

Trusted Transaction

Trusted Transaction™ (TR) server is a product designed to digitally timestamp, record and verify transactions.

- It has a high-performance transaction engine processing up to 2,000 TPS¹.
- It operates 24/7/365 in a fully automated way, without operator intervention.
- For higher performance and redundancy, multiple TR servers and multiple HSM (hardware security modules) can be deployed.
- **Typical lottery configurations include:**
 - two TR servers, each with two HSMs, one Trusted Audit™ (TA) system and one Trusted Monitor™ (TM) system in a primary site and the same or reduced configuration in a backup site.
- TR server logs in real time² all transactions locally; in addition, it logs transactions to one or more remote systems: TA system or ICS, etc.

TR can be deployed together with Trusted Draw (TD – RNG server for draw games) and Trusted Play (TP - RNG server for instant win games and interactive games).

While all the functions are described in context of gaming systems, TR can be deployed for any transactional environment where transaction data integrity verification is required, e.g. personal records, medical records, financial transactions, etc.

Trusted Audit

TA system combines transactions from multiple TR servers and allows viewing transactions from all TR servers. In addition to viewing/verifying single transactions, it automatically verifies signatures for every transaction and creates an extract of all transactions logged. Depending on configuration, the extract can be in one or more .CSV files. For each business day, a separate set of extract files are created. These files can be either imported from TA server, or they can be automatically exported by TA server using FTP or sFTP.

Viewing of transactions

Transactions can be viewed directly from TR system, but is limited to local transactions. When viewed from a TA system, all transactions from all TR systems are available. To view specific transactions, a TR transaction identifier (URI – Universal Record Identifier,) assigned by TR system, is used. On TA or TM systems, either URI can be used or a transaction ID from a gaming system could be used (not currently implemented). TR server supports URI access on the same business day or for previous days. TA and TM system supports access by URI and gaming system transaction ID on the next business day, for a previous day or any days before.

Transactions can be viewed via TM user interface (search by a transaction ID via a browser) or using a XML-RPC request. TR server or TA system will locate a transaction, verify the transaction signature, and provide transaction extract in the form of two records: comma separated field description record and comma separated values of the record. Both TR servers and TA systems are configured with descriptions of each type of record. New records' layouts can be easily configured.