



PowerBroker® Servers

UNIX® + Linux® Edition

Diagnostic Messages Guide for:

POWERBROKER EXPRESS

POWERBROKER VIRTUALIZATION

POWERBROKER SERVERS UNIX EDITION

POWERBROKER SERVERS LINUX EDITION

beyondtrust®

Beyond Traditional Security

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Introduction

This manual describes the various diagnostic messages that may be encountered while running BeyondTrust PowerBroker[®] Servers software. PowerBroker[®] Servers includes PowerBroker[®] Servers UNIX[®] Edition, PowerBroker[®] Servers Linux[®] Edition, PowerBroker[®] for Virtualization, and PowerBroker[®] Express.

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 entered 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, if the number of characters required for 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 Servers, see the *PowerBroker Servers Installation Guide*.

For detailed information and advanced procedures for PowerBroker Servers, see the *PowerBroker Servers Administration Guide*.

Documentation Set for PowerBroker Servers

The complete PowerBroker Servers documentation set includes the following:

- *PowerBroker Servers Installation Guide Unix/Linux Edition*
- *PowerBroker Servers System Administration Guide Unix/Linux Edition*
- *PowerBroker Servers Policy Language Guide Unix/Linux Edition*
- *PowerBroker Servers Browser Interface Guide Unix/Linux Edition*
- *PowerBroker Servers Diagnostic Messages Guide Unix/Linux Edition*
- Man pages (for Unix/Linux)

Note: Use the *PowerBroker Sudo Converter Getting Started Guide* and *PowerBroker Sudo Converter Procedures Guide* to install, configure and administer PowerBroker Sudo Converter software.

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 Servers 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 Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
1003.04	Unknown escape sequence	Unknown escape sequence <sequence found>	Remove or edit the escape sequence.
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.
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	

Table 1. PowerBroker Servers Diagnostic Messages

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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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>		
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.

Table 1. PowerBroker Servers Diagnostic Messages

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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
1500	<code>fprintf</code> 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	<code>mktemp</code> 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	<code>readfile</code> 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.
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 <code>printf</code> arguments	<code>printf</code> , <code>sprintf ()</code> , or <code>fprintf</code> was called with invalid arguments.	See the man pages for <code>printf</code> , <code>sprintf ()</code> , or <code>fprintf</code> .
1505	* <code>printf</code> - Integer argument invalid	The argument for a <code>%d</code> or <code>%u</code> formatter was not an integer.	
1506	* <code>printf</code> - String argument invalid	The argument for a <code>%s</code> formatter was not a string.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
1507	<code>*printf - Invalid format</code>	The format argument for a printf-style function was invalid.	
1508	<code>stat is not allowed for security reasons</code>	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	<code>Invalid time</code>	The <code>timebetween ()</code> function was called with an invalid time parameter. The time parameters must in 24-hour format and should not have leading zeros.	
1510	<code>Invalid user name <name></code>	The user name given to <code>getfullname</code> , <code>getgroup</code> , <code>getgroups</code> , <code>gethome</code> , or <code>getshell</code> was invalid. It must exist in the user database (in <code>/etc/passwd</code> or the NIS map <code>passwd</code>).	
1511	<code>insert - index must be positive</code>	The index given to <code>insert</code> must be a positive number.	
1512	<code>Width argument invalid</code>	The width argument given for a printf argument was not a number. E.g., <code>printf("%*s", "foo", "bar");</code> should be something like: <code>printf("%*s", 10, "bar");</code>	
1513	<code>Could not fstat '<filename>'</code>	The <code>readFile ()</code> function uses <code>fstat</code> to determine the size of the file.	
1514	<code>Could not open '<filename>'</code>	The <code>readFile ()</code> function could not open the file specified.	Ensure that the permissions on the file <code><filename></code> are correct; they should allow root to read the file.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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'.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
1544.2	Expecting a list	A list was expected, but not found.	Correct the policy.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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	LIBSYMPARSE_evalCheckType encountered an unexpected LIBSYMPARSE_CHECK_TYPE_MATCH	Internal parser error	Contact BeyondTrust technical support.
1547.2	LIBSYMPARSE_evalCheckType encountered an unexpected LIBSYMPARSE_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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
1549.4	Expecting a string, number or list	A string, number, or list was expected, but not found.	Correct the policy.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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 LIBSYMPARSE_definedType 2InfoType - ###	Internal parser error	Contact BeyondTrust technical support.
1580	Untranslatable type in infoTypes2symparseDefinedTypes - ###	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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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).
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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 master daemon tried to connect to something other than a PowerBroker local daemon.	Check the settings file to see if the local port or plocaldcommand points to a valid local daemon.
1913	Invalid master daemon on master host <host name>	A PowerBroker client connected to something other than a PowerBroker master daemon.	Check the settings file to see if the master port or submitmasters points to a valid master 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 master daemon on master host <host name>	Something other than a PowerBroker master daemon connected to a PowerBroker local daemon.	Examine the system configuration to see what may be attempting to access the plocald port.
1915	Invalid master daemon on master host <host name>	Something other than a PowerBroker master daemon connected to a PowerBroker local daemon.	Examine the system configuration to see what may be attempting to access the plocald port.
1916	Invalid client connection from submit host <host name>	Something other than a PowerBroker client connected to a PowerBrokerPowerBroker master daemon.	Examine the system configuration to see what may be attempting to access the pbmasterd port.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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 master and run host name service configuration (/etc/hosts, DNS, NIS, etc). This could also be an attempt to spoof a master host from an unauthorized machine.	Master host name <name> not valid for address <ip address>	The name claimed by the master host does not match the address of the connection on the run host.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
2014.02	Check the submit and master host 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 master host.
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 call back URL, and accessibility from pbguid host/port to psmc host/port
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

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 PBUL 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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
2061	Encryption algorithm <encryption algorithm> is not valid. Please refer to the PBUL Admin for valid values.	An invalid encryption algorithm was specified in for eventlogencryption in the settings file.	Please refer to the PBUL 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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. 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.	If the host system has plenty of resources, increasing the value of the --maxloopchildren option may result in additional reported data. 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 pblockd is up and running and being started from inetd. Try 'telnet hostname pblockd'. 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 pblockd.
3001	Expected boolean	A Boolean was expected.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3002	Connection to <machine> timed out	<p>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.</p> <p>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.)</p> <p>This may also occur if pblocald cannot reconnect to pbrun during the reconnect optimization.</p> <p>This can occur if the master is running DNS, but the submithost is not. Therefore the master tells pblocald to connect to pbrun on machine X.Y.Z, but machine X.Y.Z thinks its name is only X.</p>	<p>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.</p> <p>Check the daemons for incorrect command line options.</p> <p>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.</p> <p>Check to see if the master is running DNS, but the client is not. Use the noreconnect variable, i.e. put 'noreconnect = 1;' in the /etc/pb.conf file.</p>

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3003	Could not connect to a master daemon	<p>pbrun could not connect to any master daemon (pbmasterd). This could be caused by the master machine being down or inetd on the master 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.</p> <p>Possible reasons for "Connection refused":</p> <ul style="list-style-type: none"> - 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 pblockd and pbmasterd lines need to be in the /etc/services file on the NIS master 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(). 	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3003.1	Could not connect to a master	<p>"pbbench" also reports "warnings".</p> <p>Workaround: use shortnamesok in /etc/pb.settings.</p> <p>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.</p> <p>- 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.</p> <p>- On Motorola, NIS services are ignored and local /etc/services are used. Other machines may do this too.</p> <p>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.)</p> <p>Do a 'ps -ef' or 'ps -agux' and then a 'kill -1' with the process ID.</p>	Check the PowerBroker configuration files.
3004	Lost connection with <host>	<p>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.</p>	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3005	Request ended unexpectedly	pbrun finished because its connection with pbmasterd was cut off prematurely. This could be due to network problems, the master 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.	
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.	<ol style="list-style-type: none"> 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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. Check the error logs and pb.key. Also, verify that the log directories exist on the master machine or on the log server if pblogd is used. Verify that the log directories exist on the master 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 master machine or on the log server if pblogd is used. Verify that the log directories exist on the master 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 master host name	The name of the master host could not be determined.	Check name services for the master host.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3024	Could not determine run host name	The name of the run host could not be determined.	Check name services for the run host.
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	master mangler mismatch - retrying	The mangler likely deprecated an encryption type. PB client is aware of the change and will reconnect to master using correct settings.	Verify the networkencryption settings entries for the client and master 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 master	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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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 master host '<master host>'	pblocald could not send its protocol header block to the named master host.	
3064	mangleRecvStart failure initializing master host '<master host>'	pblocald did not receive its protocol header block from the named master host.	
3065	Log server initMangle failure	pblocald could not initialize its encryption keys for a log server connection.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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).	
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>	pbmaterd could not initialize its encryption keys during a connection from pbrun on the named host.	
3074	mangleRecvstart failure during back connect to <submit host>	pbmaterd did not receive its protocol header block during a back connect to the named host.	
3075	initMangle failure connecting to pblocald on <run host>	pbmaterd could not initialize its encryption keys during a connection to pblocald on the named host.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3076	mangleSendStart failure connecting local daemon <run host>	pbrun could not send its protocol header block to plocald on the named host.	
3077	mangleRecvStart failure connecting local daemon <run host>	pbrun did not receive its protocol header block from plocald on the named host.	
3078	mangleSendStart failure connecting local daemon <run host>	pbrun did not receive its protocol header block from plocald 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 plocald on the named host.	
3080	mangleSendStart failure during multiplexed reconnect to <run host>	pbrun could not send its protocol header block to plocald 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 plocald 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 plocald on the named host.	
3083	mangleSendStart failure during non-multiplexed reconnect to <run host>	pbrun could not send its protocol header block to plocald 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 <master host>	pbrun could not send its protocol header block to pmasterd on the named host.	
3086	initMangle failure on settings file	The program could not initialize its encryptions to read an encrypted settings file.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3087.01	Check the log files on the master to see if transmission was interrupted.	Master info packet does not contain master host name	The info packet between pblocald and the master is missing the name of the master host.
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 master 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 master.
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.	Master info packet does not contain the client host name	The info packet between runhost and the master 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 allowremotefjobs setting on your run host.
3087.04	Check the log files on the submit host to see if transmission was interrupted.	Master info packet does not contain the run host name	The info packet between runhost and the master is missing the name of the client host.

Table 1. PowerBroker Servers Diagnostic Messages

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 master 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 master.
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 master 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 master <master host name> - <operating system message>	The program could not send its initial protocol packet to the master host. The operating system diagnostic contains more details.	
3090	Did not receive initial protocol header from master <master host name> - <operating system message>	The program did not receive an initial protocol packet from the master host. The operating system diagnostic contains more details.	
3091	Terminated on protocol failure	The master host did not complete the startup protocol.	Check the master daemon log file on the master host.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 master 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.	
3101.03	Unknown host: <name>	The host specified is unknown to /etc/hosts and/or NIS and/or DNS.	Try shortnamesok yes.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
3106.02	Unknown user id: ###	The user id specified is unknown to /etc/passwd and/or NIS and/or DNS.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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
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

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.

Table 1. PowerBroker Servers Diagnostic Messages

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.

Table 1. PowerBroker Servers Diagnostic Messages

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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 master 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	

Table 1. PowerBroker Servers Diagnostic Messages

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 master connection.
3320	fork	The machine is running out of processes.	If this occurs often, increase the maximum number of processes in your kernel.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
3366	No valid masters setting. Who is master?	pbrun could not determine which machine was a master because there was no masters 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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 <master/local> connect failure	A logConnect failure was diagnosed when sending a master/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.

Table 1. PowerBroker Servers Diagnostic Messages

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 master, 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 master 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 master host.

Table 1. PowerBroker Servers Diagnostic Messages

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 master host 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 master host 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.	

Table 1. PowerBroker Servers Diagnostic Messages

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.	<ol style="list-style-type: none"> 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	<p>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.</p> <p>Note: In previous trouble shooting tips, it is suggested that telnet be used to connect to the master or local daemons. telnet will cause this error to occur.</p>	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3411	master <master host> 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 masters. 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 master (YYY) to the masters line in /etc/pb.settings.
3412	pbrun 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 trouble shooting tips, it is suggested that telnet be used to connect to the master 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 pbrun has its user as root.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 master 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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3504.01	login_tty	<p>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 (Unsure how many characters for X)</p> <p>For SGI: Unable to open a pty</p> <p>For SVR4 and Solaris: Unable to open directory /dev/ptmx No pty available (/dev/pts/N where N is a non-negative number)</p> <p>For AIX: Unable to open directory /dev/ptc. Unable to open tty</p> <p>For SunOS, m88k_svr32, SCO, Linux, Ultrix: Unable to find and/or open /dev/ptyXX</p>	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3509	Too many clients using this license	The master 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.
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 master or failover master and they used pbmakeremotetar and the pbremoteinstall. These scripts were designed for use on submithost and runhost installations, not masters/failover masters.	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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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 master host. Contact BeyondTrust Technical Support to prevent future client rejection.	The master 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3534	Client license limit reached on master host and rejection of additional client is imminent. Please contact BeyondTrust Technical Support.	The master 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.
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 PBUL 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 PBUL 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 PBUL 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 PBUL client host uuid file.	Could not open PBUL 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 PBUL client host uuid file.	The PBUL 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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3614	local mode not allowed in <settings file>	pbrun 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.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 exceeded	Internal error	Contact BeyondTrust Software
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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 masters specified in /etc/pb.settings	No parameters come after 'masters' 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 master port specified in /etc/pb.settings	There is no value after the keyword 'masterport'.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3915	No local port specified in /etc/pb.settings	There is no value after the keyword 'localport'.	
3916.##	No master 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'.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
3958	Bad regular expression ' <code><expression></code> '	A poorly formed regular expression was found in a setting.	Correct the regular expression.
3959	Could not verify pattern ' <code><pattern></code> ' in client subject ' <code><expression></code> '	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 ' <code>%s</code> '	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 ' <code>%s</code> ' in server subject ' <code>%s</code> '	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 <code><settings file></code>	The policy directory was not specified in the settings file.	Edit the settings file to provide a policy directory.
3964	file <code><policy file name></code> 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 <code>policydir</code> setting in the settings file to point to the file's directory.
3965.01	Format error in entry <code><entry value></code> for setting <code><settings name></code>	The listed value in the named setting does not match the expected format.	Correct the value in the settings file.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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	Master info packet does not contain submit host ip.	Critical data was missing from the master'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.

Table 1. PowerBroker Servers Diagnostic Messages

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.

Table 1. PowerBroker Servers Diagnostic Messages

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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5001.08	Connection closed unexpectedly while trying to send a check ACK	A connection closed while pbmasterd tried to authorize a local mode command.	
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.	<ol style="list-style-type: none"> 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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5004.14	atomic write hostname in backBind#Redirect	pbmasterd is connecting to the pblockd machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is unable to start pblockd. 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 pblockd machine, but the connection is closing immediately. Most likely inetd is accepting the connection, but is unable to start pblockd. 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.
5004.17	Problem writing localPrompt, '<prompt>' to fd #	A problem was encountered writing the specified prompt string to the listed fd in pblockd.	
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	pblockd 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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	master 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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
5112	Protocol error, received <command> (<command number>)	The log server received an unknown command.	Check the configuration of the master 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	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	<ol style="list-style-type: none"> 1. Check the log files on the pbmasterd/pblocald/pblo gd 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.
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	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5420	getrlimit		Contact BeyondTrust technical support.
5422	AIX select timeout		Contact BeyondTrust technical support.
5424	ptysystem_io_loop	A read error occurred during a ptyssystem call from the policy language.	
5425	ptyfork failed in ptyssystem. <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.	
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	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 master host name	pbmasterd could not determine its host name. This is followed by a system-specific diagnostic message.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
5471	Could not get master host name	pbbmasterd 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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
5476.##	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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
5502.##	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.
5511	Expected string variable for <name>		Contact BeyondTrust technical support.
5512	Expected integer variable for <name>		Contact BeyondTrust technical support.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 lognpassword to be a number	lognpassword 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5527	Internal error - invalid mode setting <value>	This is an internal error.	Contact BeyondTrust technical support.
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5604	block length(number) on fd <file descriptor> exceeds remaining buffer size (<number>)		
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
5617	pbPamSessionStart Solaris 9 projname specified but solarisprojects is not enabled	The pbrun commandline, or the PBUL 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	allList1ElementsNotInT reeList2 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	allList1ElementsNotInT reeList2 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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 PBUL Policy expression.
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.

Table 1. PowerBroker Servers Diagnostic Messages

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.

Table 1. PowerBroker Servers Diagnostic Messages

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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

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 PBIS 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5716	Unable to resolve PBIS 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 PBIS event log to determine which libraries are needed.
5717	Did not find PBIS 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 PBIS event log to determine which libraries are needed.
5718	PBUL encountered a PBIS error: <error message>	PowerBroker Servers encountered a PBIS interface error.	Contact BeyondTrust technical support.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
5719	Location of CURL library is unknown.	The keyword <code>sharedlibcurldependencies</code> is missing or has no value.	Add the <code>sharedlibcurldependencies</code> keyword to the settings file and provide a valid path. You may also disable the PBUL features that require <code>libcurl</code> .
5720	Did not find CURL function <name>	The function indicated is not located in the shared libraries currently loaded using the <code>sharedlibcurldependencies</code> keyword.	Use <code>nm</code> , <code>ldd</code> , or <code>truss</code> to determine which library contains the named function, then add that library to the <code>sharedlibcurldependencies</code> keyword. <code>Nm</code> can be run against all known shared libraries to locate the function. <code>Ldd</code> can be run against libraries <code>alrea</code> .
5721	Unable to load CURL library.	One or more of the shared libraries listed in the <code>sharedlibcurldependencies</code> 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 <code>sharedlibcurldependencies</code> keyword	Use <code>nm</code> , <code>ldd</code> , or <code>truss</code> to determine which library contains the named function, then add that library to the <code>sharedlibcurldependencies</code> keyword. <code>Nm</code> can be run against all known shared libraries to locate the function. <code>Ldd</code> can be run against libraries <code>alrea</code> .
5723	Error loading library: <name>	The shared library specified by <code>sharedlibcurldependencies</code> 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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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).
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 <master host>	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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	
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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8033	Kerberos key initialization error	A Kerberos connect failure from the master host 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 master host. 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 master host. This diagnostic generally follows other diagnostics that lead up to it.	
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8069	Solaris Projects are not enabled	Solaris Projects are not enabled	Enable Solaris projects using <code>enablesolarisprojects</code> keyword or using PAM (<code>pam</code> , <code>pamsession</code> and <code>pamsetcred</code> keywords) in <code>pb.settings</code> . 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 <code>getdefaultproj()</code> library function failed to return a default project for the <code>runuser</code> .	Examine system logs and Solaris Project configuration on the <code>runhost</code> 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. Or increase the resource limit.
8073	user <username> could not join project <project name>. errno:<number>	The <code>setproject()</code> library call encountered an error.	Investigate the system logs on the <code>runhost</code> . Investigate the <code>errno</code> value for <number>.
8074	errno:<number> binding to project <project name> resource pool	The <code>setproject()</code> library call encountered an error regarding the project's resource limits.	Investigate the system logs on the <code>runhost</code> . Investigate the <code>errno</code> value for <number>.
8075	unknown error:<number> errno:<number> binding to project <project name>.	The <code>setproject()</code> library call returned an error and <code>errno</code> .	Investigate the system logs on the <code>runhost</code> . Investigate the <code>errno</code> value for <number>.
8076	LOCAL MODE and project is set, however <code>enablesolarisprojects</code> keyword is not enabled.	LOCAL MODE and project is set; however, the <code>enablesolarisprojects</code> keyword is not enabled.	Enable the <code>enablesolarisprojects</code> keyword on the <code>runhost</code> . 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 <code>sharedlibsolarisprojects</code> keyword	Add the appropriate library to the <code>sharedlibsolarisprojects</code> keyword.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8100	Access Denied	The Application ID ACL's do not provide the permissions required for the current operation.	Use a different Application ID or add new ACL permissions.
8101	Bad constraint [<CONSTRAINT>], <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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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
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.	
8502	SSL_CTX_set_cipher_list	An invalid cipher list option was specified.	Check the sslpbuncipherlist and sslservercipherlist settings.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.	

Table 1. PowerBroker Servers Diagnostic Messages

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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8521	Client failure in SSL_new()	An SSL client could not start a connection. The SSL diagnostic describes the reason.	
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 master daemon initialization failure	The run host could not establish an SSL connection from a master host. 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 <master/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.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8529	SSL log reconnect initialization failure	The log server could not establish an SSL connection to pblockd during a log reconnect. This diagnostic generally follows other diagnostics that lead up to it.	
8530	SSL client initialization failure	pbrun 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>	pbrun could not establish an SSL connection to pblockd. 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 pblockd is not SSL-enabled.	<ol style="list-style-type: none"> 1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8533	Failed SSL initialization to pblockd on <run host>	SSL initialization failed during a reconnect to the listed slave host.	
8534	Master on <master host> is not SSL enabled	pbrun expects an SSL connection, but pbrun is not SSL-enabled.	<ol style="list-style-type: none"> 1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8535	Master not SSL enabled	pbrun expects an SSL connection, but pbrun is not SSL-enabled.	<ol style="list-style-type: none"> 1. Check the local daemon configuration. 2. Add allownonssl to the pbrun setting ssloptions.
8536	Could not initialize SSL to master	pbrun could not initialize an SSL connection to pbrun.	
8537	<SSL diagnostic>	pbrun could not initialize its SSL parameters. The SSL diagnostic describes the reason in more detail.	

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8538	<SSL diagnostic>	pbguid could not set up an SSL connection to the browser. The SSL diagnostic describes the reason in more detail.	
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	master daemon on %s is not SSL enabled	The requested master is not configured for SSL, but the requesting program requires SSL.	Enable SSL for the master, 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	master/local daemon on <master/run host name> is not SSL enabled	The requested master/local daemon is not configured for SSL, but the log server requires SSL.	Enable SSL for the master/local daemon, disable SSL for the log server, or enable allownonssl for the log server.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
8541.2	master/local daemon on <master/run host name> is not SSL enabled	The requested master/local daemon is not configured for SSL, but the log server requires SSL.	Enable SSL for the master/local daemon, disable SSL for the log server, or enable allownonssl for the log server.
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.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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 pblogsnc and pblogsncd, verify pb.settings
9002	Unknown request received	A request received by the server could not be recognized	Upgrade pblogsnc and pblogsncd
9003	Invalid Path or Filename	Client requested a log file that is either invalid or not accessible	Check path and filename

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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
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

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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.
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	PBIS 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	PBIS eventlog XML string out of memory	XML string out of memory	Internal error. Allocated string out of memory.

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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
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 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

Table 1. PowerBroker Servers Diagnostic Messages

Number	Diagnostic Text	Meaning	Action
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
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