

The AVM Access Server connects your local-area network to the Internet, to telecommuters and to branch offices. The AVM Access Server meets both the specific needs of smaller LANs and high demands for performance, security and scalability.



- Integrates remote users and networks within the local network
- Provides Internet access for the local network
- Supports ISDN, ADSL, GSM and VPN
- Allows for direct dial-in connections and VPN links via the Internet
- Includes built-in firewall

## AVM Access Server

### Secure Access for Your Network

#### Connects Networks and Workstations

The AVM Access Server provides a secure Internet connection for the company network, extending a smooth information flow to remote company locations. The AVM Access Server reliably and safely connects a company network to the Internet, to remote PCs and notebooks, and to remote LANs, with built-in support for VPN, ISDN, ADSL and AVM KEN!. The benefits for users are:

- Optimum flow of information, without delay and throughout the company—even among scattered locations
- Controlled access to e-mail servers, file sharing or other applications in the central corporate LAN for remote subsidiaries, branch offices, partner companies, and telecommuters
- Employees in the field have reliable access via VPN, ISDN or cellular dial-in connections

The AVM Access Server runs as a service on Windows 2003, Windows XP, Windows 2000 or Windows NT 4.0 in the LAN. Remote sites use either AVM NetWAYS/ISDN for a stand-alone PC, or an AVM Access Server for a network.

#### Virtual Private Networking

The AVM Access Server provides remote users and networks with low-cost access by creating a virtual private network (VPN) via the Internet. The only connection charges incurred, regardless of the distance, are those for Internet access. The AVM Access Server uses the advanced, secure and efficient VPN protocol IPsec. The advantages: maximum performance, security and compatibility.

The Access Server protects your data on its path through the Internet using state-of-the-art encryption techniques: 3DES and the new "Advanced Encryption Standard" (AES), with key lengths of up to 256 bits, ensure the privacy of your data. Payload compression with IPComp boosts data throughput by up to 200%—regardless of the Internet provider. Due to the support of common Internet providers (including those assigning dynamic IP addresses) at both ends of the VPN tunnel, the AVM Access Server can take advantage of low-cost standard Internet access rates.

#### ISDN Access

In addition to VPN, the AVM Access Server also supports conventional direct dial-in connections via ISDN, GSM and the fast cellular data service HSCSD. With active AVM ISDN controllers, the Access Server provides up to 120 B channels for such connections. The AVM Access Server uses the open standard "PPP over ISDN", including data compression and channel bundling. This ensures simplest remote access and high compatibility with many clients and routers, and performance optimized for ISDN. The advantage: high, guaranteed data throughput in both directions with minimum transmission delay.

#### Security

The AVM Access Server has a built-in firewall to protect the local network as well as ISDN, ADSL and VPN communications. Right after the installation, the LAN is dependably protected against unauthorized access from the Internet. Access by remote company sites and users can also be restricted in every detail in using the integrated packet filters. Stateful inspection and network address translation (NAT) provide additional security.

## Capabilities

### Firewall and VPN-secured Internet access through:

- ADSL controllers (FRITZ!Card DSL)
- ADSL modem/bridge and Ethernet adapter (PPPoE)
- ISDN controllers
- Access via an existing Internet connection using KEN! or KEN! DSL
- Access via an existing Internet connection through a router

### Connect stand-alone PCs or PC networks at remote locations to the LAN:

- Via the Internet connection (VPN)
- Via direct ISDN connections through an ISDN controller
- Versatile, configurable firewall to protect the local network

## LAN

- Ethernet 10/100/1000 (multiple interfaces)

## Comprehensive User Management

- Internal user management (groups and users) and RADIUS
- Unlimited number of users configurable
- Informative statistics of usage

## VPN and IPsec Details

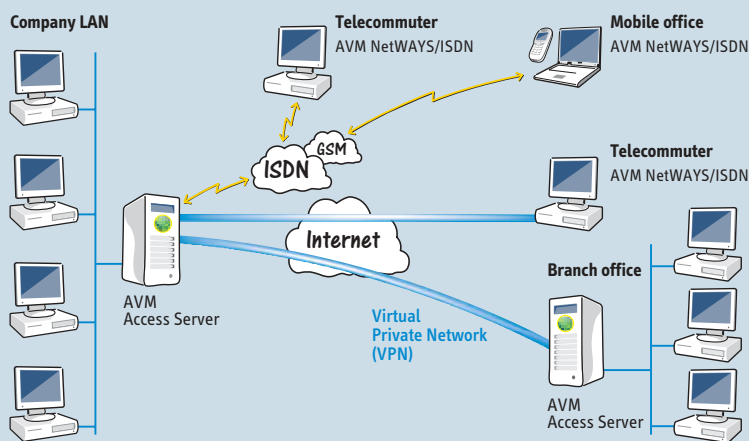
- Unlimited remote networks configurable
- Any Internet service provider can be used (no static IP address necessary)
- Permits VPN connections to remote networks and individual PCs
- Easy, wizard-driven configuration

## Cost-cutting Line Management

- Short-Hold Mode: Connection set-up and clear-down on demand in the background; logical connections are maintained
- Special filtering and spoofing for Microsoft networking (NetBIOS)
- Costing based on up-time, traffic volume and charges for each user, Internet connection, and remote network link
- Assignment of ISDN costs to the central LAN or the remote site
- Remote activation of Internet connections by voice telephone call

## Simple Operation

- Intuitive, wizard-driven user interface
- Context-sensitive online help
- Extensive diagnostic functions
- Optional web-based administration interface



## ISDN

Works with all AVM ISDN controllers using CAPI 2.0 (subject to any restrictions of the ISDN controller model that are specific to the platform, the operating system and the application). Features in conjunction with active ISDN controller models B1, C2, C4, T1 and T1-B:

- Scalable from 2 to 120 channels, even after installation
- Dial-up connections with DSS1 and leased lines (Digital 64S, 64S2, 2MS)
- Point-to-multipoint and point-to-point lines; public ISDN access and PBX extensions
- Support for ISDN BRI and PRI lines
- PPP over ISDN, HDLC, V.110 (for GSM)
- Channel bundling (PPP-Multilink, BAP/BACP), static and dynamic

## DSL

### FRITZ!Card DSL

- Full Rate ADSL, U-R2, G.992.1
- PPPoE and PPPoA

Also supports ADSL access through an external ADSL modem/bridge connected by an Ethernet adapter using PPPoE.

- VPN configuration for each client can be exported in an encrypted file for transmission by e-mail, floppy, etc.
- Supports the following IPsec modes: Transport and Tunnel Modes, Authentication Header (AH, RFC 2402), Encapsulated Security Payload (ESP, RFC 2406), SHA-1, MD5; DES, 3DES, AES (128, 192, and 256-bit key lengths); IPComp (RFC 2393) with Deflate (RFC 2394), LZS (RFC 3051), LZJH (RFC 2395); Internet Key Exchange (IKE, RFC 2490), Main Mode and Aggressive Mode; authentication using preshared keys and X.509 certificates
- Integrated local X.509 certification authority

## Internet Standards

- IP masquerading, network address translation, port forwarding
- Packet firewall, stateful inspection filter, pre-defined filter profiles for Internet connections
- DNS forwarding to dynamically assigned DNS servers
- Dynamic DNS support
- Static IP routes or RIP (Routing Information Protocol)

## System Requirements

- Windows 2003, Windows XP, Windows 2000 and Windows NT 4.0 (Server or Workstation version)
- Pentium or comparable CPU at 150 MHz or above; 64 MB of RAM; 50 MB of hard disk capacity for installation; up to 250 MB in operation (for log files)
- Ethernet LAN adapter with fixed IP address
- For ADSL: AVM FRITZ!Card DSL with PPPoE and PPPoA, or external ADSL modem via Ethernet adapter and PPPoE
- For ISDN: AVM ISDN controllers using CAPI 2.0 (subject to any restrictions of the ISDN controller model specific to the platform, the operating system and the application).

## Product Variants and Package Contents

- AVM Access Server (Part No. 2000 1878), including 5 NetWAYS/ISDN licenses, up to 10 simultaneous VPN and 10 simultaneous ISDN connections
- AVM Access Server Basic (Part No. 2000 1880), up to 10 simultaneous VPN and 10 simultaneous ISDN connections
- AVM Access Server PRI (Part No. 2000 1879), including 10 NetWAYS/ISDN licenses, unlimited simultaneous VPN connections and 120 simultaneous ISDN channels

## Updates are also available from the following products:

- AVM ISDN MultiProtocol Router for Windows 2000/NT
- AVM ISDN Access Server for Windows 2000/NT
- AVM NetWare MultiProtocol Router for ISDN
- AVM NetWare Connect for ISDN

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