

Amendment to Gambling Act (Class 4 Gambling Equipment) Minimum Standard 2004

Minimum Technical Requirements for Electronic Monitoring System - QCOM version 1.6.3

This document specifies requirements for Electronic Monitoring System utilising QCOM version 1.6.3 and replaces those requirements previously specified for Electronic Monitoring System where indicated and:

1. Applies to all Intralot provides systems and processes as from the day after the date of notice in the New Zealand Gazette; and
2. Applies to all gaming machines from a date to be advised in the New Zealand Gazette, but no earlier than March 1 2010.

3 Local Area Communications Gaming Machine Communications Protocol “QCOM”^{*}

*** Note to Standard:** Health or safety matters or legislative requirements administered by other regulatory bodies such as for electrical wiring and of radio frequency emission etc are the domain and responsibility of the manufacturer, purchaser and operator of the equipment. Each of these parties is required to assure themselves of such matters. Particular note should be taken of any Laser/LED technology that is to be present in any gambling equipment.

Where an incorporated document uses terms and abbreviations applicable in the jurisdiction of issue then the terms and abbreviations that apply are those used in New Zealand. For example Electronic Gaming Machine (EGM) means Gaming Machine (GM) and Central Monitoring System (CMS) means Electronic Monitoring System (EMS) in accordance with the terms and abbreviations used in New Zealand.

Where an incorporated document makes reference to the authority in the jurisdiction of issue then this is to be interpreted as the Secretary for Internal Affairs. That is Queensland Office of Gaming Regulation (QOGR) is to be interpreted as the Secretary for Internal Affairs.

3.1 The specifications ‘Local Area Gaming Machine Communications Protocol “QCOM” Version 1.6.3 Checklist Version F Revised 17 March, 2009 and QCOM Protocol New-Zealand Modification (v 3.0) Revised 18 February 2002’ as published by The State of Queensland, Queensland Office of Gaming Regulation, is incorporated subject to the following exclusions, amendments and additions.

3.2 Where a conflict exists between the above-incorporated “QCOM” document and a minimum equipment standard requirement:

- (a) “QCOM” is to be considered the overriding standard unless;
 - (i) Specified NS standards are independent of “QCOM”, for example, CRECANLIM, MAXHOPPER, and the Hopper Refill procedure and/or;
 - (ii) Specified NS standards are derived from specific statutory or regulatory requirements, for example, maximum win, maximum wager and other harm prevention and minimisation requirements.

3.3 The following are exclusions, amendments and additions to the specification described in 3.1. The exclusions, amendments and additions follow section headings that reflect those used in the incorporated document. Where a section or subsection is excluded this means that

- (i) The New Zealand monitor and site controller will not make use of the functionality and will not provide relevant polls, defaults and/or expect to interpret corresponding poll responses, EGM configuration status and events.
- (ii) EGM manufacturers will still be required to provide functionality as per the provision of Section 1.2

1.1 Other Related Documents

This subsection is deleted and the following sentence inserted.

“All applicable documents are as specified in relevant Minimum Standards.”

3.1.3 Denomination - (Configuration, Control & Hot Switching)

This section is excluded.

This Standard is unique to the New Zealand jurisdiction and the numbering system does not have cross-references to the Australian/New Zealand Gaming Machine National Standard.

3.1.3.1 Denomination Hot Switching (QPv1.6)

This section is excluded.

6.1.8 LP Broadcast Timeout

This section is excluded.

7.10. EGM Event Definitions

The following QPv1.6 events are likely to be received and handled by site controller.

7.10.1 Fault Conditions

- 7.10.1.5 EGM Hopper Level Mismatch
- 7.10.1.10 EGM Mechanical Meters Disconnected
- 7.10.1.16 EGM Manufacturer Specific Event
- 7.10.1.18 EGM Bonus Device Fault
- 7.10.1.23 EGM Excessive Note/Ticket Acceptor Rejects Fault
- 7.10.1.24 EGM Note Acceptor Yo-Yo
- 7.10.1.33 EGM Low Memory
- 7.10.1.34 EGM Power Down Incomplete
- 7.10.1.35 Auxiliary Display Device Failure
- 7.10.1.36 EGM Primary Display Device Failure
- 7.10.1.37 EGM Tertiary Display Device Failure

7.10.3 Advisory Events

- 7.10.3.6 EGM Communications Time-Out
- 7.10.3.12 EGM Door Open/Close and Stacker Removed/Returned Events
0x204A “EGM Mechanical Meter Door Opened”
0x204B “EGM Mechanical Meter Door Closed”
0x204C “EGM Top Box/Aux Door Opened”
0x204D “EGM Top Box/Aux Door Closed”
- 7.10.3.13 EGM Cash Box Cleared
- 7.10.3.14 EGM Note Stacker Cleared

- 7.10.3.18 EGM Note Stacker Full – Note Acceptance Disabled
- 7.10.3.19 EGM Note Stacker High Level Warning
- 7.10.3.21 EGM Invalid Game Configuration
- 7.10.3.24 EGM Processor Over-Temperature
- 7.10.3.25 EGM Cooling Fan Low RPM

7.10.3.26 EGM Call Service Technician

The last sentence is deleted and the following sentence inserted.

“This event may be implemented at the EGM manufacturer’s discretion provided the event clearly relates to an EGM or Venue Cabling issue and does not require EMS monitor intervention. It is recommended that this event be implemented to assist venues to identify EGM issues requiring service technician assistance. ”
(Note for venues: they may need to contact society to authorise service technician visit.

7.10.3.30 EGM New PID Session Started

This subsection is excluded and the following sentence inserted:

“This requirement is not to be used instead use unnumbered advisory event 7.10.4.14.”

- 7.10.3.29 EGM Recoverable RAM Corruption
- 7.10.3.32 EGM Invalid Denomination
- 7.10.3.33 EGM Hopper Calibrated
- 7.10.3.37 EGM Period Meters Reset
- 7.10.3.39 EGM Hopper Overpay Amount
- 7.10.3.40 EGM License Key Detected
- 7.10.3.41 EGM Non-Production License Key Detected

7.10.4 Unnumbered Advisory Events

- 7.10.4.1 EGM Hopper Payout
- 7.10.4.7 EGM System Lockup User Response
- 7.10.4.10 EGM Residual Cancel Credit Lock Up

The following new events are added:

7.10.4.14 EGM New PID Session Started

Event Code: 0x3014 Reserved New Zealand

Description: (QPv1.6.3) Logged whenever a new session is started.

7.10.4.15 EGM PID Session Stopped

“Event code 0x3015 Reserved New Zealand

Description (OPv1.6.3) Logged whenever a session of play has stopped and at least one game has been played.

Extended Data: -

DUR Session duration elapsed, total hours:total min, 1 byte each, 24 hour format

CID Count of Interruptive Information Display during session. 1 byte hex.

SPD Player spend \$.c., 4 bytes hex in cents, LSB first, display as unsigned decimal currency of up to 11 characters.

NWL Net Win/Loss \$.c., 4 bytes hex in cents, LSB first, display as unsigned decimal currency of up to 11 characters.

SPS Session play stopped, 1 byte hex.

0x00 Player chose to stop session play during Interruptive Information Display.

0x01 Session play stopped, other than during Interruptive Information Display.

(0x02 – 0xFF reserved)

Format String: “<DUR>0x<CID>0x<SPD>0x<NWL>0x<SPS>”

8. EGM Defaults

8.1.16

This subsection is excluded and the following sentence inserted:

“The EGM must default to accept only \$5, \$10 and \$20 notes of New Zealand legal tender. ”**

8.1.17

The following subsection is excluded and the following paragraph inserted:

* * Note that this requirement is complied with if the Bank Note Acceptor software cannot be programmed or configured to accept other than \$5, \$10 and \$20 notes.

“The EGM must assume EGM Parameter Poll (15.4.5) defaults of:

Parameter	Default Value
Reserve	1
Autoplay	0
CMLIMIT mode	0
Operator ID	0x00
Large Win Lockup Amount	\$1,500
Credit Acceptance Lockout Limit	\$10,000
Maximum Number of Double-Ups/Gambles	5
Double-Up/Gamble limit	\$500*
Time Zone Adjust	0
Power-Save Time-out Value	900 (secs)
Player Information Display ID	0x03
End of Day time	0xFF
NP Win Payout Threshold	\$500
SAP Win Payout Threshold	NA

*\$500 for the Double-Up/Gamble limit in accordance with minimum standard requirement DIA3.2 MAXNPWIN”

8.1.18

This subsection is excluded and the following paragraphs inserted:

Hopper/Ticket Printer Maintenance Poll (15.4.17) defaults:

Parameter	Default Value
Hopper Collect Limit	\$200
Default Hopper Refill Amount	\$200
Hopper level meter (refer3.4.1)	\$0 (QPv1.6, was as above in QPv1.5)
Ticket Out Limit	\$0

EGM’s must provide, in either test or audit mode, the ability to adjust the default hopper collect amount and refill hopper amount.”

9 Multi-Game/Multi-Variation Variation Support

The following paragraphs are inserted as the opening paragraphs.

“Game variation changes are only permitted following a RAM clear and providing the Secretary of Internal Affairs has issued a Licence Amendment.

The number of games that can be enabled at any one time is 16.

10 Progressive Gaming Machines

This section is excluded and the following paragraphs inserted

Provision of a Game stand-alone progressive prize (SAP): shall be consistent with:

- (a) QCOM requirements for provision of specific QCOM meters including Group 0 Meters 0x07 Total EGM SAP wins as used for the provision of a QCOM defined stand-alone progressive jackpot.
- (b) A RAM clear will not require SAP or overflow values to be reset to the values prior to the RAM clear.
- (c) Not rely on EMS host and site controller request and provision of set-up data or other values during game configuration and operation.

Note: For example during game configuration, response and operation the site controller will either set or expect the following default values

PNUM = 0
 PLBM = 0xFF
 PGID = 0xFFFF

12.1.1 Group 0 Meters

Unless indicated the following QPv1.6 meters are expected to be received and handled by site controller.

0A	Total EGM PID Accessed* Total times the PID has been accessed on the EGM. NB. To meter this value correctly, the methodology in order to access the PID must be a unique action on the EGM and for example, it must not be necessary to pass through the PID in order to access any other information or function on the EGM, such as game rules display for example (otherwise an inflated PID Accessed	QPv1.6	Upon PID** entry
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	Meter would result).		
0B	<p>Total EGM Games Won (GW)</p> <p>Total number of games won, incremented at the end of each play if the play (including all features and gambles) results in a win. (This would be incremented at the same time as the 0x02 meter)</p> <p>Excludes winning games whose wins were completely lost from subsequent double-up/gamble.</p>	QPv1.6	2
0C	<p>Total EGM SAP Wins* (SAP)</p> <p>Total of all SAP wins on the EGM. New for QPv1.6.</p>	QPv1.6, SAP	3
0D	<p>Total EGM Download Jackpot Wins *</p> <p>This meter records all jackpots downloaded direct to the gaming machine by an approved jackpot controller and protocol. The transfer of a downloaded jackpot is also recorded by Group 1 Meter 0x14 & Group Meter 0 0x05.”) (NB NZ QCOM EGMs add credit received from a 3rd party jackpot protocol to this meter ID as well as meter ID 0x14)</p>		

NZ amendment – Insert after first note

** ‘PID’ as recorded by this meter is the player display as defined by Appendix to National Standards requirements Elective Information Display DIA9.2 (i).

12.1.2 Group 1 Meters

Unless indicated the following QPv1.6 meters are expected to be received and handled by site controller. It is not expected that EMA and daily, weekly and monthly reports need be amended to record these meters at this stage. However, DIA reserves the right to specify the inclusion of these meters at a later date at no cost and where possible coincident with any agreed changes to EMA and web based reports for other reasons.

The additional meters must be available in the BO Data Universe.

1A	<p>Total Rejected Enabled Notes*</p> <p>‘Rejected’ means that the NA tried to validate a note against its current note set and no acceptable match was found.</p> <p>Counted only while acceptor was enabled.</p> <p>Do not count notes that authenticate but are rejected because they are disabled. This meter is for tracking note acceptor</p>	QPv1.6, Note Acc.	Upon the event
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	performance.		
1B	Total EGM Gamble Turnover (GT) Incremented by the amount bet from every gamble attempt. (I.e. this meter may be incremented multiple times per play)	QPv1.6, All	8
1C	Total EGM Gamble Wins (GW) Incremented by each win (if any) from every gamble attempt. (I.e. this meter may be incremented multiple times per play)	QPv1.6, All	8
1D	Total EGM Coins/Tokens Cleared. Total Value of all coins cleared from the EGM's Cash Box since the last RAM Clear of the EGM. This field is a cumulative field updated by the amount cleared each time a Cash Box clearance is recorded by an attendant.	QPv1.6.2 CV	Upon the event
1E	Total EGM Notes Cleared. Total Value of all notes cleared from the EGM's Cash Box since the last RAM Clear of the EGM. This field is a cumulative field updated by the amount cleared each time a Note Stacker clearance is recorded by an attendant.	QPv1.6.2 Note Acc.	Upon the event
1F	Reserved* (do not send)		

The Description for the following meter is amended as follows:

“Group

Meter ID 0x

14

Label & Description

Total EGM Cashless Credit In (CSI) (including all EGM Download Jackpot wins)**

14.2 General Poll Message Format.

LEN This requirement is amended by inserting the following sentence after the last sentence of the second paragraph:

“The site controller largest response length may be lower than 160 bytes provided the lower byte length is consistent with EGM operation under QPv1.5.5 and QPv1.6 message length requirements. The length is to be increased as necessary if message lengths greater than 156 and less than or equal to 277 bytes are necessary in the future.”

15.4.3 EGM Game Configuration Poll

This requirement is amended by inserting the following

GFLAG

Bit6 Set

15.4.4 EGM Variation Change

This subsection is excluded.

15.4.5 EGM Parameters Poll

This requirement is amended by inserting the following

FLG

Bit6 Default Autoplay Flag must not be set. Autoplay is not allowed.

TZADJ Excluded

PID Player Information Display ID. 1 byte hex. QPv1.6

Denotes which PID version the EGM must use.

0x00 disables the PID

0x01 denotes QLD version PID

0x02 denotes Tattersalls version PID

0x03 denotes NZ version PID*.

There must be no EGM provision to override PID configuration setting.

15.4.6 Progressive configuration Poll

This subsection is excluded.

15.4.7 External Jackpot Poll (EXTJIP)

This subsection is excluded.

15.4.9 System lockup Request Poll

This subsection is excluded.

15.4.10 Cash Ticket Out Request Acknowledgment Poll

This subsection is excluded.

15.4.11 Cash Ticket In Request Acknowledgment Poll

This subsection is excluded.

15.4.12 Cash-Out Request Poll

This subsection is excluded.

15.4.13 EGM General Maintenance Poll

FLG

Bit6 Not Set.

GFLG

Bit0 & 1 Set

15.4.17 Hopper/Ticket Printer Maintenance Poll

FLG

Bit15 Not Set.

15.4.18 Linked Progressive Award Acknowledged Poll

This subsection is excluded.

15.4.19 EGM General Reset Poll

This subsection is excluded.

15.4.21 EGM Tower Light Maintenance Poll

This subsection is excluded.

15.5.1 Current Date and Time

FLG

Bit6 Set.

15.5.2 EXTD: Linked Progressive Jackpot Current Amounts

This subsection is excluded.

15.5.5 EXTD: Site Details

This subsection is excluded.

15.6.1 General Status Response

The STATE 1 byte hex unused values are defined as:

“0x13 Download Jackpot

0x14 PID Display”

15.6.3 Progressive Meters Response

This section is excluded.

15.6.4 Progressive Configuration Response

This section is excluded.

15.6.5 Bet Meters Response

This section is excluded.

15.6.7 Players Choice Meters Response

This section is excluded.

16 Electronic Credit Transfers and Cashless Operation (ECT)

This section is excluded.

17 Configurable Random Events (CRanE)

This section is excluded.

18 QCOM and RUGMs

This section is excluded.

19 EGM to EGM Communications

This section is excluded.

20 QCOM Command Prompt

This section is excluded.

21 Finding EGMs on the LAN (Seek EGM)

This section is excluded.

22 Ticket In / Ticket Out (TITO)

This section is excluded.

Generic Regulatory Defaults

Confirm with National Standard current default value and interpretation if applicable.

MINRTP 78%

MAXRTP 92%

4 Local Area Communications Protocol*

4.1 The specification '**QCOM Site Controller Protocol Operating Procedures Version 1.6.2 Revised 3 October, 2008**' as published by The State of Queensland, Queensland Office of Gaming Regulation, is incorporated subject to the following exclusions, amendments and additions.

4.2 The following are exclusions, amendments and additions to the specification described in 4.1. The exclusions, amendments and additions follow section headings reflective of those used in the incorporated document.

* **Note to Standard:** Health or safety matters or legislative requirements administered by other regulatory bodies such as for electrical wiring and of radio frequency emission etc are the domain and responsibility of the manufacturer, purchaser and operator of the equipment. Each of these parties is required to assure themselves of such matters. Particular note should be taken of any Laser/LED technology that is to be present in any gambling equipment.

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Where an incorporated document makes reference to the authority in the jurisdiction of issue then this is to be interpreted as the Secretary for Internal Affairs. That is Queensland Office of Gaming Regulation (QOGR) is to be interpreted as the Secretary for Internal Affairs.

This Standard is unique to the New Zealand jurisdiction and the numbering system does not have cross-references to the Australian/New Zealand Gaming Machine National Standard.

2.1 Off-line SC Operation

The first paragraph is excluded and the following inserted:

“A SC may continue normal operations when disconnected from the host computer for as long as its event and meter logs are not full, it can maintain the minimum percentage return to player (i.e. w.r.t. WAN jackpots). The following exception applies:

EGMs which are required to be RAM cleared may not be reset/initialised until the last received meters and events from the EGM prior the RAM clear are stored in the central computer.

The site controller is not required to open and close the site at the correct licensed gaming hours.”

2.2 SC Event log Full Procedure

The first paragraph of this subsection is excluded and the following paragraph inserted in its place:

“If a site controller’s event log should ever become full and the “Autonomous Mode” is not activated, the site controller must disable the affected EGM's under it via the global broadcast message and stop polling all EGM's (broadcast messages must still be sent), until such time as its event log is purged and space becomes available.”

2.7 Hourly Turnover Meters

To be provided. Intralot to advise on provision of this requirement. Data received to be stored in Data Universe

3.3 SC Power up and EGM Resumed Responding Procedure

The following to be deleted:

‘Player Choice/Bet meters’.

3.5.3 Response Timeout

The following sentence is added to the end of the subsection:

“A longer response period is acceptable provided poll cycle frequency requirements are met”

3.5.4 Inter-character Time Out

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The following sentence is added to the end of the subsection:

“A longer inter-character time-out period is acceptable provided poll cycle frequency requirements are met”

3.7.2 EGM Configuration Poll

The following table are the values to use for NZ DIA Class 4 gaming.

MAXDEN	\$2.50
MINRTP	78.00%
MAXRTP	92.00%
MAXSD	15
MAXLINES	No restriction
MAXBET	\$2.50
MAXNPWIN	\$500
MAXPWIN	\$500
MAXECT	NA

Denomination Hot Switching

This paragraph is excluded.

3.7.3. EGM Game Configuration Poll

The following paragraph is added following the third paragraph.

“The QPv1.6 VAR-lock field is set by NZ DIA SCs.

3.7.4 EGM Game Configuration Change Poll

This subsection is excluded.

3.7.5 EGM Parameters Poll

The first two paragraphs of this subsection are excluded and the following paragraph inserted in their place:

“For NZ DIA the SC must configure the EGM with Parameter poll defaults of:

Parameter	Value	Scope in MS
Reserve Feature Flag (QPv1.6)	1	One per EGM
Autoplay Flag (QPv1.6)	0 (SCs must have this value)	Not Applicable

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	hard-coded in their s/w)	
CRLIMIT Mode Flag	0	One per EGM
OPR	0x00	Global or better is fine
Large Win Lockup Limit	\$1,500	One per EGM
Credit Meter Lockout Limit	\$10,000	One per EGM
Maximum number of double-ups (DUMAX)	5	One per EGM
Double Up (Gamble) Limit (DULIMIT)	\$500	One per EGM
TZADJ (QPv1.6)	0*	NA
PWRTIME (QPv1.6)	1 minute	At least one per Venue
PID (QPv1.6)	0x03	One per EGM
EODT (QPv1.6)	Not set (effective -24 hours per day)	At least one per Venue
NPWINP (QPv1.6)	\$500	One per EGM
SAPWINP (QPv1.6)	NA	One per EGM

The last paragraph is excluded.

3.7.6. External Jackpot Information Poll (EXJIP)

This subsection is excluded.

3.7.7. Progressive Configuration Poll

This subsection is excluded.

3.7.9 System Lockup Request Poll

This subsection is excluded.

3.7.10 Cancel Credit Lockup Request Poll

This subsection is excluded.

3.7.13 Purging EGM Events

The final paragraph of this subsection is excluded and the following sentence inserted in its place:

“When section 14 “Autonomous Mode” is activated, this takes precedence over this subsection.”

3.7.14 CRanE Configuration Poll

This subsection is excluded.

3.7.15 CRanE Lockup Acknowledgment poll

This subsection is excluded.

3.7.17 Hopper/Ticket Printer Maintenance Poll

The first paragraph of this subsection is excluded and the following inserted in its place:

“\$200 for the Hopper Collect Limit

\$200 for the refill hopper amount”

The last two paragraphs of this subsection are excluded.

3.7.18 Linked Progressive Award Acknowledged Poll

This subsection is excluded.

3.7.19 EGM General Reset Poll

This subsection is excluded.

3.7.20 Specific Promotional/Advisory Messages

The first sentence of this subsection is excluded.

3.7.21 EGM Tower Light Maintenance Poll

This subsection is excluded.

3.8.3 Linked Progressive Current Amounts

This subsection is excluded.

3.9 QCOM Linked Progressives

This section is excluded.

3.11 ECT

This section is excluded.

3.12.1.5 Length Check

This requirement is amended by inserting the following paragraph:

“The largest response length processed may be lower than 160 bytes for either protocol version provided the lower byte length is consistent with EGM operation and the protocol version used by the EGM”

3.12.4. EGM Program Hash Response

3.12.4.1.

Add after the last sentence.

“Once investigation is completed and/or unable to resolve within host data DIA must be advised.”

3.12.7 EGM Event Responses

The first paragraph of this subsection is excluded.

3.12.9.2 EGM Meter Increment Reasonableness Test

The sixth paragraph of this subsection is excluded and the following sentence inserted in its place:

“All the valid increments must be easy to change parameters in the monitoring system.”

The seventh paragraph of this section is excluded.

3.12.10 EGM Linked Progressive Contribution Meter Reasonableness Test

This subsection is excluded.

3.12.11 Multi-Game/Variation Meters Response

The third paragraph of this subsection is excluded.

3.12.12 Bet Meters Response

This subsection is excluded.

3.12.13 Player Choice Meters Response

This subsection is excluded.

3.12.14 Progressive Configuration Response

The third paragraph of this subsection is excluded.

3.12.15 Progressive Meters Response

This subsection is excluded.

3.12.16 CRanE Response

This subsection is excluded.

3.12.17 CRanE Hit Event

This subsection is excluded.

3.13 SC Generated Events

The last sentence of this section is excluded.

3.13.1 SC Generated EGM Events

The following events are not required to be generated by the site controller and are excluded:

“SC-EGM Excessive Events”

“SC-EGM Unreasonable Multi-Game Meter Incr.”

The following QPv1.6 events are expected to be received and handled by site controller.

“SC-EGM Not Responding for 3 Days”

“SC-EGM QSIM in Use”

“SC-EGM Invalid Program Hash – PSA32

“SC-EGM Invalid Program Hash – SHA1”

“SC-EGM Program Hash OK”

“SC-EGM Unexp. Purge Poll PSN”

“SC-EGM Unexp. ECT Poll PSN”

“SC-EGM DLL Version Changed”

3.13.2 Site Controller Events

The following QPv1.6 events are expected to be received and handled by site controller.

“SC QCOM Communications Clobbered”

“SC QCOM Loop Down”

“SC QCOM Loop Up”

“SC NV-RTC Refreshed”

“SC RAM ERROR”

4 I.G.T. EGM Protocol operating Procedures

This section is excluded.

4.3 The following sections are inserted following section 5.

“14 Autonomous Mode

In the event of the central EMS (including the disaster recovery system) not being available, whether it is due to a natural disaster, communications failure or any other reason, the site controller at any venue must be switched automatically to an autonomous mode of operation. The action of switching site controllers to autonomous mode must be permanently recorded within the site controller and reported to the central EMS during the next polling session.

14.1 SC Operation in Autonomous Mode: The site controller must be able to store EGM data (meter & events), in the primary storage (non-volatile media), for a minimum of 31 days before the EMS host successfully polls the site controller for the data and allows the site controller to purge the event queues. Once the NV-RAM storage is nearing its capacity (99% full) and there is no communication with host, the site controller must automatically move the older set of data (event & meter snapshots) files to the hard disk, in order to make primary file storage available for the latest event or meter data. This event is recorded in the site controller’s event file and will be transmitted to the EMS host when the communication is restored.

EGM operation in Autonomous Mode: When the event queue in an EGM becomes full, the site controller receives an ‘EGM Event Log full’ message. The site controller will attempt to transmit this alarm to the EMS host. If the transmission is successful, the site controller does not enter in Autonomous Mode and awaits EMS command or polling session, in order to purge the events from EGM. If the transmission fails, the site controller enters automatically in Autonomous Mode and purges the events from the EGM queue (these events have been already saved in the site controller’s storage). This event is recorded in site controller’s event file and will be transmitted to the EMS host when the EMS host communication is restored.

14.2 Whilst in autonomous mode all fault conditions, other than site controller ‘Event Log full’, ‘Meter Log full’ or ‘EGM Event Log full’, must result in the same actions by the site controller as would occur in the non-autonomous mode.

14.3 Autonomous mode is enabled when SC NV-RAM used to store meter and event data is 99% full. Sufficient NV-RAM is to be provided such that 31 days meter, event and snapshot data from up to 30 gaming machines can be stored.

14.4 The event data calculation is based on the following minimum limits per EGM per day:

Up to 255 gaming machine events per day including QCOM mandated snapshot data depending on type of event.

Up to 24 snapshots per gaming machine per day.

15 Out-Of-Hours Operation

The site controller must be able to detect gaming activity on selected venues outside designated hours of operation on demand.”

5 Gaming Venue Electronic Meter Access*

Refer Minimum Technical Requirements for Electronic Monitoring System - QCOM version 1.5.5 for complete requirements.

5.3 EGM Meters to Report and File Format

The following Group 0 and 1 additional meters to be included:

Meter SN Groups 0 and 1

0A	Total EGM PID Accessed*
0B	Total EGM Games Won (GW).
0C	Total EGM SAP Wins* (SAP) .
0D	Total EGM Download Jackpot Wins
1A	Total Rejected Enabled Notes*
1B	Total EGM Gamble Turnover (GT)
1C	Total EGM Gamble Wins (GW)
1D	Total EGM Coins/Tokens Cleared.

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1E	Total EGM Notes Cleared.
1F	Reserved* (do not send)

6 Gaming Machine Program Signature Algorithms^{*}

6.1 The specification ‘**EGM Program Signature Algorithms Version 1.5 Revised 10 April 2008**’ as published by The State of Queensland, Queensland Office of Gaming Regulation, is incorporated.

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