



The innovative Tun Plus All-Access License gives managers complete freedom to meet their organisation's unique host access needs. Tun Plus is one product uniting three powerful solutions — PC-to-host, web-to-host and multi-user Windows. All provide the same comprehensive Tun Plus host, database and network-utility access. With the All-Access License, organisations can deploy these solutions in any combination to meet the needs of varied users. As users' needs change, the All-Access License allows them to easily migrate from one Tun Plus solution to another.

## Innovative Access Management

By choosing the Tun Plus All-Access License, organisations can deliver host access to every user, at any client device, on any platform and at any location. This breadth of delivery is made possible by Esker's redesign of Tun Plus as one product embracing three solutions:

**Tun Plus PC-to-Host** ■ Unrivaled host, database, and network-utilities access from any PC running Windows® Vista/XP/2000/2003.

**Tun Plus Web-to-Host** ■ The same comprehensive access through leading web browsers using ActiveX® or Java® technology.

**Tun Plus Multi-User Windows** ■ Complete access for virtually any client type via Citrix® MetaFrame® and Microsoft® Windows Terminal Services.

Tun Plus allows organisations to keep pace with the latest developments in connectivity and provide all users — green-screen power users, occasional Windows-style users, or mobile and remote users — with the right level of access to business-critical information resources.

An innovation in host access management, the All-Access License helps organisations consolidate all host access needs under one product and vendor, relieve system administrators and support personnel and reduce the costs of providing host access.

## Complete Tun Plus

Tun Plus delivers comprehensive host access plus broad connectivity to leading databases and critical network utilities.

### Customisable Terminal Emulation

Tun Plus 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 more.

Powerful Tun Plus customisation tools let administrators create user-friendly Windows-style emulation views — adding colours, graphical toolbars and function-key panels, mouse support and clickable hot spots. Customisation is easy with drag-and-drop keyboard mapping and over 340 programmable actions.

## Integrated Database Access

Tun Plus provides easy access via the Tun Plus universal ODBC driver, to the most popular databases and file structures — DB2®, Oracle®, Informix®, Sybase®, Progress® and others.

Easy-to-use tools help simplify database access. Administrators can replace database terminology with practical business terms and regroup data tables for intuitive user interactions.

## Network Utilities

Tun Plus also includes TCP/IP connectivity to critical network resources. FTP, NFS and LPR make file and printer sharing easy. Also included are a full range of server-based components — LPD, NFSD, FTPD and RSHD.

## Shared technologies

As user populations or deployment needs evolve, Tun Plus helps organisations manage the change. Shared technologies unify the PC-to-host, web-to-host and multi-user Windows solutions, and enable easy migration for user, administrator and IT manager.

## Workspace

All solutions feature a tabbed Workspace that allows users to launch multiple sessions from diverse hosts at one time. The multi-document Workspace promotes productivity by streamlining information integration.

## Full-Featured Clients

All three solutions offer the same full-featured clients — with graphical toolbars, keyboards, client-side macros and other user-oriented functions.

## Security

Tun Plus safeguards the access of sensitive host data with a range of security offerings to help meet government, healthcare or other industry security regulation requirements.

- SSL (Secure Sockets Layer)
- TLS (Transport Layer Security)
- SSH (Secure Shell)
- SFTP (Secure File Transfer Protocol)
- SCP (Secure Copy Protocol)
- Triple DES
- X.509 Certificates

# ESKER Tun<sup>®</sup> Plus

## All-Access License — Technical Specifications

### 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), and transparent modes; 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 interface and intraNetWare for SAA gateway
- HLLAPI support (PC-to-host, multi-user Windows/3270 emulation)
- Extended attribute support (3270 emulation)
- Multiple IND\$FILE file transfers with host data set browsing
- Enhanced firewall support via NVT mode (5250 emulation)
- Euro character support
- Eastern European character set support

### Asynchronous terminal emulation

- Emulations Supported:
  - Hewlett-Packard<sup>®</sup> 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<sup>®</sup> DKU 7102/7202 (SDP, VIP modes)
  - Wyse<sup>®</sup> 50 and 60, Unisys<sup>®</sup> TO300, Philips TM266, Minitel<sup>®</sup>, Siemens<sup>®</sup> BA80-08 and 97801, Linux<sup>®</sup> console, Interactive Unix console AT386, Alcatel<sup>®</sup> APX AT300, Fortune FT, Data General<sup>®</sup> Dasher<sup>®</sup> D412
- Connectivity: TCP/IP, NVT/IPX, Int 14h, Int 6Bh, serial connections (COM1-COM32), modem auto-dial, TAPI
- 350 configurable actions (function keys, control codes, escape sequences, character sets)
- Euro character support (VT, SCO, IBM 3151, Siemens 97801)
- File transfer: X, Y, Z modem, Kermit, RTUNPLUS
- Illustrated samples of Visual Basic<sup>®</sup>, Delphi<sup>®</sup>, JScript and Sun JDK 1.4 VM support
- Documented API: with 30 objects described

### Network utilities

- FTP (PC-to-host, multi-user Windows)
- 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 synchronisation via TIME, SNTP protocols), PING, TAR (PC backup)

### Productivity tools (All Emulations)

- Databases Supported:
  - Windows 2000, Oracle v7, Informix v7, Progress v6-8
  - Unix: DB2/6000, Oracle v7, Informix v5 and 7, Sybase v10, Progress v6-8; C-ISAM files v4-7, open driver developer API, COBOL data types (RM-COBOL, MicroFocus COBOL, ACU-COBOL)
  - IBM MVS mainframe: DB2 for OS/390
- Unix Servers Supported:
  - SCO Unix, Sun<sup>®</sup>OS 4.1, Solaris<sup>®</sup> 2.5, AIX<sup>®</sup> 3.2 and 4.1, HP-UX<sup>®</sup> 10.x, DEC Unix 3.2 (OSF1)
- Universal ODBC client driver
- Encrypted password storage for automated connections

- Ready-to-use samples
- Import of Windows 2000 users for automatic user authentication
- User profile management (light or full-featured component size)

### Security

- SSL 3.0, TLS 1.0, SSH 2, SFTP, SCP
- DSA authentication
- Diffie-Hellman key agreement
- X.509 certificates (generic certificate included; personalised certificates available)
- Encryption/Encoding: MD5, SHA-1, 40-bit DES, 56-bit DES, Triple DES, Secure web server compliant

### Database access

- LDAP directory support for users, groups, configurations
- Drag-and-drop assignment of resources to users
- New Session Wizard to create emulation configurations
- Publication to any intranet (URL Access) or Tun Plus Desktop
- Failover capability in a Microsoft cluster

### Web-to-host administration

- Complies with U.S. federal accessibility guidelines (section 508)
- Integrated user interface
- Shortcut bar for easy tool navigation
- Workbook View and Multiple Document Interface (MDI)
- Dialog View graphical interface capability for IBM 3270/5250
- Light pen support for IBM 3270
- On-line help (including "What's This" help) and user-definable help
- Full MAPI support
- Internet Aware web page and e-mail linking
- Launchable from web browsers for easy access
- Auto-startup macros
- OLE 2.0 automation
- DDE client and server
- Host control
- Two-way trace

### Minimum 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 with latest Windows Updates

#### Web-to-host

- Web Server
  - Windows Server XP, 2000 or 2003 with latest Windows Updates
  - Microsoft Internet Information Services (5.0 on Windows 2000/6.0 on Windows 2003)
- LDAP Server: Esker LDAP, or Netscape Directory Server
- Administrator Machine
  - 200 MHz or faster processor, 64 MB RAM minimum, 128 MB RAM or more recommended
  - Windows Vista/XP/2000/2003 with latest Windows Updates
  - Microsoft Internet Explorer 4.01+SP1
- End-User Machines
  - Pentium 120 with 32 MB RAM
  - Windows Vista/XP/2000/2003
  - Microsoft Internet Explorer 6.0 for ActiveX components, Microsoft Internet Explorer 6.0 or Netscape 7.0 for Java components
- 40 MB of disk space
- Citrix Presentation server 4.0, or a Windows TSE server or Windows 2000/2003 with the latest Windows Updates

Some functionality not available for the Java client.  
Contact Esker for specific information.

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