

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 November 2022 (03.11.2022)



(10) International Publication Number
WO 2022/231657 A1

(51) International Patent Classification:
H04L 41/08 (2022.01) *H04L 47/74* (2022.01)
H04L 41/0654 (2022.01)

(21) International Application Number:
PCT/US2021/061476

(22) International Filing Date:
01 December 2021 (01.12.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17/302,368 30 April 2021 (30.04.2021) US

(71) Applicant: **EQUINIX, INC.** [US/US]; One Lagoon Drive,
Redwood City, California 94065 (US).

(72) Inventors: **MOHAMMAD, Arifulla Baig**; Equinix, Inc.,
One Lagoon Drive, Redwood City, California 94065 (US).
GNANESHWAR, Sudhanva; Equinix, Inc., One Lagoon
Drive, Redwood City, California 94065 (US). **KALIPAT-
NAPU, Rajah**; Equinix, Inc., One Lagoon Drive, Redwood
City, California 94065 (US).

(74) Agent: **LACY, Rodney L.**; Shumaker & Sieffert, P.A.,
1625 Radio Drive, Suite 300, Woodbury, Minnesota 55125
(US).

(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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,

(54) Title: **FALLBACK SERVICE THROUGH A CLOUD EXCHANGE FOR NETWORK SERVICE PROVIDER CONNECTIONS**

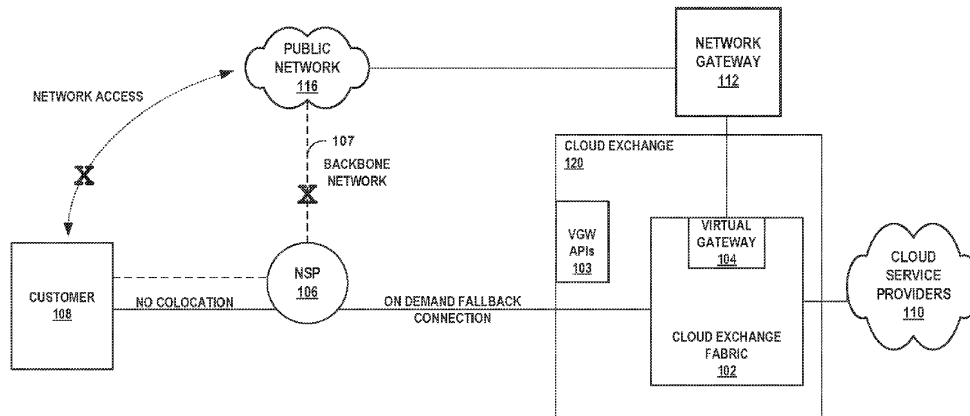


FIG. 1B

(57) Abstract: An example method includes receiving, from a customer system by a cloud exchange comprising processing circuitry, a request to communicatively couple a virtual gateway on network infrastructure of the cloud exchange to a network gateway communicatively coupled to a public network, the request including data indicating a public internet Protocol (IP) address of the customer system, wherein the customer system is configured with a first connection communicatively coupling the customer system and the public network via a network service provider (NSP) that is separate from the cloud exchange; configuring, by the cloud exchange, a network route for a network gateway to the virtual gateway, the network gateway communicatively coupled to the public network; and providing, by the cloud exchange to the network gateway, routing information including the public IP address of the customer system to create a second connection communicatively coupling the customer system and the public network.

[Continued on next page]

NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
-