AccessView Accounting Server 3.0

Cloud Edition & Server Edition: High performance database server for recording, monitoring, and billing of short duration transactions.

Key Benefits

- Cloud, DC Support
- Customer Billing
- Transaction Monitoring
- Reports Generation
- Redundancy Options
- Data Replication
- Real Time Traffic Pattern Reporting

Transaction statistics, on a per-customer basis, not only supply the critical data for charging and billing, but provide information on usage patterns, as well.

Transaction statistics, on a per-transaction basis, provide a fine granularity for tracking performance statistics, and can help pinpoint errant behavior of the system or an end user.

- Command Line Interface
- User friendly Installation
- Software Upgrades
- Redundancy Replication
- Database Replication

The AccessView Accounting Server version 3.0 (Cloud Edition & Server Edition) is an integral part of NewNet's next generation transaction routing suite of products. AccessView Cloud Edition and Server Edition captures accounting and network statistics from Secure Transaction Cloud application and Total Control STG Dial/IP, AccessGuard Mobile Broadband IP transaction systems respectively, and then processes and stores them in a database. The data captured by the accounting server supports subscriber billing, transaction recording, report generation, network performance monitoring, and system modeling and measurements.

AccessView represents a major advancement in terms of offering a Server solution based on Java that is primarily targeted to runs on the most widely available Operating Systems of Windows in both the Cloud and Datacenter environments. Cloud Edition of AccessView runs in Windows server and MySQL database in cloud environment of major cloud service providers or private clouds.

On a per-customer basis, transaction statistics not only supply the critical data for billing, but also provide information on usage patterns. On a per-transaction basis, transaction statistics provide the granularity required to track performance statistics and can help pinpoint errant transaction.

Real-Time Viewing of Data

Real-time data is reported to AccessView at the end of each call enabling customers to monitor and build a custom summary table. On a system-wide basis, transaction statistics can be used for traffic analysis according to the time of day, system components, offered load, and transaction routes. AccessView provides the convenience to generate various reports for planning and monitoring purposes.

Customer Interface Options

Easy-to-use customer interface options allows customers to retrieve, modify, and remove records from the server for performance monitoring, billing, day to day maintenance and long term backup.

AccessView can provide fully redundant designs with active-standby configuration and data replication allowing the highest availability even if one network's interrupted.

Features And Functions

- Adjustable Accounting/Network
- Statistics Storage Structure
- Statistics Storage
- Report Generation
- User Friendly Installation
- Transaction Statistics for Daily, Monthly and Yearly Periods

- Redundancy
- Software Upgrades
- Support 1000s of CDRs concurrently
- Log Messages in File/Console/System logs
- Backup of Accounting and Network Statistics

NewNet
SECURE TRANSACTIONS

Technical Specifications

Real-Time Viewing Data: Real-time data is recorded by the AccessView at the end of each call. Network operators can monitor and build a subscriber summary table using the most recent data. On a system wide basis, transaction statistics can be used for traffic analysis according to the time of day, system components, offered load and transaction routes.

Interface Options: Easy-to-use interface options allow network operators to retrieve, modify, and remove records from the server for performance monitoring, billing, day-to-day maintenance, and long-term backup.

Resource/Hardware Sizing based on Traffic Volume: For AccessView 3.0 Server Edition, systems supporting Java and MySQL DB can be used as server. MySQL DB can be an external DB or installed on the same hardware. Depending on the amount of CDRs to be stored, the storage need be sized. Estimate of 0.5GB to1GB disk space per 1M CDRs based on regular of extended fields to be stored apart from system and database overheads. AccessView Cloud Edition operates in a virtualized environment and for DB requires virtual MySQL RDS resources in public/private cloud.

Dial Transaction Statistics Fields

• System Name	• Training Time	• Protocol Stack
• Modem Number	• Total Connect Time	• Host Address
• Date	• Total Bytes to the Modem	• Disconnect Reason
• Time	• Total Bytes to the Host	• Connect Speed
• DNI	• Total Bytes from the Host	• Retransmissions to POS
• ANI	• Host Response Time	• Retransmissions to Host
• DNIS Object	• Duplicate Transactions	• First X Bytes of Transaction Data

Software Requirements:
• Oracle Java 1.8
• MySQL Database Community/Standard/Enterprise Edition 8.0
• Windows Server 2020

Hardware Requirements(SE)/Virtual Resource(CE)
Windows Server
• 2 x Intel Xeon Processors
• 8 GB RAM
• 500GB/1TB SSD

Virtual Resources:
• 2 x 2.4GHz Intel processors
• 8 GB RAM
• 500 GB/1TB storage

Redundancy
• Active-Standby configurations on the transaction systems
• DB replication for data redundancy

Job Scheduling
• Exporting of accounting and network statistics to flat files
• Storage of accounting and network statistics
• Deleting accounting and network statistics

Capacity
• Up to 120 Transaction Gateway systems
• Supports Small, Medium & Large configurations
• Up to 3,000 transactions/sec

Configuration

| System	Trans/ Sec.	Max Sys	Max Storage (Records)
Access View- Basic 1000	1000	13	50 Million
Access View- Enhanced 2000	2000	50	100 Million
Access View- Premium	3000	120	250 Million

AccessView Data

Below is a summary of list of Transaction session related information extracted by AV for reporting purposes.

- System Name
- Session Id
- Service Type
- Session Sequence Number
- POS Transport Protocol
- POS Transport Port
- POS Transport IP Address
- POS Transport DNS
- Terminal ID
- TPDU NII
- Transaction Identifier
- Ingress Transport Protocol
- Ingress Transport Port
- Ingress Transport IP Address
- Ingress Transport DNS
- Host Transport Protocol

- Host Transport Port
- Host Transport IP Address
- Host Transport DNS
- Visa Transaction Mode
- SSL Cipher Suite
- SSL Compression
- Security Protocol
- Call Start Ingress Sec
- Call Start Ingress Msec
- Call Connect Ingress Sec
- Call Connect Ingress Msec
- Call Handshake Comp Time Sec
- Call Handshake Comp Time Msec
- Call End Time Sec
- Call End Time Msec
- Call Duration Connect to Disconnect

- Call Termination Cause
- Response Time Host
- SSL Alert Type
- SSL Error Code
- Transaction Bytes Sent to POS
- Transaction Bytes Sent to Host
- Transaction Bytes Received from POS
- Transaction Bytes Received from Host
- Transaction Bytes Lost
- Duplicate Transactions
- Re Transmission POS
- Re Transmission Host
- NTP Time Zone
- Transaction Protocol Type
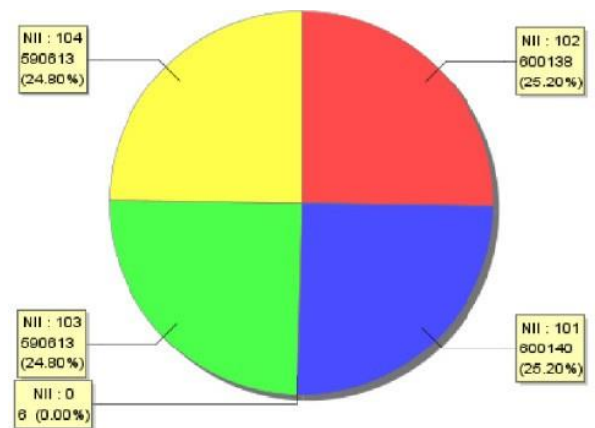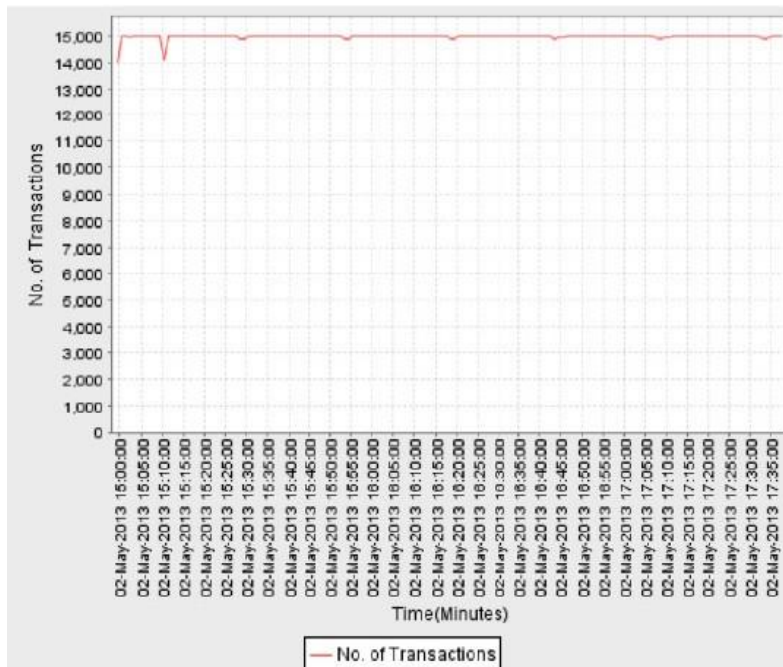- Ingress Interface Number

Optional fields that may be reported:

- Action Code to report success/failure of Authorization response.
- Transaction Amount
- Merchant ID
- BIN (Bank Identification Number)

AccessView Monthly Transaction Summary
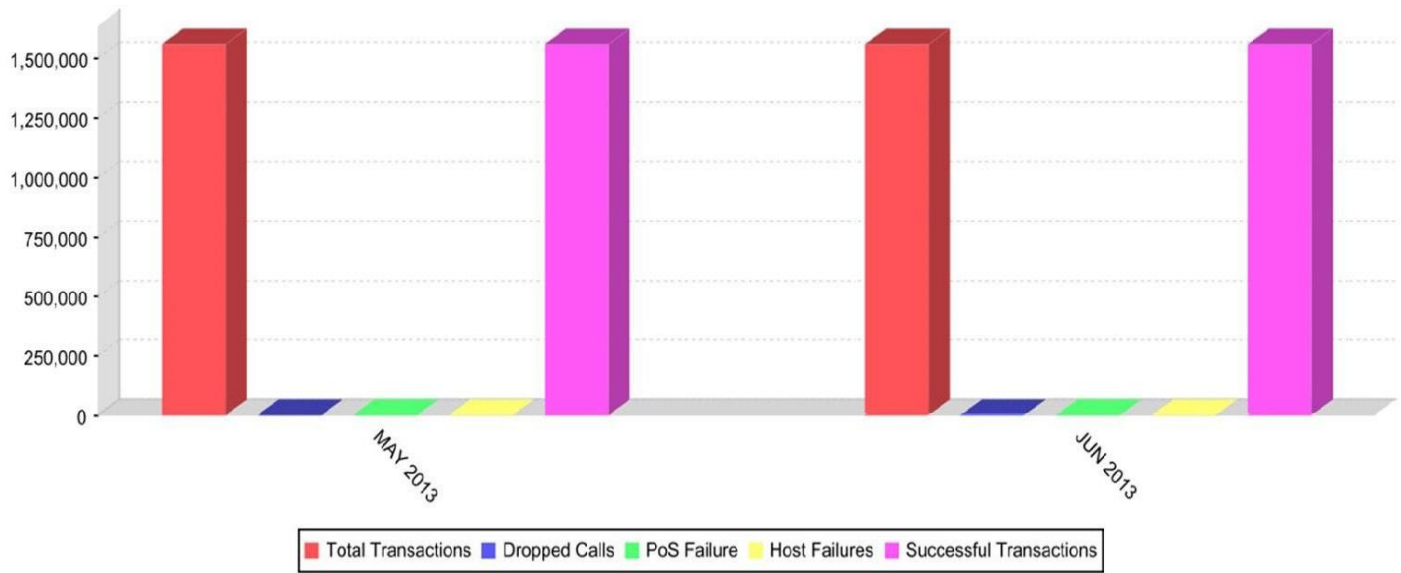
Minute to Minute Transactions(System Level) and Traffic Distribution

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