

(51) International Patent Classification:
G06F 15/16 (2006.01)(21) International Application Number:
PCT/US2009/061974(22) International Filing Date:
24 October 2009 (24.10.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/258,149 24 October 2008 (24.10.2008) US(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).(72) Inventors: **BERNABEU-AUBAN, Jose**; c/o Microsoft Corporation, LCA, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **KHALIDI, Yousef A.**; c/o Microsoft Corporation, LCA, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (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, BR, BW, BY, BZ, CA, CH, CL, 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, PE, 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, SM, 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))
- 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))

(88) Date of publication of the international search report:
26 August 2010

(54) Title: PROVIDING FUNCTIONALITY TO CLIENT SERVICES BY IMPLEMENTING AND BINDING CONTRACTS

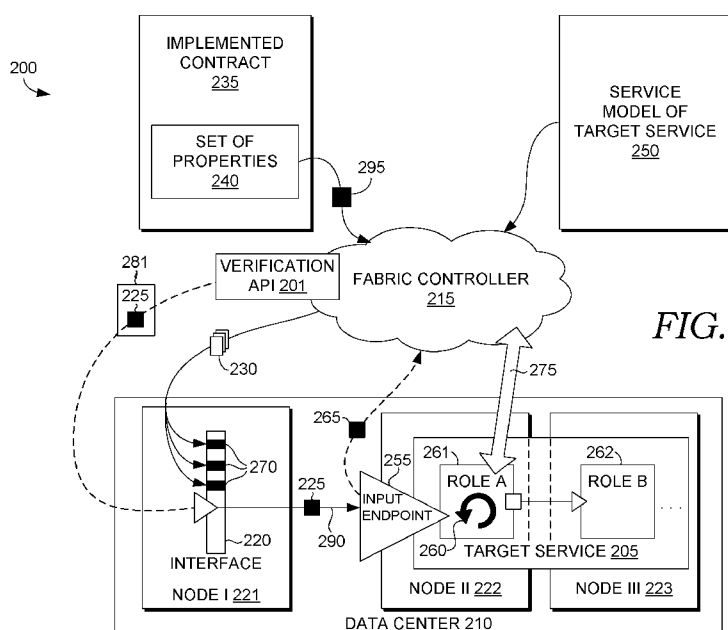


FIG. 2.

(57) Abstract: Methods, systems, and computer-readable media for automating the expression of functional aspects of a target service to a client service via a vehicle referred to herein as a contract are provided. Generally, the methods are performed in the context of a distributed computing environment configured to underlie operations of service application(s). In embodiments, the contract is implemented and bound upon ascertaining that the expressed functional aspects satisfy dependencies of the client service. Generally, the contract defines interfaces and maintains properties that configure the interfaces during installation. During the implementation, one of the interfaces is established and parameterized in accordance with the properties associated therewith. During the binding, the target service and the client service are linked via communication channels that are routed through the established interface. Accordingly, calls from the client service over the communication channels allow for reaching and employing the functional aspects of the target service.