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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 November 2003 (27.11.2003)

PCT

(10) International Publication Number
WO 03/098450 A1

(51) International Patent Classification[7]: G06F 13/10

(21) International Application Number: PCT/SG03/00112

(22) International Filing Date: 16 May 2003 (16.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/SG02/00095 16 May 2002 (16.05.2002) SG
PCT/SG02/00110 3 June 2002 (03.06.2002) SG

(71) Applicant *(for all designated States except US)*: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 10 Science Park Road, #01/01-03, 117684 Singapore (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TSENG, Hui, Ming, Jason** [SG/SG]; Block 39, Telok Blangah Rise, #19-343, Singapore 090039 (SG). **VICTORIA, Emarson** [LK/SG]; Block 367 Woodlands Avenue 5, #10-456, Singapore 730367 (SG). **CHAM, Tau, Chen** [SG/SG]; Block 750, Jurong West Street 73, #05-157, Singapore 640750 (SG).

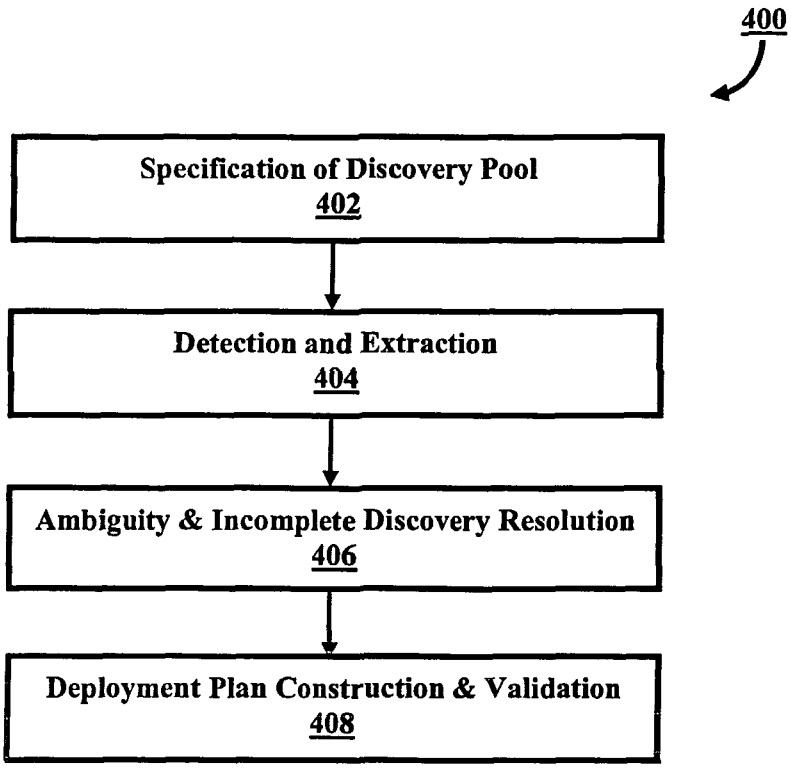
(74) Agent: **AXIS INTELLECTUAL CAPITAL PTE LTD**; 21A Duxton Road, Singapore 089487 (SG).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: COMPUTING SERVICES DISCOVERY SYSTEM AND METHOD THEREFOR



(57) Abstract: A computing services discovery system and a method therefor for detecting and discovering properties of deployed computing services in an existing computing system are disclosed. A computing system deployment model introduces layers and clusters for segregating computing system, system and resource components based on their functionality and services provided thereby. Associations between components are registered in profiles to facilitate dependency tracking. The computing system deployment model allows for structured deployment of the computing system onto a host system. However, in an existing computing system, the deployment plan of the deployed computing services is not known. An embodiment of the invention based on the computing system deployment model allows the deployed computing services to be detected and properties describing the components of the services to be extracted. The extracted properties, such as configurations and dependencies of the components, are compiled to provide a re-constructed component profile according to a component profile framework provided by the computing system deployment model. A deployment plan of the deployed computing services is constructed using the information in the re-constructed component profile.

WO 03/098450 A1

Published:
— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.