**APPENDIX 8 – TETRA TNX SNMP Event or Trap List**

| **SNMP Event** | **Event Description** |
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| AlarmBadSwr | This event is generated when the reflected power of the base station transceiver is too high. The maximum reflected power is user defined as a percentage of the nominal output power drop (R-8050) or as the reflected power as percentage of the nominal power (R-8060 and R- 8070). Information on the physical port to which the device is connected, the serial number and the measured reflected power are attached to this event. |
| AlarmHighPower | This event is generated when the base station power exceeds the configured threshold. The threshold is user defined as a percentage of the nominal output power. Information on the physical port to which the device is connected, the serial number and the measured output power are attached to this event. |
| AlarmLowPower | This event is generated when the base station power is too low. Information on the physical port to which the device is connected, the serial number and the measured output power are attached to this event. |
| AlarmReflectedPower | This event (R-8060 and R-8070) is generated when the reflected power of the base station transceiver is too high. The maximum reflected power is user defined reflected power level as percentage of the nominal power. Information on the physical port to which the device is connected, the serial number and the measured reflected power are attached to this event. |
| Alert | This is a general TNX notification. |
| BasestationFailure | This event is generated when a base station transceiver failure is detected. Information on the base station is connected, the serial number of the base station and a description of the failure are attached to this event. |
| BasestationRecovery | This event is generated when a base station transceiver failure is resolved. Information on the serial number of the base station and a description of the failure are attached to this event. |
| ControlChannelStarted | This event is generated when a control channel is started on a site. The name of the site and the serial number of the base station are attached to this event. |
| ControlChannelStopped | This event is generated when a control channel is stopped on a site. The name of the site and the serial number of the base station are attached to this event. |
| Conventional | Reserved for future use. |
| Conventional|DigitalInput | This event is generated when the BSI detects a problem. Information on the physical port to which the device is connected, the serial number, the number of the digital input and its state are attached to this event. |
| DatabaseFail | This event is generated when a problem is detected with the TNX database, e.g. database consistency errors or read/write errors. The log message text provides detailed information about the failure. |
| DeviceAvailable | This event is generated when the TNSP or IP device becomes available. TNSP devices include base stations and telephony interfaces. Information on the physical port to which the device is connected and the serial number of the device are attached to this event. |
| DeviceFail | This event is generated when the TNSP or IP device is no longer available. TNSP devices include base stations and telephony interfaces. Information on the physical port to which the device is connected and the serial number of the device are attached to this event. |
| DeviceNotReady | This event is generated when a device is no longer Ready to be used. The serial number of the device is attached. |
| DeviceReady | This event is generated when a device is Ready to be used. The serial number of the device is attached. |
| DigitalInputs | This event is generated when the state of digital inputs on the TBS-SYN have changed. Initially both the old and the new value will contain the new value. These digital inputs can be used for remote monitoring (telemetry). The current and previous state are represented by numbers containing 12 bits in decimal format. The status of each of the digital inputs can be retrieved by masking the current (new) bit position. More information can be found in the TBS-SYN manual. |
| E1|IpConnectionUp | This event is generated when a connection to an E1 board has successfully been established. The log message text provides detailed information about the connected board. |
| E1|LinkDown | This event is generated when the E1 link is going down. |
| E1|LinkUp | This event is generated when the E1 link is established. |
| E1|NoIpConnection | This event is generated when a problem is detected with an E1 board. The log message text provides detailed information about the failure. |
| E1|NoUplinkSpeech | This event is generated when no speech packets are received by the TNX from the ETI during the telephone call. The log message text provides detailed information about the failure. |
| GpsFail | This event is generated when no GPS signal is received by the GPS receiver connected to the TBS-SYN. The GPS timestamps are used for calibrating the base station frequency and to precisely align the TETRA timeslots on the different sites needed for seamless handover. The message contains the name of the site and the serial number of the TBS-SYN module. |
| GpsNoFail | This event is generated when a GPS signal is received by the GPS receiver connected to the TBS-SYN. The GPS timestamps are used for calibrating the base station frequency and to precisely align the TETRA timeslots on the different sites needed for seamless handover. The message contains the name of the site and the serial number of the TBS-SYN module. |
| HarddiskWarning | This event is generated when hard disk space is getting scarce. This will happen when the remaining free space is less than 512 MByte. |
| HardwareFail | This event is generated when a hardware problem detected. Information on the physical port to which the device is connected, the serial number of the device and a description of the hardware failure are attached to this event. |
| HighPowerAmplifierTemperature | This event is generated when the temperature of the device is too high. Information on the physical port to which the device is connected, the serial number and the measured temperature are attached to this event. |
| InternodeMgr|TnxActive | This event is generated when this TNX takes over operation from another TNX. The IP address and the TNX name of the active TNX are attached to this event. |
| InternodeMgr|TnxInactive | This event is generated when the operation of this TNX is taken over by another TNX. The IP address and the TNX name of the inactive TNX are attached to this event. |
| IpConnectionUp | This event is generated when a connection to another TNX has successfully been established. The log message text provides detailed information about the connected TNX. |
| LogMessage | This event is generated when a new log message is available. The content of the log message is attached to this event. |
| Mpt|DigitalInput | This event is generated when the BSI detects a problem. Information on the physical port to which the device is connected, the serial number, the number of the digital input and its state are attached to this event. |
| Mpt|JammingDetected | This event is generated when jamming of a channel is detected. Information on the physical port to which the device is connected, the serial number, and its current channel mode are attached to this event. |
| Mpt|NoJammingDetected | This event is generated when jamming of a channel stopped. Information on the physical port to which the device is connected, the serial number, and its current channel mode are attached to this event. |
| NoFreeTrafficChannel | This event is generated when a traffic channel request for a site failed or was queued. Possible causes include unavailability of base stations (device link failures) and all traffic channels being occupied. The name of the base station site is attached to this event. |
| NoIpConnection | This event is generated when a problem is detected with the IP connection. The log message text provides detailed information about the failure. |
| PowerAmplifierTemperatureOk | This event is generated when the temperature of the device is within limits. |
| PowerOk | This event is generated when the base station power is within limits again. |
| ReflectedPowerOk | This event (R-8060 and R-8070) is generated when the reflected power of the base station transceiver is within limits again. Information on the physical port to which the device is connected, the serial number and the measured reflected power are attached to this event. |
| SignallingFail | This event is generated when a telephone device detects no signalling, e.g. no dial tone or ISDN s0 access (layer 1 and 2 connectivity). The log message text provides detailed information about the failure. |
| Sip | Reserved for future use. |
| SoftwareFail | This event is generated when a problem is detected in the TNX software. The log message text provides detailed information about the failure. |
| SubscriberLimit | This event is generated when the number of subscribers is 90% or more of the licensed number of subscribers. The count and the limit are attached. |
| SwrOk | This event is generated when the reflected power of the base station transceiver is normal again. |
| Syn2Failed | This event is generated when a TBS doesn't receive sync on the aux sync port (and the presence of a 2nd TBS-SYN was configured in the device configuration) |
| Syn2Recovered | This event is generated when the sync failure on the aux sync port of a TETRA TBS recovered. |
| SyncFail | This event is generated when a TETRA base station alarms that the sync signal is lost. |
| SyncOk | This event is generated when a TETRA base station alarms that the sync signal is ok. |
| Tel | Reserved for future use. |
| TepRei|Available | This event is generated when the TEP-REI device becomes available. Information on the physical link controlled by the device and the serial number of the device are attached to this event. |
| TepRei|Fail | This event is generated when the TEP-REI device is no longer available. Information on the physical link controlled by the device and the serial number of the device are attached to this event. |
| Tetra|IpDeviceAvailable | This event is generated when a TETRA IP device becomes available. Information on the logical port to which the device is connected and the serial number of the device are attached to this event. |
| Tetra|IpDeviceFail | This event is generated when a TETRA IP device is no longer available. Information on the logical port to which the device is connected and the serial number of the device are attached to this event. |
| Tetra|IPLinkErrors | This event is generated when IPLink errors are reported by the TETRA basestation. Note: Initially during a base station recovery a high error count might be reported. Information on the serial number of the base station and the error count are attached. |
| Tig | Reserved for future use. |
| Tig2 | Reserved for future use. |
| TimeSyncGpsFail | This event is generated when the TNX time can not be synchronized to a valid GPS time. This occurs when no GPS time is received by any of the GPS receivers of the TBS-SYNs connected to any of the TBSes on that TNX. The message contains the name of the TNX. |
| TimeSynchronizationFail | This event is generated when time is not synchronized. This can be due to a NTP server which cannot be reached or a missing GPS signal. Attached is the time synchronization source and an arbitrary log message. |
| TimeSynchronizationNoFail | This event is generated when time is synchronized again. Attached is the last known Time Synchronization Source and an arbitrary log message. |
| TimeSynchronizationSourceChan ges | This event is generated when source of time synchronization is changed. Source are: GPS : The TNX is synchronized via GPS NTP : The TNX is synchronized via the GPS signal of a TBS TNXGPS : The TNX is synchronized via another TNX which is synchronized via GPS TNXNTP : The TNX is synchronized via another TNX which is synchronized via GPS FORCED : The TNX assumes its time is accurate; this is can be used if no means of time synchronization is available. TNXFORCED : The TNX is synchronized via another TNX which is assumed to be synchronized Attached are the old and new Time Synchronization Source and an arbitrary log message. |
| TimeSynchronizationTimeAdjuste d | This event is generated when time is adjusted. Attached are the old and new Time. |
| TimeSyncNoGpsFail | This event is generated when the TNX time can be synchronized to a valid GPS time again. This occurs when GPS time is received by any of the GPS receivers of the TBS-SYNs connected to any of the TBSes on that TNX. The message contains the name of the TNX. |
| TimeSyncWarning | This event is generated when the TNX suspects a time problem between TNXs. Detection is achieved on basis of comparison of timestamps within database synchronization events and the current system date and time. This notification will be send if there is a consistent time difference of more than 5 seconds. |
| TnspDeviceAvailable | This event is generated when the TNSP device becomes available TNSP devices include base stations and telephony interfaces. Information on the physical port to which the device is connected and the serial number of the device are attached to this event |
| TnspDeviceFail | This event is generated when the TNSP device is no longer available. TNSP devices include base stations and telephony interfaces. Information on the physical port to which the device is connected and the serial number of the device are attached to this event. |
| TnspFail | This event is generated when a problem is detected with the TNSP connection. The log message text provides detailed information about the failure. |
| TnxAvailable | This event is generated when the TNX becomes available. TNX and IP address are added. |
| TnxDown | This event is generated when the TNX is no longer available. TNX and IP address are added. |