

The Tun Plus Web-Thin License gives managers the flexibility to meet many of their organization's host access requirements. This concurrency-based license allows organizations to deploy comprehensive Tun Plus host, database, and attain network-utility access using either the Tun Plus web-to-host solution or multi-user Windows solution. Either of these "thin" server-based technologies provides critical enterprise access while reducing impact on network and human resources.

### Advanced access management

The Tun Plus Web-Thin License allows organizations to deliver host access to users on virtually any client device at any location, with two concurrency-based solutions.

**Tun Plus Web-to-Host** — comprehensive Tun Plus access through leading web browsers.

**Tun Plus Multi-User Windows** — the same host, database, and network-utility access for virtually any client type via Citrix<sup>®</sup> MetaFrame<sup>®</sup> and Windows<sup>®</sup> Terminal Services.

The Tun Plus Web-Thin License allows organizations to implement either solution, providing the ability to manage host needs — for green-screen power users, occasional Windows-style users, or mobile and remote users — with the right level of access to business-critical information resources.

A new concept in host access management, the Web-Thin License helps organizations lower host access costs. The centralized management and deployment features simplify maintenance and distribution updates, eliminating the need to manage individual desktops. The result is reduced administrator and support personnel workload. For further cost reductions, the concurrent licensing model permits a maximum number of users at any given time, as long as the number of users does not exceed the total number of licenses purchased.

### Complete Tun Plus

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

### Customizable terminal emulation

Tun Plus provides terminal emulation for more than 30 host types, including IBM<sup>®</sup> 3270 and 5250 - as well as full 3287 and 3812 printer support — HP<sup>®</sup>, DEC<sup>®</sup> VT, SCO<sup>®</sup> Unix, and more.

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

### Integrated database access

Tun Plus also provides easy access, via the Tun Plus universal ODBC driver, to the most popular databases and file structures —

DB2<sup>®</sup>, Oracle<sup>®</sup>, Informix<sup>®</sup>, Sybase<sup>®</sup>, Progress<sup>®</sup>, 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 organizations 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 access to 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 Security Layer)
- SSH (Secure Shell)
- SFTP (Secure File Transfer Protocol)
- SCP (Secure Copy Protocol)
- Triple DES
- X.509 Certificates



# ESKER Tun<sup>®</sup> Plus

## WEB-THIN LICENSE ■ TECHNICAL SPECIFICATIONS

### SYNCHRONOUS TERMINAL EMULATION

- 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 (FMI & LUA interface) and intraNetWare for SAA gateway (LUA interface)
- 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<sup>®</sup> 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 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

### PRODUCTIVITY TOOLS ( All Emulations)

- 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-languages: VBScript, JScript including a macro recorder with password encryption, Sun JDK 1.4 VM support and Esker script as well as a full-featured debugger
- Supports client/server and web development tools compatible with Microsoft COM

### 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)

### DATABASE ACCESS

- 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
- Automatic and transparent user authentication
- 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; personalized certificates available)
- Encryption/Encoding: MD5, SHA-1, 40-bit DES, 56-bit DES, Triple DES, Secure web server compliant

### WEB-TO-HOST ADMINISTRATION

- 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

### MINIMUM REQUIREMENTS

#### 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 XP/2000/2003
  - 200 MB of free disk space
- End-User Machines
  - 133 MHz or higher Pentium-compatible CPU, 64 MB of RAM
  - Windows XP/2000/2003 with latest Windows Updates
  - Microsoft Internet Explorer 6.0 for ActiveX components, Microsoft Internet Explorer 6.0 or Netscape 7.0 for Java components

#### Multi-user Windows

- 40 MB of disk space
- Citrix Presentation Server™ 4.0, or 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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