# Oracle® Communications Convergent Charging Controller

Roaming Alarms Guide Release 12.0.0

December 2017



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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 | С    | 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 generate |                                                   |
| 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.                    |
|------------|--------------------------------------------------------------------------------|
|            | <b>Note</b> : 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

## **Roaming Alarms**

| Alarm  | Severity | Text                                                | Cause                                | Resolution                                                                                                                  | Service  |
|--------|----------|-----------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| 220000 | CRITICAL | USSD: VSSP not available. Cannot performa callback. | No VSSP running or VSSP has crashed. | Refer to application expert. Ensure VSSP has restarted and error message is not re- ocurring. Finally contact support.      | MOB_ROAM |
| 220001 | CRITICAL | USSD: absBeClientIF not available. Exiting.         | No beClient found on startup.        | Refer to application expert. Check USSD.cfg and SLEE.cfg to ensure beClient is configured and that interface handles match. | MOB_ROAM |
| 220002 | CRITICAL | USSD: TimerIF not available - exiting               | No timerIF found on startup.         | Refer to application expert. Check USSD.cfg and SLEE.cfg to ensure beClient is configured and that interface handles match. | MOB_ROAM |
| 220003 | CRITICAL | USSD: VSSP not available - exiting                  | No VSSP found on startup.            | Refer to application expert. Check USSD.cfg and SLEE.cfg to ensure beClient is configured and that interface handles match. | MOB_ROAM |
| 220004 | INFO     | USSD: USSD Finished                                 | USSD stopping.                       | Refer to application expert.<br>Start Roaming applications by<br>running slee.sh.                                           | MOB_ROAM |
| 220005 | INFO     | USSD: USSD Started                                  | USSD starting.                       | No resolution.                                                                                                              | MOB_ROAM |
| 220006 | CRITICAL | USSD: NAP Connection Timed Out                      | BE has not responded or BE overload. | If problem persists then contact support.                                                                                   | MOB_ROAM |
| 220007 | CRITICAL | USSD: LEG A Timed Out                               | Caller has not answered A leg.       | If problem persists then contact network security.                                                                          | MOB_ROAM |

| Alarm  | Severity | Text                                                                                  | Cause                                                    | Resolution                                                                                                                                                               | Service  |
|--------|----------|---------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 220008 | CRITICAL | USSD: ClosedDialogue (): absBeClient/BE dialog closed prematurly                      | BE has reported error.                                   | If problem persists then contact support.                                                                                                                                | MOB_ROAM |
| 220009 | ERROR    | USSD: USSD: NAP timer dialog closed prematurly                                        | BE has reported error.                                   | If problem persists then contact support.                                                                                                                                | MOB_ROAM |
| 220010 | ERROR    | USSD: USSD: LEG A wait timer dialog closed prematurly                                 | VSSP has reported error.                                 | If problem persists then contact support.                                                                                                                                | MOB_ROAM |
| 220011 | CRITICAL | USSD: USSD: VSSP dialog closed prematurly                                             | VSSP has reported error.                                 | If problem persists then contact support.                                                                                                                                | MOB_ROAM |
| 220012 | CRITICAL | USSD: USSD: Unknown Dialog<br>Closed                                                  | USSD Application error.                                  | If problem persists then contact support.                                                                                                                                | MOB_ROAM |
| 220013 | INFO     | TRANS: TRANS: Shutting down now.                                                      | Trans application being shutdown.                        | Refer to application expert.<br>Start Roaming applications by<br>running slee.sh                                                                                         | MOB_ROAM |
| 220014 | INFO     | TRANS: TRANS: Starting up.                                                            | Trans is starting.                                       | No resolution.                                                                                                                                                           | MOB_ROAM |
| 220015 | INFO     | TRANS: TRANS: Using Roaming Flag:%z                                                   | Trans is starting.                                       | No resolution.                                                                                                                                                           | MOB_ROAM |
| 220016 | INFO     | TRANS: TRANS: Using<br>ServiceKey:%z                                                  | Trans is starting.                                       | No resolution.                                                                                                                                                           | MOB_ROAM |
| 220017 | ERROR    | RAP: IdpTsan (): Received TSAN IDP when service is not ready. Ignoring call.          | Traffic presented to machine whilst service is starting. | Refer to application expert. To avoid this message block traffic to machine before restarting Roaming applications next time.                                            | MOB_ROAM |
| 220018 | ERROR    | RAP: IdpTsan (): Transfer of dialogue to ABS failed for TSAN: %s %d. Sending Release. | CCS was not available.                                   | Refer to application expert. Ensure CCS is running on the machine and that the USSD.cfg and SLEE.cfg match for the CCS service handle. Service will need to be restarted | MOB_ROAM |

| Alarm  | Severity | Text                                                                                              | Cause                                                   | Resolution                                                                                                                                   | Service  |
|--------|----------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 220019 | ERROR    | RAP: Unable to allocate new TSAN - no free objects. Releasing call: CLI: %s %d, CALLED:%z         | Too many concurrent roaming calls.                      | Refer to application expert. Increase number of TSANs in network and modify the USSD.cfg accordingly. The service will need to be restarted. | MOB_ROAM |
| 220020 | INFO     | RAP: HandleDialogEvent (): Recieved Dialog Close on Unknown Dialog. Ignoring.                     |                                                         | Assuming UNIX/application skills. Use top (see man top) to monitor machine and identify bottleneck.                                          | MOB_ROAM |
| 220021 | INFO     | RAP: HandleTimer (): TSAN timer expired. TSAN was: %s %d, with CLI: %s %d, and CALLED:%z          | _                                                       | Refer problem to application owner. Ensure better QoS with Roaming partners.                                                                 | MOB_ROAM |
| 220022 | INFO     | RAP: IdpNotTsan (): TCAP Primitive does not contain a valid Global Title (err1). Sending Release. | Signalling network error.                               | Refer to singalling expert. Tracing may need to be performed on MSC if alarm persists.                                                       | MOB_ROAM |
| 220023 | INFO     | RAP: IdpTsan (): Illegal Call Attempt to TSAN: %s %d from : %s %d. Expected: %s %d.               | Subscriber dialling<br>TSAN directly                    | Refer to security department.<br>Can block in TSAN range in HLR<br>for direct calling.                                                       | MOB_ROAM |
| 220024 | NOTICE   | RAP: HandleTcapEvent (): Received a TCAP Primitive with OpID: %d, which is not an IDP. Ignoring.  | Signalling network error                                | Refer to singalling expert. Tracing may need to be performed on MSC if alarm persists.                                                       | MOB_ROAM |
| 220025 | NOTICE   | RAP: IdpNotTsan (): Received Non Tsan IDP when service is not ready. Ignoring call.               | Traffic presented to machine whilst service is starting | Refer to application expert. Block traffic to machine before restarting Roaming applications next time                                       | MOB_ROAM |
| 220026 | INFO     | RAP: RAP application is now shutting down.                                                        | RAP application being shutdown                          | Refer to application expert.<br>Start Roaming applications by<br>running slee.sh.                                                            | MOB_ROAM |
| 220027 | NOTICE   | RAP: RAP Application is starting up.                                                              | RAP application being started                           | No resolution.                                                                                                                               | MOB_ROAM |

| Alarm  | Severity | Text                                                                                                              | Cause                                      | Resolution                                                                                                                                                                          | Service  |
|--------|----------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 220028 | INFO     | RAP: RAP Finished                                                                                                 | RAP has finished.                          | Refer to application expert.<br>Start Roaming applications by<br>running slee.sh.                                                                                                   | MOB_ROAM |
| 220029 | NOTICE   | RAP: RAP Started                                                                                                  | RAP has started.                           | No resolution.                                                                                                                                                                      | MOB_ROAM |
| 220030 | WARNING  | RAP: GenerateTimeEvent (1): Failed to open a dialogue to the timerIF. Releasing call.                             | TimerIF not available                      | Refer to application expert (Check the following). 1) Ensure timerIF has restarted and error message is not re-ocurring. 2) Restart service if reocurring. Finally contact support. | MOB_ROAM |
| 220031 | WARNING  | RAP: HandelTimerEvent (): Failed to open a dialogue to the timerIF. Releasing call. TSAN: %s %d CLI: %s %d CLD:%z | TimerIF not available                      | Refer to application expert (Check the following). 1) Ensure timerIF has restarted and error message is not re-ocurring. 2) Restart service if reocurring. Finally contact support. | MOB_ROAM |
| 220032 | WARNING  | RAP: WARNING: TSAN in cancelled state or illeagal call attempt - cli: %d                                          | Roaming network signalling contention.     | Refer to application expert.                                                                                                                                                        | MOB_ROAM |
| 220033 | INFO     | RAP: INFO: Starting Application %s %d FAILED: Permission denied                                                   | The specified application failed to start. | Refer to application expert. Check file permissions of the suspect application.                                                                                                     | MOB_ROAM |
| 220034 | CRITICAL | RAP: CRITICAL SleeException=%d sleeError.cc@%d:%z                                                                 | Exception raised from SLEE.                | Contact support.                                                                                                                                                                    | MOB_ROAM |
| 220035 | CRITICAL | TRANS: CRITICAL SleeException=%d sleeError.cc@%d:%z                                                               | Exception raised from SLEE.                | Contact support.                                                                                                                                                                    | MOB_ROAM |
| 220036 | CRITICAL | USSD: CRITICAL SleeException=%d sleeError.cc@%d:%z                                                                | Exception raised from SLEE.                | Contact support.                                                                                                                                                                    | MOB_ROAM |
| 220037 | CRITICAL | RAP: Failed to create dialog to Timer Interface                                                                   | timerIF cannot be contacted.               | Refer to application expert.<br>Verify process in running.                                                                                                                          | MOB_ROAM |
| 220038 | ERROR    | RAP: idp (TSAN) recieved - service not ready                                                                      | Information Only.                          | No resolution.                                                                                                                                                                      | MOB_ROAM |

| Alarm  | Severity | Text                                                                   | Cause                        | Resolution                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Service  |
|--------|----------|------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 220039 | NOTICE   | RAP: TSAN in cancelled state or illeagal call attempt - cli:%z         | Information Only.            | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOB_ROAM |
| 220040 | ERROR    | RAP: Transfer of Dialog to ABS failed - sending release                | Cannot transfer call to CCS. | Contact support.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MOB_ROAM |
| 220041 | ERROR    | RAP: Illeagal Call Attempt to TSAN: %s %d from %s %d                   | Internal error.              | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOB_ROAM |
| 220042 | ERROR    | RAP: idp (Non TSAN) recieved - service not ready                       | Information Only.            | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOB_ROAM |
| 220043 | ERROR    | RAP: TCAP Primitive NULL - No<br>Global Title Err1 - sent release      | Incomplete IDP.              | Contact support.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MOB_ROAM |
| 220044 | ERROR    | RAP: TCAP Address NULL - No<br>Global Title Err2 - sent release        | Incomplete IDP.              | Contact support.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MOB_ROAM |
| 220045 | ERROR    | RAP: Recieved a INAP message other then IDP - This should never happen | Internal error.              | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOB_ROAM |
| 220046 | ERROR    | RAP: Recieved Dialog Close on Unknown Dialog                           | SLEE has ended the dialog.   | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MOB_ROAM |
| 220047 | ERROR    | USSD: Oracle Error while reading barred numbers                        | DB query returned an error.  | Refer to ORACLE expert first (Check the following). 1) Verify that ORACLE is running through checking the status of the listener(lsnrctl) and restart ORACLE only if necessary. 2) Check the following environment variables and/or configuration files: 2a) ORACLE_SID(environment) 2b) tnsnames.ora(configuration file) 2c) listener.ora(configuration file). 3) Verify that the username and password for the current machine is correct. Finally contact support. | MOB_ROAM |

| Alarm  | Severity | Text                                                          | Cause                            | Resolution                                                                                    | Service  |
|--------|----------|---------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------|----------|
| 220048 | WARNING  | USSD: IMSI_X_MSISDN entry not found for IMSI:%z               | Missing IMSI to MSISDN mapping.  | Refer to application expert. Add missing entry via the SMS screens.                           | MOB_ROAM |
| 220049 | WARNING  | USSD: Problem with dialled string - should be detected by HLR | Information Only.                | No resolution.                                                                                | MOB_ROAM |
| 220050 | ERROR    | USSD: Profile info not found - finishing                      | Callers profile cannot be found. | Refer to application expert. Verify the account exists and contains a valid customer profile. | MOB_ROAM |
| 220051 | CRITICAL | USSD: ccsBeClient not available - exiting                     | ccsBeClient cannot be contacted. | Refer to application expert.<br>Verify process in running.                                    | MOB_ROAM |
| 220052 | WARNING  | USSD: Service key not matched, returning error!               | Information Only.                | No resolution.                                                                                | MOB_ROAM |
| 220053 | CRITICAL | USSD: TimerIF %s %d not available - exiting                   | timerIF cannot be contacted.     | Refer to application expert.<br>Verify process in running.                                    | MOB_ROAM |
| 220054 | ERROR    | USSD: Got Common Exception:%z                                 | Caught an exception from CCS.    | No resolution.                                                                                | MOB_ROAM |
| 220055 | ERROR    | USSD: Got Standard Exception:%z                               | Caught an exception from CCS.    | No resolution.                                                                                | MOB_ROAM |
| 220056 | ERROR    | USSD: Received a exception from BE:%z                         | Caught an exception from BE.     | No resolution.                                                                                | MOB_ROAM |
| 220057 | ERROR    | USSD: Unknown exception from BE                               | Caught an exception from BE.     | No resolution.                                                                                | MOB_ROAM |
| 220058 | WARNING  | USSD: No Escape code detected after translation               | Information Only.                | No resolution.                                                                                | MOB_ROAM |
| 220059 | CRITICAL | USSD: Timer not available - exiting                           | timerIF cannot be contacted.     | Refer to application expert.<br>Verify process in running.                                    | MOB_ROAM |
| 220060 | ERROR    | USSD: The VSSP closed dialog prematurely                      | SLEE has ended the dialog.       | No resolution.                                                                                | MOB_ROAM |

| Alarm  | Severity | Text                                                       | Cause                                           | Resolution       | Service  |
|--------|----------|------------------------------------------------------------|-------------------------------------------------|------------------|----------|
| 220061 | ERROR    | USSD: Transfer to CCS failed -<br>Sending Release to A Leg | Cannot transfer call to CCS.                    | Contact support. | MOB_ROAM |
| 220062 | ERROR    | USSD: Call Context not found - send release 2              | Cannot find call details in internal call list. | No resolution.   | MOB_ROAM |
| 220063 | ERROR    | USSD: Program Error - 2                                    | Information Only.                               | No resolution.   | MOB_ROAM |
| 220064 | ERROR    | USSD: Program Error - 3                                    | Information Only.                               | No resolution.   | MOB_ROAM |
| 220065 | ERROR    | USSD: Program Error - unknown<br>Timer type 1              | Internal error.                                 | No resolution.   | MOB_ROAM |
| 220066 | ERROR    | USSD: ClosedDialogue (): BE dialog closed prematurely      | SLEE has ended the dialog.                      | No resolution.   | MOB_ROAM |
| 220067 | ERROR    | USSD: NAP timer dialog closed prematurely                  | SLEE has ended the dialog.                      | No resolution.   | MOB_ROAM |
| 220068 | ERROR    | USSD: LEG A wait timer dialog closed prematurely           | SLEE has ended the dialog.                      | No resolution.   | MOB_ROAM |
| 220069 | ERROR    | USSD: VSSP dialog closed prematurely                       | SLEE has ended the dialog.                      | No resolution.   | MOB_ROAM |
| 220070 | ERROR    | USSD: Unknown Dialog Closed                                | SLEE has ended the dialog.                      | No resolution.   | MOB_ROAM |
| 220071 | WARNING  | USSD: USSD KILLED                                          | User killed the process.                        | No resolution.   | MOB_ROAM |

| Alarm  | Severity | Text                                                                                            | Cause                                                 | Resolution                                                                                                                                                                                                                                                                                                                                                                                                                        | Service  |
|--------|----------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 220072 | ERROR    | USSD: oraConnect returned :%z                                                                   | Oracle connection refused.                            | Refer to ORACLE expert first (Check the following). 1) Verify that ORACLE is running through checking the status of the listener(lsnrctl) and restart ORACLE only if necessary. 2) Check the following environment variables and/or configuration files: 2a) ORACLE_SID(environment) 2b) the think the configuration file). 3) Verify that the username and password for the current machine is correct. Finally contact support. | MOB_ROAM |
| 220073 | ERROR    | USSD: No services have been configured in ussd.cfg. Exiting!                                    | USSD has no defined service keys.                     | Refer to application expert. Fix ussd.cfg to specify service key entries.                                                                                                                                                                                                                                                                                                                                                         | MOB_ROAM |
| 220074 | NOTICE   | USSD: Call-back service enabled.                                                                | Information Only.                                     | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                    | MOB_ROAM |
| 220075 | ERROR    | USSD: Error duplicate service keys for CALLBACK_SK and VOUCHER_RECHARGE_SK found. Exiting!      | USSD has been configured with duplicate service keys. | Refer to application expert. Fix ussd.cfg to specify unique service key entries.                                                                                                                                                                                                                                                                                                                                                  | MOB_ROAM |
| 220076 | ERROR    | USSD: Error duplicate service keys for CALLBACK_SK and BALANCE_QUERY_SK found. Exiting!         | USSD has been configured with duplicate service keys. | Refer to application expert. Fix ussd.cfg to specify unique service key entries.                                                                                                                                                                                                                                                                                                                                                  | MOB_ROAM |
| 220077 | NOTICE   | USSD: Call-back service disabled.                                                               | Information Only.                                     | No resolution.                                                                                                                                                                                                                                                                                                                                                                                                                    | MOB_ROAM |
| 220078 | ERROR    | USSD: Error duplicate service keys for BALANCE_QUERY_SK and VOUCHER_RECHARGE_SK found. Exiting! | USSD has been configured with duplicate service keys. | Refer to application expert. Fix ussd.cfg to specify unique service key entries.                                                                                                                                                                                                                                                                                                                                                  | MOB_ROAM |

| Alarm  | Severity | Text                                                                                         | Cause                              | Resolution                                                                | Service  |
|--------|----------|----------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------|----------|
| 220079 | NOTICE   | USSD: Voucher Recharge service enabled.                                                      | Information Only.                  | No resolution.                                                            | MOB_ROAM |
| 220080 | NOTICE   | USSD: Voucher Recharge service disabled.                                                     | Information Only.                  | No resolution.                                                            | MOB_ROAM |
| 220081 | NOTICE   | USSD: Balance Query service enabled.                                                         | Information Only.                  | No resolution.                                                            | MOB_ROAM |
| 220082 | NOTICE   | USSD: Balance Query service disabled.                                                        | Information Only.                  | No resolution.                                                            | MOB_ROAM |
| 220083 | ERROR    | SLEE: SLEE(%d) CRITICAL: Recieved a INAP message other then IDP - This should never happen   | Unexpected TCAP message received.  | If problem persists then contact support.                                 | MOB_ROAM |
| 220084 | CRITICAL | SLEE: SLEE(%d) CRITICAL:<br>ClosedDialogue ():<br>absBeClient/BE dialog closed<br>prematurly | BE has reported error.             | If problem persists then contact support.                                 | MOB_ROAM |
| 220085 | CRITICAL | SLEE: SLEE(%d) CRITICAL: NAP<br>Connection Timed Out                                         | BE has reported error.             | If problem persists then contact support.                                 | MOB_ROAM |
| 220086 | CRITICAL | SLEE: SLEE(%d) CRITICAL: USSD: VSSP dialog closed prematurly                                 | VSSP has reported error.           | If problem persists then contact support.                                 | MOB_ROAM |
| 220087 | WARNING  | SLEE: SLEE(%d) WARNING: TSAN in cancelled state or illeagal call attempt - cli:%z            | Call already in TSAN map.          | No action required.                                                       | MOB_ROAM |
| 220088 | CRITICAL | USSD: CRITICAL SleeEvent::new()=%d sleeEvent.cc@%d: No available events                      | Error communicating with the SLEE. | Refer to application expert. Increase MAXEVENTS in SLEE.cfg if necessary. | MOB_ROAM |
| 220089 | CRITICAL | SLEE: SLEE(%d) NOTICE: LEG A<br>Timed Out                                                    | Caller has not answered A leg.     | If problem persists then contact network security.                        | MOB_ROAM |