcurldependencies keyword. Nm can be run against all known shared libraries to locate the function. Ldd can be run against libraries alrea.
5723	`Error loading library: <name>`	The shared library specified by sharedlibcurldependencies keyword could not be loaded.	Make sure the file exists. Use the 'file' command to verify the file is a shared library for the appropriate architecture.

Number	Diagnostic Text	Meaning	Action
6001	`Error accessing policy database - <error msg>`	SQLITE Failed to open the policy database	Check the presence of the database. Check it is not corrupt (using pbdbutil). If it is corrupt, replace from backup.
6002	`Error opening database '<file>' - <error msg>`	SQLITE Failed to open the policy database	Check the presence of the database. Check it is not corrupt (using pbdbutil). If it is corrupt replace from backup.
6003	`Error reading records - <error msg>`	SQLITE Failed to read the specified records.	Action More detail is presented in the reason field.
6004	`Error retrieving encryption settings for '<file>' - invalid parameter`	Supplied encrytion arguments are incorrect.	Supply the correct encryption arguments.
6005	`Failed to commit transaction - <error msg>`	Failed to write the data to the database.	Check the database is not corrupt (using pbdbutil). If it is corrupt replace from backup.
6006	`Failed to create temporary file '<file>' - <error msg>`	Failed to create and/or write a temporary file.	Check available disk space in /tmp
6007	`Failed to delete tag - <error msg>`	Failed to update the database.	More detail is presented in the reason field. Check the arguments supplied.
6008	`Failed to encrypt - <error msg>`	Failed to update the database.	More detail is presented in the reason field. Check the arguments supplied.
6009	`Failed to export file - <error msg>`	Failed to export the file specified.	Check the output file is writable and that the filesystem isnt full.
6010	`Failed to import file '<file>' - <error msg>`	Failed to import the file specified.	Check the import file exists and is readable.
6011	`Failed to initialize libmangle - <error msg>`	Failed to initialize the encryption.	Check pb.settings and pb.key are correct.

Number	Diagnostic Text	Meaning	Action
6012	`Failed to lock database '<file>' - <error msg>`	Failed to lock the database for update.	This could be because another process/user has it temporarily locked. Check for other processes (lsof/pfiles).
6013	`Failed to log change event - <error msg>`	Failed to log the change management event.	Check pb.settings and availability of the REST service on each logserver. Also check the pb.settings on the logservers.
6014	`Failed to read file '<file>' - <error msg>`	Failed to read the file.	Check the file exists and is readable.
6015	`Failed to read records - <error msg>`	Failed to read specified files.	The error message will provide more details.
6016	`Failed to rekey policy database '<file>' - <error msg>`	Failed to re-encrypt the policy database.	Check the existing encryption settings and the available filesystem space.
6017	`Failed to rollback transaction - <error msg>`	Failed to rollback a database transaction.	Check the database is not corrupt (using pbdbutil). If it is corrupt replace from backup.
6018	`Failed to run command '<cmd>' - <error msg>`	Failed to run the specified command.	Check the command exists and is executable.
6019	`Failed to start transaction - <error msg>`	Failed to start a database transaction.	Check the database is not locked (pfiles/lsof). Check the database is not corrupt (using pbdbutil). If it is corrupt replace from backup.
6020	`Failed to tag file '<file>' - <error msg>`	Failed to tag specified file.	More detail is presented in the reason field. Check the arguments supplied.
6021	`Failed to tag file - <error msg>, reverting database`	Failed to write the tag record.	More detail is presented in the reason field. Check the arguments supplied.

Number	Diagnostic Text	Meaning	Action
6022	`Failed to update records - <error msg>`	Failed to update the records specified.	The error message will provide mode details. If required check the database is not locked (pfiles/lsof). Check the database is not corrupt (using pbdbutil). If it is corrupt replace from backup.
6023	`Failed to write file '<file>' - <error msg>, reverting database`	Failed to write to file.	Check filesystem space and check the file can be written.
6024	`file '<file>' exists - use 'force' to overwrite`	The file to be exported already exists.	Use -f to force the overwrite of the file.
6025	`Invalid argument - <error msg>`	Invalid argument supplied to the command line.	Refer to the man page/usage message on valid arguments.
6026	`Invalid transaction information - <error msg>`	Invalid policy database transaction information.	Either there is no current transaction open or is locked by another user.
6027	`Invalid transaction - <error msg>`	Invalid policy database transaction.	Either there is no current transaction open or is locked by another user.
8001	`Could not authenticate <principal> for <service>. Please check your ticket -- it may be expired`	Kerberos initialization problem	Check your Kerberos configuration.
8006	`Could not construct local service principal name for <client principal> @ <client host>`	Kerberos could not construct a principal for the listed service on the listed server.	Check the Kerberos settings in your PowerBroker settings file and the Kerberos configuration (typically in /etc/krb5.conf).
8007	`Could not determine service name from principal name for <client principal> @ <client host>`	Kerberos could not construct a principal for the listed service on the listed server.	Check the Kerberos settings in your PowerBroker settings file and the Kerberos configuration (typically in /etc/krb5.conf).

Number	Diagnostic Text	Meaning	Action
8008	Could not build a tgt principal for <client principal name> code <Kerberos code number>	Kerberos could not construct a tgt principal for the listed principal.	Check the Kerberos settings in your PowerBroker settings file and the Kerberos configuration (typically in /etc/krb5.conf).
8010	<code> while getting time of day	Getting time of day problem	Contact BeyondTrust technical support.
8011	<code> reading keytab entry <client name>	Problem reading keytab entry	Contact BeyondTrust technical support.
8012	<code> while getting initial credentials for <Policy Server>	Cannot get ticket from Kerberos	Contact BeyondTrust technical support.
8013.1	Could not send token length	A server has probably died while processing request	Contact BeyondTrust technical support.
8013.2	sending token length: ## of ## bytes written	A server probably died while processing request	Contact BeyondTrust technical support.
8014.1	Could not send token	A server probably died while processing request	Contact BeyondTrust technical support.
8014.2	sending token data: ## of ## bytes written	A server probably died while processing request	Contact BeyondTrust technical support.
8015.1	recv_token could not read token length	Internal Kerberos problem	Contact BeyondTrust technical support.
8015.2	recv_token length: ## of ## bytes read	Internal Kerberos problem	Contact BeyondTrust technical support.
8016	<service>: recv_token could not allocate memory for token data <length>	Internal Kerberos problem	Contact BeyondTrust technical support.
8017.1	recv_token could not read token data	Internal Kerberos problem	Contact BeyondTrust technical support.
8017.2	recv_token sending token data: ## of ## bytes written	Internal Kerberos problem	Contact BeyondTrust technical support.
8019	Error initializing kerberos library	We were unable to start the designated kerberos library	Check that the library defined in the settings file is correct
8020	<service name>: GSS-API error ###: <description>	The named Kerberos service has a problem with the GSS interface.	Check the KDC logs to ensure the user's principal is added. Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
8021	client failed to establish context to <service>/<host>	A GSS context could not be established to the listed server.	
8022	acquiring server credentials for <service>	A server could not establish the credentials of a client for the listed service.	
8023	establishing server context for <service>/<host>	A GSS context could not be established to the listed client.	
8024	initKerberosKey socket is not open	The Kerberos socket was not open when a connection was attempted.	
8025	Kerberos key initialization error connecting to log server <log host>	A Kerberos connect failure while contacting a log server. This diagnostic generally follows other diagnostics that lead up to it.	
8026	Kerberos key initialization error during initial startup	A Kerberos connect failure from pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8027	Kerberos principal initialization error during log server reconnect	A Kerberos connect failure while trying to reconnect the log server to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8028	Kerberos keytab error during log server reconnect	A Kerberos connect failure while trying to reconnect the log server to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8029	Kerberos key initialization error during log server reconnect	A Kerberos connect failure while trying to reconnect the log server to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	

Number	Diagnostic Text	Meaning	Action
8030	Kerberos key initialization error during reconnect	A Kerberos connect failure while trying to reconnect pblocald to pbrun. This diagnostic generally follows other diagnostics that lead up to it.	
8031	Kerberos key initialization error	A Kerberos connect failure from the log server. This diagnostic generally follows other diagnostics that lead up to it.	
8032	Kerberos key initialization error during log server reconnect	A Kerberos connect failure from the log server while trying to reconnect to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8033	Kerberos key initialization error	A Kerberos connect failure from the Policy Server while trying to connect to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8034	Kerberos key initialization error during reconnect	A Kerberos connect failure from pbrun while trying to reconnect to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8035	Kerberos key initialization error	A Kerberos connect failure from pbrun while trying to connect to a Policy Server. This diagnostic generally follows other diagnostics that lead up to it.	
8036	Kerberos key initialization error	A Kerberos connect failure from pbguid while trying to connect to a Policy Server. This diagnostic generally follows other diagnostics that lead up to it.	

Number	Diagnostic Text	Meaning	Action
8037	`Kerberos key initialization error`	A Kerberos connect failure from pbbench while trying to connect. This diagnostic generally follows other diagnostics that lead up to it.	
8038	`Can not initialize Kerberos settings`	pbguid could not initialize its Kerberos settings.	
8039	`code <Kerberos internal code> when parsing name %s`	The principal name could not be obtained.	Check the principal name in the settings and keytab files. Check that the principal exists.
8040	`code <Kerberos internal code> could not get credentials for <user name>`	No credentials were found for the user.	Check that the credentials for the user exist.
8041	`code <Kerberos internal code> initializing cache for update`	The credentials cache could not be initialized.	Check that the cache is on a writable file system.
8042	`code <Kerberos internal code> while storing credentials`	The credentials cache could not be updated.	Check that the cache is on a writable file system.
8043	`could not look up user <user id number>`	Could not find the expected user while trying to establish credentials	Check that the user id number is valid.
8044	`code <Kerberos internal code> while initializing Kerberos context`	The Kerberos security context could not be established.	Check that the principals are correct in the settings and keytab files.
8045	`could not find entry for user <user id number>`	Could not find the expected user while trying to get credentials	Check that the user id number is valid.
8046	`code <Kerberos internal code> could not parse name from principal`	Could not determine the principal name from the user credentials	Check the principal name in the settings and keytab files. Check that the principal exists.
8047	`could not find entry for user <user id number>`	Could not find the expected user while attempting to validate credentials	Check that the user id number is valid.
8048	`undiagnosed return opening and setting default cache – <Kerberos result code>`	An unexpected result was obtained while trying to open and set the default cache.	Contact BeyondTrust technical support.

Number	Diagnostic Text	Meaning	Action
8049	`invalid keytab '<keytab file name>'`	The expected keytab file is invalid or does not exist. This is followed by a system-specific reason.	Check that the keytab file exists and that the path name and permissions are correct.
8050	`keytab file keytab '<keytab file name>' is empty`	The specified keytab file exists, but has no content.	Determine why the keytab file is empty and populate it or use another keytab file.
8051	`code <Kerberos internal code> could not resolve keytab`	Could not resolve the contents of the keytab file	Determine why the keytab file is invalid and correct it or use another keytab file.
8052	`Could not retrieve user information.`	Could not find the user's identity	Make sure the user exists on the host machine.
8053	`No password supplied for Kerberos Authentication`	The user did not type a password for Kerberos authentication when requested.	Enter the correct password when requested.
8054	`Could not construct remote service principal name for <service name> @ <server host>`	Kerberos could not construct a principal for the listed service on the listed server.	Check the Kerberos settings in your PowerBroker settings file and the Kerberos configuration (typically in /etc/krb5.conf).
8055	`Could not determine remote service name from principal name for <service name> @ <server host>`	Kerberos could not determine the principal name for the listed service on the listed host.	Check the Kerberos settings in your PowerBroker settings file and the Kerberos configuration (typically in /etc/krb5.conf).
8056	`code <Kerberos internal code> while getting default cache`	Could not find the default cache	Check that the cache is on a writable file system.

Number	Diagnostic Text	Meaning	Action
8057	`PAM SESSION Error: <string>`	A problem (indicated by <string>) was encountered attempting to open a PAM session. Often times, <string> is meaningless (eg "PAM session start failure"). <string> is returned by the PAM framework and cannot be more specific.	Investigate reasons why PAM session might be failing. Sometimes, PAM debugging techniques must be employed. Other times, the PB logs or system logs on the runhost might indicate the problem (eg user is not a member of the specified Solaris Project).
8058	`project <Solaris project name> does not exist`	The requesting user (or the PowerBroker Policy) has specified a Solaris Project for which the task should run as. That project does not exist on the runhost.	Determine if the correct project has been specified. Add the project to the runhost if necessary.
8059	`user <username> not a member of project <projectname>`	The indicated runuser is not a member of the specified Solaris project.	Specify the correct runuser and project.
8060	`solaris projects error: <message>.`	The indicated message describes an error setting the Solaris project. The Solaris PAM subsystem may not provide enough information to readily determine the cause fo the problem.	Look at the runhost system logs and PowerBroker logs for an indication why the Solaris Project may not have been set correctly.
8061	`Error assigning Solaris Project`	The Solaris PAM subsystem may not provide enough information to readily determine the cause fo the problem.	Look at the runhost system logs and PowerBroker logs for an indication why the Solaris Project may not have been set correctly.
8062	`pam_setcred failed-<error number>: <error msg>`	The PAM framework failed to perform the pam_setcred() function. The <error msg> indicates the failure. This message may not provide enough details as to the real cause of the problem.	Examine the system logs on the runhost to determine the cause of the problem.

Number	Diagnostic Text	Meaning	Action
8063	`username required for Solaris project`	The username was not set when attempting to assign the task to a solaris project.	Contact Technical Support
8064	`Project set on Solaris 8`	Solaris 8 does not support Solaris projects, however, the request user, or the policy set a project name.	Do not specify a Solaris Project
8065	`Project set on unplanned platform`	The internal code to verify that a platform supports Solaris Projects needs to be updated with a new platform.	Contact Technical Support
8066	`Project <projectname> set on non-Solaris platform`	Only Solaris 9 and 10 (and presumably higher) platforms support Solaris Projects.	Ensure that the Solaris project is only specified for Solaris 9 and 10 (and higher) runhosts.
8067	`missing username`	The username was not set when attempting to assign the task to a solaris project.	Contact Technical Support
8068	`missing msgptr`	internal error	Contact Technical Support
8069	`Solaris Projects are not enabled`	Solaris Projects are not enabled	Enable Solaris projects using enablesolarisprojects keyword or using PAM (pam, pamsessionservice and pamsetcred keywords) in pb.settings. Or do not specify a Solaris Project
8070	`unknown solaris project error`	An unknown problem occurred when setting the Solaris Project	Contact Technical Support
8071	`No default project`	The getdefaultproj() library function failed to retun a default project for the runuser.	Examine system logs and Solaris Project configuration on the runhost for possible causes.
8072	`project <project name> resource control limit has been reached`	The Solaris Project has resource limits configured. A resource limit has been reached.	Wait until the resource is not near peak utilization.

Number	Diagnostic Text	Meaning	Action
			Or increase the resource limit.
8073	user <username> could not join project <project name>. errno:<number>	The setproject() library call encountered an error.	Investigate the system logs on the runhost. Investigate the errno value for <number>.
8074	errno:<number> binding to project <project name> resource pool	The setproject() library call encountered an error regarding the project's resource limits.	Investigate the system logs on the runhost. Investigate the errno value for <number>.
8075	unknown error:<number> errno:<number> binding to project <project name>.	The setproject() library call returned an error and errno.	Investigate the system logs on the runhost. Investigate the errno value for <number>.
8076	LOCAL MODE and project is set, however enablesolarisprojects keyword is not enabled.	LOCAL MODE and project is set; however, the enablesolarisprojects keyword is not enabled.	Enable the enablesolarisprojects keyword on the runhost. Or do not specify a project.
8077	Did not find PROJ function <name>	A Solaris Project function could not be found in the list of libraries specified by the sharedlibsolarisprojects keyword	Add the appropriate library to the sharedlibsolarisprojects keyword.
8100	Access Denied	The Application ID ACL's do no provide the permissions required for the current operation.	Use a different Application ID or add new ACL permissions.
8101	Bad constraint [<CONSRAINT>], <REASON>	The constraint supplied to the Event Log search are invalid.	Specify a valid constraint.
8102	Error parsing JSON near: <STRING>	The JSON data supplied to the REST API call is invalid.	Fix the JSON data supplied to the REST API call.
8103	Error parsing policy file <FILE>, <REASON>	The policy file is syntactically invalid.	Fix the syntax of the policy file.

Number	Diagnostic Text	Meaning	Action
8104	`Failed to allocate memory, <REASON>`	General - failed to allocate memory.	The REST API plugin should restart. If not, check general system health and restart the httpd.
8105	`Failed to compile regular expression '<STRING>', <REASON>`	The supplied regular expression is invalid.	Fix the syntax of the regular expression supplied.
8106	`Failed to create file <FILE>, <REASON>`	Cannot create the specified error.	Check the health of the filesystem and the specified file.
8107	`Failed to decode data, <REASON>`	Failed to Base64 decode the supplied data.	Fix the supplied file encoding.
8108	`Failed to encode file <FILE>, <REASON>`	Failed to Base64 encode the supplied data.	Fix the supplied file encoding.
8109	`Failed to initMangle`	Failed to initialize file encryption.	Contact BeyondTrust Technical Support
8110	`Failed to open file <FILE>, <REASON>`	Failed to open specified file.	Check the health of the filesystem, and the permissions of the file.
8111	`Failed to override lock, <REASON>`	Failed to override the specified lock.	Lockfiles should only exist for milliseconds - check for hung processes.
8112	`Failed to read file <FILE>, <REASON>`	Failed to read the specified file.	Check the health of the filesystem and the specified file.
8113	`Failed to rename file from <FILE> to <FILE>, <REASON>`	Failed to rename the specified file to the destination file.	Check the health of the filesystem and the specified files.
8114	`Failed to write file <FILE>, <REASON>`	Failed to write the specified file.	Check the health of the filesystem and the specified file.
8115	`File is too large <FILE>, <REASON>`	File specified is too large to transfer.	The file is too large to transfer using REST. Manually copy the file.
8116	`Invalid ACL`	The specified ACL is invalid.	Correct the REST call parameters on the URL.

Number	Diagnostic Text	Meaning	Action
8117	`Invalid application ID or Key, <REASON>`	The specified Application ID or Application Key is incorrect.	Correct the parameters on the REST call to comply with documentation.
8118	`Invalid attribute <NAME>, type <TYPE>`	The Event log has an invalid attribute type.	Check the event file with pblog.
8119	`Invalid Authentication`	Invalid authentication signature supplied.	Correct the HMAC authentication signature on the REST call.
8120	`Invalid event log file`	The specified event log is invalid.	Check the event file with pblog.
8121	`Invalid event log file entry`	The specified event log has an invalid entry.	Check the event file with pblog.
8122	`Invalid new key`	The specified pb.key data is invalid.	Correct the missing or invalid key data in the REST call.
8123	`Invalid parameter '<PARAMETER>'`	A specified parameter is missing or is invalid.	Correct the missing or invalid parameter in the REST call.
8124	`Invalid policy file <FILE>, <REASON>`	The specified policy file is invalid.	Check the policy file exists and correct the syntax of the file and check with pbcheck.
8125	`Permission denied – '<FILE|PATH>' is a system file`	The specified file is a system file and cannot be read or written.	Certain named files are system files and cannot be overwritten.
8126	`Timeout trying to create lockfile`	There was a timeout trying to lock the specified file for updates.	Lockfiles should only exist for milliseconds - check for hung processes.
8128	`Invalid REST request [<STRING>/<STRING/<STRING>]`	Invalid REST request submitted.	Fix the REST request in accordance with documentation.
8129	`Could not get pbrest host name`	pbrest could not determine its host name. This is followed by a system-specific diagnostic message.	Verify that /etc/hosts and host name resolution is setup correctly.

Number	Diagnostic Text	Meaning	Action
8130	`Failed to generate and store credential - <NUMBER>`	pbrest could not store the newly generated App ID/Key.	Verify the health of the /etc filesystem, and the permissions on /etc/pb.restkeys.
8131	`Failed to delete credential - <NUMBER>`	pbrest could not delete the named credential - either it doesn't exist or there was an error.	Verify the health of the /etc filesystem, and the permissions on /etc/pb.restkeys.
8132	`Failed to read settings file`	pbrest could not read /etc/pb.settings.	Verify the health of the /etc filesystem, and the health of /etc/pb.settings
8133	`Failed to allocate memory for <STRING> in <FUNCTION>, <REASON>`	pbrest could not allocate memory.	Verify the health of the host system, and the available virtual memory.
8134	`Failed to contact SOLR, <ERROR>`	Failed to contact SOLR from this REST service.	Check SOLR configuration and network connectivity.
8135	`SOLR search failed, <NUMBER>`	Failed to search for the given query in SOLR.	Lookup error message in SOLR document, and fix query if required
8140. 2	`Missing event log destination filename`	This is an internal error.	Contact BeyondTrust Software.
8140. 3	`Invalid destination directory: %s`	`logarchivedir` setting may be pointing to a protected system path that should not be overwritten.	Specify a different directory path, preferably on a filesystem that can handle all incoming archived logfiles.
8140. 4	`Failed to create log archive destination directory:%s errno:%d %s`	An error prevented the creation of the subdirectories under the path specified in the `logarchivedir` setting.	Resolve the problem described by the accompanying system-specific diagnostic message.
8140. 5	`Invalid destination directory %s, %d %s`	Failed to get the status of the path specified in the `logarchivedir` setting.	Resolve the problem described by the accompanying system-specific diagnostic message.

Number	Diagnostic Text	Meaning	Action
8140. 7	Log archive failed to move the logfile to the final destination directory (%d:%s)	Problem encountered in finalizing the archive logfile at the destination archive host.	Resolve the problem described by the accompanying system-specific diagnostic message.
8141. 1	Failed to remove target file %s (%d:%s)	When backing out the archiving of a log, PowerBroker for Unix & Linux was not able to delete the file at the destination archive host.	Resolve the problem described by the accompanying system-specific diagnostic message.
8123.1 30	Invalid setting '%s'	Log Archive Storage Server settings file is missing logarchivedir or it contains an invalid value.	Check the settings file on the Log Archive Storage Server.
8143	Destination file '%s' already exists.	The logfile to be archived is mapped to a destination directory that already contains the target filename.	Verify the pre-existing file at the destination. Or specify a different location for logarchivedir.
8144. 1	Missing log filename to process	This is an internal error.	Contact BeyondTrust Software.
8150. 1	Failed to update database with event logfile location [%s]	A SQL error occurred while trying to update the log tracking database.	See the accompanying error message for more details.
8150. 10	Unable to update the log tracking database. Undoing the archive.	Log archiving cannot be completed if the log tracking database cannot be updated.	
8150. 11	Unable to remove %s after successfully archived %d %s		See the accompanying system-specific diagnostic message.
8150. 13	Could not connect to Log Archiver Database Server [%d:%s]	Problem encountered when trying to contact the Log Archiver Database Server.	See the accompanying system-specific diagnostic message.
8150. 14	Could not access log tracking database [%s]	Problem encountered when trying to check status of the log tracking database.	See the accompanying system-specific diagnostic message.
8150. 15	Failed to read the log - %s		Check the encryption settings for the logfile on the Log Server host.

Number	Diagnostic Text	Meaning	Action
8150. 2	`Failed to remove logfile to undo archiving due to error: %s`	When backing out the archiving of a log, PowerBroker for Unix & Linux was not able to delete the file at the destination archive host.	
8150. 3	`Failed to archive logfile due to error: %s`	Log archiving failed.	See the accompanying system-specific diagnostic message.
8150. 4	`Could not record logfile location in the tracking database [%s]`	Failed to update the log tracking database.	See the accompanying system-specific diagnostic message.
8150. 5	`Failed to determine archive host's enforcehighsecurity setting [%s]`	Problem encountered getting the `enforcehighsecurity` setting on the Log Archive Storage Server.	See the accompanying system-specific diagnostic message.
8150. 6	`Failed to determine archive host's encryption info [%s]`	Problem encountered getting the logfile encryption setting on the Log Archive Storage Server.	See the accompanying system-specific diagnostic message.
8150. 7	`Failed to get archive host's keyfile [%s]`	Problem encountered getting the encryption key on the Log Archive Storage Server.	See the accompanying system-specific diagnostic message.
8150. 8	`Invalid log name %s : %s`	The logfile name provided to `pblogarchive` has invalid characters.	
8150. 9	`Could not access file %s (%d:%s)`	The logfile name provided to pblogarchive does not exist.	
8151. 1	`Settings file is missing required log archive host.\n`	`pblogarchive` requires `logarchivehost` setting in the settings file of the Log Server.	
8151. 2	`pblogarchive: -e, -E and -i, -I are mutually exclusive`	You cannot use the eventlog options (-e,-E) with the I/O log options (-i, -I) in the same `pblogarchive` command.	Archive only similar type logfiles per `pblogarchive` command.

Number	Diagnostic Text	Meaning	Action
8151.3	`No logfile to archive`	`pblogarchive` cannot find the eventlog to be archived.	You must explicitly provide an argument to "-e" option if the eventlog is defined in the policy and not in the settings file.
8151.4	`pblogarchive: Error occurred matching pattern '%s' (%d:%s)`	`pblogarchive` was unable to find matching files using the provided search pattern.	See the accompanying system-specific diagnostic message.
8151.5	`pblogarchive: Failed to initialize CURL/SSL libraries`	One or more of the shared libraries listed in the `sharedlibssldependencies` or `sharedlibcurldependencies` could not be loaded.	
8151.6	`pblogarchive: Error opening %s (%d:%s)`	`pblogarchive` encountered an error while finding matching files using the provided search pattern.	See the accompanying system-specific diagnostic message.
8151.7	`Settings file is missing required log archive DB host.`	`pblogarchive` requires `logarchivedbhost` setting in the settings file of the Log Server	
8152	`Failed to update the log tracking database.`	`enablelogtrackingdb` is set to "yes" in the settings file of the log host. Every time an eventlog is created, the log tracking database on the Log Archiver Database Server is updated. This error indicates a problem with the database update.	See the PowerBroker for Unix & Linux System Administration Guide and verify if the Log Archiver Database Server is set-up properly.
8500	`Invalid high security setting '%s' must be %s.`	The named keyword is set incorrectly in accordance with the `enforcehighsecurity` setting.	Fix the named setting in accordance with existing documentation.
8501	`Can not stat SSL private key file <filename>`	Could not access the named keyfile. This is followed by the system-specific reason.	

Number	Diagnostic Text	Meaning	Action
8502	`SSL_CTX_set_cipher_list`	An invalid cipher list option was specified.	Check the sslpbruncipherlist and sslservercipherlist settings.
8503	`Private key file not specified`	An SSL private key was not specified in the settings file.	
8504	`<SSL diagnostic>`	A problem was encountered with a certificate file. The SSL diagnostic describes the reason.	
8505	`<SSL diagnostic>`	A problem was encountered with a private key file. The SSL diagnostic describes the reason.	
8506	`<SSL diagnostic>`	A problem was encountered when checking a private key file. The SSL diagnostic describes the reason.	
8507	`<SSL diagnostic>`	A problem was encountered when loading a certificate authority file. The SSL diagnostic describes the reason.	
8508	`<SSL diagnostic>`	A problem was encountered when processing a certificate authority directory. The SSL diagnostic describes the reason.	
8509	`Could not initialize server connection parameters`	An SSL server connection could not be established. This diagnostic generally follows other diagnostics that lead up to it.	
8510	`Could not find server certificate file`	A server could not find a certificate file.	Check your settings file to see if sslservercertificatefile was specified.
8511	`Could not establish new server SSL context`	An SSL server context could not be established. This diagnostic generally follows other diagnostics that lead up to it.	

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Number	Diagnostic Text	Meaning	Action
8512	Could not initialize server SSL context	An SSL server context could not be initialized. This diagnostic generally follows other diagnostics that lead up to it.	
8513	Server could not load client CA file.	An SSL server could not find a certificate authority file to send to its client when client certificates are required. The SSL diagnostic describes the reason.	
8514	Server failure in SSL_new()	An SSL server could not start a connection. The SSL diagnostic describes the reason.	
8515	Server failure in SSL_set_fd()	An SSL server could not connect its context to a file descriptor. The SSL diagnostic describes the reason.	
8516	Server failure in SSL_accept()	An SSL server could not accept a connection. The SSL diagnostic describes the reason.	
8517	Could not initialize client connection parameters	An SSL client could not be initialized. This diagnostic generally follows other diagnostics that lead up to it.	
8518	Could not find intermediate server certificate file	An intermediate SSL server (pbmasterd or pblocald) could not find its certificate file.	Check your settings file to see how the sslservercertificate file was specified.
8519	Could not establish new client SSL context	An SSL client context could not be established. This diagnostic generally follows other diagnostics that lead up to it.	
8520	Could not initialize client SSL context	An SSL client context could not be initialized. This diagnostic generally follows other diagnostics that lead up to it.	
8521	Client failure in SSL_new()	An SSL client could not start a connection. The SSL diagnostic describes the reason.	

Number	Diagnostic Text	Meaning	Action
8522	`Client failure in SSL_set_fd()`	An SSL client could not connect its context to a file descriptor. The SSL diagnostic describes the reason.	
8523	`Client failure in SSL_connect()`	An SSL client could not establish a new connection. The SSL diagnostic describes the reason.	
8524	`SSL log server initialization failure`	An SSL client could not connect to a log server. This diagnostic generally follows other diagnostics that lead up to it.	
8525	`SSL Policy Server daemon initialization failure`	The run host could not establish an SSL connection from a Policy Server. This diagnostic generally follows other diagnostics that lead up to it.	
8526	`SSL log server reconnect initialization failure`	pblocald could not establish an SSL connection to the log server during a log reconnect. This diagnostic generally follows other diagnostics that lead up to it.	
8527	`SSL client initialization failure`	pblocald could not establish an SSL connection to its client. This diagnostic generally follows other diagnostics that lead up to it.	
8528	`SSL <Policy Server/local daemon> initialization failure`	The log server could not establish an SSL connection to pbmasterd/pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8529	`SSL log reconnect initialization failure`	The log server could not establish an SSL connection to pblocald during a log reconnect. This diagnostic generally follows other diagnostics that lead up to it.	

Number	Diagnostic Text	Meaning	Action
8530	SSL client initialization failure	pbmasterd could not establish an SSL connection to pbrun during a connection. This diagnostic generally follows other diagnostics that lead up to it.	
8531	Could not initiate SSL to <run host>	pbmasterd could not establish an SSL connection to pblocald. This diagnostic generally follows other diagnostics that lead up to it.	
8532	Locald on <run host> is not SSL enabled	pbrun expects an SSL connection, but pblocald is not SSL-enabled.	1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8533	Failed SSL initialization to pblocald on <run host>	SSL initialization failed during a reconnect to the listed slave host.	
8534	Policy Server on <Policy Server> is not SSL enabled	pbrun expects an SSL connection, but pbmasterd is not SSL-enabled.	1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8535	Policy Server not SSL enabled	pbguid expects an SSL connection, but pbmasterd is not SSL-enabled.	1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8536	Could not initialize SSL to Policy Server	pbguid could not initialize an SSL connection to pbmasterd.	
8537	<SSL diagnostic>	pbguid could not initialize its SSL parameters. The SSL diagnostic describes the reason in more detail.	
8538	<SSL diagnostic>	pbguid could not set up an SSL connection to the browser. The SSL diagnostic describes the reason in more detail.	

Number	Diagnostic Text	Meaning	Action
8538.1	`log server is not SSL enabled`	The requested log server is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the log server, disable SSL for the requesting program, or enable allownonssl for the requesting program.
8538.2	`logserver is not SSL enabled`	The requested log server is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the log server, disable SSL for the requesting program, or enable allownonssl for the requesting program.
8539.1	`Policy Server daemon on %s is not SSL enabled`	The requested Policy Server is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the Policy Server, disable SSL for the requesting program, or enable allownonssl for the requesting program.
8540.1	`client on <submit host> is not SSL enabled`	The requested client is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the client, or disable SSL for the requesting program, or enable allownonssl for the requesting program.
8540.2	`client on <submit host> is not SSL enabled`	The requested client is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the client, disable SSL for the requesting program, or enable allownonssl for the requesting program.
8541.1	`Policy Server/local daemon on <Policy Server/run host name> is not SSL enabled`	The requested Policy Server/local daemon is not configured for SSL, but the log server requires SSL.	Enable SSL for the Policy Server/local daemon, disable SSL for the log server, or enable allownonssl for the log server.
8541.2	`Policy Server/local daemon on <Policy Server/run host name> is not SSL enabled`	The requested Policy Server/local daemon is not configured for SSL, but the log server requires SSL.	Enable SSL for the Policy Server/local daemon, disable SSL for the log server, or enable allownonssl for the log server.

Number	Diagnostic Text	Meaning	Action
8542	`pblocald on <run host> is not SSL enabled`	The requested pblocald on the specified host is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the local daemon, disable SSL for the requesting program, or enable allownonssl for the requesting program.
8543	`Unable to load ssl engine: <name>`	The SSL engine could not be loaded.	Verify that the library exists.
8544	`unable to satisfy randomness requirements`	SSL needs a certain amount of randomness. This requirement could be met using RAND_seed() functions.	Contact BeyondTrust technical support
8701	`Failed to allocate a TCP/IP port for X11 forwarding - exiting`	The TCP/IP port to use for X11 forwarding could not be allocated.	Check the available ports.
8702	`Failed to allocate memory to X11 forwarding for new X11 application - exiting`	Could not allocate memory.	
8703	`Invalid X11 forwarding channel message - exiting`	The X11 forwarding channel message is invalid.	
8704	`X11 forwarding is enabled, but no DISPLAY environment variable set`	The environment variable DISPLAY is not set.	Set the DISPLAY variable and restart the operation (pbrun -X).
8801	`Could not load PAM function <function name>`	The named PAM function could not be loaded at runtime.	Check that the PAM libraries exist and can be found.
8802	`Could not open PAM library <library name>`	The named PAM library could not be found.	Check that the PAM libraries exist and are accessible.
8803	`PAM account management failed - <reason>`	The PAM account management module returned a failure. This is followed by a PAM-specific diagnostic.	Correct the situation described in the PAM-specific diagnostic message.
8804	`PAM session start failed - <reason>`	A PAM session start call failed. This is followed by a PAM-specific diagnostic message.	Correct the situation described in the PAM-specific diagnostic message.

Number	Diagnostic Text	Meaning	Action
8805	PAM session close failed – <reason>	A PAM session end call failed. This is followed by a PAM-specific diagnostic.	Correct the situation described in the PAM-specific diagnostic message.
8806	PAM account management failure – <reason>	A PAM account management call failed. This is followed by a PAM-specific diagnostic message.	Correct the situation described in the PAM-specific diagnostic message.
8807	PAM authentication failed – <reason>	A PAM password authentication call failed. This is followed by a PAM-specific diagnostic message.	Correct the situation described in the PAM-specific diagnostic message.
8808	PAM is not available on this platform	PAM is not available on the host.	Turn off the PAM setting in your settings file.
8809	PAM account management failure – <message>	The PAM account mechanism returned something other than PAM_SUCCESS. This could indicate an error, or an account failure (such as account is locked).	Review and address the <message> portion.
9000	Success	Operation was successful	Success, no errors
9001	Unable to connect. Incompatible Versions or settings	The client and server versions or settings mismatch; Client and version configurations should match	Upgrade pblogsync and pblogsyncd, verify pb.settings
9002	Unknown request received	A request received by the server could not be recognized	Upgrade pblogsync and pblogsyncd
9003	Invalid Path or Filename	Client requested a log file that is either invalid or not accessible	Check path and filename
9004	At least one of the log files contains a different unique ID	The unique ID is not the same on all files, indicates different sessions.	Verify files are from the same session or use -I/--ignored
9005	Log file was not sent out	The program was unable to transfer the log file between the server and the client	Verify the connection was operational
9006	Files could not be sorted	The log files could not be sorted in chronological order	Verify there are no time conflicts

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Number	Diagnostic Text	Meaning	Action
9007	Unable to connect	Unable to connect	Check port numbers, server availability, firewall settings
9008	Unrecognized command argument	Incorrect argument or value	Check and correct transaction options and values
9009.01	APR could not initialize <APR internal message> <APR internal error number>	Unable to perform APR initialization	internal error. APR initialization function failed
9009.02	APR could not allocate pool <APR internal message> <APR internal error number>	Unable to allocate memory pool	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.
9009.03	APR could not connect <APR internal message> <APR internal error number>	Unable to connect to message server	Check message host name and port number
9009.04	APR could not send frame <APR internal message> <APR internal error number>	Unable to send data frame to message server	Verify the connection was operational
9009.05	APR could not send message <APR internal message> <APR internal error number>	Unable to send message to message server	Verify the connection was operational
9009.06	APR could not send disconnect <APR internal message> <APR internal error number>	Unable to send disconnect message to message server	Verify the connection was operational
9009.07	APR could not disconnect <APR internal message> <APR internal error number>	Unable to disconnect from message server	Verify the connection was operational
9010.01	PSMC settings error: Missing PSMC message queue server host name	require PSMC setting(s) is/are missing in the settings file	Verify message queue server host name is in the PSMC settings file
9010.02	PSMC XML string memory allocation error	Unable to allocate memory for XML string	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.

Number	Diagnostic Text	Meaning	Action
9010.03	`PSMC XML string out of memory`	XML string out of memory	internal error. Allocated string out of memory
9010.04	`Could not connect to PSMC message queue after all failover tries`	Unable to connect to message server after trying all the failover server	Check message host name and port number; verify the connection is operational
9010.05	`PSMC settings error: Invalid PSMC message queue server port number`	required PSMC setting is invalid	Verify message host port number
9010.06	`PSMC settings error: Invalid PSMC message queue server connection retry value`	required PSMC setting is invalid	Verify message host connection retry value is valid
9010.07	`PSMC I/O Log Body write error: Invalid input string(s)`	invalid I/O log input string	internal error. Invalid I/O data fragment format
9011.01	`PowerBroker Identity Services eventlog XML string memory allocation error`	Unable to allocate memory for XML string	If the operating system diagnostic message indicates a lack of memory, you may need to increase the swap space on the affected machine.
9011.02	`PowerBroker Identity Services eventlog XML string out of memory`	XML string out of memory	Internal error. Allocated string out of memory.
9100	`Policy file updated by PSMC`	the console manager policy editor's file was successfully applied to the local system	no action required
9101	`Authentication Failed`	Authentication failed between APR and message server	check user/password/installation key
9102	`Could not read policy`	Unable to read policy from message queue, check attached code with the APR guide to understand the issue	check settings and restart process
9103	`could not subscribe`	Unable to subscribe; check the attached code for further explanation from the APR manual	check settings and restart process

Number	Diagnostic Text	Meaning	Action
9104	could not read initial response	Unable to read the initial message queue response, refer to the internal code given	check settings and restart process
9105	unable to login	Unable to login the message queue	Check settings and restart process
9106	Unable to connect to <host>, <port> (internal error code)	unable to connect to the message queue on a given host	Check settings and restart process
9107	no message servers defined		
9108. 01	Unable to save temporary policy file for authentication	PowerBroker for Unix & Linux received an updated policy file, but it was unable to save it locally in the /etc/.pbew.conf	Check the reasons why the new policy could not have been saved to /etc/.pbew.conf
9108. 02	psmc policy file authentication failed	the file was corrupted	
9109	unable to start PSC monitoring process	pbsyncd was unable to start a PSC monitoring process	Check settings, memory available, restart
9110	unable to lock file <filename>	pbsyncd was unable to obtain an exclusive write lock on the policy file	Check for reasons why the policy file (pbew.conf) cannot be locked for updates
9111	Error: no psmc installation id defined	A command was issued to establish communications with the PSMC, but no psmcinstallationid keyword was found	Check the psmcinstallationid keyword is in the settings
9112	Error initializing PSMC mangler	An error occurred while initializing the PSMC mangler with the psmc key	Check the PSMC key file
9113	Unable to read psmc settings	PB was unable to decrypt the PSMC settings file using the given key	Check PSMC settings and key file integrity
9114	Unable to open psmc settings file	Unable to open PSMC settings file	Check existence and permission of PSMC settings file
9115	Unable to get a response from pbcheck	PowerBroker was unable to get a response from pbcheck while executing a policy update	Check if pbcheck is accessible from pbsyncd

Number	Diagnostic Text	Meaning	Action
9116	`unrecognized policy header received from host`	Unrecognized policy header received from PSMC	
9117	`Error: select return value wasn't zero, but FD is NOT SET on fd:<number>`	fd is not writable	Contact BeyondTrust technical support.
9200.01	`<program name> can't set the specified locale.`	Unable to set the specified locale.	Check locale setting in the system
9200.02	`Invalid multibyte character, Couldn't convert string to wide characters.`	Unable to convert multibyte character to wide character.	Verify input string is valid multibyte character
9200.03	`Failed to convert character to multibyte sequence`	Unable to convert wide character to multibyte sequence.	Verify input string is valid wide character