

tru gateway

360° Activation and  
Provisioning Middleware



## **trugateway™**

*360° Activation and Provisioning middleware*

Scalable, Modular and Versatile, trugateway is the dynamic interface between many of today's activation platforms and bespoke downstream provisioning systems (such as Digital TV Conditional Access System platforms).

Communication Service Providers can now benefit from integrating the best in class provisioning technology through a straight forward one-time install.

trugateway performs critical functions within the provisioning chain together with a powerful decision support based rules engine.

And by choosing trugateway, MSOs can have a one touch view of their customers through a single browser interface.

## **trugateway FEATURES**

- Qualifies, translates and verifies activation requests received from (typically) one or more billing and customer support systems in a cost effective, efficient and secure manner.
- Delivers translated messages to any single or multiple downstream systems in any format required.
- Full historical audit trail of each provisioning request through a browser based management console.
- Assured - 24/7 with no lost requests, even in unplanned downtime.
- Surge - protects the downstream system from heavy traffic spikes through dynamic throttling.
- Queues - allows operations staff to give priority to specific request types.
- Application control through a browser based management console.

## **TECHNICAL DETAILS**

The trugateway platform uses the best of open source Java technologies and adheres to many industry standards. It works with a variety of application servers and databases and provides web services for a SOA solution.

trugateway is a 100% pure Java application written to the Java JDK 1.5+ and implemented using a three layer architecture comprising Core, Digital Provisioning Engine (DPE) and Custom extensions.

trugateway implements the industry standard XML protocol for inbound provisioning requests. A sophisticated rules and decision engine translates provisioning requests into the physical Conditional Access System (CAS) API calls necessary to provision service.

trugateway rules and decisions engine allows each trugateway installation to be fully customized to meet each Communication Services Provider's unique product set and provisioning requirements.

trugateway rules and decision engine provides a highly optimized XML based extensible programming language which is pre-compiled during trugateway startup for maximum processing performance.

trugateway rules and decisions are defined using sophisticated programming constructs including conditional statements, branching, data mapping and translation operations.

trugateway architecture is designed to allow pluggable input and output connectors to provide the flexibility to interface to any and all types of external interface protocols and API requirements. Custom connectors can be quickly, easily and cost effectively implemented and integrated into trugateway.

Full database journaling of all provisioning requests is performed to ensure a complete audit capability and to provide detailed data views for use with trugateway Manager.

A telnet command interface allows extensive management and control of trugateway. Public web services are also provided to allow third-party client applications to perform similar control operations.

trugateway provides full multi-threading, queuing and asynchronous processing of transactions to ensure high performance, while queuing and asynchronous processing also provide transaction throttling to match the transaction processing capabilities of external interfaces. Through the telnet and web services interfaces it is possible to dynamically stop, start and pause processing threads and queues.

trugateway Manager is a full browser based GUI application running on the industry standard Tomcat and GlassFish web servers. It interfaces to trugateway through the trugateway public web services layer and provides full application control and rich transaction analysis, monitoring and diagnostic tools.

trugateway Monitor performs system health checks for database connectivity, CAS availability, alert queue monitoring, and memory usage. A GUI dashboard and traffic lights provide highly visual feedback on system status.

trugateway Alert System provides configurable alerts delivered as emails, SMS text messages, SNMP traps, JMS MQ and NetCool alerts.

#### OPERATING PLATFORMS

- Sun Solaris Version 9.x and 10.x.
- Windows Server 2003+
- Linux
- AIX / HP-UX

#### ARCHITECTURE

- 100% Java JDK 1.5+ based
- Three layer model – Core, DPE, Custom
- Pluggable Input and Output connector modules
- SOA web services and web services supervisor
- Tomcat and Glassfish web server
- Browser based GUI Manager
- Hot standby for failover – in plan

#### DATABASES

- Oracle 10g / 11g – single cluster and multi-cluster
- DB/2
- SQLServer – in plan
- Informix – in plan

#### PROTOCOLS AND INTERFACES

- XML
- SOA web services
- telnet

#### trugateway MANAGER

- Start and Stop trugateway
- Start, stop and pause transaction queues
- Smartcard/Set Top Box pairing history
- Customer pairing history
- Reports failed, killed and rejected provisioning transactions
- CAS API call history
- Transaction search capability
- trugateway user management (create user, edit user, authorize user)

#### trugateway MONITOR

- Database connectivity
- CAS connectivity
- Memory usage
- Queue statistics
- Traffic lights
- Performance Dashboard

#### trugateway ALERTS

- email
- SMS text
- SNMP 2.0 traps
- JMS MQ
- NetCool

#### ABOUT ZENTIVE

Zentive is a leading independent software platforms provider and integration business, helping Communication Services Providers become more agile and dynamic through the use of its specialist know how.

#### CONTACT

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