

THE ASSOCIATION OF RACING COMMISSIONERS INTERNATIONAL TOTALISATOR TECHNICAL STANDARDS

Sections – Expanded Index

SECTION 1. FACILITIES AND EQUIPMENT

Sec. 1.1 Purpose, Structure & Definitions

- Baseline Envelope
- Baseline Hardware
- Baseline Network
- Baseline Software
- Change Control Process
- Demilitarized Zone (DMZ)
- Direct Control Device
- Independent Testing Laboratory (ITL)
- Intelligent Terminal
- Internal Control Systems (ICS)
- Local Area Network (LAN)
- Network Security Document
- Purpose, Structure & Definitions
- Remote Device
- System Baseline Document
- Telecommunications Services
- Totalisator Vendor
- Wagering Monitoring System (WMS)
- Wide Area Network (WAN)

Sec. 1.2 General Systems Requirements

- Cash/Sell System
- Central Processing Location
- Computer Monitoring and Network Management Systems
- General Requirements-System
- General System Requirements
- Hardware Requirements
- Network Requirements
- Network Security Document
- Physical Requirements
- Security Requirements
- Software Requirements
- System Requirements
- Totalisator Room Security
- Totalisator Rooms
- Tote Room Access
- Verification Tools

Sec. 1.3 System Baseline

- Hardware Baseline
- Inspection Tools
- Network Baseline

Sec. 1.3 System Baseline, cont.

- Network Security Document
- Software Baseline
- System Baseline
- System Baseline Auditing Requirements
- System Baseline Document

Sec. 1.4 Peripheral Devices/Systems

- Access Control Security
- Back Up Device
- Cash/Sell Terminal/Kiosk
- Control Workstations/Printers
- Data Storage Devices
- Direct Control Devices
- Dumb Devices
- Functionality and Recoverability of a Device
- General Requirements-Peripheral Devices
- Hardware Security
- Log Printer
- Master Control Terminal
- Multi-purpose Displays (Tote Board)
- Mutuel ticket information
- Paper Jams/Paper Out
- Peripheral Devices
- Post the Order of Finish
- Remote Devices
- Scope of Peripheral Devices & Telecommunications Services
- Security for Peripheral Devices
- Smart devices
- Software Security
- Stop Wagering Devices
- Telecommunications Services
- Ticketless Electronic Wagering (E-wagering)
- Tote Board
- Unique Transaction Serial Number
- User Terminals
- Voucher Information
- Wagering Information Screen Displays

Sec. 1.5 Change Control Process

- Amber-Risk Classification System
- Baselines and Interfaces Classification Guide-Diagram
- Change Control Process

Sec. 1.5 Change Control Process, cont.

- Configuration Changes
- Data Changes
- Emergency Changes to System
- Green-Risk Classification System
- Independent Testing Laboratory (ITL)
- Random Sampling
- Red-Risk Classification System
- Risk Classification System
- Risk-based Change Control Process
- System Changes-Amber
- System Changes-Green
- System Changes-Red
- Wagering Baseline Spreadsheet

Sec. 1.6 Certification & Submission

- Approval of a Totalisator Vendor's Wagering System
- Certification & Submission
- Evaluation and Assessment for Compliance
- Independent Testing Entity
- Internal Control System.
- Internal Control Systems Document
- Independent Testing Lab Certification Recommendation
- Network Security Document
- Submissions Requirements to Commission
- System Baseline Document
- System Documents
- System Testing Requirements
- Testing Requirements

SECTION 2. OPERATIONAL REQUIREMENTS

Sec. 2.1 General Management Requirements

- Business Contingency Plan
- Compliance
- General Management Requirements
- Information to Commission
- Software Selection
- Totalisator Operations Personnel

Sec. 2.2 Internal Control Systems

- American Institute of Certified Public Accounts (AICPA)
- Commission's Change Control Process
- Internal Control System
- Scheduled and Emergency Changes
- Statement of Audit Standards 70 (SAS 70)

Sec. 2.2 Internal Control Systems, cont.

- Statement on Standards for Attestation Engagements 16 (SSAE 16)
- System Operations Manual
- Systems Development Lifecycle Manual
- Unauthorized Software Changes

Sec. 2.3 Personnel Requirements

- General Requirements-Personnel
- List of Totalisator Personnel
- Network Manager
- Personnel Requirements
- Prohibition From Wagering
- Software Specialist
- Systems Analyst
- Technician
- Totalisator Operator
- Training

Sec. 2.4 Waivers for Technological Advancement for Off-site Processing

- Off-Site Processing
- Technological Advancement
- Waiver for Off-Site Processing
- Waiver for Technological Advancement

Sec. 2.5 Totalisator Network

- Common Pool Totals
- Common Pooling
- Device-to-Tote Network
- Firewall
- Help Desk
- Inter-systems Communications
- Inter-Tote Systems Protocol
- Live and Scratched Race Animals
- Network Security Document
- Odds and Probable Payout
- Official Orders of Finish
- Payout Calculations
- Pools Offered
- Standardized Track codes
- Stop Wagering Commands
- Totalisator Network
- Tote-to-Tote Network

Sec. 2.6 Data Transmission Protocols

- Approval for information exchange
- Baseline Envelope
- Data Transmission Protocols

Sec. 2.6 Data Transmission Protocols, cont.

- Device-to-Tote Network
- Remote Site
- Tote-to-Tote Network

Sec. 2.7 System Resilience & Integrity

- Business Continuity
- Communication to Devices outside a Wagering System Baseline Envelope
- Communications between Separate Wagering System Baseline Envelopes
- Communications within a Wagering System Baseline Envelope
- Connection of External Devices to Networks inside a Wagering System Baseline Envelope
- Disaster Recovery
- Emergency Procedures
- Firewall
- Internet Connections
- System Backup
- System Resilience & Integrity

SECTION 3. REPORTING, MONITORING & DATA RETENTION

Sec. 3.1 General Requirements

- 365 days
- 48 hours
- Baseline Envelope
- General Requirements-Reporting & Monitoring
- Monitoring
- Network monitoring systems
- Reporting
- Retention Period
- Wagering Reports

Sec. 3.2 Pre-Wagering Reports

- Configuration Parameter Report
- Odds Report
- Race Information Report
- System Initialization Report
- Teller/Cash Terminal Report

Sec. 3.3 Race-by-Race Reports

- Bet Report
- Calculating Price Report
- Daily Summary Report
- Probable Payout Report

Sec. 3.3 Race-by-Race Reports, cont.

- Race Summary Report

Sec. 3.4 End-of Day Reports

- IRS Report
- Money Room Report
- System Balance Report
- Wagering Device Balance Report
- Wagering Summary Report

Sec. 3.5 Ad Hoc Reports

- Account Activity Report
- Cancelled Tickets Report
- Exchange Rate Report
- Manually Cashed Tickets Report
- Network Balance Report
- Odds Progression Report
- Outstanding Ticket Report
- Outstanding Tickets Cashed Report
- Scan Report
- Stop Payment Report
- Ticket and Transaction History Report
- Wagering Device Report

Sec. 3.6 Special Reports

- 72 hours
- Report Headings

Sec. 3.7 Logs

- Account Activity Log
- Off-line Log
- On-line Logs
- System Error Log
- System Journal Log
- Teller/Wagering Machine History Log
- Ticket History Log
- User Terminal Log

Sec. 3.8 Wagering Monitoring System

- Real-Time Monitoring