

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 January 2002 (17.01.2002)

PCT

(10) International Publication Number  
**WO 02/005509 A3**

(51) International Patent Classification<sup>7</sup>: **G05B 19/418**,  
H04L 29/06

(74) Agents: **MALLIE, Michael, J.** et al.; Blakely, Sokoloff,  
Taylor & Zafman LLP, 7th Floor, 12400 Wilshire Boule-  
vard, Los Angeles, CA 90025 (US).

(21) International Application Number: PCT/US01/41116

(22) International Filing Date: 22 June 2001 (22.06.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
09/611,967 6 July 2000 (06.07.2000) US

(71) Applicant: **SYMPHONY SYSTEMS** [US/US]; Suite  
150, 635 Campbell Technology Parkway, Campbell, CA  
95008 (US).

(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, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,  
TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

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

Published:

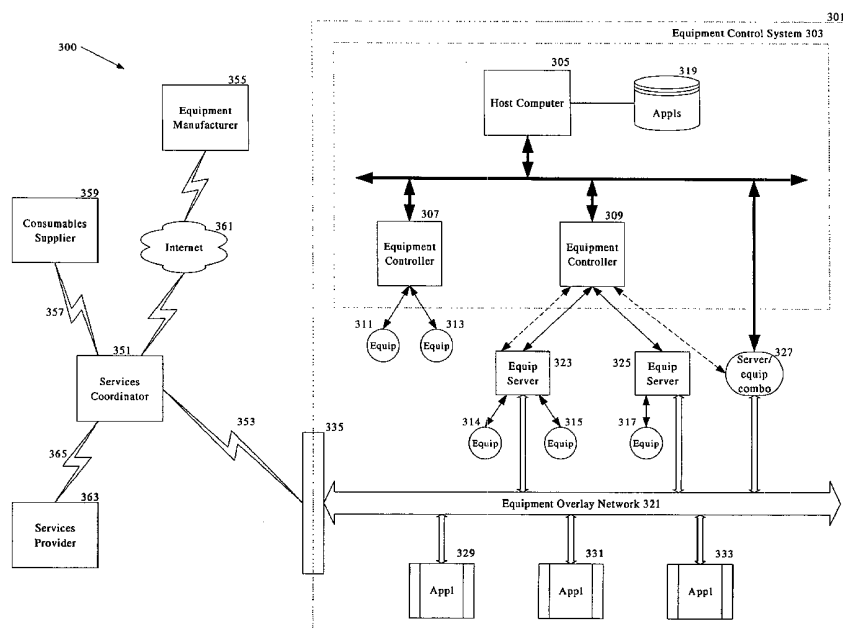
— with international search report

(72) Inventors: **BENNETT, Keith, E.**; 2225 Webster Street,  
Palo Alto, CA 94301 (US). **LOOSE, Richard, E., Jr.**; 150  
26th Avenue, Santa Cruz, CA 95062 (US). **BANCILHON,**  
**Jean-Yves**; 5515 Del Oro Court, San Jose, CA 95124 (US).

(88) Date of publication of the international search report:  
12 September 2002

[Continued on next page]

(54) Title: EQUIPMENT OVERLAY NETWORK ARCHITECTURE



(57) Abstract: An equipment overlay network architecture defines a network that allows access to equipment in a facility by an application that uses a protocol not native to the equipment. The equipment overlay network architecture includes an equipment server logically located between the equipment and the application that converts between the non-native protocol of the application and a protocol native to the equipment. The equipment server is also coupled into an equipment control system controlled by a host.

WO 02/005509 A3



*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.*

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41116

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B19/418 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 53581 A (COACTIVE NETWORKS INC) 26 November 1998 (1998-11-26)	1,6-9, 11-13, 17,18, 22-25
Y	abstract page 4, paragraph 2 - paragraph 3	2-5, 14-16, 19-21, 26-28,30
A	page 5, paragraph 2 - paragraph 17 page 8, paragraph 1 page 13, line 16 -page 14, line 4 --- -/--	10,29



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

14 June 2002

Date of mailing of the international search report

25/06/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Blanco Cardona, P

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41116

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MESSINA S ET AL: "A study of atomicity and consistency in MMS servers" INDUSTRY APPLICATIONS CONFERENCE, 1995. THIRTIETH IAS ANNUAL MEETING, IAS '95., CONFERENCE RECORD OF THE 1995 IEEE ORLANDO, FL, USA 8-12 OCT. 1995, NEW YORK, NY, USA, IEEE, US, 8 October 1995 (1995-10-08), pages 1696-1701, XP010193208 ISBN: 0-7803-3008-0 abstract page 1697, right-hand column, paragraph 4 - paragraph 6 ---	5,16,21, 26,30
Y	US 5 805 442 A (GOLDMAN CRAIG E ET AL) 8 September 1998 (1998-09-08)  abstract column 3, paragraph 3 column 6, paragraph 2 - paragraph 3 column 8, line 53 -column 9, line 14 -----	2-4,14, 15,19, 20,27,28

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41116

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9853581	A	26-11-1998	EP 1013047 A1	28-06-2000
			JP 2002512758 T	23-04-2002
			WO 9853581 A1	26-11-1998
<hr/>				
US 5805442	A	08-09-1998	US 5975737 A	02-11-1999
			US 5982362 A	09-11-1999
<hr/>				