NEWNET PRODUCT SHEET

Total Control STG

Powerful High-Density Platform Designed for Processing Hundreds of Millions of Transactions

Faster Transactions

Reduces modem hand shake time by 75% and connection time to less than a second

Supports Latest Standards

Transaction protocols supported include most recent VISA I/ II, synchronous transaction protocols like ISO 8583, TPDU.

High Density

Supports up to 8 E1/ T1s optionally expandable to 16E1/ T1s. Can be stacked for linear capacity expansion.

System Redundancy

Maximum uptime achieved through cluster based architecture providing; load balancing, redundancy and resilience. Redundant power supplies.

POS Terminal Support

Supports fixed and non-fixed POS terminals, eliminating need for hardware replacements.

Standards Compliance

PCI DSS security standards compliant transaction switching and routing gateway system.

DIAL BASED SECURE TRANSACTION AGGREGATION & ROUTING

The Total Control Secure Transaction Gateway-Dial version 3.0d (STGd) is a market leading solution for carrier class transaction network service providers. This suite can enable fast transaction processing of credit card authorizations, debit card fund transfers, health benefit authorizations, electronic benefits transfers, and other communications involving single-session transfer of data.

The Total Control STG is a high density dial transaction transport system designed to run on industry standard, high performance 2U rack mount hardware. It is designed for future expansion with two Intel Sandy Bridge processors onboard with advanced high speed modem processing and DSP capabilities. This Secure Transaction Aggregation and Intelligent Routing & Switching System offers capability to support transactions from dial terminals to be completed rapidly and economically.

The Total Control STG can be used for transaction transport over an IP or X.25 network. The transaction gateway speeds transaction times with features such as Fast Connect, (reduces or eliminates steps such as alerting, audible ring, billing delay, answer tone, and call termination); and supports transaction protocols such as VISA I/II and Synchronous Data Link Control (speeds calls and reduces traffic to a processing host by up to 50%) with full protocol emulation.

Total Control STG uses DNIS number or transaction data fields like TPDU NII to route debit, credit, POS, healthcare, and EBT transactions to the host server over IP networks. The transaction processing system generates transaction specific Call Detail Records (CDRs) to Accounting server for transaction reporting, billing, monitoring etc. The system offers advanced IP routing for network traffic using network routing protocols (RIP, OSPF). The system is compliant with PCI DSS standards and provides secure remote access using Secure Shell (SSH).

High Capacity in a Small Form Factor

Provides high density modem span capability with up to 8E1/T1s and optionally expandable to 16E1/T1s per 2U Server form factor and can be stacked for up to thousands of DS0s.

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SECURE PAYMENT TRANSACTIONS

Asynchronous and Synchronous Calls

Supports Synchronous and Asynchronous calls on the same system.

Clustered Architecture

Multiple STG systems can be deployed in a clustered architecture with load distributed across these systems along with high availability and redundancy. All the deployed systems can be managed from one location by a single web based management GUI. This provides for easy scalability – scaling up is simply a matter of adding new systems.

VISA Protocol

Enhanced support for the most current VISA standard makes the Total Control STG the perfect solution for legacy, point-of-sale and host applications.

TPDU Routing

Total Control STG supports Transport Protocol Data Unit (TPDU) routing, providing the ability to complete transactions with greater efficiency and flexibility.

Transaction Protocol Support

- VISA I/II
- Synchronous Transaction Protocol (ISO 8583)
- ISO 20022 (XML)
- Full Emulation
- Full Emulation/No Acknowledgment
- ENQs Only
- ENQs Only No Framing
- ENQs Only No LRC
- ACK/ENQs Only
- ACK/ENQs Only No Framing
- Transparent
- Follow Application Type
- Full/No Ack Disconnect
- TPDU NII Routing

DNIS Based Configurable

- Synchronous/asynchronous Transaction Calls
- Primary and Secondary IP Destination
- Address and Range of TCP Ports
- Disconnect on Clear Request X.25 Profile
- Modem Parameters
- Protocol Emulation Settings
- ANI Packet Verification
- Accounting/Reporting
- Buffers up to 4 MB of Accounting Statistics

Fast Connect

- Fast Connect 1200 and Fast Connect 2400

Physical Interfaces

- Up to 8 E1/T1 Optionally Expandable to 16 E1/T1
- WAN/LAN: RJ-45 (4 ports of 1Gbps Each)

Hardware Chassis

- 2U Rack Mount Server
- Dimensions
  - *Height:* 3.44”
  - *Width:* 17.54” (Standard 19” Rack Mountable)
  - *Depth:* 29.5”

Operating Requirements

- 100-120 VAC, 200-240 VAC
- Max Power Consumption: 526W @100 VAC
- Nominal Operating Range:
  - *Temperature:* 10 to 35°C
  - *Humidity:* 10% to 90%
- Non-Nominal Operating Range:
  - *Temperature:* -30 to -60°C
  - *Humidity:* 5% to 95%
- Shipping Conditions: -40 to 60°C

IP Protocol Suite

- RIP, OSPF
- NTP
- Radius
- SSH
- IPSec
- DNS
- SNMP

Additional Options

- Analog Line Support
- SNA Interfaces