US011477246B2

(12) **United States Patent**
Raleigh et al.

(10) **Patent No.:** **US 11,477,246 B2**
(45) **Date of Patent:** *Oct. 18, 2022

(54) **NETWORK SERVICE PLAN DESIGN**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **17/121,717**

(22) Filed: **Dec. 14, 2020**

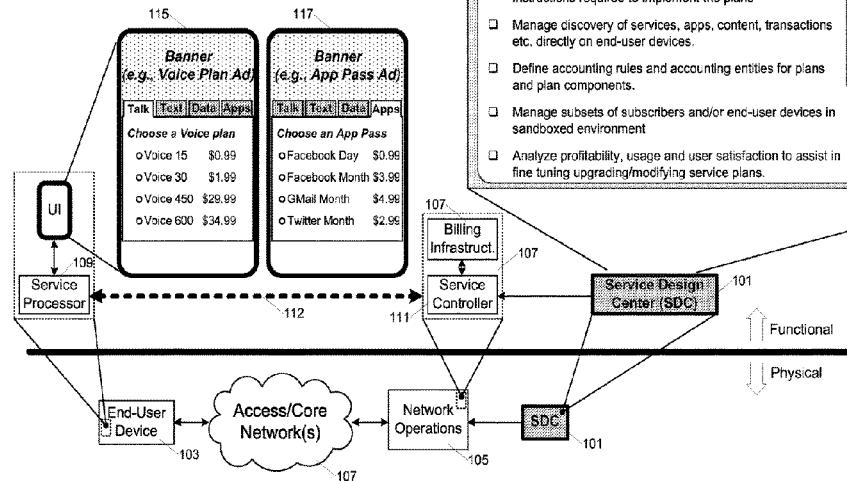(65) **Prior Publication Data**

US 2021/0344718 A1   Nov. 4, 2021

Related U.S. Application Data

(63) Continuation of application No. 16/214,902, filed on Dec. 10, 2018, now Pat. No. 10,869,199, which is a
(Continued)

(51) **Int. Cl.**
H04L 9/40   (2022.01)
G06Q 10/06   (2012.01)
(Continued)

(52) **U.S. Cl.**
CPC *H04L 63/20* (2013.01); *G06F 15/177* (2013.01); *G06Q 10/06315* (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC H04L 63/20; H04L 67/26; H04L 51/046; H04L 67/327; H04L 63/0428;
(Continued)

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(57)   **ABSTRACT**
A technique involves modular storage of network service plan components and provisioning of same. A subset of the capabilities of a service design system can be granted to a sandbox system to enable customization of service plan offerings or other controls.

15 Claims, 135 Drawing Sheets

Related U.S. Application Data

continuation of application No. 14/948,082, filed on Nov. 20, 2015, now Pat. No. 10,165,447, which is a continuation of application No. 13/842,172, filed on Mar. 15, 2013, now Pat. No. 9,858,559, which is a continuation-in-part of application No. 13/248,025, filed on Sep. 28, 2011, now Pat. No. 8,924,543, and a continuation-in-part of application No. 13/253,013, filed on Oct. 4, 2011, now Pat. No. 8,745,191, said application No. 13/248,025 is a continuation-in-part of application No. 12/380,778, filed on Mar. 2, 2009, now Pat. No. 8,321,526, and a continuation-in-part of application No. 12/380,780, filed on Mar. 2, 2009, now Pat. No. 8,839,388, and a continuation-in-part of application No. 12/695,019, filed on Jan. 27, 2010, now Pat. No. 8,275,830, and a continuation-in-part of application No. 12/695,020, filed on Jan. 27, 2010, now Pat. No. 8,406,748, and a continuation-in-part of application No. 12/694,445, filed on Jan. 27, 2010, now Pat. No. 8,391,834, and a continuation-in-part of application No. 12/694,451, filed on Jan. 27, 2010, now Pat. No. 8,548,428, and a continuation-in-part of application No. 12/694,455, filed on Jan. 27, 2010, now Pat. No. 8,402,111, and a continuation-in-part of application No. 12/695,021, filed on Jan. 27, 2010, now Pat. No. 8,346,225, and a continuation-in-part of application No. 12/695,980, filed on Jan. 28, 2010, now Pat. No. 8,340,634, and a continuation-in-part of application No. 13/134,028, filed on May 25, 2011, now Pat. No. 8,589,541, and a continuation-in-part of application No. 13/229,580, filed on Sep. 9, 2011, now Pat. No. 8,626,115, and a continuation-in-part of application No. 13/237,827, filed on Sep. 20, 2011, now Pat. No. 8,832,777, and a continuation-in-part of application No. 13/239,321, filed on Sep. 21, 2011, now Pat. No. 8,898,293, and a continuation-in-part of application No. 13/248,028, filed on Sep. 28, 2011, now Pat. No. 8,924,469, and a continuation-in-part of application No. 13/247,998, filed on Sep. 28, 2011, now Pat. No. 8,725,123, and a continuation-in-part of application No. 13/134,005, filed on May 25, 2011, now Pat. No. 8,635,335, said application No. 13/253,013 is a continuation-in-part of application No. 12/380,778, filed on Mar. 2, 2009, now Pat. No. 8,321,526, and a continuation-in-part of application No. 12/380,780, filed on Mar. 2, 2009, now Pat. No. 8,839,388, and a continuation-in-part of application No. 12/695,019, and a continuation-in-part of application No. 12/695,020, and a continuation-in-part of application No. 12/694,445, and a continuation-in-part of application No. 12/694,451, and a continuation-in-part of application No. 12/694,455, and a continuation-in-part of application No. 12/695,021, and a continuation-in-part of application No. 12/695,980, and a continuation-in-part of application No. 13/134,028, and a continuation-in-part of application No. 13/229,580, and a continuation-in-part of application No. 13/237,827, and a continuation-in-part of application No. 13/239,321, and a continuation-in-part of application No. 13/248,028, and a continuation-in-part of application No. 13/247,998, and a continuation-in-part of application No. 13/134,005, and a continuation-in-part of application No. 13/248,025, said application No. 12/695,019 is a continuation-in-part of application No. 12/380,778, and a

continuation-in-part of application No. 12/380,771, filed on Mar. 2, 2009, now Pat. No. 8,023,425, said application No. 12/695,020 is a continuation-in-part of application No. 12/380,780, said application No. 12/694,445 is a continuation-in-part of application No. 12/380,780, said application No. 12/695,021 is a continuation-in-part of application No. 12/380,780, said application No. 12/695,980 is a continuation-in-part of application No. 12/380,780, and a continuation-in-part of application No. 12/695,019, and a continuation-in-part of application No. 12/695,021, said application No. 13/134,028 is a continuation of application No. 12/380,778, said application No. 13/248,028 is a continuation-in-part of application No. 12/380,780, said application No. 13/134,028 is a continuation-in-part of application No. 12/695,019, and a continuation-in-part of application No. 12/695, 020, and a continuation-in-part of application No. 12/694,445, and a continuation-in-part of application No. 12/694,451, and a continuation-in-part of application No. 12/694,455, said application No. 13/248, 028 is a continuation-in-part of application No. 12/695,021, and a continuation-in-part of application No. 12/695,980, and a continuation-in-part of application No. 13/134,005, said application No. 13/134, 005 is a continuation-in-part of application No. 12/380,778, and a continuation-in-part of application No. 12/380,780, and a continuation-in-part of application No. 12/695,019, and a continuation-in-part of application No. 12/695,020, and a continuation-in-part of application No. 12/694,445, and a continuation-in-part of application No. 12/694,451, and a continuation-in-part of application No. 12/694,455, and a continuation-in-part of application No. 12/694, 021, and a continuation of application No. 12/695, 980, said application No. 13/229,580 is a continuation-in-part of application No. 12/380,778, and a continuation-in-part of application No. 12/380,780, and a continuation-in-part of application No. 12/695, 019, and a continuation-in-part of application No. 12/695,020, and a continuation-in-part of application No. 12/694,445, and a continuation-in-part of application No. 12/694,451, and a continuation-in-part of application No. 12/694,455, and a continuation-in-part of application No. 12/695,021, and a continuation-in-part of application No. 12/695,980, and a continuation-in-part of application No. 13/134,005, said application No. 13/237,827 is a continuation-in-part of application No. 12/380,778, and a continuation-in-part of application No. 12/380,780, and a continuation-in-part of application No. 12/695,019, and a continuation-in-part of application No. 12/695, 020, and a continuation-in-part of application No. 12/694,445, and a continuation-in-part of application No. 12/694,451, and a continuation-in-part of application No. 12/694,455, and a continuation-in-part of application No. 12/695,021, and a continuation-in-part of application No. 12/694,980, and a continuation-in-part of application No. 13/134,028, and a continuation-in-part of application No. 13/229,580, and a continuation-in-part of application No. 13/134, 005, said application No. 13/239,321 is a continuation-in-part of application No. 12/380,778, and a continuation-in-part of application No. 12/380,780, and a continuation-in-part of application No. 12/695,