# Multi-Access Gateway – controller

Release 25.7

## Log Events Reference Guide

3HE 21154 AAAB TQZZA
Edition: 01
July 2025

Nokia is committed to diversity and inclusion. We are continuously reviewing our customer documentation and consulting with standards bodies to ensure that terminology is inclusive and aligned with the industry. Our future customer documentation will be updated accordingly.

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# 1 Getting started

*Find general information about this guide.*

## 1.1 About this guide

This guide provides descriptions of event notifications that are forwarded to a destination such as a file or an SNMP trap. Properties that are reported include alarm or raising event name, raising condition, and clearing event information. The information is intended to assist with identifying and responding to the event notifications.

Command outputs shown in this guide are examples only; actual displays may differ depending on supported functionality and user configuration.

The CLI trees and command descriptions can be found in the *MAG-c CLI Reference Guide*.

**Note:** This guide generically covers content for the release specified on the title page of the guide, and may also contain some content that will be released in later maintenance loads. See the applicable *MAG-c Release Notes* for information about features supported in each load of the software release.

**Note:** The information in this guide is intended to be used in conjunction with the SR OS software user guides. The SR OS software user guides describe SR OS service features that are supported by the MAG-c. See the *7450 ESS, 7750 SR, 7950 XRS, and VSR Documentation Suite Overview Card 20.10.R1* for specific guide titles.

## 1.2 Conventions

This section describes the general conventions used in this guide.

### 1.2.1 Precautionary and information messages

The following information symbols are used in the documentation.

**DANGER:** Danger warns that the described activity or situation may result in serious personal injury or death. An electric shock hazard could exist. Before you begin work on this equipment, be aware of hazards involving electrical circuitry, be familiar with networking environments, and implement accident prevention procedures.

**WARNING:** Warning indicates that the described activity or situation may, or will, cause equipment damage, serious performance problems, or loss of data.

**Caution:** Caution indicates that the described activity or situation may reduce your component or system performance.

**Note:** Note provides additional operational information.

**Tip:** Tip provides suggestions for use or best practices.

### 1.2.2 Options or substeps in procedures and sequential workflows

Options in a procedure or a sequential workflow are indicated by a bulleted list. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform one of the listed options to complete the step.

**Example: Options in a procedure**

1. User must perform this step.
2. This step offers three options. User must perform one option to complete this step.
   - This is one option.
   - This is another option.
   - This is yet another option.

Substeps in a procedure or a sequential workflow are indicated by letters. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform two substeps (a. and b.) to complete the step.

**Example: Substeps in a procedure**

1. User must perform this step.
2. User must perform all substeps to complete this action.
   a. This is one substep.
   b. This is another substep.

# 2 Log events overview

*Log events have common elements or properties but are formatted in a way appropriate for the specific destination whether recorded to a file or sent as an SNMP trap.*

Logs can be directed to memory, a console, a session, a local file, a syslog server, or an SNMP manager. All application-generated events have the following properties:

- a time stamp in UTC or local time
- the generating application
- a unique event ID within the application
- a router name identifying the VRF-ID that generated the event
- a subject identifying the affected object
- a short text description

See the associated SNMP notification definition in the SR OS MIBs for more information about the variables found in the message format strings.

The general format for a log event with either a memory, console, or file destination is as follows:

```
nnnn YYYY/MM/DD HH:MM:SS.SS TZONE <severity>: <application> #<event_id> <router-name>
  <subject>
<message>
```

The following is a log event example:

```
252 2013/05/07 16:21:00.76 UTC WARNING: SNMP #2005 Base my-interface-abc
"Interface my-interface-abc is operational"
```

The following table lists the specific elements that compose the general format.

*Table 1: Log entry field descriptions*

| Label | Description |
|---|---|
| nnnn | The log entry sequence number |
| YYYY/MM/DD | The UTC or local date stamp for the log entry<br>*YYYY* Year<br>*MM* Month<br>*DD* Date |
| HH:MM:SS.SS | The UTC time stamp for the event<br>*HH* Hours (24-hour format)<br>*MM* Minutes<br>*SS.SS* Seconds |

| Label | Description |
|---|---|
| TZONE | The time zone (for example, UTC, EDT) as configured by the **configure log log-id** *x* **time-format** command |
| <severity> | The severity level of the event<br>• CRITICAL<br>• MAJOR<br>• MINOR<br>• WARNING<br>• INFO<br>• CLEARED |
| <application> | The name of the application generating the log message |
| <event_id> | The application's event ID number for the event |
| <router> | The router name representing the VRF-ID that generated the event; some examples include: Base, management, and vprn348 |
| <subject> | The subject or affected object for the event |
| <message> | A text description of the event |

The following table lists the sources that trigger an event.

*Table 2: Log event sources*

| Event source | Description |
|---|---|
| Security events | Events pertaining to attempts to breach system security |
| Change events | Events pertaining to the configuration and operation of the node |
| Main events | Events pertaining to applications that are not assigned to other event categories or sources |
| Debug events | Events pertaining to trace or other debugging information |

## 2.1 Viewing log events

- View all the log events.

```
show log event-control
```

**Note:**

- You can use this command and specify an application (for example, subscriber management).
- When an L precedes an event, it indicates that this event does not generate an SNMP notification.
- The event severity can be modified whether the event is generated or dropped.
- The severity of an SNMP trap is assigned by the SNMP manager.
- By default, all events are throttled at 2000 per second. System throttle or event-specific throttle can be modified.
- A maximum of 100 log IDs can be configured and filters can be used to specify the application, event ID, event severity, forward or drop the matching event, and so on, by applying those to a set of logs. Each log ID is configured by specifying an event source and the log destination.

**Note:** Logs with ID 99 and 100 are default logs directed to memory that contain the main events. The log with ID 100 has a filter applied to match events with severity greater than or equal to major.

**Example**

```
show log event-control
===============================================================================
Log Events
===============================================================================
Application
 ID#    Event Name                          P    g/s    Logged    Dropped
-------------------------------------------------------------------------------
APPLICATION_ASSURANCE:
   4401 tmnxBsxIsaAaGrpFailureV2          MA   thr         0          0
   4402 tmnxBsxIsaAaGrpFailureClearV2     WA   thr         0          0
<snip>
MOBILE_GATEWAY:
   2001 tmnxMobGwPathMgmtPeerState        WA   thr         0          0
   2002 tmnxMobGwDiameterPeerState        WA   thr         0          0
L  2003 tmnxMobGwCpmRestartUpdate         WA   thr         0          0
...
...
...
===============================================================================
```

- View a specific log event.

```
show log log-id log-id
```

**Example**

```
show log log-id 99
===============================================================================
Event Log 99
===============================================================================
Description : Default System Log
Memory Log contents [size=500 next event=183 (not wrapped)]
182 2017/09/12 18:46:25.66 EDT WARNING: SNMP #2005 Base xyz
"Interface xyz is operational"
```

```
181 2017/09/12 18:45:53.97 EDT WARNING: SNMP #2005 Base system
"Interface system is operational"
```

- View the log collector information.

```
show log log-collector
```

**Example**

```
show log log-collector
===============================================================================
Log Collectors
===============================================================================
Main                 Logged : 191                        Dropped : 0
  Dest Log Id: 99    Filter Id: 0       Status: enabled    Dest Type: memory
  Dest Log Id: 100   Filter Id: 1001    Status: enabled    Dest Type: memory
  Dest Log Id: 90    Filter Id: 0       Status: enabled    Dest Type: snmp
  Dest Log Id: 20    Filter Id: 100     Status: enabled    Dest Type: file
  Dest Log Id: 5     Filter Id: 0       Status: enabled    Dest Type: syslog
Security             Logged : 28 Dropped : 0
  Dest Log Id: 90    Filter Id: 0       Status: enabled    Dest Type: snmp
  Dest Log Id: 20    Filter Id: 100     Status: enabled    Dest Type: file
  Dest Log Id: 5     Filter Id: 0       Status: enabled    Dest Type: syslog
Change               Logged : 451 Dropped : 0
  Dest Log Id: 90    Filter Id: 0       Status: enabled    Dest Type: snmp
  Dest Log Id: 20    Filter Id: 100     Status: enabled    Dest Type: file
  Dest Log Id: 5     Filter Id: 0       Status: enabled    Dest Type: syslog
Debug                Logged : 0 Dropped : 0
LI                   Logged : 65 Dropped : 0
===============================================================================
```

- Create and configure filters.

```
configure log filter filter-id
```

**Note:** The MAG-c also supports log events generated by the 7750 SR OS. See the SR OS documentation for more information about the SNMP notifications from SR OS.

## 2.2 Log event configuration

### 2.2.1 Configuring SNMP as the log destination

*You can specify SNMP as the destination for log events.*

#### About this task

The MAG-c supports SNMPv1, SNMPv2, and SNMPv3 with the underlying system being based on SNMPv3. SNMPv1 and SNMPv2 are implemented by creating communities based on SNMPv3. Logical objects, for example VPRNs and interfaces, are assigned an index during the boot sequence based on their order in the configuration file. To maintain this index after a reboot, SNMP persistence must be enabled in the BOF. When enabled, and an **admin save** command is issued, the persistent indexes are stored in a `.ndx` file, which has the same name as the configuration file.

### Procedure

**Step 1.** Enable persistent indexes in the BOF.

```
bof persist on
```

**Step 2.** Save the BOF.

```
bof save
```

**Step 3.** Configure the SNMP packet size.

```
configure system snmp packet-size bytes
```

**Example**

```
configure system snmp packet-size 9212
```

**Step 4.** Enable SNMP.

```
configure system snmp no shutdown
```

**Step 5.** Configure an SNMP community.

```
configure system security snmp community community-string access-permissions
 version version
```

**Example**

```
configure system security snmp community test rwa version v2c
```

**Step 6.** Save the configuration.

```
admin save
```

**Step 7.** View the SNMP status.

```
show system information
```

If the SNMP configuration is successful, the **SNMP Index Boot Status** field in the output of the command must indicate **Persistent**.

**Example**

```
# show system information
===============================================================================
System Information
===============================================================================
System Name            : cses-V20
System Type            : 7750 SR-12
Chassis Topology       : Standalone
System Version         : B-0.0.I2946
System Contact         :
System Location        :
System Coordinates     :
System Active Slot     : A
System Up Time         : 64 days, 18:33:04.70 (hr:min:sec)
```

```
Configuration-mode     : classic
Configuration-oper-mode: classic
SNMP Port              : 161
SNMP Engine ID         : 0000197f0000d814ff000000
SNMP Engine Boots      : 1
SNMP Max Message Size  : 1500
SNMP Admin State       : Enabled
SNMP Oper State        : Enabled
SNMP Index Boot Status : Persistent
SNMP Sync State        : N/A
...
...
...
===============================================================================
```

**Step 8.** View the SNMP counters used for requests, responses, and traps.

```
show snmp counters
```

**Example**

```
# show snmp counters
===============================================================================
SNMP counters:
===============================================================================
  in packets : 107
-------------------------------------------------------------------------------
    in gets : 46
    in getnexts : 0
    in getbulks : 0
    in sets : 61
  out packets: 107
-------------------------------------------------------------------------------
    out get responses : 107
    out traps : 0
  variables requested: 24
  variables set : 84
-------------------------------------------------------------------------------
  Failed requests due to lock being taken by netconf
    failed sets : 0
===============================================================================
```

## 2.2.2 Configuring an SNMP trap destination

*An SNMP trap destination is a log with SNMP set as the destination.*

### About this task

In this example, the SNMP trap is configured as follows:

- log ID 90
- target name set to “manager”
- IP address 192.0.2.255
- SNMP version SNMPv2
- community name set to “community”

### Procedure

**Step 1.** Create an SNMP trap group.

```
configure log snmp-trap-group log-id
```

**Example**

```
configure log snmp-trap-group 90
```

**Step 2.** Configure the SNMP trap group.

```
snmp-trap-group log-id trap-target name address ip-address [snmpv1|snmpv2|snmpv3]
 notify-community communityName|snmpv3SecurityName
```

**Example**

```
snmp-trap-group 90 trap-target “manager" address 192.0.2.255 snmpv2c notify-community
 community
```

**Step 3.** Create a log ID.

```
configure log log-id
```

Use the log ID configured for the SNMP trap group in step 1.

**Example**

```
configure log 90
```

**Step 4.** Configure the log ID.

```
log-id log-id to snmp size
```

Specify SNMP as the destination and the number of events.

**Example**

```
log-id 90 to snmp 3000
```

**Step 5.** View the configured SNMP trap destination.

```
show log snmp-trap-group log-id
```

**Example**

```
# show log snmp-trap-group 90
===============================================================================
SNMP Trap Groups
===============================================================================
id        name
  port      address
-------------------------------------------------------------------------------
90        manager
  162       192.0.2.255
===============================================================================
```

**Note:** By default, Nokia NSP NFM-P uses log ID 98.

### 2.2.3 Configuring a file as the log destination

*You can specify a file as the log destination.*

#### About this task

The filename follows the format `logeeff-timestamp`, where:

| | |
|---|---|
| **ee** | The log ID (*log-id*) |
| **ff** | The file ID (*log-file-id*) |

In this example, the destination file is configured as follows:

- file ID 10
- storage location CF1:
- rollover of records 1440 minutes and retention 168 hours
- linked to log ID 20, which receives event logs from the main, security, and changed source streams (see Table 2: Log event sources)
- log ID 20 directed to file ID 10

#### Procedure

**Step 1.** Create a log file.

```
configure log file-id log-file-id
```

**Example**

```
configure log file-id 10
```

**Step 2.** Configure the storage location of the log file.

```
configure log file-id log-file-id location
```

**Example**

```
configure log file-id 10 location cf1:
```

**Step 3.** Configure the rollover and retention duration of the log file.

```
configure log file-id log-file-id rollover minutes [retention] hours
```

**Example**

```
configure log file-id 10 rollover 1440 retention 168
```

**Step 4.** Create a log ID.

```
configure log log-id
```

**Example**

```
configure log 20
```

**Step 5.** Configure the source streams for the log ID.

```
configure log log-id from
```

**Example**

```
configure log 20 from main security change
```

**Step 6.** Configure the destination type of the log.

```
configure log log-id to file log-file-id
```

**Example**

```
configure log 20 to file 10
```

### 2.2.4 Configuring a syslog as the log destination

*You can specify a syslog as the log destination.*

#### About this task

In this example, the syslog is configured as follows:

- syslog ID 5
- syslog host address 10.10.1.1
- linked to log ID 5, which receives event logs from the main, security, and changed source streams (see Table 2: Log event sources)

#### Procedure

**Step 1.** Create a syslog.

```
configure log syslog syslog-id
```

**Example**

```
configure log syslog 5
```

**Step 2.** Configure the storage location of the syslog.

```
configure log syslog syslog-id address ip-address
```

**Example**

```
configure log syslog 5 address 10.10.1.1
```

**Step 3.** Create a log ID.

```
configure log log-id
```

**Example**

```
configure log 5
```

**Step 4.** Configure the source streams for the log ID.

```
configure log log-id from
```

**Example**

```
configure log 5 from main security change
```

**Step 5.** Configure the destination type of the log ID.

```
configure log log-id to syslog syslog-id
```

**Example**

```
configure log 5 to syslog 5
```

## 2.2.5 Debugging an application

*You can debug an application using a log with the debug trace specified as the event source. Although you can debug an application in the current session window, using a log as the destination is more useful for reviewing the log.*

### About this task

**Note:** The steps in this section only describe the procedure for configuring a log file that stores the output of debug commands. See the *MAG-c Control Plane Function Guide* for more information about how to enable and use the **call-insight** and PDN **debug** commands.

In this example, application debugging is configured as follows:

- file ID 10
- storage location CF2:
- linked to log ID 30, which receives event logs from the debug trace (see Table 2: Log event sources)
- log ID 30 directed to file ID 10

**Caution:** Debug commands must be used with caution. Nokia recommends disabling debugging after any debug operation has been finished. The **no debug** command disables all the enabled debug commands.

### Procedure

**Step 1.** Create a log file.

```
configure log file-id log-file-id
```

**Example**

```
configure log file-id 10
```

**Step 2.** Configure the storage location of the log file.

```
configure log file-id log-file-id location
```

**Example**

```
configure log file-id 10 location cf2:
```

**Step 3.** Create a log ID.

```
configure log log-id
```

**Example**

```
configure log 30
```

**Step 4.** Configure the source stream for the log ID.

```
configure log log-id from
```

**Example**

```
configure log 30 from debug-trace
```

**Step 5.** Configure the destination type of the log.

```
configure log log-id to file log-file-id
```

**Example**

```
configure log 30 to file 10
```

## 2.3 Sample log event

In this guide, each log event is described in a separate table.

The following table contains a sample log event entry for the tmnxMobGwBngLockoutLimitExceeded log event.

*Table 3: tmnxMobGwBngLockoutLimitExceeded properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2007 |
| Event name | tmnxMobGwBngLockoutLimitExceeded |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.120 |
| Default severity | warning |
| Source stream | main |
| Message format string | The maximum number of BNG sessions in locked-out or monitored state is exceeded *$tmnxMobGwNtfyInformation$* |
| Cause | While the maximum number of BNG sessions in monitored or locked-out state is in use, a new session must be monitored or locked out. |
| Effect | Another session being monitored or locked out is prematurely released to accommodate the new session. |
| Recovery | Recovery is not necessary. |

The table title for a log event entry is the event name. Each entry contains the information described in the following table.

*Table 4: Log entry field descriptions*

| Label | Description |
|---|---|
| Application name | The name of the application generating the log message |
| Event ID | The application event ID number for the event |
| Event name | The name of the event |
| SNMP notification prefix and OID | The prefix and OID of the SNMP notification associated with the log event |
| Default severity | The default severity level of the event<br>• CRITICAL<br>• MAJOR<br>• MINOR<br>• WARNING<br>• INFO<br>• CLEARED |

| Label | Description |
|---|---|
| Source stream | The event source<br>• main<br>• security<br>• change<br>• debug<br>See Table 2: Log event sources for more information. |
| Message format string | A text description of the event |
| Cause | The cause of the event |
| Effect | The effect of the event |
| Recovery | How to recover from this event, if necessary |

# 3 Log events

*Get a summary of the supported alarms and raising events and detailed descriptions per alarm and event object.*

## 3.1 MC_REDUNDANCY

### 3.1.1 tmnxMcMobileBothLockedToMaster

*Table 5: tmnxMcMobileBothLockedToMaster properties*

| Property name | Value |
|---|---|
| Application name | MC_REDUNDANCY |
| Event ID | 5002 |
| Event name | tmnxMcMobileBothLockedToMaster |
| SNMP notification prefix and OID | TIMETRA-MC-REDUNDANCY-MIB.tmnxMcMobRedundancy Notifications.6 |
| Default severity | minor |
| Source stream | main |
| Message format string | For peers *$tmnxMcPeerIpAddrForNotify$* and *$tmnxMcPeerSrcIpAddr $* both nodes locked to the active operational role |
| Cause | A misconfiguration, to enable mc-master-lock on both Primary and Secondary geo-redundancy nodes is ONLY allowed when mc-mobile link between the geo-redundancy nodes is down and both have turned into the active operational role. When the mc-mobile link comes UP, the notification tmnxMcMobileBothLockedToMaster is generated indicating both the Primary and Secondary nodes are locked in the active operational role. Under steady state, that is, mc-mobile link between the geo-redundancy nodes is UP and peering is successful, mc-master-lock CLI configuration is allowed only on the node in the active operational role. |
| Effect | The geo-redundancy link will not be established as these mobile-gateways cannot be peered. |
| Recovery | Diagnose and fix the mc-master-lock misconfiguration. |

### 3.1.2 tmnxMcMobileGeoRedChgInfo

*Table 6: tmnxMcMobileGeoRedChgInfo properties*

| Property name | Value |
|---|---|
| Application name | MC_REDUNDANCY |
| Event ID | 2040 |
| Event name | tmnxMcMobileGeoRedChgInfo |
| SNMP notification prefix and OID | TIMETRA-MC-REDUNDANCY-MIB.tmnxMcMobRedundancy Notifications.2 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw- *$tmnxMcPeerMobileMGId$* ,Src Address- *$tmnxMcPeerSrcIpAddr $*, CPM Geo-Red State-*$tmnxMcPeerMobileMGCPMGeoRedState $*, Mob GW Geo Red State- *$tmnxMcPeerMobileMGGeoRedState $*, Number of Hot Groups-*$tmnxMcPeerMobileMGNumHotGroups$* (*$tmnxMcPeerMGHotGroupList$*), Number Of Warm Groups- *$tmnx McPeerMobileMGNumWarmGroups$* (*$tmnxMcPeerMGWarmGroup List$*), Number Of Cold Groups-*$tmnxMcPeerMobileMGNumCold Groups$* ( *$tmnxMcPeerMGColdGroupList$*), Peer Address-*$tmnx McPeerIpAddr$*, Peer State-*$tmnxMcPeerMobileMGPeerState$*, Peer State Reason- *$tmnxMcPeerMobileMGPeerStChgRsn$* |
| Cause | The chassis or the CPM changed its geo-redundancy state or the peer connection status changed. |
| Effect | If the chassis state or the CPM state has changed to "cold" or "warm" the system is no longer in geo-redundant state. If the peer state is "disconnected" the system is no longer in a geo-redundant state. |
| Recovery | Diagnose what caused this state change. Bring the peer and/or peer-link up and ensure that the chassis and CPM geo-redundancy states are "hot". |

### 3.1.3 tmnxMcMonitorMcIcrAlarm

*Table 7: tmnxMcMonitorMcIcrAlarm properties*

| Property name | Value |
|---|---|
| Application name | MC_REDUNDANCY |
| Event ID | 5001 |

| Property name | Value |
|---|---|
| Event name | tmnxMcMonitorMcIcrAlarm |
| SNMP notification prefix and OID | TIMETRA-MC-REDUNDANCY-MIB.tmnxMcMobRedundancy Notifications.5 |
| Default severity | minor |
| Source stream | main |
| Message format string | The monitor-mc-icr alarm occurred on interface *$vRtrIfIndex$* for the reason *$tmnxMcMonitorMcIcrAlarmRsnCode$*. |
| Cause | Generated with the following reason codes: 1. tmnxMcMonitorMcIcr AlarmRsnCode trafficDetected the reference point traffic detected on the standby node reaches the configured monitor-mc-redirect high threshold vRtrIfMonMcRedirectHighThresh. 2. tmnxMcMonitorMcIcr AlarmRsnCode trafficCleared the reference point traffic is below the configured monitor-mc- redirect low threshold vRtrIfMonMcRedirectLow Thresh. |
| Effect | A network configuration issue or a partial network failure is detected. |
| Recovery | Diagnose and fix the partial network failure. |

## 3.2 MOBILE_CUPS_BNG

### 3.2.1 tmnxMobBngStaticSeOperStateUp

*Table 8: tmnxMobBngStaticSeOperStateUp properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2012 |
| Event name | tmnxMobBngStaticSeOperStateUp |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.150 |
| Default severity | warning |
| Source stream | main |
| Message format string | Static session *$tmnxMobGwNtfySessionName$* is *$tmnxMobGwNtfy TruthValue$*operational |
| Cause | The operational state of a static CUPS BNG session changes. |

| Property name | Value |
|---|---|
| Effect | When the operational state of a static CUPS BNG session is down, the user associated with the session is disconnected. |
| Recovery | The recovery action depends on the cause. |

### 3.2.2 tmnxMobGwBngLockoutLimitExceeded

*Table 9: tmnxMobGwBngLockoutLimitExceeded properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2007 |
| Event name | tmnxMobGwBngLockoutLimitExceeded |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.120 |
| Default severity | warning |
| Source stream | main |
| Message format string | The maximum number of BNG sessions in locked-out or monitored state is exceeded *$tmnxMobGwNtfyInformation$* |
| Cause | While the maximum number of BNG sessions in monitored or locked-out state is in use, a new session must be monitored or locked out. |
| Effect | Another session being monitored or locked out is prematurely released to accommodate the new session. |
| Recovery | Recovery is not necessary. |

### 3.2.3 tmnxMobGwBngNatPrefixRevocation

*Table 10: tmnxMobGwBngNatPrefixRevocation properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2009 |
| Event name | tmnxMobGwBngNatPrefixRevocation |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.133 |

| Property name | Value |
|---|---|
| Default severity | minor |
| Source stream | main |
| Message format string | CUPS BNG NAT Prefix revocation : MSCP *$tmnxMobGwNtfyMscpId $* Realm *$tmnxMobGwNtfyNwRealmName$* pool *$tmnxMobGwNtfy PoolName$* Gw *$tmnxMobGwNtfyGatewayId$*, UP *$tmnxMobGwNtfy UpPeerAddress$*, prefix *$tmnxMobGwNtfyAddr$*/*$tmnxMobGwNtfyPfx Length$*, reason ' *$tmnxMobGwNtfyRevocationReason$*' |
| Cause | An error occurred during NAT audit between MSCP and OAM or ODSA can't ack the prefix. |
| Effect | The session will be deleted. |
| Recovery | N/A |

### 3.2.4 tmnxMobGwBngResFsgUpfChange

*Table 11: tmnxMobGwBngResFsgUpfChange properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2010 |
| Event name | tmnxMobGwBngResFsgUpfChange |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.134 |
| Default severity | warning |
| Source stream | main |
| Message format string | UP resiliency: UP change: Gw *$tmnxMobGwNtfyGatewayId$*, UP group *$tmnxMobGwNtfyCupsBngUpGroup$*, FSG *$tmnxMobGwNtfy FsgId$*, primary UP *$tmnxMobGwNtfyUpf1$* (health *$tmnxMobGwNtfy Upf1Health$*), secondary UP *$tmnxMobGwNtfyUpf2$* (health *$tmnx MobGwNtfyUpf2Health$*), previous primary UP *$tmnxMobGwNtfy Upf1Prev$*, previous secondary UP *$tmnxMobGwNtfyUpf2Prev$* |
| Cause | The value of TIMETRA-MOBILE-PDN-MIB::tmnxMobPdnBngResFsg PrimUpf or TIMETRA-MOBILE-PDN-MIB::tmnxMobPdnBngResFsgSec Upf has changed. |
| Effect | If it is the primary UPF that changed, the traffic associated with this Fate Sharing Group is now going through another UPF system. If it is the secondary UPF that changed and if the pair is hot-standby, another UPF system now keeps track of sessions state. |

| Property name | Value |
|---|---|
| Recovery | No recovery actions are required. |

### 3.2.5 tmnxMobGwBngResFsgUpfError

*Table 12: tmnxMobGwBngResFsgUpfError properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2011 |
| Event name | tmnxMobGwBngResFsgUpfError |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.149 |
| Default severity | warning |
| Source stream | main |
| Message format string | UP resiliency: UP error: Gw *$tmnxMobGwNtfyGatewayId$*, UP group *$tmnxMobGwNtfyCupsBngUpGroup$*, FSG *$tmnxMobGwNtfyFsgId$*, *$tmnxMobGwNtfyTruthValue$* UP *$tmnxMobGwNtfyUpf1$*: *$tmnxMobGwNtfyError$$tmnxMobGwNtfyInformation$* |
| Cause | This system, acting as a CUPS Control Plane, has requested a UP to modify (including create/delete) a Fate Sharing Group, and the UP reported an error. |
| Effect | If the UP is the active UPF for this Fate Sharing Group, the role of active UPF is transferred to the UPF that was previously the active UPF. |
| Recovery | No recovery actions are required. |

### 3.2.6 tmnxMobGwBngSessCreateUpfNonResp

*Table 13: tmnxMobGwBngSessCreateUpfNonResp properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2002 |
| Event name | tmnxMobGwBngSessCreateUpfNonResp |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.106 |

| Property name | Value |
|---|---|
| Default severity | minor |
| Source stream | main |
| Message format string | CUPS BNG Session create UP non-response for: Gw *$tmnxMobGwNtfyGatewayId$*, VRtr *$tmnxMobGwNtfyVrtrId$*, UP *$tmnxMobGwNtfyUpPeerAddress$*, node-ID *$tmnxMobGwNtfyPeerNodeId$*, session key: L2-access-id *$tmnxMobGwNtfyCupsBngSessKeyL2Acc$*, s-vlan *$tmnxMobGwNtfyCupsBngSessKeySVlan$*, c-vlan *$tmnxMobGwNtfyCupsBngSessKeyCVlan$*, mac *$tmnxMobGwNtfyCupsBngSessKeyMac$*, circuit-id '0x*$tmnxMobGwNtfyCupsBngSessKeyCirId$*', remote-id '0x *$tmnxMobGwNtfyCupsBngSessKeyRemId$*' |
| Cause | A Create Session Request sent to the UP is not acknowledged with a response message. |
| Effect | The session in setup is cancelled on the CP. The UP might have a lingering session state. |
| Recovery | The operator's assistance is needed to remove any session state lingering on the UP. |

### 3.2.7 tmnxMobGwBngSessDuplAttr

*Table 14: tmnxMobGwBngSessDuplAttr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2008 |
| Event name | tmnxMobGwBngSessDuplAttr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.132 |
| Default severity | minor |
| Source stream | main |
| Message format string | CUPS BNG Session setup duplicate session identification attribute detected: Gw *$tmnxMobGwNtfyGatewayId$*, VRtr *$tmnxMobGwNtfyVrtrId$*, UP *$tmnxMobGwNtfyUpPeerAddress$*, node-ID *$tmnxMobGwNtfyPeerNodeId$*, L2-access-id *$tmnxMobGwNtfyCupsBngSessKeyL2Acc$*, s-vlan *$tmnxMobGwNtfyCupsBngSessKeySVlan$*, c-vlan *$tmnxMobGwNtfyCupsBngSessKeyCVlan$*, mac *$tmnxMobGwNtfyCupsBngSessKeyMac$*, circuit-id '0x*$tmnxMobGwNtfyCupsBngSessKeyCirId$*', remote-id '0x *$tmnxMobGwNtfyCupsBngSessKeyRemId$*', up-group '*$tmnxMobGwNtfyCupsBngUpGroup$*' |

| Property name | Value |
|---|---|
| Cause | A session is setup with attributes which conflict with other active sessions' unique session identification attributes or attribute combinations. |
| Effect | The setup session is not available for external targeting based on session attribute identification. |
| Recovery | In case external targeting capability is required, the operator's assistance is needed to clear the session. |

### 3.2.8 tmnxMobGwBngSessTermBySystem

*Table 15: tmnxMobGwBngSessTermBySystem properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2001 |
| Event name | tmnxMobGwBngSessTermBySystem |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.105 |
| Default severity | warning |
| Source stream | main |
| Message format string | CUPS BNG session terminated by the system: Reason *$tmnxMobGwNtfyCupsBngSessTermReas$*, extra info '*$tmnxMobGwNtfyCupsBngSessTermInfo$*', Gw *$tmnxMobGwNtfyGatewayId$*, VRtr *$tmnxMobGwNtfyVrtrId$*, UP-ip *$tmnxMobGwNtfyUpPeerAddress$*, L2-access-id *$tmnxMobGwNtfyCupsBngSessKeyL2Acc$*, s-vlan *$tmnxMobGwNtfyCupsBngSessKeySVlan$*, c-vlan *$tmnxMobGwNtfyCupsBngSessKeyCVlan$*, mac *$tmnxMobGwNtfyCupsBngSessKeyMac$*, circuit-id '0x *$tmnxMobGwNtfyCupsBngSessKeyCirId$*', remote-id '0x*$tmnxMobGwNtfyCupsBngSessKeyRemId$*', up-group ' *$tmnxMobGwNtfyCupsBngUpGroup$*' |
| Cause | The system found a reason, as indicated by tmnxMobGwNtfyCupsBngSessTermReas for terminating a session. |
| Effect | The established session is terminated or the session in setup is cancelled. |
| Recovery | None. |

### 3.2.9 tmnxMobGwBngSubscriberCreate

*Table 16: tmnxMobGwBngSubscriberCreate properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2003 |
| Event name | tmnxMobGwBngSubscriberCreate |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.111 |
| Default severity | warning |
| Source stream | main |
| Message format string | CUPS BNG new subscriber created: Sub-Id '*$tmnxMobGwNtfyCupsBngSubId$*', externally assigned alias (if any) ' *$tmnxMobGwNtfyCupsBngSubExtAlias$*, UP IP *$tmnxMobGwNtfyAddr$*' |
| Cause | A session setup, for which there wasn't any subscriber state yet, is successful. |
| Effect | The subscriber state is created. |
| Recovery | Not applicable. |

### 3.2.10 tmnxMobGwBngSubscriberDelete

*Table 17: tmnxMobGwBngSubscriberDelete properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_CUPS_BNG |
| Event ID | 2004 |
| Event name | tmnxMobGwBngSubscriberDelete |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.112 |
| Default severity | warning |
| Source stream | main |
| Message format string | CUPS BNG subscriber deleted: Sub-Id '*$tmnxMobGwNtfyCupsBngSubId$*', externally assigned alias (if any) ' *$tmnxMobGwNtfyCupsBngSubExtAlias$*, UP IP *$tmnxMobGwNtfyAddr$*' |

| Property name | Value |
|---|---|
| Cause | A session termination of the last session belonging to an active subscriber. |
| Effect | The subscriber state is deleted. |
| Recovery | Not applicable. |

## 3.3 MOBILE_GATEWAY

### 3.3.1 tmnxMcRedundancyTrafficReceived

*Table 18: tmnxMcRedundancyTrafficReceived properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2084 |
| Event name | tmnxMcRedundancyTrafficReceived |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.82 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Ref point-*$tmnxMobGwNtfy RefPointType$*, RefPointName- *$tmnxMobGwNtfyRefPointName$*, InterfaceType-*$tmnxMobGwNtfyIfType$*. |
| Cause | Traffic is detected at the ICR node due to a network issue. |
| Effect | When traffic comes to the ICR node, it is dropped if traffic redirection, which means shunting, is not used. If shunting is used, then the traffic is forwarded accordingly. |
| Recovery | Check the cause of routing change in the network and fix it if possible. If the traffic can not be directed back, but the whole routing works towards the node, perform an ICR switchover. |

### 3.3.2 tmnxMobDbRedRoleActive

*Table 19: tmnxMobDbRedRoleActive properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2151 |
| Event name | tmnxMobDbRedRoleActive |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.153 |
| Default severity | warning |
| Source stream | main |
| Message format string | Database *$tmnxMobDbId$* with IP address *$tmnxMobDbIpAddr$* is now active |
| Cause | The redundancy role of a database has changed from 'standby' to 'active'. |
| Effect | The database is actively being used. |
| Recovery | Not applicable. |

### 3.3.3 tmnxMobDbStatusChanged

*Table 20: tmnxMobDbStatusChanged properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2152 |
| Event name | tmnxMobDbStatusChanged |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.154 |
| Default severity | minor |
| Source stream | main |
| Message format string | Database *$tmnxMobDbId$* with IP address *$tmnxMobDbIpAddr$* is now *$tmnxMobDbStatus$* |
| Cause | The state of a database has changed. |

| Property name | Value |
|---|---|
| Effect | When the new state is 'up', the connection with the database is available. When the new state is 'down', the connection with the database is not available. |
| Recovery | If the new state is 'down' and there is no subsequent 'tmnxMobDbRed RoleActive' notification, an ICR switchover is recommended. |

### 3.3.4 tmnxMobGwApnMaxAttachLmtAlrm

*Table 21: tmnxMobGwApnMaxAttachLmtAlrm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2124 |
| Event name | tmnxMobGwApnMaxAttachLmtAlrm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.124 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApn Name$*, attach request rate reached maximum limit. |
| Cause | The GTP-based attach rate exceeds the configurable max-session-attach limit for tmnxMobGwNtfyApnName is reached |
| Effect | If there is a new GTP-based attach and attach rate has been exceeded, the new attach will be rejected. |
| Recovery | The alarm is cleared when the rate goes back below the limit. |

### 3.3.5 tmnxMobGwApnMaxAttachLmtAlrmClr

*Table 22: tmnxMobGwApnMaxAttachLmtAlrmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2125 |
| Event name | tmnxMobGwApnMaxAttachLmtAlrmClr |

| Property name | Value |
|---|---|
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.125 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApn Name$*, attach request rate goes below maximum limit. |
| Cause | The GTP-based attach rate drops below the configurable limit max-session-attach limit for this tmnxMobGwNtfyApnName. |
| Effect | The GTP-based attach rate drops below the configurable limit. |
| Recovery | No further action required. |

### 3.3.6 tmnxMobGwAssociationPeerState

*Table 23: tmnxMobGwAssociationPeerState properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2075 |
| Event name | tmnxMobGwAssociationPeerState |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.73 |
| Default severity | minor |
| Source stream | main |
| Message format string | Association state changed to *$tmnxMobGwNtfyPeerAssociatnState$* for *$tmnxMobGwNtfySigPlaneType$* Peer *$tmnxMobGwNtfyPeerNode Id$* on GW *$tmnxMobGwNtfyGatewayId$* Reference Point *$tmnxMob GwNtfyRefPointType$ $tmnxMobGwNtfyRefPointName$* (IP Address: *$tmnxMobGwNtfyRfPtPeerAddr$*). Recovery Time: *$tmnxMobGwNtfy RecoveryTimestamp$* cp func *$tmnxMobGwNtfyPeerCPFuncFeatures $* up func *$tmnxMobGwNtfyPeerUPFuncFeatures$* bbf up func *$tmnx MobGwNtfyPeerBbfUPFuncFeats$* |
| Cause | The Association state changes when the association is either setup or released. The association can be setup/released by association related Node level messages triggered by either the gateway or the peer. Association Messages are initiated by the gateway if the peer is configured in the association Peer list. |

| Property name | Value |
|---|---|
| Effect | Path management for PFCP peers and UPF selection can occur after the association is established. Path management or UPF selection will not happen in case of association down. |
| Recovery | If the association state is down and the release was initiated by the Gateway, the Gateway must come up for the association to be reestablished. If the release was initiated by the peer, the peer will trigger the setup when it comes up again. |

### 3.3.7 tmnxMobGwAssocNodeIdFail

*Table 24: tmnxMobGwAssocNodeIdFail properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2121 |
| Event name | tmnxMobGwAssocNodeIdFail |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.121 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, epc-node not configured for *$tmnxMobGwPdnNtfySxAssociation$* |
| Cause | PFCP Association Setup failure to establish due to Node ID missing. |
| Effect | PFCP Association Setup procedure will continue to fail to peer node while Node ID is missing. |
| Recovery | Configure a valid string for epc-node under the context configure mobile-gateway pdn. |

### 3.3.8 tmnxMobGwAssocNodeIdFailClr

*Table 25: tmnxMobGwAssocNodeIdFailClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2123 |

| Property name | Value |
|---|---|
| Event name | tmnxMobGwAssocNodeIdFailClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.123 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, configured epc-node re-established for *$tmnxMobGwPdnNtfySxAssociation$* |
| Cause | PFCP Association Setup re-established after node id is present. |
| Effect | There is no effect for this notification. |
| Recovery | No further action is required. |

### 3.3.9 tmnxMobGwAssocNodeIdMismatch

*Table 26: tmnxMobGwAssocNodeIdMismatch properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2143 |
| Event name | tmnxMobGwAssocNodeIdMismatch |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.143 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, node ID mismatched for *$tmnx MobGwPdnNtfySxAssociation$* PFCP association setup |
| Cause | PFCP Association Setup failure to establish due to mismatch of the provided node ID value from all of the PFCP association peer list configuration. |
| Effect | PFCP Association Setup procedure will continue to fail the peer node while node ID provided continues to mismatch to any entry in the association list. |
| Recovery | Provide a valid node ID configuration entry for the peer list configuration based on the node ID in the PFCP association. |

### 3.3.10 tmnxMobGwAssocNodeIdMismatchClr

*Table 27: tmnxMobGwAssocNodeIdMismatchClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2144 |
| Event name | tmnxMobGwAssocNodeIdMismatchClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.144 |
| Default severity | cleared |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, node ID match found for *$tmnx MobGwPdnNtfySxAssociation$* PFCP association |
| Cause | PFCP Association Setup is re-established after the node id provided matches with a valid peer list configuration. |
| Effect | PFCP Association Setup is established. |
| Recovery | No further action is required. |

### 3.3.11 tmnxMobGwAssocPfcpNdIdIpTypErClr

*Table 28: tmnxMobGwAssocPfcpNdIdIpTypErClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2146 |
| Event name | tmnxMobGwAssocPfcpNdIdIpTypErClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.146 |
| Default severity | cleared |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, PFCP node ID IP type match occurred after a prior mismatch for *$tmnxMobGwPdnNtfySxAssociation $* PFCP association |

| Property name | Value |
|---|---|
| Cause | PFCP Association Setup is re-established after the node ID IP-type value provided matches with a valid Sx reference point peer interface address configuration. |
| Effect | PFCP Association Setup is established. |
| Recovery | No further action is required. |

### 3.3.12 tmnxMobGwAssocPfcpNodeIdIpTypErr

*Table 29: tmnxMobGwAssocPfcpNodeIdIpTypErr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2145 |
| Event name | tmnxMobGwAssocPfcpNodeIdIpTypErr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.145 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw - *$tmnxMobGwNtfyGatewayId$*, pfcp node ID IP type mismatched for *$tmnxMobGwPdnNtfySxAssociation$* PFCP association |
| Cause | PFCP Association Setup failure to establish due to mismatch of the provided node ID IP-type value with all the configured Sx reference point entry interface address types. |
| Effect | PFCP Association Setup procedure will continue to fail while the PFCP node ID IP-type provided continues to mismatch to any address in all the Sx reference point interface configuration. |
| Recovery | To provide a valid node ID IP-type configuration in the TIMETRA-MOBILE-PDN-MIB::tmnxMobPdnPfcpNodeIdIpType or create an equivalent IP-type address interface configuration of the Sx reference point configuration. |

### 3.3.13 tmnxMobGwBngChfFailAlmClr

*Table 30: tmnxMobGwBngChfFailAlmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2156 |
| Event name | tmnxMobGwBngChfFailAlmClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.158 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the CHF failure handling threshold alarm is cleared because upper limit of *$tmnxMobGwNtfyFhAlarm LowerThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The lower threshold limit of the CHF failure handling threshold has been reached. |
| Effect | Enough sessions (determined by the threshold) have recovered from failure handling and are being fully charged again. |
| Recovery | Not applicable. |

### 3.3.14 tmnxMobGwBngChfFailAlmSet

*Table 31: tmnxMobGwBngChfFailAlmSet properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2155 |
| Event name | tmnxMobGwBngChfFailAlmSet |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.157 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the CHF failure handling threshold alarm is set because upper limit of *$tmnxMobGwNtfyFhAlarmUpperThr* |

| Property name | Value |
|---|---|
| | *$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The upper threshold limit of the CHF failure handling threshold has been reached. |
| Effect | A signifcant number of sessions (determined by the threshold) have entered failure handling and are not being charged as intended. |
| Recovery | Restore the CHF servers to provide full connectivity and functionality. |

### 3.3.15 tmnxMobGwBngPcfFailAlmClr

*Table 32: tmnxMobGwBngPcfFailAlmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2158 |
| Event name | tmnxMobGwBngPcfFailAlmClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.160 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the PCF failure handling threshold alarm is cleared because upper limit of *$tmnxMobGwNtfyFhAlarm LowerThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The lower threshold limit of the PCF failure handling threshold has been reached. |
| Effect | Enough sessions (determined by the threshold) have recovered from failure handling and are being fully charged again. |
| Recovery | Not applicable. |

### 3.3.16 tmnxMobGwBngPcfFailAlmSet

*Table 33: tmnxMobGwBngPcfFailAlmSet properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2157 |
| Event name | tmnxMobGwBngPcfFailAlmSet |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.159 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the PCF failure handling threshold alarm is set because upper limit of *$tmnxMobGwNtfyFhAlarmUpperThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The upper threshold limit of the PCF failure handling threshold has been reached. |
| Effect | A signifcant number of sessions (determined by the threshold) have entered failure handling and are not being charged as intended. |
| Recovery | Restore the PCF servers to provide full connectivity and functionality. |

### 3.3.17 tmnxMobGwBngUdmSdmFailAlmClr

*Table 34: tmnxMobGwBngUdmSdmFailAlmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2160 |
| Event name | tmnxMobGwBngUdmSdmFailAlmClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.162 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the UDM SDM failure handling threshold alarm is cleared because upper limit of *$tmnxMobGwNtfy* |

| Property name | Value |
|---|---|
| | *FhAlarmLowerThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The lower threshold limit of the UDM failure handling threshold has been reached. |
| Effect | Enough sessions (determined by the threshold) have recovered from failure handling and are being fully charged again. |
| Recovery | Not applicable. |

### 3.3.18 tmnxMobGwBngUdmSdmFailAlmSet

*Table 35: tmnxMobGwBngUdmSdmFailAlmSet properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2159 |
| Event name | tmnxMobGwBngUdmSdmFailAlmSet |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.161 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the UDM SDM failure handling threshold alarm is set because upper limit of *$tmnxMobGwNtfyFhAlarmUpperThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The upper threshold limit of the UDM failure handling threshold has been reached. |
| Effect | A signifcant number of sessions (determined by the threshold) have entered failure handling and are not being charged as intended. |
| Recovery | Restore the UDM servers to provide full connectivity and functionality. |

### 3.3.19 tmnxMobGwBngUdmUecmFailAlmClr

*Table 36: tmnxMobGwBngUdmUecmFailAlmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2162 |
| Event name | tmnxMobGwBngUdmUecmFailAlmClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.164 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the UDM UECM failure handling threshold alarm is cleared because upper limit of *$tmnxMobGwNtfy FhAlarmLowerThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The lower threshold limit of the UDM UECM failure handling threshold has been reached. |
| Effect | Enough sessions (determined by the threshold) have recovered from failure handling and are being fully charged again. |
| Recovery | Not applicable. |

### 3.3.20 tmnxMobGwBngUdmUecmFailAlmSet

*Table 37: tmnxMobGwBngUdmUecmFailAlmSet properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2161 |
| Event name | tmnxMobGwBngUdmUecmFailAlmSet |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.163 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, the UDM UECM failure handling threshold alarm is set because upper limit of *$tmnxMobGwNtfyFhAlarm* |

| Property name | Value |
|---|---|
| | *UpperThr$*% is reached for APN *$tmnxMobGwNtfyApnName$* on VM-*$tmnxMobGwNtfyVmId$* |
| Cause | The upper threshold limit of the UDM UECM failure handling threshold has been reached. |
| Effect | A signifcant number of sessions (determined by the threshold) have entered failure handling and are not being charged as intended. |
| Recovery | Restore the UDM servers to provide full connectivity and functionality. |

### 3.3.21 tmnxMobGwCfCapacityAlarmMinor

*Table 38: tmnxMobGwCfCapacityAlarmMinor properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2011 |
| Event name | tmnxMobGwCfCapacityAlarmMinor |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.7 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Flash ID- *$tmnxMobGwNtfyFlash Id$*, Flash Limit-*$tmnxMobGwNtfyCfLimit$*, GTP Prime Server Group-*$tmnxMobGwNtfyGtpPriGrpName$*. |
| Cause | The compact flash capacity reaches the 85% limit. |
| Effect | N/A |
| Recovery | N/A |

### 3.3.22 tmnxMobGwCfCapacityAlmMjrClear

*Table 39: tmnxMobGwCfCapacityAlmMjrClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2014 |

| Property name | Value |
|---|---|
| Event name | tmnxMobGwCfCapacityAlmMjrClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.10 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Flash ID- *$tmnxMobGwNtfyFlash Id$*, Flash Limit-*$tmnxMobGwNtfyCfLimit$*, GTP Prime Server Group-*$tmnxMobGwNtfyGtpPriGrpName$*. |
| Cause | The compact flash capacity drops below the 90% limit. |
| Effect | N/A |
| Recovery | N/A |

### 3.3.23 tmnxMobGwCfCapacityAlmMnrClear

*Table 40: tmnxMobGwCfCapacityAlmMnrClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2012 |
| Event name | tmnxMobGwCfCapacityAlmMnrClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.8 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Flash ID- *$tmnxMobGwNtfyFlash Id$*, Flash Limit-*$tmnxMobGwNtfyCfLimit$*, GTP Prime Server Group-*$tmnxMobGwNtfyGtpPriGrpName$*. |
| Cause | The compact flash capacity drops below the 80% limit. |
| Effect | N/A |
| Recovery | N/A |

### 3.3.24 tmnxMobGwCntrlFabricPartialFail

*Table 41: tmnxMobGwCntrlFabricPartialFail properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2100 |
| Event name | tmnxMobGwCntrlFabricPartialFail |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.98 |
| Default severity | minor |
| Source stream | main |
| Message format string | Detected *$tmnxMobGwNtfyFailureDirection$* failure for slot *$tmnxMobGwNtfySlot$* on control fabric *$tmnxMobGwNtfyFabricId$* |
| Cause | A tmnxMobGwCntrlFabricPartialFail is generated when a card loses connectivity to other cards in a particular direction over a particular control fabric. The card ID is indicated in tmnxMobGwNtfySlot, the failed fabric ID is indicated in tmnxMobGwNtfyFabricId and the direction of the failure (transmit/receive) is indicated in tmnxMobGwNtfyFailureDirection. |
| Effect | The system uses a different control fabric that is operational to communicate with the affected card. |
| Recovery | Manual intervention may be required to restore the connectivity. |

### 3.3.25 tmnxMobGwControlFabricFailure

*Table 42: tmnxMobGwControlFabricFailure properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2101 |
| Event name | tmnxMobGwControlFabricFailure |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.99 |
| Default severity | minor |
| Source stream | main |

| Property name | Value |
|---|---|
| Message format string | Detected *$tmnxMobGwNtfyFailureDirection$* failure for slot *$tmnxMobGwNtfySlot$* on all control fabrics |
| Cause | A loss of connectivity to other cards in a particular direction over all available control fabrics. |
| Effect | The card cannot function properly as part of the system. |
| Recovery | Attempt to restore connectivity by rebooting the affected card. |

### 3.3.26 tmnxMobGwDdnThrottlingStart

*Table 43: tmnxMobGwDdnThrottlingStart properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2033 |
| Event name | tmnxMobGwDdnThrottlingStart |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.29 |
| Default severity | warning |
| Source stream | main |
| Message format string | Acct Application: Throttling DDN: Gw- *$tmnxMobGwNtfyGatewayId$*, Ref point-*$tmnxMobGwNtfyRefPointType$*, Ref protocol-*$tmnxMobGwNtfyRefPointProtocol$*, RefPointName- *$tmnxMobGwNtfyRefPointName$*, address type-*$tmnxMobGwNtfyRfPtPeerAddrType$*, peer address-*$tmnxMobGwNtfyRfPtPeerAddr$*, port- *$tmnxMobGwNtfyRfPtPeerPort$*, duration-*$tmnxMobGwNtfyDdnThrotDuration$*, factor-*$tmnxMobGwNtfyDdnThrotFactor$* |
| Cause | The SGW starts throttling the DDN when it receives a throttling instruction carried in the "downlink (DL) low priority traffic Throttling" IE from a peer node. |
| Effect | The SGW starts throttling the DDN based on a priority threshold value. The traffic with a priority value higher than or equal to the threshold value is considered as a bearer for non-priority traffic. |
| Recovery | When the throttling time is over, the SGW stops throttling the DDN. |

### 3.3.27 tmnxMobGwDdnThrottlingStop

*Table 44: tmnxMobGwDdnThrottlingStop properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2034 |
| Event name | tmnxMobGwDdnThrottlingStop |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.30 |
| Default severity | warning |
| Source stream | main |
| Message format string | Acct Application: Throttling DDN: Gw- *$tmnxMobGwNtfyGatewayId$*, Ref point-*$tmnxMobGwNtfyRefPointType$*, Ref protocol-*$tmnxMobGwNtfyRefPointProtocol$*, RefPointName- *$tmnxMobGwNtfyRefPointName$*, address type-*$tmnxMobGwNtfyRfPtPeerAddrType$*, peer address-*$tmnxMobGwNtfyRfPtPeerAddr$*, port- *$tmnxMobGwNtfyRfPtPeerPort$*, duration-*$tmnxMobGwNtfyDdnThrotDuration$*, factor-*$tmnxMobGwNtfyDdnThrotFactor$* |
| Cause | The SGW stops throttling the DDN when the throttling time is over. |
| Effect | The SGW stops throttling the DDN based on a priority threshold value. All DDNs are sent to the peer node. |
| Recovery | When another throttling instruction is received from a peer node, the SGW starts throttling the DDN. |

### 3.3.28 tmnxMobGwDnsSnpFqdnIpLimitAlarm

*Table 45: tmnxMobGwDnsSnpFqdnIpLimitAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2102 |
| Event name | tmnxMobGwDnsSnpFqdnIpLimitAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.100 |
| Default severity | minor |
| Source stream | main |

| Property name | Value |
|---|---|
| Message format string | Gw:*$tmnxMobGwNtfyGatewayId$* Number of server addresses learned by DNS Snooping reached *$tmnxMobGwDnsSnpFqdnThres$* % of maximum *$tmnxMobGwDnsSnpFqdnIpMax$* |
| Cause | The number of stored DNS resolved IP addresses approaches a threshold limit of the maximum number of cacheable addresses. The threshold in percentage is indicated by tmnxMobGwDnsSnpFqdnThres and the maximum size of stored IP addresses is indicated by the tmnx MobGwDnsSnpFqdnIpMax value. |
| Effect | The PGW may reach the maximum limit and may not be able to store new IP addresses. |
| Recovery | The operator assistance is needed to clear the resolved filters for the specified FQDN list. |

### 3.3.29 tmnxMobGwLciOverload

*Table 46: tmnxMobGwLciOverload properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2080 |
| Event name | tmnxMobGwLciOverload |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.78 |
| Default severity | minor |
| Source stream | main |
| Message format string | Mobile Gateway in GTP-C LCI 100% |
| Cause | The resources for the mobile gateway group have reached their limit. |
| Effect | The mobile gateway group resources are at critical levels. The system will attempt to lower resource usage on this mobile gateway group. |
| Recovery | None |

### 3.3.30 tmnxMobGwLciOverloadClear

*Table 47: tmnxMobGwLciOverloadClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2081 |
| Event name | tmnxMobGwLciOverloadClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.79 |
| Default severity | minor |
| Source stream | main |
| Message format string | Mobile Gateway GTP-C no longer at LCI 100% |
| Cause | The resources for the mobile gateway group are back to the normal operating levels. |
| Effect | The mobile gateway group is back to the normal operating levels. |
| Recovery | None, the system is back to the normal operating levels. |

### 3.3.31 tmnxMobGwMcRedPurgeRebootStandby

*Table 48: tmnxMobGwMcRedPurgeRebootStandby properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2063 |
| Event name | tmnxMobGwMcRedPurgeRebootStandby |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.61 |
| Default severity | minor |
| Source stream | main |
| Message format string | MC_RED purge: Active card- *$tmnxMobGwNtfyActiveCardSlotNum$* initialized reboot on standby card-*$tmnxMobGwNtfyStandbyCardSlotNum$* |

| Property name | Value |
|---|---|
| Cause | In the case of a multi-chassis redundancy purge, if the RED state is not 'hot', the active card initializes a reboot on the standby card after the purge finishes on the active card. |
| Effect | The standby card reboots. |
| Recovery | No further action is required. |

### 3.3.32 tmnxMobGwNnrfBlocklistAlarm

*Table 49: tmnxMobGwNnrfBlocklistAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2126 |
| Event name | tmnxMobGwNnrfBlocklistAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.126 |
| Default severity | warning |
| Source stream | main |
| Message format string | NRF peer for service *$tmnxMobGwNtfyNnrfServiceType$* on GW-*$tmnxMobGwNtfyGatewayId$* is block-listed |
| Cause | All the NRF peers for service nnrf-nfm or nnrf-disc are block-listed after failure responses or response timeouts. |
| Effect | The block list duration is not applied. All NRF peers are sending failure responses or the responses time out. The Gateway continuously retries service requests to all peers. |
| Recovery | The alarm is cleared when the first NRF peer from the block list is successfully contacted (a success HTTP status is received). |

### 3.3.33 tmnxMobGwNnrfBlocklistAlarmClear

*Table 50: tmnxMobGwNnrfBlocklistAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2127 |

| Property name | Value |
|---|---|
| Event name | tmnxMobGwNnrfBlocklistAlarmClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.127 |
| Default severity | warning |
| Source stream | main |
| Message format string | NRF peer for service *$tmnxMobGwNtfyNnrfServiceType$* on GW-*$tmnxMobGwNtfyGatewayId$* is no longer block-listed |
| Cause | All the NRF peers for service nnrf-nfm or nnrf-disc are no longer block-listed. |
| Effect | The block list duration is applied. |
| Recovery | No further action required. |

### 3.3.34 tmnxMobGwNrfHeartbeatAlarm

*Table 51: tmnxMobGwNrfHeartbeatAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2094 |
| Event name | tmnxMobGwNrfHeartbeatAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.90 |
| Default severity | major |
| Source stream | main |
| Message format string | NRF heartbeat failed for peer *$tmnxMobGwNtfyRfPtPeerAddr$* on GW *$tmnxMobGwNtfyGatewayId$* with error: *$tmnxMobGwNtfyNrfHbAlarmReason$* |
| Cause | Loss of connectivity to the NRF, NRF failure. |
| Effect | The NRF does not consider MAG-c SMF or UPF to be registered and eligible for discovery anymore. The NRF may also consider the MAG-c SMF or UPF to be out of service and notify the subscribed peer NF instances. |
| Recovery | Recovery is TBD according to failure handling of failed HB responses and failover to next NRF is concluded. |

### 3.3.35 tmnxMobGwNrfHeartbeatAlarmClear

*Table 52: tmnxMobGwNrfHeartbeatAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2095 |
| Event name | tmnxMobGwNrfHeartbeatAlarmClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.91 |
| Default severity | major |
| Source stream | main |
| Message format string | NRF heartbeat succeeded for peer *$tmnxMobGwNtfyRfPtPeerAddr$* on GW *$tmnxMobGwNtfyGatewayId$* with error: *$tmnxMobGwNtfyNrfHbAlarmReason$* |
| Cause | Successful Heartbeat message request/response sequence with NRF. |
| Effect | The NRF considers MAG-c SMF or UPF to be registered and eligible for discovery. |
| Recovery | No further action is required. |

### 3.3.36 tmnxMobGwOciOverload

*Table 53: tmnxMobGwOciOverload properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2082 |
| Event name | tmnxMobGwOciOverload |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.80 |
| Default severity | major |
| Source stream | main |
| Message format string | Mobile Gateway in GTP-C OCI overload |
| Cause | The resources for the mobile gateway group have been almost exhausted due to high load. |

| Property name | Value |
|---|---|
| Effect | The mobile gateway group resources are at critical levels. The system will attempt to lower resource usage on this mobile gateway group. |
| Recovery | None. |

### 3.3.37 tmnxMobGwOciOverloadClear

*Table 54: tmnxMobGwOciOverloadClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2083 |
| Event name | tmnxMobGwOciOverloadClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.81 |
| Default severity | major |
| Source stream | main |
| Message format string | Mobile Gateway no longer in GTP-C overload |
| Cause | The resources for the mobile gateway group are back to the normal operating levels. |
| Effect | The mobile gateway group is back to the normal operating levels. |
| Recovery | None, the system is back to the normal operating levels. |

### 3.3.38 tmnxMobGwOciOvldThrtStart

*Table 55: tmnxMobGwOciOvldThrtStart properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2103 |
| Event name | tmnxMobGwOciOvldThrtStart |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.101 |
| Default severity | major |
| Source stream | main |

| Property name | Value |
|---|---|
| Message format string | The mobile gateway has started throttling incoming call flows due to local overload. |
| Cause | The resources for the mobile gateway group have been almost exhausted due to high load. |
| Effect | The mobile gateway group resources are at critical level. The system attempts to lower the resource usage on this mobile gateway group. |
| Recovery | The mobile-gateway stops throttling incoming call flows when it is out of local overload. |

### 3.3.39 tmnxMobGwOciOvldThrtStop

*Table 56: tmnxMobGwOciOvldThrtStop properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2104 |
| Event name | tmnxMobGwOciOvldThrtStop |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.102 |
| Default severity | major |
| Source stream | main |
| Message format string | The mobile gateway has stopped throttling incoming call flows due to local overload. |
| Cause | Either incoming call flows are not received for the last 30 seconds, or the resources for the mobile gateway group are back to normal operating levels in the last 30 seconds. |
| Effect | The mobile gateway is no longer throttling incoming call flows due local overload. |
| Recovery | Not applicable. |

### 3.3.40 tmnxMobGwPathMgmtPeerState

*Table 57: tmnxMobGwPathMgmtPeerState properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2001 |
| Event name | tmnxMobGwPathMgmtPeerState |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.1 |
| Default severity | major |
| Source stream | main |
| Message format string | Path Management: Peer State: *$tmnxMobGwNtfyPathMgmtPeerState $*: Gw-*$tmnxMobGwNtfyGatewayId$*, Ref point-*$tmnxMobGwNtfyRef PointType$*, protocol- *$tmnxMobGwNtfyRefPointProtocol$*, RefPoint Name-*$tmnxMobGwNtfyRefPointName$*,peer-*$tmnxMobGwNtfyRfPt PeerAddr$*, port- *$tmnxMobGwNtfyRfPtPeerPort$*, Local address - *$tmnxMobGwNtfyPathLocAddress$*, Previous Restart Counter- *$tmnx MobGwNtfyPrevRestartCounter$*, Current Restart Counter-*$tmnxMob GwNtfyCurrRestartCounter$*, Peer Restart Reason- *$tmnxMobGwNtfy PeerRestartReason$*, Pkt Seq Number-*$tmnxMobGwNtfyPeerRestPkt SeqNum$*, Peer Type-*$tmnxMobGwNtfySigPeerType$*, Plane Type- *$tmnxMobGwNtfySigPlaneType$*. |
| Cause | A change in the reference point peer state during path management. The supported trap event values are the following: Added - raised when a new peer is identified due to incoming messages Up - raised when a peer moves to UP state, for a SGW peer, this state change happens when a CS Req is received. for PGW peers, this state change happens when a CS Resp from the PGW peer is received (this is to make sure that Path UP trap is generated only for a real PGW peer in case of GTP-C redirection) Down - raised when a peer moves to the FAULT state while detecting a path management failure. Idle - raised when a peer moves to the IDLE state after session cleanup is done due to path management Failure/ Detach/Admin delete Restart - raised when a peer restart is detected, it is associated with Peer RESTART state Deleted - raised when a peer entry is deleted due to a peer aging out, a peer ages out when it is Idle for more than the Age Out Interval. |
| Effect | N/A |
| Recovery | N/A |

### 3.3.41 tmnxMobGwPcmdOperStateChange

*Table 58: tmnxMobGwPcmdOperStateChange properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2045 |
| Event name | tmnxMobGwPcmdOperStateChange |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.43 |
| Default severity | minor |
| Source stream | main |
| Message format string | PCMD: Oper State: *$tmnxMobGwNtfyPcmdOperState$*: Gw- *$tmnx MobGwNtfyGatewayId$*, PCMD profile-*$tmnxMobGwNtfyPcmdProfile$* |
| Cause | The PCMD operational state changes when the destination address reachability changes. |
| Effect | When the PCMD state is down, the generated PCMD packets are not sent to the destination address. When the PCMD state is up, the PCMD packets are sent to the destination address. |
| Recovery | If the PCMD state is down, then generated PCMD packets are dropped. |

### 3.3.42 tmnxMobGwPfcpRestoreInProg

*Table 59: tmnxMobGwPfcpRestoreInProg properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2122 |
| Event name | tmnxMobGwPfcpRestoreInProg |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.122 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$* VRtr- *$tmnxMobGwNtfyVrtrId$* Ref PointType-*$tmnxMobGwNtfyRefPointType$* RefPointName-*$tmnxMob GwNtfyRefPointName$* PFCP restoration in progress for RemotePeer |

| Property name | Value |
|---|---|
| | Address- *$tmnxMobGwNtfyRfPtPeerAddr$* LocalPeerAddress-*$tmnxMobGwNtfyPeerLocAddress$* RestoreTimer-*$tmnxMobGwNtfyRestoreTimer$* NodeId- *$tmnxMobGwNtfyPeerNodeId$* |
| Cause | A PFCP keepalive failure between UP and CP has been detected. |
| Effect | The restoration timer has started. |
| Recovery | Restore the path between UP and CP to allow keepalives to succeed again. If keepalives recover before the restoration timer times out, the CP and UP will perform an audit and recover from the failure automatically. |

### 3.3.43 tmnxMobGwPfcpViaUpFuncFailureClr

*Table 60: tmnxMobGwPfcpViaUpFuncFailureClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2129 |
| Event name | tmnxMobGwPfcpViaUpFuncFailureClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.129 |
| Default severity | cleared |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, *$tmnxMobGwNtfyGrpName$* detected a PFCP-u tunnel connectivity re-established between the CP function and UP function. |
| Cause | PFCP-u tunnel used for via-up-function (radius-group or dhcp-server-group) traffic between CP and UP function is failing re-established. |
| Effect | Any traffic routed over the PFCP-u tunnel will no longer fail. |
| Recovery | No further action required. |

### 3.3.44 tmnxMobGwRadGrpFailAlarm

*Table 61: tmnxMobGwRadGrpFailAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2024 |
| Event name | tmnxMobGwRadGrpFailAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.20 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Radius Server Group- *$tmnxMob GwNtfyRadGrpName$*, Group State-*$tmnxMobGwNtfyRadGrpState$*. |
| Cause | All the RADIUS servers for the group are in a down operating state. |
| Effect | When the group of RADIUS servers fails, RADIUS messages may not be sent to the group. |
| Recovery | The RADIUS server group will recover from this failure mode when one of its servers returns to the up operating state. |

### 3.3.45 tmnxMobGwRadGrpFailAlarmClrd

*Table 62: tmnxMobGwRadGrpFailAlarmClrd properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2025 |
| Event name | tmnxMobGwRadGrpFailAlarmClrd |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.21 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Radius Server Group- *$tmnxMob GwNtfyRadGrpName$*, Group State-*$tmnxMobGwNtfyRadGrpState$*. |

| Property name | Value |
|---|---|
| Cause | The RADIUS server group is recovered from the previous failure mode and at least one of its servers has transitioned to the up operating state. |
| Effect | The operation for the RADIUS group is back to normal. |
| Recovery | No further action is required. |

### 3.3.46 tmnxMobGwRadPeerFailAlarm

*Table 63: tmnxMobGwRadPeerFailAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2022 |
| Event name | tmnxMobGwRadPeerFailAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.18 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Radius Server Group- *$tmnxMobGwNtfyRadGrpName$*, Address-*$tmnxMobGwNtfyRadPeerAddr$*, Authentication port-*$tmnxMobGwNtfyRadPeerAuthPort$*, Accounting port- *$tmnxMobGwNtfyRadPeerAcctPort$*, Peer State-*$tmnxMobGwNtfyRadPeerState$*. |
| Cause | The operating state for RADIUS server is changed to the down state. |
| Effect | RADIUS messages may not be sent to the RADIUS server. |
| Recovery | RADIUS messages can continue to be sent to a RADIUS server after the RADIUS server's operating state changes back to up or the dead timer expires. |

### 3.3.47 tmnxMobGwRadPeerFailAlarmClrd

*Table 64: tmnxMobGwRadPeerFailAlarmClrd properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |

| Property name | Value |
|---|---|
| Event ID | 2023 |
| Event name | tmnxMobGwRadPeerFailAlarmClrd |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.19 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Radius Server Group- *$tmnxMob GwNtfyRadGrpName$*, Address-*$tmnxMobGwNtfyRadPeerAddr$*, Authentication port-*$tmnxMobGwNtfyRadPeerAuthPort$*, Accounting port- *$tmnxMobGwNtfyRadPeerAcctPort$*, Peer State-*$tmnxMob GwNtfyRadPeerState$*. |
| Cause | The RADIUS server recovered from the previous failure mode and one of its servers has transitioned to the up operating state. |
| Effect | The operation for the RADIUS server is back to normal. |
| Recovery | No further action is required. |

### 3.3.48 tmnxMobGwSbiPeerState

*Table 65: tmnxMobGwSbiPeerState properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2130 |
| Event name | tmnxMobGwSbiPeerState |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.130 |
| Default severity | warning |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Group ID- *$tmnxMobGwNtfySbi GroupId$*, NF service name- *$tmnxMobGwNtfySbiNfServiceName $*, Service Instance- *$tmnxMobGwNtfySbiNfServiceIns$*, peer UUID- *$tmnxMobGwNtfySbiPeerUuid$*, peer ip address- *$tmnxMobGwNtfySbi PeerIpAddress$*, peer port- *$tmnxMobGwNtfySbiPeerPort$*, connection state- *$tmnxMobGwNtfySbiConnectionState$*, NF service state- *$tmnx MobGwNtfySbiNfServiceState$*. |

| Property name | Value |
|---|---|
| Cause | A change in the NF peer connection status or peer is deleted from peer list. |
| Effect | N/A. |
| Recovery | N/A. |

### 3.3.49 tmnxMobGwSmfDnnOvld

*Table 66: tmnxMobGwSmfDnnOvld properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2116 |
| Event name | tmnxMobGwSmfDnnOvld |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.115 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApn Name$* SMF entered into DNN overloaded state. |
| Cause | SMF reaches DNN level overload state. |
| Effect | The system throttles new sessions and signals a backoff timer as configured with 'pdn apn dnn-overload-control n1-back-off-timer'. |
| Recovery | Not applicable. |

### 3.3.50 tmnxMobGwSmfDnnOvldClear

*Table 67: tmnxMobGwSmfDnnOvldClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2117 |
| Event name | tmnxMobGwSmfDnnOvldClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.116 |

| Property name | Value |
|---|---|
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApn Name$* SMF no longer in DNN overload. |
| Cause | SMF no longer in DNN level overload. |
| Effect | The system stops throttling new sessions. |
| Recovery | Not applicable. |

### 3.3.51 tmnxMobGwSmfNodeOvld

*Table 68: tmnxMobGwSmfNodeOvld properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2114 |
| Event name | tmnxMobGwSmfNodeOvld |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.113 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Group ID- *$tmnxMobGwNtfySys GroupId$* SMF entered into node level overloaded state. |
| Cause | SMF reaches node level overload. |
| Effect | The system throttles new sessions and signals a backoff timer as configured with 'pdn apn overload-back-off overload-back-off-timer'. |
| Recovery | Not applicable. |

### 3.3.52 tmnxMobGwSmfNodeOvldClear

*Table 69: tmnxMobGwSmfNodeOvldClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |

| Property name | Value |
|---|---|
| Event ID | 2115 |
| Event name | tmnxMobGwSmfNodeOvldClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.114 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, Group ID- *$tmnxMobGwNtfySys GroupId$* SMF no longer in node level overload. |
| Cause | SMF no longer in overload. |
| Effect | The system stops throttling new sessions. |
| Recovery | Not applicable. |

### 3.3.53 tmnxMobPdnApnMaxPdnConnAlarm

*Table 70: tmnxMobPdnApnMaxPdnConnAlarm properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2035 |
| Event name | tmnxMobPdnApnMaxPdnConnAlarm |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.33 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApn Name$*. |
| Cause | The maximum number of PDN connections for this APN on the gateway is reached. |
| Effect | New PDN connections are not accepted until the limit drops below the value of TIMETRA-MOBILE-PDN-MIB::tmnxMobPdnApnMaxPdn Connections. |
| Recovery | To accept new PDN connections, the system has to wait until the maximum PDN connections number drops below the threshold. |

### 3.3.54 tmnxMobPdnApnMaxPdnConnAlarmClr

*Table 71: tmnxMobPdnApnMaxPdnConnAlarmClr properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2036 |
| Event name | tmnxMobPdnApnMaxPdnConnAlarmClr |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.34 |
| Default severity | major |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, APN Name- *$tmnxMobGwNtfyApnName$*. |
| Cause | The existing number of PDN connections for this APN on the gateway drops below the value of TIMETRA-MOBILE-PDN-MIB::tmnxMobPdnApnMaxPdnConnections. |
| Effect | New PDN connections are accepted. |
| Recovery | No further action is required. |

### 3.3.55 tmnxMobPdnBearerContextClear

*Table 72: tmnxMobPdnBearerContextClear properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2153 |
| Event name | tmnxMobPdnBearerContextClear |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.155 |
| Default severity | warning |
| Source stream | main |
| Message format string | Clear bearer context in PDN *$tmnxMobGwNtfyGatewayId$ $tmnxMobGwNtfyLongText$ $tmnxMobGwNtfyStartEnd$* (*#$tmnxMobGwNtfyNumber$*) |

| Property name | Value |
|---|---|
| Cause | The system starts or terminates processing a request to clear a PDN bearer context. The request can be done with the CLI command 'clear mobile-gateway pdn bearer-context' or by using one of the appropriate rows in the TIMETRA-CLEAR-MIB::tmnxClearTable, like the row named 'clearMobPdnBearerContext'. |
| Effect | In the time interval between the start and end notification, the system has cleared a number of PDN bearer contexts that match the specified parameters. The UE's associated with the bearer contexts lose their connection with the PDN. |
| Recovery | None. |

### 3.3.56 tmnxMobPdnLaaPfxInsufficientMem

*Table 73: tmnxMobPdnLaaPfxInsufficientMem properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2113 |
| Event name | tmnxMobPdnLaaPfxInsufficientMem |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.113 |
| Default severity | warning |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, network realm *$tmnxMobGwNtfy NwRealmName$*, pool *$tmnxMobGwNtfyPoolName$*, prefix *$tmnx MobGwNtfyAddr$*/*$tmnxMobGwNtfyPfxLength$* not operational due to insufficient memory |
| Cause | Insufficient memory for an IP address prefix and all of its micronets. |
| Effect | The IP address prefix is not activated, and its operational status goes down. |
| Recovery | Add memory to the system, or reduce the number of the prefix micronets. |

### 3.3.57 tmnxMobPdnLaaPlNoFreeMnets

*Table 74: tmnxMobPdnLaaPlNoFreeMnets properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2136 |
| Event name | tmnxMobPdnLaaPlNoFreeMnets |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.136 |
| Default severity | minor |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, network realm *$tmnxMobGwNtfy NwRealmName$*, pool *$tmnxMobGwNtfyPoolName$* IPv6 type *$tmnx MobGwNtfyIpv6AssignmentType$*: no more free *$tmnxMobGwNtfyLaa UnfragmentedMn$* micronets *$tmnxMobGwNtfyTruthValue$* |
| Cause | The last available micronet of its kind in the pool is activated. |
| Effect | Setup of new end user sessions will start to fail. |
| Recovery | Add prefixes to the pool. |

### 3.3.58 tmnxMobPdnLaaPlNumFreeMnetsLow

*Table 75: tmnxMobPdnLaaPlNumFreeMnetsLow properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2110 |
| Event name | tmnxMobPdnLaaPlNumFreeMnetsLow |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.108 |
| Default severity | warning |
| Source stream | main |
| Message format string | Gw-*$tmnxMobGwNtfyGatewayId$*, network realm *$tmnxMobGwNtfy NwRealmName$*, pool *$tmnxMobGwNtfyPoolName$* IPv6 type *$tmnx MobGwNtfyIpv6AssignmentType$*: running low on *$tmnxMobGwNtfy LaaUnfragmentedMn$* micronets *$tmnxMobGwNtfyTruthValue$* |

| Property name | Value |
|---|---|
| Cause | A micronet is activated while the number of free micronets in the pool is already low. |
| Effect | None. |
| Recovery | No recovery is immediately required. However, it is recommended to add prefixes in order to avoid complete depletion of the pool. |

### 3.3.59 tmnxMobProfNodeSelTrgtSugstRebal

*Table 76: tmnxMobProfNodeSelTrgtSugstRebal properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2149 |
| Event name | tmnxMobProfNodeSelTrgtSugstRebal |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.151 |
| Default severity | warning |
| Source stream | main |
| Message format string | Evaluate target-profile *$tmnxMobGwNtfyProfileName$* and rebalance if necessary - new UP=*$tmnxMobGwNtfyUpPeerAddress$*, surviving number of UPs= *$tmnxMobGwNtfyNumber$* |
| Cause | The system has reconnected to a UPF after having been disconnected. |
| Effect | While the UPF connection was down session distribution among the UPFs in a target profile may have become unbalanced. This event indicates session load rebalancing may be necessary. |
| Recovery | Session load among the available UPFs in the target profile should be evaluated, and if necessary, rebalanced using a clear operation. |

### 3.3.60 tmnxMobProfNodeSelTrgtSugstRevrt

*Table 77: tmnxMobProfNodeSelTrgtSugstRevrt properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2150 |

| Property name | Value |
|---|---|
| Event name | tmnxMobProfNodeSelTrgtSugstRevrt |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.152 |
| Default severity | warning |
| Source stream | main |
| Message format string | Evaluate target-profile *$tmnxMobGwNtfyProfileName$* and revert if necessary |
| Cause | The number of available UPFs in a target profile entry has reached the necessary minimum threshold. |
| Effect | While the number of available UPF connections was below the minimum threshold new sessions will be directed to backup UPFs. This event indicates it may be appropriate to revert sessions to primary UPFs. |
| Recovery | Session load among primary and secondary UPFs of the target profile should be evaluated and if necessary, reverted using a clear operation. |

### 3.3.61 tmnxOverlayFabricFailure

*Table 78: tmnxOverlayFabricFailure properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2072 |
| Event name | tmnxOverlayFabricFailure |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.70 |
| Default severity | minor |
| Source stream | main |
| Message format string | Detected *$tmnxMobGwNtfyFailureDirection$* failure for slot *$tmnxMobGwNtfySlot$* on all overlay fabrics |
| Cause | A loss of connectivity to other cards in a particular direction over all available overlay fabrics. |
| Effect | The card cannot function properly as part of the system. |
| Recovery | Attempt to restore connectivity by rebooting the affected card. |

### 3.3.62 tmnxOverlayFabricPartialFailure

*Table 79: tmnxOverlayFabricPartialFailure properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2073 |
| Event name | tmnxOverlayFabricPartialFailure |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.71 |
| Default severity | minor |
| Source stream | main |
| Message format string | Detected *$tmnxMobGwNtfyFailureDirection$* failure for slot *$tmnxMobGwNtfySlot$* on overlay fabric *$tmnxMobGwNtfyFabricId$* |
| Cause | Loss of connectivity between the affected card and the other cards in a particular direction over a particular overlay fabric. |
| Effect | The system will use a different overlay fabric that is operational to communicate with the affected card, but the capacity will be reduced. |
| Recovery | Manual intervention may be required to restore the connectivity. |

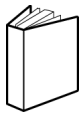
### 3.3.63 tmnxOverlayFabricStatus

*Table 80: tmnxOverlayFabricStatus properties*

| Property name | Value |
|---|---|
| Application name | MOBILE_GATEWAY |
| Event ID | 2060 |
| Event name | tmnxOverlayFabricStatus |
| SNMP notification prefix and OID | TIMETRA-MOBILE-GATEWAY-MIB.tmnxMobGatewayNotifications.58 |
| Default severity | major |
| Source stream | main |
| Message format string | Operational state of last overlay fabric port transitioned to *$tmnxMobGwNtfyOverlayFabricState$* state for VM *$tmnxMobGwNtfyVmId$* |
| Cause | A change in the operational state of the overlay fabric switch, either when the last operational overlay fabric port transitions to the down |

| Property name | Value |
|---|---|
| | state or when the first overlay fabric port transitions to an operationally up state. |
| Effect | If the value of tmnxMobGwNtfyOverlayFabricState is down, the VM fails (crashes) and ceases to process any new packets. |
| Recovery | If the value of tmnxMobGwNtfyOverlayFabricState is down, the VM fails to process new packets and reboots. The VM remains in the booting state until the value of tmnxMobGwNtfyOverlayFabricState changes to up. |

# Customer document and product support



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