

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 December 2009 (03.12.2009)

PCT

(10) International Publication Number
WO 2009/146300 A8

- (51) International Patent Classification:
G06F 15/16 (2006.01)
- (21) International Application Number:
PCT/US2009/045155
- (22) International Filing Date:
26 May 2009 (26.05.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/056,268 27 May 2008 (27.05.2008) US
12/471,199 22 May 2009 (22.05.2009) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(48) Date of publication of this corrected version:
22 July 2010

(15) Information about Correction:
see Notice of 22 July 2010

(54) Title: REGIONAL VIRTUAL VPN



FIGURE 4

(57) Abstract: A method, apparatus and article of manufacture for building next generation improved regional virtual private networks over the Internet. The method comprises of building two layers on top of the public infrastructure (001): a network abstraction layer (NAL) (002) and a network virtualization layer (NVL) (003): the NVL (003) is built on top of the NAL (002). The NVL (003) consists in Group Domain of Interpretation (GDOI) domain deployments on virtualized hardware aggregators over a NAL (002). The latter consists in point-to-multipoint Generic Routing Encapsulation (GRE) networks over the Internet (001). Both the NVL (003) and NAL (002) can be deployed using advanced unattended provisioning methodology.

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