

Oracle® Communications
Network Charging and Control

ENUM Control Agent Alarms Guide
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Alarm Topic Description

Alarm generation

Alarms on each configured node are written to the syslog and are then captured by the smsAlarmDaemon for entry in the SMF database.

For management of these alarms, refer to *Service Management System Technical Guide*.

Severity levels

This table describes the alarms severity levels.

| Level | Abbr | Description |
|----------|------|--|
| Critical | C | These alarms are raised when the application has encountered an error which indicates that the system is unable to function. |
| Error | E | These alarms indicate the application has encountered a serious problem completing a necessary task and could not complete the task. |
| Warning | W | Warnings are raised to indicate the application encountered a problem completing a non-mission critical task. |
| Notice | N | Notices are raised to indicate that the application has completed a task successfully. |

Alarm format

Alarms usually follow this format:

```
Mon DD 24:MM:SS hostname process name: [ID alarmID user.severity] process(PID)
SEVERITY: Alarm text with possible variables
```

Where:

| Variable | Description |
|--------------|---|
| Mon DD | Month and date the alarm was logged. |
| 24:MM:SS | Time the alarm was logged in 24 hour format. |
| hostname | Name of the machine on which the alarm was generated. |
| process name | Name of the process which logged the alarm. |
| alarmID | ID number of the alarm. |
| severity | Alarm severity. |
| process | Name of the process which logged the alarm. |
| PID | Process ID of the process which logged the alarm. |
| SEVERITY | Alarm severity. |

| | |
|------------|--|
| Alarm text | Alarm text. This may include variables such as node number. Note: In some cases the entire alarm text is generated from variables. |
|------------|--|

Note: Some alarms from some subsystems may have a different format.

Example: This text shows an smsMaster alarm about pending update queues.

```
Mar 30 13:34:54 prodsmp1 smsMaster: [ID 953149 user.warning] smsMaster(17833)
WARNING: Pending queue now above 15 (Worst Node 317)
```

Alarm text and variables

The %d and %s symbols represent variables within the alarm text. These values are generated by the subsystem and added to the message when the alarm is raised.

Usually the %d is a number and the %s is text in the context of the message to complete the alarm message. Occasionally other % symbols are also used (for example, %u) for different variables.

Further information

For more information about:

- The SMS Alarms subsystem, see *Service Management System Technical Guide*
- Creating and maintaining the SMS Alarm Relay rule set, see *Service Management System User's Guide*

ENUM Control Agent Alarms

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|---|---|---|---------|
| 1110001 | WARNING | %z Invalid DNS request received from %s %d (message too short). Discarding. | DNS query message received from the client (IP address) is too short to be correct. | Calling party may need to check the message or means through which the message is sent. | ENUM |
| 1110002 | WARNING | %z DNS Request from client %s %d has been refused due to: Client address not in accepted list. | The incoming request was refused because the client is not in the allowed list of incoming clients. | If it is required for that client to communicate then add IP address to allowed client list. | ENUM |
| 1110003 | WARNING | %z DNS Request from client %s %d has been refused due to: Maximum concurrent queries reached (%d). | The connection has been refused because the maximum number of concurrent requests has been met. | Increase the maximum number of connections or re-send request later when server load has decreased. | ENUM |
| 1110004 | WARNING | %z DNS Request from client %s %d has been rejected due to: Query content invalid. | Client DNS NAPTR query was invalid. | Check the client query to ensure it complies with the NAPTR and DNS standards. (RFCs 2915 \& 1035) | ENUM |
| 1110005 | WARNING | %z DNS Request from client %s %d has been rejected due to: Query is for non-NAPTR data. | The query is for another non-NAPTR record type. | Change query to request NAPTR records only. | ENUM |
| 1110006 | WARNING | %z DNS Request from client %s %d has been rejected due to: Query qname is empty. | The query sent is blank/empty. | Check the query sent has a valid question section. | ENUM |
| 1110007 | WARNING | %z DNS Request from client %s %d has been rejected due to: No appropriate service configured to process this query. | No appropriate service trigger rule has been configured for the query. | Create a service trigger rule for the client request. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|---|---|---|---------|
| 1110008 | ERROR | %z DNS Request from client %s %d has been rejected due to: Could not open a dialog to triggered service (%d). | Failed to create a SLEE dialog to the trigger rules service key. | Check SLEE is running correctly and check appropriate logs. | ENUM |
| 1110009 | ERROR | %z DNS Request from client %s %d has been rejected due to: Could not send event to triggered service (%d). | Failed to send event on SLEE dialog. | Check SLEE is running correctly and check appropriate logs. | ENUM |
| 1110010 | ERROR | %z Failed to process DNS request for %s %d, received from %s %d. Reason: %s %d. | The dialog was closed or timed out. | Check SLEE and ENCA logs. In event of timeout try resending request when server load has decreased. | ENUM |
| 1110011 | ERROR | %z ENCA failed to register UDP DNS socket: %s %d:%d, reason: %s %d | The configured socket could not be bound. | Check that the port is not privileged (not <1024), or not in use. | ENUM |
| 1110012 | NOTICE | %z UDP port %d is privileged (<%d). The ENCA must be run as root to open this port. | Information only. | No resolution. | ENUM |
| 1110013 | ERROR | %z ENCA failed to register TCP DNS socket: %s %d:%d, reason: %s %d | The configured socket could not be bound. | Check that the port is not privileged (not <1024), or not in use. | ENUM |
| 1110014 | NOTICE | %z TCP port %d is privileged (<%d). The ENCA must be run as root to open this port. | Information only. | No resolution. | ENUM |
| 1110015 | ERROR | %z DNS request from client %s %d has been rejected due to: %s %d. | Request rejected for the specified reason in the alarm (unsupported INAP, TCAP or SLEE type in response). | Check the internal ACS reply to why an unsupported message was returned. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|--|--|--|---------|
| 1110016 | ERROR | %z DNS Request from client %s %d has been rejected due to: Service response is not dynamic, or is malformed. | The applicable ENCA trigger rule expected dataType as DYNAMIC, but the response could not be interpreted as DYNAMIC record data. | Check the ACS response, or change the triggerRule dataType to either URI or NAPTR as appropriate. | ENUM |
| 1110017 | NOTICE | %z Service encountered a problem while processing DNS request for %s %d from %s %d. Release cause: %d. | Information only. | No resolution. | ENUM |
| 1110018 | CRITICAL | %z Unable to find configuration file. | ENCA could not find the ENUM config file. | Check the config file exists and is in the correct location. | ENUM |
| 1110019 | CRITICAL | %z Error reading configuration file. (Exception: %s %d) | ENCA could not read the config file. | Check reason in message and ensure file permissions are set correctly. Check all config entries are formatted correctly. | ENUM |
| 1110020 | CRITICAL | %z Config section \%s %d\ not found. | ENCA could not find the specified config section. | Add specified config section to file. | ENUM |
| 1110021 | NOTICE | %z Received SIGINT signal. Shutting down. | Information only. | No resolution. | ENUM |
| 1110022 | NOTICE | %z Received SIGTERM signal. Shutting down. | Information only. | No resolution. | ENUM |
| 1110023 | CRITICAL | %z Error installing SIGPIPE handler: %s %d | Error registered application signal handle. | Check operating system integrity and restart the SLEE. | ENUM |
| 1110024 | CRITICAL | %z Error installing SIGINT handler: %s %d | Error registered application signal handle. | Check operating system integrity and restart the SLEE. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|---|--|--|---------|
| 1110025 | CRITICAL | %z Error installing SIGTERM handler: %s %d | Error registered application signal handle. | Check operating system integrity and restart the SLEE. | ENUM |
| 1110026 | CRITICAL | %z Error reading configuration file: %s %d | Failed to read the config file. | Check previous error messages to determine cause. | ENUM |
| 1110027 | CRITICAL | %z ENCA Configuration validity check failed. Reason: %s %d | Failed on validation of the config file. | Check the cause in the error message, and edit the config file appropriately. | ENUM |
| 1110028 | WARNING | %z SLEE management event could not be processed (type: %d) | A SLEE management event of unknown type was sent to the ENCA interface | Check compatibility between the ENUM and SLEE installations. | ENUM |
| 1110029 | WARNING | %z SLEE non-management event could not be processed (type: %s %d) | A SLEE event of unknown type was sent to the ENCA interface | Check enca and SLEE logs for possible cause. | ENUM |
| 1110030 | NOTICE | %z ENCA application started | Information only. | No resolution. | ENUM |
| 1110031 | CRITICAL | %z ENCA Initialisation Failed. Check log for details. | ENCA failed to initialise. | Check previous error messages for cause. | ENUM |
| 1110032 | NOTICE | %z ENCA application shutting down | Information only. | No resolution. | ENUM |
| 1110033 | CRITICAL | %z Exception propogated up to main() with message: %s %d | ENCA unhandled/unexpected exception caught. | Check exception details for possible resolution. | ENUM |
| 1110034 | NOTICE | %z ENCA aborting | Information only. | No resolution. | ENUM |
| 1110035 | CRITICAL | %z Exception propogated up to main() of an unknown type! | ENCA unhandled/unexpected exception caught. | No resolution. | ENUM |
| 1110036 | ERROR | %z Failed to process call-out request for %s %d. Reason: %s %d. | The SLEE dialog was closed (due to timeout or another reason). | Check SLEE/ACS logs for cause. In event of timeout try resending request when server load has decreased. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|---|--|--|---------|
| 1110037 | WARNING | %z Unable to process call out request. Maximum total queries met (%d). | The connection has been refused as the maximum number of concurrent requests has been met. | Increase the maximum number of connections or re-send request later when server load has decreased. | ENUM |
| 1110038 | WARNING | %z Unable to process call out request. Request contains no number. | The request sent does not contain any number. | Check the callout node data to ensure a number is being sent. | ENUM |
| 1110039 | WARNING | %z Unable to process call out request. Domain is invalid (%s %d). | The domain in query is invalid. | Check the format of the domain is valid (see RFC 1035, section 2.3.1). | ENUM |
| 1110040 | WARNING | %z Unable to process call out request. Error converting number to FQDN. | The number specified cannot be converted to a FQDN | Check log for specific reason, ensure number is valid as e.164. | ENUM |
| 1110041 | WARNING | %z Call-out query for %s %d completed but contains no answers. | Unexpected or malformed response from external DNS. | Check that the applicable, external DNS server is appropriate for NAPTR queries. | ENUM |
| 1110042 | WARNING | %z Call-out query for %s %d completed but the server claims that the query was malformed. | Error response from external DNS | Check that the applicable, external DNS server is appropriate for NAPTR queries, and that the request sent is correct. | ENUM |
| 1110043 | WARNING | %z Call-out query for %s %d completed but the server claims to have experienced a failure. | Error response from external DNS | Retry the request, or remove this server from the configured list of call-out servers. | ENUM |
| 1110044 | WARNING | %z Call-out query for %s %d completed but the queried-for domain name was not found. | Error response from external DNS | Not an error - the external DNS server has no knowledge of the requested number and domain. | ENUM |
| 1110045 | WARNING | %z Call-out query for %s %d completed but the server does not implement the operation requested by the query. | Error response from external DNS | The external DNS server does not support NAPTR queries. Remove it from the configured list of call-out servers. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|---|---|---|---------|
| 1110046 | WARNING | %z Call-out query for %s %d completed but the server refused the query. | Error response from external DNS | The external DNS server refused the call-out query. Remove it from the configured list of call-out servers. | ENUM |
| 1110047 | WARNING | %z Call-out query name %s %d could not be encoded as a domain name, either because it contains a zero-length label or because it contains a label of more than 63 characters. | The encoded query number+domain is invalid as a domain name. | Check that the number and domain being used by the call-out node are correct. | ENUM |
| 1110048 | WARNING | %z Call-out query for %s %d has timed out. | Call-out DNS query has timed out without a response. | Increase the timeout period or resend the request. | ENUM |
| 1110049 | WARNING | %z Call-out query for %s %d failed. No name servers could be contacted. | No call-out DNS servers could be contacted. | Check configured call-out server list. | ENUM |
| 1110050 | WARNING | %z Call-out query for %s %d failed. Memory was exhausted. | A call-out request could not be fulfilled as the system is out of memory. | Check all processes memory usage. | ENUM |
| 1110051 | WARNING | %z Call-out query for %s %d failed. Unknown error. | Call-out request has failed for an unknown reason. | Retry the request. | ENUM |
| 1110052 | ERROR | %z failed to send SLEE event: %s %d | Failed to send response back to call-out node. | Check SLEE is running and view logs for specific cause. | ENUM |
| 1110053 | ERROR | %z Failed to process call-out request. Reason: Dialog no longer active. | SLEE dialog no longer active. | Retry the request. | ENUM |
| 1110054 | ERROR | %z Compile Pattern error %s %d (%d) on pattern %s %d | Regular expression failed to parse. | Check system stability and restart the ENCA. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|--|--|--|---------|
| 1110055 | ERROR | %z %s %d() : Failed to retrieve nodePtr, disconnecting call. | Internal slee_acs error. | Check system stability, restart slee_acs and retry. | ENUM |
| 1110056 | ERROR | %z failed to initialise macro-node with fast-key %s %d | Could not register the macronode. | Check ENUM package installation and restart SLEE. | ENUM |
| 1110057 | ERROR | %z failed to register macro-node with fast-key %s %d | Could not register the macronode. | Check ENUM package installation and restart SLEE. | ENUM |
| 1110058 | CRITICAL | %z ECA Call Out macro-node: could not lookup ENUM chassis action handler | Failed to locate ENUM chassis action handler. | Check that acs.conf contains an entry for the enumMacroNodes library. | ENUM |
| 1110059 | ERROR | %z ECA Call Out macro-node: could not read configuration: %s %d | Could not read the config file. | Check the config file is present and correct. | ENUM |
| 1110060 | ERROR | %z ECA Call Out macro-node: empty interfaceHandles list. | Empty interface handle list in the config file. | Check the config file for the interfaceHandles list and add a valid ENCA interface name. | ENUM |
| 1110061 | CRITICAL | %z ECA Call Out macro-node: could not retrieve node pointer | Cannot retrieve pointer to macronode. | Check system stability, restart slee_acs and retry. | ENUM |
| 1110062 | ERROR | %z ECA Call Out macro-node: unable to obtain interface handle %s %d %s %d | Failed to obtain an interface handle for specified interface. | Check the applicable interface is running and that the configuration is correct. | ENUM |
| 1110063 | WARNING | %z ECA Call Out node rejected request (All available SLEE queue lengths exceeded %d) | Cannot find unburdened interface to which the request can be sent. | Resend the request when activity reduces, or increase maxQueueLength. | ENUM |
| 1110064 | WARNING | %z ECA Call Out macro-node: response from ECA interface has been truncated. | Response from DNS is larger than supported so has been truncated. | No resolution. | ENUM |
| 1110065 | CRITICAL | %z ECA Call Out macro-node: invoked with invalid state %d | Internal slee_acs error. | Check system stability, restart slee_acs and retry. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|--|--|--|---------|
| 1110067 | WARNING | %z acsEngine: acsEnumNaptrResponse: Unable to extract value from input string. | The input NAPTR string is invalid or empty. | Check that the input to the node is valid NAPTR data, or that this NAPTR node follows an ENUM Call Out node. | ENUM |
| 1110068 | WARNING | %z acsEngine: acsEnumNaptrResponse: Unable to parse non-NAPTR records. | A non-NAPTR record has been passed into the NAPTR node. | Check that the input to the node is valid NAPTR data, or that this NAPTR node follows an ENUM Call Out node. | ENUM |
| 1110069 | WARNING | %z acsEngine: acsEnumNaptrResponse: Unable to parse NAPTR records. | Parsing of the input NAPTR (or non-NAPTR) record has failed. | Check that the input to the node is valid NAPTR data, or that this NAPTR node follows an ENUM Call Out node. | ENUM |
| 1110070 | WARNING | %z acsEngine: acsEnumNaptrResponse: No matching NAPTR record. | No NAPTR records matched the NAPTR nodes search string. | Re-define search string or check NAPTR record data. | ENUM |
| 1110071 | WARNING | %z acsEngine: acsEnumNaptrResponse: No matching NAPTR record at the given index | No records at the index specified in NAPTR node configuration. | Check the index specified is correct. | ENUM |
| 1110072 | WARNING | %z acsEngine: acsEnumNaptrResponse: Error before writing active record. | Active record to be written is empty. | An empty active record has been selected. If this is unwanted, check NAPTR node search string and index. | ENUM |
| 1110073 | WARNING | %z acsEngine: acsEnumNaptrResponse: No AUS in active record. | No AUS data could be found in the active NAPTR record. | Check that the input NAPTR record, search string and index are correct. | ENUM |
| 1110074 | WARNING | %z acsEngine: acsEnumNaptrResponse: Error before writing AUS record. No AUS in active record. | No AUS data could be found in the active NAPTR record. | Check that the input NAPTR record, search string and index are correct. | ENUM |
| 1110075 | ERROR | %z Compile Pattern error %s %d (%d) on pattern %s %d, node %d | Regular expression failed to parse. | Check system stability and restart the SLEE. | ENUM |

| Alarm | Severity | Text | Cause | Resolution | Service |
|---------|----------|-----------------------------------|-----------------------|---------------------------|---------|
| 1110076 | ERROR | %z : unknown action | SLEE execution error. | Check SLEE Configuration. | ENUM |
| 1110077 | ERROR | %z : invalid event type | SLEE execution error. | Check SLEE Configuration. | ENUM |
| 1110078 | WARNING | %z : unable to reset bound dialog | SLEE execution error. | Check SLEE Configuration. | ENUM |