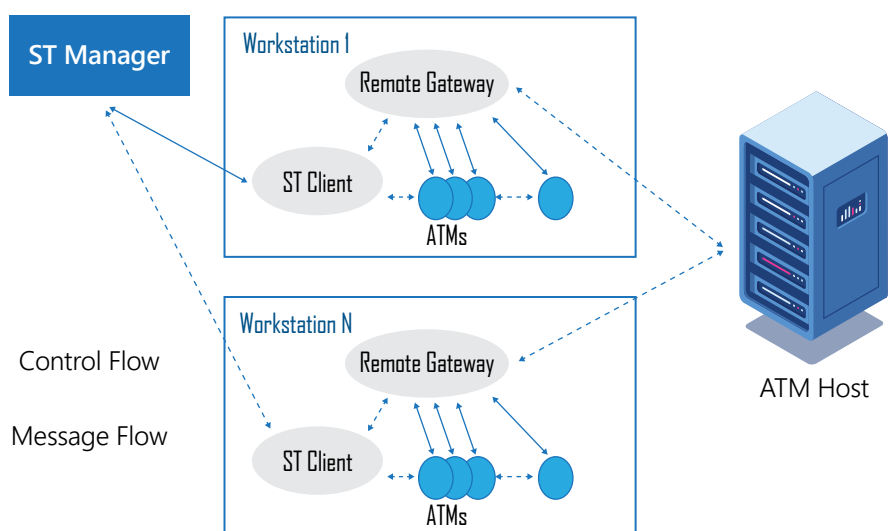## SIMstress

SIMstress (ST) provides a high performance, mature and functionally rich stress test definition and generation capability with associated reporting as indicated in the schematic and sections below.

The above diagram shows the architecture of the stress test module.

ST Manager Controls the configuration and management of ST Clients across the network. ST Manager configures the ATMs and orchestrates the stress tests to the ST Client. ST Client runs the ATMs for the transactions scenarios. Transactions are sent to the Bank host using Gateway.

Each workstation requires unique static IP on the network and virtual IPs as many as the number of ATMs it requires to run. The transaction responses are updated directly onto the centralized db. ST Manager picks up the status of the transaction from DB and shows the status of ATMs on a real-time basis. ATMs on the ST Client can process dynamic events such as downloads, key change etc.

Configuring ST Client

The ST Manager controls all details of the ST Client based on a list of workstations that are configured to run the ST Clients.

Configuring Bank Host

Bank host details such as IP address, port can be configured on ST Manager.

Defining Terminals

The IP Address of the ATM, Port, LUNO, ATM-ID and Master Key, if they are different for each ATMs, are included in the ATM definition.

Importing Simulated Project

ST Manager can import the ATM (NCR, Diebold, Wincor) project and store it in the Database (DB) as ATM type collection. There can be many projects on the ATM network such as normal ATM with Cash withdrawal, BNA enabled ATM etc.

Importing Transactions

Transaction recorded on SIMplicity™ can be imported into the ST Manager. These are transactions already tested and baselined on SIMplicity™.

Importing Cards

Pockets already created can be used for running a different set of cards. ST Manager delivers the cards to ST Client to override the card data on the record file.

Defining Scenario

Transactions imported are used here to define the scenarios the customer wishes to test. Define scenario such Fast Cash 60%, Balance Enquiry 30% and Mini statement 10% as one scenario.

Start/Stop ST Client

ST Manager has the option to start/stop ST Client.
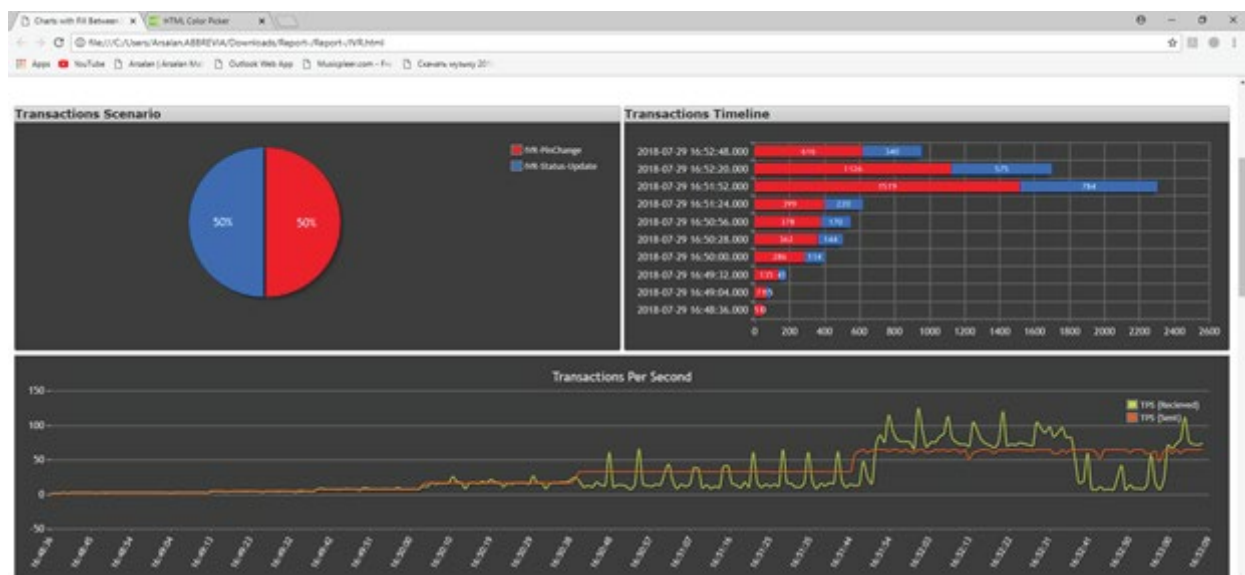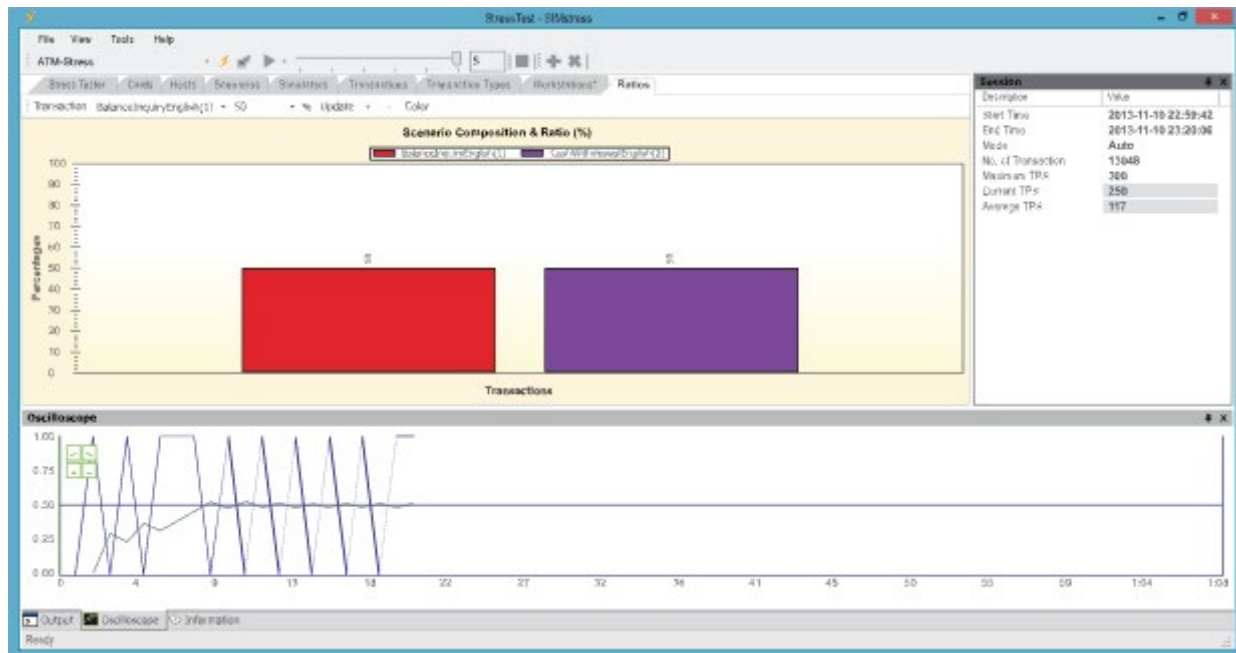
Start/Stop Scenarios

Once ST Clients are online, they can be instructed to run the scenarios defined. Start Scenario runs the transactions on the ST Client. Scenarios can be defined to run at a particular time interval or indefinitely or number of transactions. ST Manager can pick up the results and show them on UI on a real-time basis.

Visual Graphs

- Graph showing Transactions per second (TPS) over time.
- Graph showing number of transactions over time.

Reports

- Reports showing transactions performed with summary results showing the number of transactions, average response time, number of timeouts, shortest response time, longest response time etc. broken down into user-selected time intervals and reporting groups.
- Number of terminals involved, average TPS, peak TPS.
- Other ad-hoc reports can be generated based on the stress test transaction logs which are stored in the database.

About Abbrevia

Abbrevia is an innovative provider of leading-edge payments test automation platform for banks and third-party processors with global customer base.

We realise that today's payments strategies focus on flexibility and technology to meet the challenges of the ever-changing business environment by cultivating an innovative, efficient, customer oriented and quality conscious culture.

Our pioneering test automation platform, SIMplicity™, enables our customers to automate their complete testing processes yielding immediate productivity gains, improved quality, reduced costs and faster time to market for new services.

We help our customers to help themselves.

Our Products

- **SIMplicity™ ATM** - Simulates any ATM type for automated and unattended testing of any ATM Switch with record and replay facility

- **SIMplicity™ XFS** - CEN/XFS compliant product that simulates any ATM device for testing of ATM applications such as Aptra, Agilis, Procash, Vista, TellMe, etc.

- **SIMplicity™ Network** - Simulates any POS device, any host and all ICS interfaces such as Visa, MasterCard, Amex, CUP, JCB, etc.

- **SIMstress** - for stress and volume testing at desired TPS for transaction peak time management, capacity planning and identification of problems and bottlenecks

Our Services

We have proven experience in providing EMV project management, technical implementation, test and certification services covering all aspects of the EMV processing value chain including:

- ATM/POS terminal interfaces, acquiring / issuing host interfaces, national and regional network interfaces

- Project management and execution of ICS EMV project planning and processes for banks and national networks

- Technical support for configuration, testing, analysis and certification of ATM and POS acquiring

- Network interface certifications including Visa SMS, Visa Basel, MasterCard MDS, MasterCard CIS and MasterCard Network Interface Validation NIV

Partners and Clients