

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 January 2003 (23.01.2003)

PCT

(10) International Publication Number
WO 03/007524 A2

(51) International Patent Classification⁷: **H04L**
(21) International Application Number: PCT/IB02/02720
(22) International Filing Date: 10 July 2002 (10.07.2002)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
09/902,770 10 July 2001 (10.07 2001) US
(71) Applicant: **PACKET TECHNOLOGIES LTD.** [IL/IL],
Hamachtesh Street 6, 58810 Holon (IL).

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **SHAFIRA, Yaniv**, Hashaaron Street, Bet Da-
gan (IL) **SHOHAT, Drory**, Ahimeir Street 14, Raman Gan
(IL). **ZEZAK, Moshe**, Hatizmoret Street 46, Rishon Let-
zion (IL) **GILBOA, Niv**, Aharonovitch St. 5, Kfar Saba
(IL).

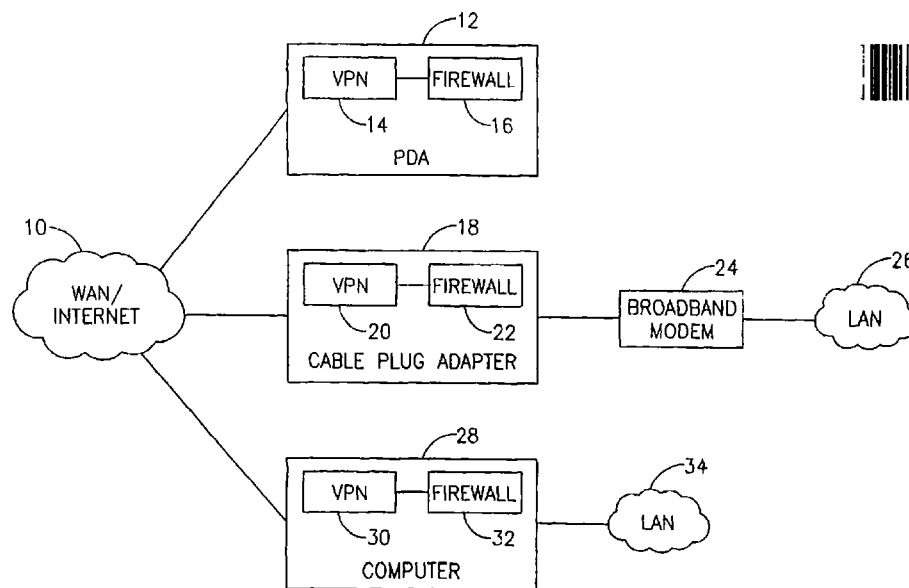
Published:

— without international search report and to be republished
upon receipt of that report

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette

G000002 (4) Title: **VIRTUAL PRIVATE NETWORK MECHANISM INCORPORATING SECURITY ASSOCIATION PROCESSOR**



162162

(57) Abstract: A novel and useful virtual private network (VPN) mechanism and related security association processor for main-
taining the necessary security related parameters to perform security functions such as encryption, decryption and authentication.
A security association database (SAD) and related circuitry is adapted to provide the necessary parameters to implement the IPSec
group of security specifications for encryption/decryption and authentication. Each security association (SA) entry in the database
comprises all the parameters that are necessary to receive and transmit VPN packets according to the IPSec specification.

WO 03/007524 A2