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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 June 2025 (26.06.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/134103 A1

(51) International Patent Classification:
H04W 12/72 (2021.01) *H04W 12/06* (2021.01)
H04W 12/02 (2009.01)

(21) International Application Number:
PCT/IB2025/052957

(22) International Filing Date:
20 March 2025 (20.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/635,602 17 April 2024 (17.04.2024) US

(71) Applicant: **LENOVO (SINGAPORE) PTE. LTD.** [SG/SG]; 151 Lorong Chuan #02-01, New Tech Park, Singapore 556741 (SG).

(72) Inventors: **BASKARAN, Sheeba Backia Mary**; c/o Lenovo (Singapore) Pte. Ltd., 151 Lorong Chuan #02-01, New Tech Park, Singapore 556741 (SG). **KUNZ, Andreas**; c/o Lenovo (Singapore) Pte. Ltd., 151 Lorong Chuan #02-01, New Tech Park, Singapore 556741 (SG).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, 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, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))*

(54) Title: SUBSCRIBER IDENTIFIER PROTECTION IN A HOSTED NETWORK

(57) Abstract: Various aspects of the present disclosure relate to subscriber identifier protection in a hosted network. A network equipment (NE) determines, such as whether to enforce subscription permanent identifier (SUPI) usage restrictions based on a policy for a user equipment (UE) in a non-public network (NPN) hosted by a public land mobile network (PLMN). SUPI usage restriction can include providing a generic public subscription identifier (GPSI) or privacy protected UE identifier, rather than the SUPI, to other network equipment.

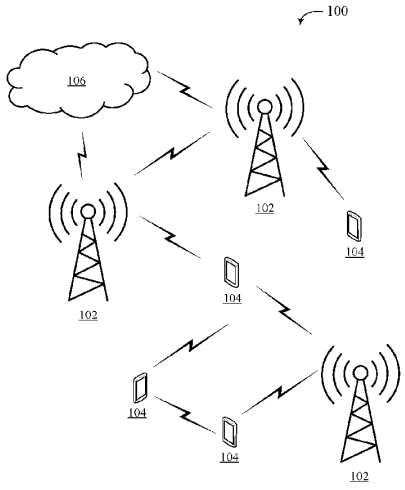


Figure 1

WO 2025/134103 A1

[Continued on next page]

Published:

— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)*