

# ESKER Tun<sup>®</sup> Modules

The Tun family of host access products 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. Tun Emul and Tun Net provide the same reliable, easy-to-use features found in Tun Plus by Esker comprehensive host access product.

## TUN EMUL – CUSTOMISABLE TERMINAL EMULATION

The Tun Emul module provides over 30 terminal emulation types, including IBM 3270 and 5250 – as well as full 3287 and 3812 printer support – HP<sup>®</sup>, DEC<sup>®</sup> VT, SCO<sup>®</sup> Unix and others.

### ◆ FOR PC-TO-HOST OR MULTI-USER WINDOWS.

Available for either PC-based or Citrix<sup>®</sup>/Windows<sup>®</sup> Terminal Services implementation, Tun Emul can provide critical host access to all types of users – from green-screen power users to novices requiring limited functionality.

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

Customisation 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 XP<sup>™</sup>, 2000, NT<sup>®</sup>, 98 and 95.

In multi-user Windows environments, Tun Emul is available to virtually any client device.

### ◆ WORKSPACE.

Esker's most popular terminal environments – 3270/3287, 5250/3812, VT, HP and others – are ActiveX<sup>®</sup> 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, SCP, NFS and LPD/LPR make file and printer sharing easy. Also included are a full range of server-based components – LPD, NFSD, FTPD and RSHD.

## CENTRAL DEPLOYMENT FOR ALL TECHNOLOGIES

The Tun modules feature central installation and system maintenance in PC-based implementations. Administrators install modules on the server and install only the Esker Deployer to client machines. At start-up, 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, Windows Terminal Services, or Terminal Services with Citrix<sup>®</sup> MetaFrame<sup>™</sup>. With Tun Emul for multi-user Windows, you benefit from centralised installation and administration, multi-user load balancing, lower software and maintenance costs and unrivalled host access from virtually any client.

## TUN PLUS BY ESKER – FOR COMPREHENSIVE ACCESS

For organisations 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 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.

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# Tun Emul and Tun Net — Technical Specifications

## TUN EMUL – TERMINAL EMULATION

### VALUE-ADDED FEATURES FOR ALL EMULATIONS

- ◆ Multiple Document Interface (MDI) Workspace with dynamic font scaling for multi-session support
- ◆ Enhanced HotSpots and Hotlists
- ◆ Graphical and configurable keyboard mapper
- ◆ Menu and toolbar customisation with generation of pre-configured emulation executables
- ◆ Graphical screen configuration with full colour support
- ◆ Floating or dockable function-key panels with graphical editor
- ◆ Copy and paste
- ◆ Screen printing
- ◆ Customisable character tables (national character sets)
- ◆ Macro-language: Esker script, VBScript, and JScript® including a macro recorder with password encryption
- ◆ Online help

### SYNCHRONOUS TERMINAL EMULATIONS

- ◆ 3270 models: 3278 display (models 2, 3, 4, 5); 3279 display (models 2A, 2B, 3A, 3B)
- ◆ 3270 printer: 3287 supporting SCS (LU1), DSC (LU3), and transparent modes
- ◆ 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
- ◆ Connectivity: TN5250, TN5250E, TN3270, TN3270E; native connections to Microsoft SNA Server (FMI & LUA interface) and intraNetWare for SAA gateway (LUA interface)
- ◆ HLLAPI support (3270 emulation)
- ◆ Euro character support

### SPECIFIC VALUE-ADDED FEATURES

- ◆ Support of APL characters, OIA toolbar status
- ◆ Extended attribute support (3270 emulation)
- ◆ Multiple IND\$FILE file transfers with host data set browsing
- ◆ Enhanced firewall support via NVT mode (5250 emulation)

### ASYNCHRONOUS TERMINAL EMULATIONS

- ◆ 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), NVT/IPX, Int 14h, Int 6Bh, serial connections (COM1-COM32), modem auto-dial, TAPI support for modem

### SPECIFIC VALUE-ADDED FEATURES

- ◆ Documented API, 30 objects described (properties, methods, events)
- ◆ Total terminal customisation (function keys, control codes, escape sequences, character sets) featuring 350 configurable actions
- ◆ Euro character support (VT, SCO, IBM 3151)
- ◆ File transfer: X, Y, Z modem, Kermit, RTUNPLUS

## TUN NET – NETWORK UTILITIES

- ◆ FTP (client & server, multi-connection, automatic character conversion, macro-language)
- ◆ Bi-directional LPR/LPD printer sharing for Windows XP/2000/NT/98/95
- ◆ NFS client and server: NFS v2 and v3 for Windows XP/2000/NT/98/95
- ◆ 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)

## MINIMUM REQUIREMENTS

### PC-TO-HOST

- ◆ Pentium®-class PC (120 MHz or greater)
- ◆ 32 MB RAM and 40 MB of disk space
- ◆ Microsoft Windows XP/2000/98/95, NT 4.0/3.51

### MULTI-USER WINDOWS

- ◆ 40 MB of disk space
- ◆ PC scaled with requirements for Citrix WinFrame 1.6/1.7/1.8, Citrix MetaFrame 1.0/1.8, or Microsoft Windows Terminal Services (with or without MetaFrame)

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