

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/024696 A3

(51) **International Patent Classification:**
H04L 12/56 (2006.01)

(21) **International Application Number:**
PCT/US2007/076273

(22) **International Filing Date:** 20 August 2007 (20.08.2007)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
11/465,939 21 August 2006 (21.08.2006) US

(71) **Applicant (for all designated States except US):** **DANIEL MEASUREMENT AND CONTROL, INC.** [US/US]; 11100 Brittnore Park Drive, Houston, TX 77041 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** **BRYNGELSON, Ryan, A.** [US/US]; 617 Thunderbird Drive, Marshalltown, IA 50158 (US). **GRIFFIN, Scott, A.** [US/US]; 818 SE 4th, Ankeny, IA 50021 (US). **ELLENDER, Damon, J.** [US/AU]; 130 National Ave, Loftus, New South Wales 2232 (AU).

(74) **Agents:** **SCOTT, Mark, E.** et al.; Conley Rose, P.C., P.O. Box 3267, Houston, TX 77253-3267 (US).

(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, **BR**, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

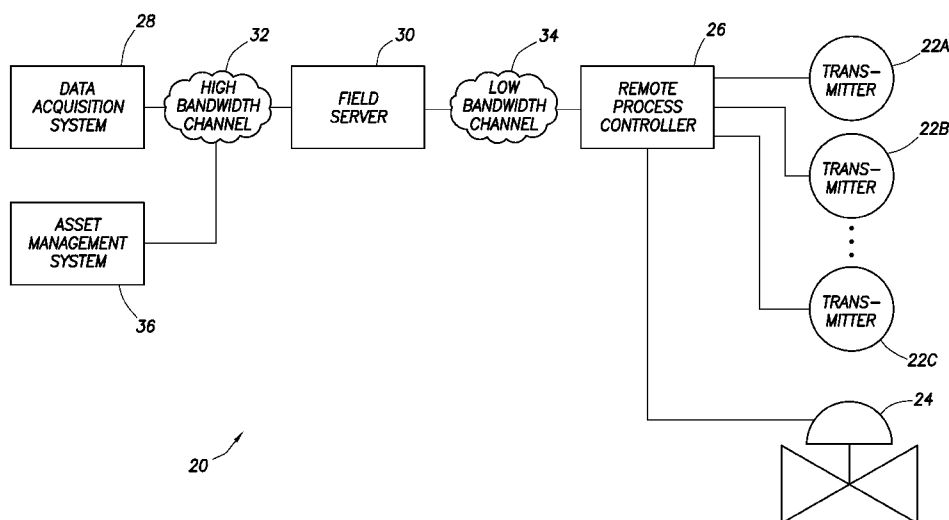
(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,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

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) **Date of publication of the international search report:**
4 September 2008

(54) **Title:** METHOD AND SYSTEM OF MESSAGE PRIORITIZATION IN A CONTROL SYSTEM



(57) **Abstract:** A method and related system 20 of message prioritization in a control system. At least some of the illustrative embodiments are methods comprising receiving a first packet-based message from a first software package 28 across a high bandwidth channel 32 (the first packet-based message directed to a first software port), receiving a second packet-based message from a second software package 36 across the high bandwidth channel 32 (the second packet-based message directed to a second software port), selecting the first packet-based message based on the first packet-based message being directed to the first software port, forwarding the first packet-based message across a low bandwidth channel 34 (the bandwidth channel of the high bandwidth channel higher than the bandwidth of the low bandwidth channel), and then forwarding the second packet-based message across the low bandwidth channel 34.

WO 2008/024696 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/76273

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04L** 12/56(2006.01)

USPC: 370/395.42

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)

U.S. : 370/395.42,230-235,389,395.4,412,4 15,428-429,536,538,540,542,543; 709/207

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,931,003 B2 (ANDERSON) 16 August 2005 (16.08.2005), Figs. 1 and 3; column 10, lines 8-12; column 11, lines 49-54; column 20, lines 1-5 and 49-55; column 21, lines 1-10; column 24, lines 24-36 and 50-53; column 25, lines 25-28	1, 7, 8, 22, 25, 26 -----
Y		2-6, 9-21, 23, 24
Y	US 20080071924 A1 (CHILUKOOR) 20 March 2008 (20.03.2008), Fig. 3; Pg. 2, paragraph 22	4-6, 11, 12, 14, 19-21, 23, 24
A	US 6,067,301 A (AATRESH) 23 May 2000 (23.05.2003), entire document	1-26
A	US 20010001608 A1 (PARRUCK et al) 24 May 2001 (24.05.2001), entire document	1-26
A	US 6,560,230 B1 (LI et al) 06 May 2003 (06.05.2003), entire document	1-26
A	US 20040001493 A1 (CLOONAN et al) 01 January 2004 (01.01.2004), entire document	1-26



Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents		"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
"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search

02 June 2008 (02.06.2008)

Date of mailing of the international search report

26 JUN 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn ISA/US
Commissioner for Patents
P O Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Gregory Sefcheck

Telephone No. 571-272-3098

INTERNATIONAL SEARCH REPORT

International application No
PCT/US07/76273

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 20040081091 A1 (WIDMER et al) 29 April 2004 (29.04.2004), entire document	1-26
A	US 20040085964 A1 (VAANANEN) 06 May 2004 (06 05.2004), entire document	1-26
A	US 6,775,232 B1 (AH SUE et al) 10 August 2004 (10.08 2004), entire document	1-26
A	US 6,834,3 15 B2 (JOHNSON) 21 December 2004 (21.12.2004), entire document	1-26
A	US 7,020, 141 B1 (STACEY et al) 28 March 2006 (28.03.2006), entire document	1-26