

## ESI Integrity Integrity Anti-Fraud Module



ESI Integrity Inc. is the leading supplier of independent software for Security and Risk Management in gaming. Our Continuous Monitoring applications provide independent, real time monitoring of lottery, pari-mutuel and internet gaming – auditing billions of dollars of gaming world wide every year. ESI Integrity is a global company serving clients on five continents.

## Advanced Fraud Detection for Lotteries

Given the scale of monies being handled, lottery operators must exercise considerable diligence in the detection of fraud in their enterprise. The types of fraudulent activity to which lotteries may be exposed include Money Laundering, Winning Ticket File Fraud, Winning Ticket Buy Back and Retailer Fraud.

With millions of historical records generated daily, organizations need powerful and intelligent automation to detect anomalies as soon as possible.

### Proven Fraud Detection Technology

The Integrity Anti-Fraud module provides the most advanced lottery fraud detection capabilities available today.

Built on proprietary technology successfully deployed to detect insider trading for stock markets—an industry sharing several qualities with land-based and online gaming—Integrity Anti-Fraud leverages a gaming operator's expertise to develop fraud detection risk scenarios. Utilizing the rules associated with these risk scenarios, Integrity Anti-Fraud scans a gaming system's data files—millions of historical records—searching for suspicious transactions and transactional patterns.

### Features and Benefits

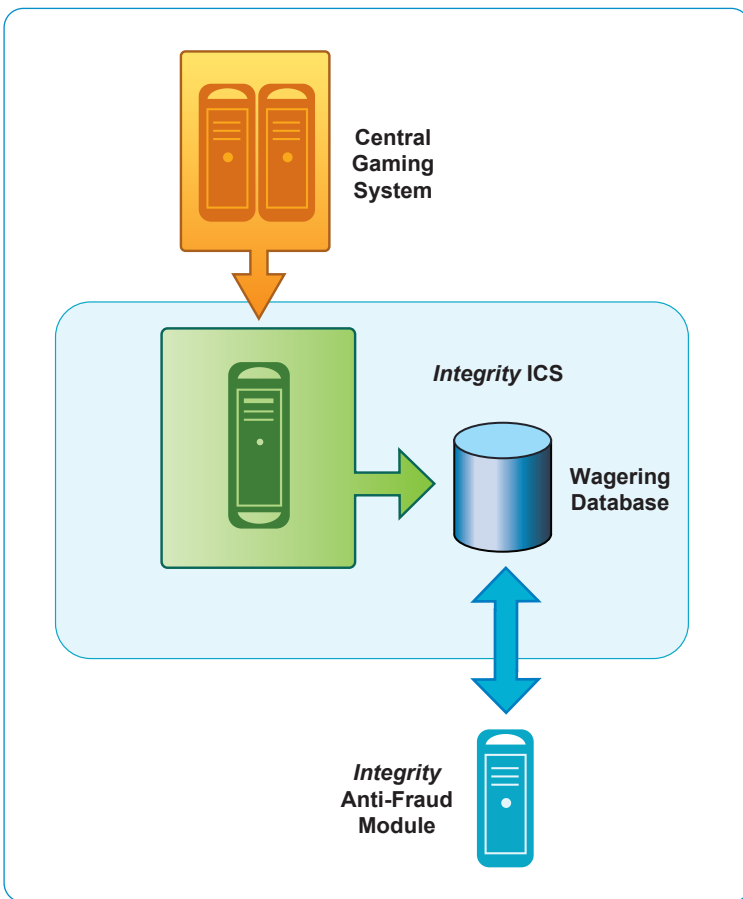
- Rule-based transaction pattern analysis provides automated detection of suspicious wagering activity.
- Sophisticated algorithms such as clustering allow Integrity Anti-Fraud to discover a wide variety of fraud types.
- Feedback mechanisms including a wizard-based GUI for security analysts to create and modify rule sets addressing the most recent fraud schemes.
- Reporting tools identify suspicious activity, enabling operators to isolate and review specific data and subsequently flag and monitor transactional activity, by account or betting venue.

## Adaptive Learning

*Integrity* Anti-Fraud utilizes the expertise of a security analyst to create programming logic or rule sets to evaluate an operator's transactional activity. *Integrity* Anti-Fraud processing applies fraud detection logic to transactional information. Within seconds of processing an operator's gaming data, *Integrity* Anti-Fraud identifies suspicious transactions and transactional patterns.

Furthermore, as cyber-criminal schemes and techniques evolve, gaming operators can easily modify *Integrity* Anti-Fraud module detection logic, and add new criteria to address the most current online criminal practices.

## Adding Anti-Fraud to an existing *Integrity* ICS



## Sample Rule Set (Money Laundering)

Available Variables

PLAYED	NUMERIC	<a href="#">delete</a>
WIN_COUNTER	NUMERIC	<a href="#">delete</a>
AVERAGE_PLAYED	NUMERIC	<a href="#">delete</a>
MONEY_WON	NUMERIC	<a href="#">delete</a>
WIN_RATE	NUMERIC	<a href="#">delete</a>
RETURN_RATE	NUMERIC	<a href="#">delete</a>
TOTAL_RETURN_OVER_AVG	NUMERIC	<a href="#">delete</a>
TOTAL_BET_OVER_AVG	NUMERIC	<a href="#">delete</a>
RETURN_AVG	NUMERIC	<a href="#">delete</a>

Available Rules

**Up** **Down** 1 IF PLAYED > 30 THEN RegularAccount

**Up** **Down** 2 IF PLAYED > AVERAGE\_PLAYED && RETURN\_RATE < 1.2 && RETURN\_RATE > 0.7 THEN MoneyLauder

**Up** **Down** 3 IF TOTAL\_BET\_OVER\_AVG > 1 && AVERAGE\_PLAYED > 1 THEN PossibleLauder

Available Classifications

Name	Warning	
MoneyLauderer	true	<a href="#">delete</a>
PossibleLauderer	true	<a href="#">delete</a>
RegularAccount	false	<a href="#">delete</a>

Otherwise

Select otherwise value:

## Introducing the *Integrity* Anti-Fraud Service Bureau

ESI is pleased to introduce the *Integrity* Anti-Fraud Service Bureau to provide your lottery with immediate Fraud Detection capabilities. This hosted service involves industry experts in lottery security and offers your lottery a number of advantages in sophisticated fraud detection.

- **Rapid Start-up**—the *Integrity* Anti-Fraud service allows operators to begin implementing fraud detection measures immediately, avoiding the delays associated with acquiring in-house expertise.
- **Established Risk Scenarios**—the Service Bureau is staffed by experts in Lottery Security, who have established a number of lottery-specific risk scenarios. Each scenario can be tailored to meet the specific needs of your lottery.
- **Expert Analysis**—the Service Bureau provides detailed analysis and recommendations for specifically-identified risks.
- **Cost-efficient**—no capital or training costs required; instead, pay on a service basis.

For more information about the *Integrity* Anti-Fraud module and the *Integrity* Anti-Fraud Service Bureau, please contact our sales team at +1 604 299 9530 or [sales@esiintegrity.com](mailto:sales@esiintegrity.com)