



The Tun family of host access solutions includes specific modules available individually for limited implementations. Tun Emul provides PC-based or multi-user Windows connectivity for over 30 terminal emulation types. Tun Net is available for TCP/IP connectivity to key network utilities. Both modules provide the same reliability and features as Tun Plus 2006 — the comprehensive host access product from Esker.

### **Tun Emul — customizable terminal emulation**

The Tun Emul module provides terminal emulation for more than 30 host types, including IBM® 3270 and 5250 — as well as full 3287 and 3812 printer support — HP®, DEC® VT, SCO® Unix, and others.

#### **For PC-to-host or multi-user windows**

Available for either PC-based or Citrix®/Microsoft® Windows® Terminal Services implementation, Tun Emul provides critical host access to all types of users — from green-screen power users to novices requiring limited functionality.

Administrators use the powerful customization tools included with Tun Emul to add background colors, graphical toolbars and function-key panels, mouse support, and hotspots. Familiar Windows utilities like copy/paste also help create seamless Windows-style host integration.

Customization is easy for administrators. The Tun Emul tools include features like drag-and-drop keyboard mapping and over 340 programmable actions.

In PC environments, Tun Emul runs under Windows Vista®/XP, 2000, and 2003. In multi-user Windows environments, Tun Emul is available to virtually any client device.

#### **Workspace**

Popular terminal environments — including 3270/3287, 5250/3812, VT, HP, and others — are available ActiveX® components. This technology allows users to access and integrate data from multiple, diverse hosts simultaneously within a single environment — the Workspace.

Available for both PC-based and multi-user Windows deployments, this “tabbed” interface enhances efficiency and productivity.

### **Tun Net — network services**

Tun Net provides a full set of network tools and resource applications using the TCP/IP protocol. FTP, SFTP, SCP, NFS, and LPR make file and printer sharing easy. Also included are a range of server-based components, including LPD, NFSD, FTPD, and RSHD.

### **Central deployment for all technologies**

Tun modules also feature central installation and system maintenance in PC-based implementations. Administrators install modules on the server and install only the Esker Deployer on client machines. At startup, the Deployer detects Tun components, reconfigurations, or upgrades on the server and retrieves them to the client.

Esker thin-client technology extends connectivity to non-Windows resources and applications via Citrix WinFrame®, Microsoft Windows Terminal Services, or Terminal Services with Citrix MetaFrame®. With Tun Emul for multi-user Windows, organizations benefit from centralized installation and administration, multi-user load balancing, lower software and maintenance costs, and unrivaled host access from virtually any client.

### **Tun Plus for comprehensive access**

For organizations that require broader integration or flexibility to deploy via multiple technologies, Esker offers Tun Plus for complete enterprise resource access. Incorporating three powerful solutions — PC-to-host, web-to-host, and multi-user Windows together with two flexible licensing options — All-Access and Web-Thin — Tun Plus offers a true innovation in host access and host access management.

Tun Plus and the Tun modules represent Esker’s continued commitment to providing the best solutions for critical, enterprise-wide host access.

## Tun Emul and Tun Net Technical Specifications

### TUN EMUL

#### Productivity tools

- Multiple Document Interface (MDI) Workspace with dynamic font scaling
- Hotspots and Hotlists
- Graphical and configurable keyboard mapper
- Menu and toolbar customization with pre-configured emulation executables
- Graphical screen configuration with full color support
- Floating or dockable function-key panels with graphical editor
- Copy and paste
- Screen printing
- Customizable character tables (national character sets)
- Macro-language: Esker script, VBScript, and JScript® including a macro recorder with password encryption as well as a full-featured debugger
- Online help

#### Synchronous terminal emulations

- Emulations supported:
  - 3270 models: 3278 display (models 2, 3, 4, 5); 3279 display (models 2A, 2B, 3A, 3B)
  - 3270 printer: 3287 supporting SCS (LU1), DSC (LU3), transparent modes, and basic PCL
  - 5250 models: 3179-2, 3296-A1, 5251-11, 5291-1, 5292-2, 3180-2, 3477-FC, 3477-FG
  - 5250 printer: 3812 in SCS (LU1), transparent modes, host print transform
- Connectivity: TN5250, TN5250E, TN3270, TN3270E; native connections to Microsoft Host Integration (SNA) Server and intraNetWare for SAA gateway
- HLLAPI support (3270 emulation)
- Support of APL characters, OIA toolbar status
- Extended attribute support (3270 emulation)
- Multiple IND\$FILE file transfers with host data set browsing (3270 emulation)
- Enhanced firewall support via NVT mode (5250 emulation)
- Euro character support
- Eastern European character set support

#### Asynchronous terminal emulations

- Emulations supported:
  - Hewlett-Packard® HP 2392A, 2394, 700/92, 700/94, 700/96, 700/98
  - DEC VT 52, 100, 220, 320, 420, 520
  - SCO® ANSI and ANSI
  - IBM 3151 and HFT
  - Bull® DKU 7102/7202 (SDP, VIP modes)
  - Wyse® 50 and 60, Unisys® TO300, Philips® TM266, Minitel®, Siemens® BA80-08 and 97801, Linux® console, Interactive Unix console AT386, Alcatel® APX AT300, Fortune FT, Data General® Dasher D412
- Connectivity: TCP/IP (WinSock), SSH, NVT/IPX, Int 14h, Int 6Bh, serial connections (COM1-COM32), modem auto-dial, TAPI support for modem
- Documented API: with 30 objects described
- 350 configurable actions (function keys, control codes, escape sequences, character sets)
- Euro character support (VT, SCO, IBM 3151)
- File transfer: X, Y, Z modem, Kermit, RTUNPLUS

### TUN NET

#### Network utilities

- FTP
- Bi-directional LPR/LPD printer sharing
- NFS client and server: NFS v2 and v3
- Network tools: TFTP client & server, Telnet VT320, RSH/REXEC command & RSHD command server, WALL & WALLD (broadcast capabilities), TIME (time synchronization via TIME, SNTP protocols), PING, TAR (PC backup)
- SCP, a safe alternative to file transfer

## Requirements

#### PC-to-host

- 133 MHz or higher Pentium-compatible CPU
- 64 MB RAM and 40 MB of disk space
- Microsoft Windows Vista/XP/2000/2003 (32-bit) with latest Windows Updates

#### Multi-user Windows

- 40 MB of disk space
- Citrix Presentation Server™ 4.0, or Windows TSE server or Windows 2000/2003 (32-bit) with the latest Windows Updates

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