

AccessView Accounting Server 2.0

PRODUCT SHEET

Key Benefits

High performance database server for recording, monitoring & billing of short duration transactions.

- **Multiple OS 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**
- **Software Upgrades**

Overview

The AccessView Accounting Server version 2.0 is an integral part of NewNet's next generation transaction routing suite of products. AccessView captures accounting and network statistics from the Total Control Dial and AccessGuard Mobile/Broadband IP transaction systems, 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 Accounting Server 2.0 represents a major advancement in terms of offering a Server solution based on Java that runs on Windows and Solaris systems thereby overcoming the OS barriers and making the solution worthwhile in all types of environments.

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 are recorded to AccessView at the end of each call. Customers can monitor and build a custom summary table using the most recent data on real-time. 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.

Customer Interface Options

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

Real-Time Reports

AccessView provides the convenience to generate various reports for planning and monitoring purposes.

Redundancy

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

Features And Functions

- | | |
|--|---|
| • Adjustable Accounting/Network | • Redundancy |
| • Statistics Storage Structure | • Software Upgrades |
| • Statistics Storage | • Support 3000 CDRs/Sec |
| • Report Generation | • Log Messages in File/Console/System logs |
| • Transaction Statistics for Daily, Monthly and Yearly Periods | • Backup of Accounting and Network Statistics |
| • User Friendly Installation | |

Technical Specifications

The AccessView Accounting Server enables:

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.

Hardware Sizing based on Traffic Volume: Systems supporting Java and Oracle DB can be used as server HW for AccessView 2.0 application. Oracle DB can be an external DB or installed on the same hardware. Depending on the amount of CDRs to be stored, the storage need to be sized. Estimate of 300MB hard disk per 1M CDRs to be stored apart from system and database overheads

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 Repsonse Time | • Retransmissions to Host |
| • DNIS Object | • Duplicate Transactions | • First X Bytes of Transaction Data |

Software Requirements:

- Oracle Java 1.7
- Oracle Database Enterprise Edition 11g R2 / Oracle Database Express Edition 11g R2
- Windows Server 2008

Hardware Requirements

Oracle Server

- SPARC T4-1 Server 8Core 2.85GHz
- 8 GB RAM
- 300GB SAS
- Optional 2x100GB SSD

Windows Server

- 2 x E5-2620 Xeon Processors
- 8 GB RAM
- 500GB SAS hard disk

Redundancy

- Active-Standby configurations on the transaction systems
- DB replication using Oracle Dataguard or similar mechanism 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 configuration
- Up to 3,000 transactions/sec

Configuration

System	Trans/ Sec.	Max GW	Max Storage (Records)
<i>Access View- Basic 1000</i>	1000	13	50 Million
<i>Access View- Enhanced 2000</i>	2000	50	100 Million
<i>Access View- Premium</i>	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	• Host Transport Port	• Call Termination Cause
• Session Id	• Host Transport IP Address	• Response Time Host
• Service Type	• Host Transport DNS	• SSL Alert Type
• Session Sequence Number	• Visa Transaction Mode	• SSL Error Code
• POS Transport Protocol	• SSL Cipher Suite	• Transaction Bytes Sent to POS
• POS Transport Port	• SSL Compression	• Transaction Bytes Sent to Host
• POS Transport IP Address	• Security Protocol	• Transaction Bytes Received from POS
• POS Transport DNS	• Call Start Ingress Sec	• Transaction Bytes Received from Host
• Terminal ID	• Call Start Ingress Msec	• Transaction Bytes Lost
• TPDU NII	• Call Connect Ingress Sec	• Duplicate Transactions
• Transaction Identifier	• Call Connect Ingress Msec	• Re Transmission POS
• Ingress Transport Protocol	• Call Handshake Comp Time Sec	• Re Transmission Host
• Ingress Transport Port	• Call Handshake Comp Time Msec	• NTP Time Zone
• Ingress Transport IP Address	• Call End Time Sec	• Transaction Protocol Type
• Ingress Transport DNS	• Call End Time Msec	• Ingress Interface Number
• Host Transport Protocol	• Call Duration Connect to Disconnect	

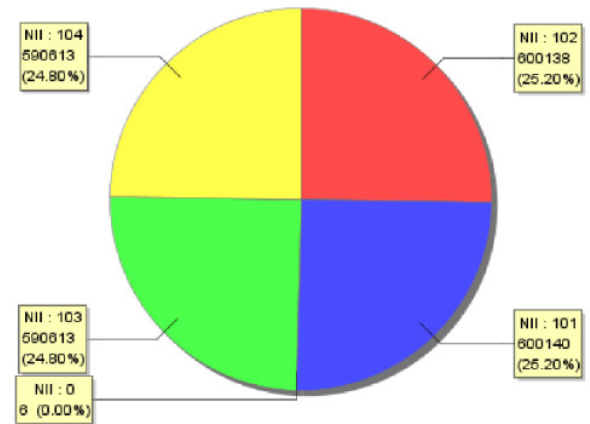
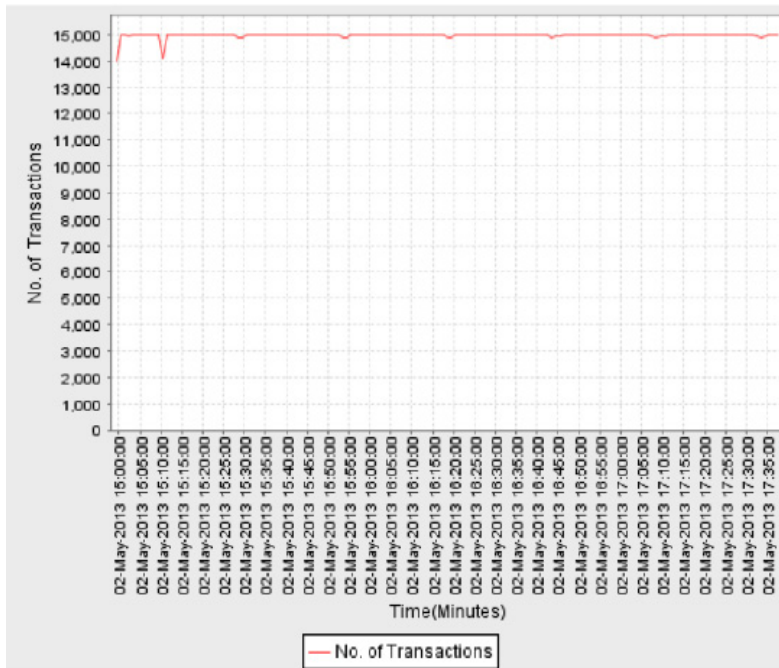
Optional fields that may be reported:

- 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



NewNet Communication Technologies is a global provider of innovative solutions for next generation mobile technologies. NewNet specializes in Mobile Messaging, Interactive Voice Response, Secure Transaction Transport, Wireless Broadband and Network Optimization solutions that enable global communication. Founded in 1988, NewNet solutions have reached millions of end users in over 90 countries.