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Form PTO-1594 (Rev. 06/04)  
OMB Collection 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

### RECORDATION FORM COVER SHEET TRADEMARKS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Madge Networks Limited

- Individual(s)
- General Partnership
- Corporation-State
- Other
- Association
- Limited Partnership

Citizenship (see guidelines) United Kingdom

Execution Date(s) 15 April 2003

Additional names of conveying parties attached?  Yes  No

**3. Nature of conveyance:**

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

**2. Name and address of receiving party(ies)**

Additional names, addresses, or citizenship attached?  Yes  No

Name: Challengemode Limited

Internal

Address:

Street Address: 23 Bedford Avenue

City: Little Chalfont Bucks

State:

Country: United Kingdom Zip: HP6 6PT

- Association
- General Partnership
- Limited Partnership
- Corporation
- Other

Citizenship \_\_\_\_\_  
Citizenship \_\_\_\_\_  
Citizenship United Kingdom  
Citizenship \_\_\_\_\_  
If assignee is not domiciled in the United States, a domestic representative designation is attached:  Yes  No  
(Designations must be a separate document from assignment)

**4. Application number(s) or registration number(s) and identification or description of the Trademark.**

A. Trademark Application No.(s)

B. Trademark Registration No.(s)

1,995,854 and 2,196,110

Additional sheet(s) attached?  Yes  No

C. Identification or Description of Trademark(s) (and Filing Date if Application or Registration Number is unknown):

**5. Name & address of party to whom correspondence concerning document should be mailed:**

Name: IPLO INTELLECTUAL PROPERTY LAW OFFICES

Internal Address: Michael J. Hughes

Street Address: 1901 S. Bascom Avenue, Suite 660

City: Campbell

State: California Zip: 95008

Phone Number: 408-558-7890

Fax Number: 408-558-9960

Email Address: michaelH@iplo.com

**6. Total number of applications and registrations involved:**

2

**7. Total fee (37 CFR 2.6(b)(6) & 3.41) \$ 65.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed

**8. Payment Information:**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 083240

Authorized User Name Michael J. Hughes

**9. Signature:**

Michael J. Hughes  
Signature

30 September 2004  
Date

Michael J. Hughes

Name of Person Signing

Total number of pages including cover sheet, attachments, and document: 31

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

CH \$65.00 083240 1995854

DATED 15th April 2003

- (1) MADGE NETWORKS LIMITED  
(In Administrative Receivership)
  
- (2) CHALLENGEMODE LIMITED
  
- (3) GEOFFREY LAMBERT CARTON-KELLY  
and BRUCE ALEXANDER MACKAY

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DEED OF ASSIGNMENT OF  
TRADEMARKS AND PATENTS

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DATED *15th April* 2003

#### PARTIES

- (1) **MADGE NETWORKS LIMITED** (in Administrative Receivership) (registered in England with company number 2011579) whose registered office is at Wexham Springs, Framewood Road, Wexham, Slough SL3 6PJ (the "Assignor") acting by the Receivers (as defined below);
- (2) **CHALLENGEMODE LIMITED** (registered in England with company number 4~~X~~682844) whose registered office is at 23 Bedford Avenue Little Chalfont Bucks HP6 6PT (the "Assignee");
- (3) **GEOFFREY LAMBERT CARTON-KELLY** of Baker Tilly, The Clock House, London Road, Guildford, Surrey GU1 1UW and **BRUCE ALEXANDER MACKAY** of Baker Tilly, 2 Bloomsbury Street, London WC1B 3ST in their capacity as joint administrative receivers of MNL and acting by the powers of possession, sale and attorney conferred upon them under clauses 7 and 8.4 of the Debenture (the "Receivers").

#### RECITALS

- (A) The Assignor is the owner of the registrations and applications in respect of the trademarks listed in schedule 1 (the "Trademarks") and the patents listed in schedule 2 (the "Patents") and has entered into the Agreement (as defined in clause 1.1 below) which includes the acquisition by the Assignee of the Trademarks and the Patents.
- (B) The Assignor is willing to enter into this Assignment to give effect to the Agreement for the purposes of assigning to the Assignee such right, title and interest (if any) as it has in the Trademarks and the Patents on the terms set out below.

#### OPERATIVE PROVISIONS

##### 1. DEFINITIONS AND INTERPRETATION

- 1.1 Words and expressions defined in the Agreement shall bear the same meaning when used in this Assignment.
- 1.2 The acknowledgments and exclusions made and given by the Assignee in favour of the Receivers and the Assignor in this Assignment are in addition to and/or confirmatory of all rights, privileges and exclusions of liability in favour of the Receivers and/or the Assignor under the Agreement, which, so far as applicable, are expressly incorporated into this Assignment.

##### 2. ASSIGNMENT

In consideration of the sum of £1 (one pound) paid by the Assignee to the Assignor (receipt of which is hereby acknowledged by the Assignor) the Assignor assigns to the Assignee whatever right, title and interest the Assignor may have (if any) in the Patents and the Trademarks together with whatever right the Assignor may have (if any) to claim and retain damages for past and future infringement of the Patents and the Trademarks or any part thereof.

##### 3. ACKNOWLEDGMENTS

- 3.1 The Assignee acknowledges that the Trademarks and the Patents are transferred with no title guarantee and, in particular, that:

- (A) neither the Receivers nor the Assignor have carried out any investigations in relation to the registration and ownership of the Trademarks and the Patents and the Receivers have available to them only limited knowledge in relation to the Assignor and its affairs;
- (B) the information contained in schedules 1 and 2 has been compiled by the Assignee and/or its advisers and is based exclusively on investigations carried out by, and the knowledge of, the Assignee and/or its advisers in relation to the ownership and registration of the Trademarks and the Patents;
- (C) this is a receivership transaction and ordinary commercial considerations do not necessarily apply, with the effect that the terms and conditions of, and the exclusions and limitations set out in, this Assignment are fair and reasonable in the context of the assignment of the Trademarks and the Patents by the Assignor acting by the Receivers as its attorney.

3.2 The Assignee is deemed to buy the Trademarks and the Patents with full knowledge and agrees that neither the Assignor nor the Receivers (or their firm, agents or staff) make nor have made any warranty or representation whatsoever concerning the Trademarks and/or the Patents and the Assignee and nothing shall give the Assignee any right or claim against the Assignor or the Receivers or entitle it to rescind or repudiate this Assignment.

#### 4. NO PERSONAL LIABILITY OF RECEIVERS

4.1 The Assignee agrees that the Receivers are acting as attorney of the Assignor pursuant to the powers granted to them by the Debenture, common law and by statute.

4.2 This Assignment is supplemental to the Agreement and neither the Receivers, their firm nor their agents shall incur any personal liability whatsoever under this Assignment.

4.3 Each of the Receivers has the power to act as attorney for the Assignor and for the other Receiver for all purposes arising out of or in connection with this Assignment.

#### 5. MISCELLANEOUS

5.1 This Assignment may be executed in any number of counterparts (which may be exchanged by fax) and by the parties to it on separate counterparts, each of which shall be an original but all of which together shall constitute one and the same instrument.

5.2 The Contracts (Rights of Third Parties) Act 1999 shall not apply to this Assignment.

#### 6. LAW

This Assignment shall be governed by and construed in accordance with English law and each of the parties to it hereby agrees to submit to the non-exclusive jurisdiction of the English Courts.

IN WITNESS of which the parties have duly executed this Assignment as a deed the day and year first before written.

SCHEDULE 1

Trademarks

SCHEDULE 2


Patents

SIGNED (but not delivered until the date hereof) )  
as a DEED by MADGE NETWORKS LIMITED )  
(In Administrative Receivership) acting by the )  
Receivers as its attorney without personal liability )

  
Signature of Receiver

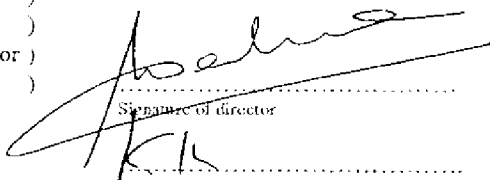
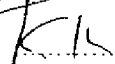
SIGNED (but not delivered until the date hereof) )  
as a DEED by GEOFFREY LAMBERT )  
CARTON-KELLY for the Receivers in the )  
presence of: )

  
Signature of Receiver

  
Signature of Witness

Name of Witness: M.R. WILD  
Address: 18 HUNTERS WAY, SPENKERS WOODS, RG7 1HN  
Occupation: ACCOUNTANT

SIGNED (but not delivered until the date as )  
hereof) a DEED by CHALLENGEMODE )  
LIMITED acting by two directors or a director )  
and the company secretary )

  
Signature of director  
  
Signature of second director or company secretary

Madge Name, Logo and Product Trademark Registrations

**A. MADGE NAME & OLD LOGO IPR OWNED BY MADGE NETWORKS LIMITED**

D) New Co Requires -										
Mark	Class	Country	Reg Date	Exp'd Date/ Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments		
"MADGE"	R-9	Benelux	29/6/98	29/6/2010	9/5/91	481236	LWT (S&D)	Further 10 year registration period entered and renewal fees paid. Next due 29/6/2010		
"MADGE"	R-9	Denmark	13/3/92	13/3/2002	11/5/92	014911992	S&D	Further 10 year registration period entered and renewal fees paid. Next due 13/03/2012		
"MADGE"	R-9	EC	1/11/96	1/11/2006	24/3/2000	320635	S&D	Registration certificate rec'd & filed		
"MADGE logo"	R-9	Finland	5/8/92	5/8/2012	20/10/92	120684	S&D	Further 10 year registration period entered and renewal fees paid. Next due 05/08/2012		
"MADGE"	R-9	France	29/6/90	29/6/2010	20/10/92	1599808	LWT (S&D)	Further 10 year registration period entered and renewal fees paid. Next due 21/6/2019		
"MADGE"	R-9	Germany	25/6/90	25/6/2010	14/11/91	1180305	LWT (S&D)	Certificate of renewal rec'd 19/06/04. No further action required until June 2010.		
"MADGE"	R-9	GB	19/6/90	18/6/2007	17/1/92	128604	LWT (S&D)	Renewal due 19/6/2007.		
"MADGE"	R-9	Ireland	25/6/90	25/6/2007	11/2/93	139075	LWT (S&D)	Renewed for 14yr period. Renewal due 25/6/2007.		
"MADGE"	R-9	Italy	15/2/93	6/7/2010	6/8/93	587702	LWT (S&D)	Further 10 year registration period entered and renewal fees paid. Next due 6/7/2010		
"MADGE"	R-9	Norway	9/1/02	9/1/2012		148550	S&D	Registration renewed for 10 years on 9/1/02.		
"MADGE"	R-9	Spain	21/6/93	6/7/2010	22/12/93	1578733	LWT (S&D)	Renewed automatically for further 10 years (2010).		
"MADGE"	R-9	Sweden	29/5/92	29/5/2012	25/8/92	235258	S&D	Registration renewed for a further ten years until 2012.		
"MADGE"	R-9	Switzerland	7/7/1999	7/7/2009	4/2/2000	168276	LWT (S&D)	Renewal certificate rec'd 22/08/02 and filed.		
"MADGE"	R-87	Taiwan	16/8/93	16/7/2003	23/11/93	603920	LWT (S&D)	New registration certificate received & filed. No action necessary until 2009.		
"MADGE"	R-86	Taiwan	1/10/91	30/09/2011	22/7/93 x2 (one with different description)	537261 & 589608	CPA	Both trademark registrations renewed for a further 10 years until Sept 2011		
"MADGE"	R-72	Taiwan	1/12/92	1/12/2012	Yes (rec'd 1/1/93)	577925	LWT (S&D)	Renewed for an additional period of 10 years to 01/12/2012		
"MADGE"	R-9	USA	8/10/91	08/10/2011	30/1/91	1,659,527	NJH	Renewed for an additional period of 10 years to 08/10/2011		

**Madge Name, Logo and Product Trademark Registrations**

Mark	Class	Country	Reg Date	Exp'd Date/ Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments
ii) Rest of Name / Old Logo Trademark IPR held by Madge Networks Limited								
"MADGE"	R-9	Argentina	7/7/95	7/7/2005	Yes 31/5/96	1.568.312	MJH	POA returned 30/9/95
* "MADGE logo"	TM-9	Argentina	App'n proceeding			Not got yet	MJH	
"MADGE"	R-9	Australia	17/7/99	17/7/97	17/9/93	A538232	LWT (S&D)	Renewal date 17/7/2007
"MADGE"	R-9	Austria	30/10/90	30/10/2010	18/3/91	133372	S&D	Further 10 year registration period entered and renewal fees paid. Next due 30/10/2010
* "MADGE"	R-9	Brazil	25/2/97	25/2/2007	14/11/97	818201002	MJH	
* "MADGE logo"	R-9	Brazil	25/2/97	25/2/2007	14/11/97	818159464	MJH	Rec'd original Certificate of Registration. Renewal 9/5/2006.
* "MADGE"	TM-9	Bulgaria					MJH	
"MADGE"	R-9	Canada	06/12/91	6/12/2006	15/1/92	391381	LWT (S&D)	Registration renewal - 16/12/2006.
* "MADGE"	TM-9	Chile					MJH	
"MADGE"	R-86	China	14/3/94	14/3/2004	12/7/94	681543	LWT (S&D)	Rec'd original Certificate of Registration 27/4/04 filed.
* "MADGE"	R-9	Croatia	6/6/96	6/6/2006	11/2/98	2960666	MJH	
* "MADGE"	R-9	Czech Republic	30/10/97	30/10/2007	11/2/98	204829	MJH	App'n in the name of MINSV. App'n has been advertised in TMJ - 14/5/97. App'n will remain open to opposition for 3 months. Registration & original certificate rec'd.
* "MADGE logo"	R-9	GB	2/11/96	2/11/2006	11/9/97	2114629	S&D	Registered for a further 10 years. New certificate rec'd 15/01/01 and filed.
"MADGE"	R-9	Greece	17/1/94	06/09/2010	22/6/94	100592	LWT (S&D)	Renewed for 1-yr period on 14/9/97
"MADGE"	R-9	Hong Kong	14/9/90	14/9/2011	8/6/92	1529/1992	LWT (S&D)	Reg'n certificate received and filed. No action required until 2006
* "MADGE"	R-9	Hungary	21/5/96	21/5/2006	25/6/98	150217	MJH	
"MADGE"	R-9	Indonesia	28/10/94	31/7/2003	12.10.95	314379	(S&D)	Decision taken March 2003 not to renew
* "MADGE"	TM-9	India	App filed			App # 583698	LWT (S&D)	Indian Associates have accepted mark, therefore the application will proceed (15/6/08).
"MADGE"	R-9	Israel	26/10/99	25/10/2013	13/12/99	85082	LWT (S&D)	Mark renewed for 14 years and certificate received on 13/12/99. No action required until 2013.
"MADGE"	R-11	Japan	29/6/94	29/6/2004	25/8/94	2676834	LWT (S&D)	Registration certificate rec'd and filed. No action necessary until 2006.
* "MADGE"	TM-9	Kazakhstan	27/2/98	22/5/2006	25/1/99	8587	MJH	
"MADGE"	R-39	Korea (South - Rep of)	6/12/93	6/12/2003	6/1/94	280812	LWT	Decision taken March 2003 not to renew
* "MADGE"	R-9	Latvia	22/5/96	22/5/2006	25/3/98	1339517	MJH	Remained POA to MJH 15.4.96 register name 56296
* "MADGE"	TM-9	Macedonia					MJH	



Madge Name, Logo and Product Trademark Registrations

Mark	Class	Country	Reg Date	ExpDate/ Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments
* "MADGE"	TML9	Malaysia	19/8/94	18/5/2010		93-03483	LWT (S&D)	Further 10 year registration period entered and renewal fees paid. Next due 18/5/2010
"MADGE"	R-9	Mexico	28/2/94	28/2/2004	18/8/94	457645	MJH	
"MADGE"	R-9	Algeria (Bumal)	15/6/96	15/6/2005	16/5/97	2716	MJH	
"MADGE"	R-9	New Zealand	29/1/96	29/1/2003	Yes - 5/6/97	258258	MJH	Registered 9/4/97.
* "MADGE"	TML9	Pakistan	4/2/96	4/2/2003	31/07/01	134115	MJH	Registration certificate received and filed. No action necessary until 2003.
"MADGE"	R-9	Peru	9/7/96	9/7/2006	28/8/96	27164	MJH	
"MADGE"	R-9	Philippines	29/7/94	29/7/2004	31/10/94	58963	LWT (S&D)	Official certificate of renewal rec'd 04/05/01. Renewal fees due 20 July 2004.
* "MADGE"	TML9	Poland	25/7/95	25/7/2005	21/9/99	App # 103907	LWT (S&D)	Registration certificate received and filed. No action necessary until 2005.
* "MADGE" logo	R-9	Poland	15/10/98	25/7/2005	31/10/98	(G) 103130	LWT (S&D)	Registration certificate received and filed. No action necessary until 2005.
* "MADGE"	TML9	Romania	24/5/96	24/5/2006	6/4/99	27230	MJH	Registration certificate received and filed. No action necessary until 2006.
* "MADGE"	TML9	Russia	10/7/96	10/6/2006	25/3/98	157845	MJH	Registration certificate received and filed 10/6/99
* "MADGE"	TML9	Singapore	Applic date 26/6/95	26/6/2005	16/6/99	5807/95	S&D	Registration certificate received and filed. No action necessary until 2005.
* "MADGE" logo	TML9	Singapore	8/8/95	8/8/2005	7/1/00	Reg # 7398/95	S&D	Registration certificate received and filed. No action necessary until 2006.
* "MADGE"	TML9	Slovak Republic	7/6/96	7/6/2006	21/2/00	Reg # 185031	MJH	
* "MADGE"	R-9	Slovenia	26/6/96	26/6/2006	4/12/97	9670859	MJH	
"MADGE"	R-9	South Africa	28/7/92	28/7/2012	18/5/94	92/6304	(S&D)	Renewed for a further 10 years (2012). Renewal certificate rec'd 05/08/02 and filed.
* "MADGE"	TML9	Sri Lanka	27/3/96	27/3/2006	20/10/98	78117	MJH	Registration certificate received & filed. No action necessary until 2006.
"MADGE"	R-9	Thailand	3/6/93	2/6/2003	10/4/95	KOR19650	LWT (S&D)	Decision taken March 2003 not to renew
"MADGE"	R-9	Turkey	28/7/95	28/7/2005	Yes (17/5/96)	162517	LWT (S&D)	
"MADGE" logo	R-9	Turkey	28/7/95	28/7/2005	Yes (17/5/96)	162686	LWT	
* "MADGE"	TML9	United Arab Emirates	5/11/96	5/11/2006	15/3/99	17957	MJH	Registration certificate received and filed. No action necessary until 2006.
"MADGE" logo	R-9	USA	29/10/91	29/10/96	Yes (when?)	1662271	MJH	To file Affidavit of Continued Use by 29/10/07.

Madge Name, Logo and Product Trademark Registrations

Mark	Class	Country	Reg Date	ExpDate/ Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments
* "MADGE"	TM/9	Venezuela					NIH	POA returned 28.2.9h
"MADGE"	R-9	Vietnam	6/2/96	6/2/2006	Yes (1/12/96)	23002	NIH	

B. NEW MADGE LOGO (1999) REGISTRATIONS

B. New Co Requires: -									
Mark	Classes	Country	Reg Date	Exp Date/ Fees	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments	
MADGE LOGO	9, 38, 41 8, 42	EU	Reg date 12/7/99	12/7/2009 due	15/9/00	Reg # 1287221	S&D	Trademark has been registered. Registration Certificate rec'd and filed. No action req'd until July 2009.	
MADGE LOGO	9, 38, 41 8, 42	Norway	Reg date 25/1/01		20, 3/01	Reg # 206614	S&D	Trademark has been registered. Registration Certificate rec'd and filed. No action req'd until January 2011.	
MADGE LOGO	9, 38, 41 8, 42	Switzerland	App date 7/7/99			App # 6025/1999	S&D	Application filed, number assigned and official letter of receipt received and filed on 13/8/99.	
MADGE LOGO	9, 38, 41 8, 42	US	App date 26/4/99			App # 75/657534	NIH	Abandoned on 10/07/02 due to difficulty proving use of the standalone "M" logo	
MADGE LOGO (black & white)	9, 38, 41 8, 42	US	App date 26/4/99			App # 75/691860	NIH	Abandoned on 10/07/02 due to difficulty proving use of the standalone "M" logo	
"m madge" (black & white)	9, 38, 41 8, 42	US	Reg date 04/06/02	Affidavit per 04/06/07 & 04/06/08	05/11/02	Reg # 2575264	NIH	Trademark has been registered. Registration certificate rec'd 5/11/02 and filed. Affidavit of Use must be filed with the US PTO between 04/06/07 and 04/06/08 to establish continued use of this mark.	
"m madge" (black & white)	9	US	App date			App #	NIH	Will file a new application for the combined trademark in Class 9 only as this is the only area in which Madge now operates its business. Will only need to file in black & white as this gives us maximum protection.	

Madge Name Logo and Product Trademark Registrations

ii) Rest of Madge Logo Registrations: -									
Mark	Classes	Country	Reg Date	Exp Date/Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments	
MADGE LOGO	9, 38, 41 & 42	Australia	Reg date 6/7/99	06/07/2009	25/02/02	Reg # 709421	S&D	Mark registered for 10 years. Use due by 6/7/99. Registration certificate rec'd 25/02/02 and filed.	
MADGE LOGO	9, 38, 41 & 42	Canada	App date 6/7/99			App # 1021176	S&D	Application filed, number assigned and official letter of receipt received and filed on 12/8/99.	
MADGE LOGO	9, 38, 41 & 42	Canada	App date 6/10/00			App # 1,077,815	S&D	Application filed, number assigned and official letter of receipt received and filed on 04/12/00	
" <i>an madge</i> " (Stylized)									
" <i>an madge</i> " (colour)	9, 38, 41 & 42	US	App date 22/5/00			App # 767052798	MPH	Decided to drop classes 38, 41 & 42 from the application as Madge no longer has business activities in these areas 10/07/02	

TRADEMARK

REEL: 002949 FRAME: 0743

Madge Name, Logo and Product Trademark Registrations

C. PRODUCT TRADEMARKS HELD BY MADGE NETWORKS LIMITED

D) New Co Requests -									
Mark	TM Class	Country	Reg Date	Exp Date / Fees due	Cert Rec'd	Reg #	Law Firm	Comments	
RINGNODE (Smart Ringnode)	R-9	US	3/12/91	3/12/96/7	17/12/91	1667242	NJH	Allow registration to lapse.	
RINGNODE (Smart Ringnode)	R-9	Mexico (sepp file)	28/2/94	28/2/2004	3/8/94	457644	NJH	Allow registration to lapse.	
RING MANAGER (Ring Manager)	R-9	UK	7/6/95	7/5/2005	21/3/97	2033237	S&D	Now called Mcentage but we still use this therefore keep. Check why this is not registered in the US.	
RINGSWITCH (Smart Ringswitch)	R-9	US	20/8/96	20/8/2006	19/9/96	1,995,854	NJH	Proof of use of mark in US submitted in order to maintain US registration until 2006. Trademark maintained for an additional 10 years i.e. until 20/08/06	
RINGSWITCH (Smart Ringswitch Plus)	R-9	UK	Original reg date 25/2/94 New reg date 25/1/01	1 <sup>st</sup> renewal fees due 25/5/2001 2 <sup>nd</sup> renewal fees due 25/2/2011	Original certificate 04/10/95 New certificate 01/3/2001	1563573	S&D	Confirmation of further 10 year renewal of trade mark rec'd 16/2/01 and filed.	
RINGSWITCH (Smart Ringswitch)	TM-9, 16, 37	Norway	6/11/98	6/11/08	28/1/99	Reg # 1998.02747	S&D	Rec'd & filed registration certificate. No action required until 2007.	
RINGSWITCH (Smart Ringswitch)	TM-9, 16, 37	Switz	Orig app date 02/04/98 New app date 1/11/00	01/11/10	04/10/01	App # 02728/199 Reg # 487916	S&D	Registration Certificate received and filed. No action required until 2008.	
SMART DESKSTREAM	TM-9	EU	5/8/98	5/8/2008	1/2/00	Reg # 897520	S&D	Registration Certificate received, no action required until 2008.	

Madec Name, Logo and Product Trademark Registrations

SMART DESKSTREAM	TM-9	Norway	14/1/99	14/1/2009	28/1/99	Reg # 195,325	SKD	Registration Certificate received.
SMART DESKSTREAM	TM-9	Switz	Filing date 6/8/98			App # 6468/1998	SKD	Rec'd official reg'n cert 28/4/99 and reg'n published in the Official Gazette on 25/2/99 allowing 3 months for opposition.
SMART DESKSTREAM	TM-9	US	Filing date 11/8/98			Serial # 75/534451	AGH	Settlement Agreement signed with OLEAC so that registration of this mark can proceed and can be used in conjunction with their SMARTSTREAM mark. We should receive notification of registration in approx. 4 months from mid April 2002.
SMARTROM (Smartrom)	R-9	US	24/8/93	24/8/98	22/8/93	1789931	AGH	Registration of mark will not be renewed when due on 24/08/03
TR/EYEW (Trueview)	R-9	US	13/10/98	13/10/04		Reg # 2,196,110	AGH	

Other Product/Trademarks held by Madec Networks Limited: -

Mark	TM Class	Country	Reg Date	Exp Date/ Fees due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comments
ANION	TM-9	US				Serial no. 75/101,738	AGH	Received Notice of Abandonment. Application was abandoned on 2/1/98.
ANIONMASTER	TM							Will probably be using this for ATVI monitoring application. To be confirmed. Sarah Forest said would get back to us 21/11/96. Email sent 10/6/97 chasing Sarah on it. Application abandoned.
BLUE + (Blue+)	TM-9	US	8/8/00	8/8/2010	7/11/00	Reg # 2,374,142	AGH	Registration Certificate rec'd 7/11/00 and filed. No action required until 2010, however it was decided to abandon this application there we should allow registration to lapse.
(Application abandoned in 1999) BLUE BOX (No longer in use)		US						Search 29/4/93 showed obstacles. Never filed.

Trade Name, Logo and Product Trademark Registrations

BEURONI (Blurom)	TML-9	US				App # 74/689483	MJH	Filed First Request For Extension Of time document Jan 97. Proof of use due 13/8/97. Abandoned 24/6/97. Abandoned 5/5/93.
BRIDGENODE (No longer in use)		US						
CELLENICUM (Cellenium Plus)	TML	not filed						Name for high speed bus inside the LANSwitch hub (feature name). Received Notice of Abandonment. Date of abandonment is 18/12/97.
CELLRUNNER (Cellrunner)	TML-9	US			Serial No. 75/043,241		MJH	Application withdrawn 2/2/98.
CELLRUNNER (Cellrunner)	TML-9	EU			App# 203414		S&D	Application made in the name of Madge Technology NV. Received Official Filing Receipt and copy of application 16/10/96. Let application lapse. Abandoned.
CELLRUNNER (Cellrunner)	TML-9	Israel	Filed 11/9/96		App# 107409		S&D	Application abandoned 9/7/97.
CELLRUNNER (Cellrunner)	TML-9	Japan					S&D	Application made in the name of Madge Technology NV. Application was suspended due to cost cuts in October 1996. Search done 10/1/97 but not descriptive to register.
DIRECT DATA STREAMING (DDS)								
DECODEMASTER (DecodeMaster)	R-9	US	23/1/96	23/1/2006 Fees due 23/1/2001	1,950,220		MJH	We buy these products from Bay Networks (ex Armon that was bought by Bay). Lifespan is 3 years. Allow registration of mark to lapse - do not renew.
ETHERNET EXCHANGE		US						No plans to use this mark.
ENOPLANE (Exoplane)	TML-9	US	Filed on 25/7/96		Applic # 75/139,880		MJH	All rights, title and interest in this mark assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.

Madge Name, Logo and Product Trademark Registrations

EXOPLANE (Exosphere)	R-9	EU	17/5/96	17/5/2006	12/8/98	267641	S & D	Registration certificate in name of MINNY received and filed. This mark was assigned to Lanter in August 1998 as per Trademark Assignment & Licence Agreement.
FAST BLUE (Fast Blue)	R-9	US	6/5/97	6/5/2003	2/6/97	Reg'n No 2,059,718	NIH	Await certificate of Registration. Allow registration of mark to lapse - do not renew.
PASTIANE								Never filed - search showed lots of other registered marks (Aug 95).
FASTMAC (Fastmac)	R-9	US	9/3/93	9/3/98	27/4/93	1757560	NIH	Allow registration of mark to lapse - do not renew when renewal fee due on 03/09/03.
(Fastmac Plus) FAST TONEN RING (No longer in use)		US	Sent specimens of use Jul 94 for filing on Supp Register			App# 74/395573	NIH	Madge withdrew application - 6/1/95.
GROUPSWITCH (GroupSwitch)	TN1-9	EU	Filing date 7/11/97			App# 670968	S&D	ABANDONED - Clive Mayne 10/8/99
GROUPSWITCH (GroupSwitch)	TN1-9	US				App# 75/395116	NIH	ABANDONED - Simon Drennan 4/2/00
GROUPSWITCH (GroupSwitch)	TN1-9	Norway	6/11/98	6/11/2008	21/1/99	Reg # 194 014	S&D	Registered in class 9. Reg'n cert received & filed. No action necessary until 2008.
GROUPSWITCH (GroupSwitch)	TN1-9	Swiss	Filing date 20/4/98			App# 3131/98	S&D	Provided evidence of proof of use to back up the appl'n of this mark. Extension of response time & copy of letter from Swiss associates rec'd 26/4/99.
HSTR Ready	TN1-9	US					NIH	TK did not sign TN1 Appl'n, Declaration & POA - Intention to Use as HSTR not a Madge acronym. Requested NIH to amend doc & resend - 9/3/98. Logo appl'n to go ahead.

Trade Name, Logo and Product Trademark Registrations

HSTR Ready	TML-9, 1637	EU	2/2/1998	2/2/2008	26/4/2000	739114	S&D	Trademark registration certificate filed. No action required until 2008.
IMMEDIA		US						Search showed problems, so decided not to proceed - will be called MadgeOne.
INTERMASTER (No longer in use)	TML-9	US				74/531,321	ARE (now to MHH)	Abandoned June 1997.
LANNET (No longer in use)		UK		26/5/97		B1426467	MJH	Registration of this mark not renewed 23/5/97.
LANNET (No longer in use)	R-9	UK	2/1/92	2/1/99	yes (copy certificate @ MIE)	1486715	UDL (to LWT)	Registration of mark shall not give right to the exclusive use of the words "Ethernet Exchange"
LANNET LANSWITCH (LANswitch) (No longer in use)	R-9	UK	2/1/92	2/1/99	Yes (original certificate @ MIE)	1486714	UDL to LWT (now to S&D)	ESD Product Registration of this mark gives no right to the exclusive use of the word "Lanswitch"
LANNET MULTINET (Abolished) NOW LANSWITCH	R-9	UK	10/09/93	26/5/97	Yes (copy certificate @ MIE)	B1426466	UDL (to LWT)	Registration not renewed 23/5/97.
LANSTACK (LANstack)	R-9	US	25/04/95			1,893,850	ARE	Abandoned application 2/96 due to insufficient use of mark. Look at EU application.
LANSTACK (LANstack)	TML-9	UK				1,563,694	UDL	All rights, title and interest in this mark assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.



Madge Name, Logo and Product Trademark Registrations

LANSWITCH (Lanswitch)	TML-9	US			Yes. Received 29/3/94	1,828,791		Allow registration to lapse
MADGE BLUE BOX (No longer in use)							NQH	Never filed - search made looks OK.
MADGEFAX (service mark) (Madgefax)	R-42, Intl US 100 & 101	US	29/11/94	29/11/99	5/1/95	1,865,435	NJH	Mark no longer in use, registration allowed to lapse.
MADGE PERSPECTIVE	TML-9	US	Filing date 7/7/98			Serial # 75/514266	NJH	Rec'd Office Action from US PTO arguing that some pre-existing applications for the term "perspective" are so closely related that our mark may not be registrable. Allow registration to lapse.
MADGE PRESTO (Madge Presto)	TML-9, 16	EU	21/1/97	21/1/07	7/1/99	Reg #	SKD	Allow registration to lapse.
MADGE PRESTO	TML-9	US				Serial # 75/232,053	NJH	Not pursuing this mark. Confirmation received from Simon Drennan 30/04/01
* MADGE SERVICE (MadgeService)	TML-37, 41 and 42	US				Serial no. 75/275358	NJH	Application abandoned 25/8/00. Notice of Abandonment rec'd 17/8/01 and filed.
* MADGE SERVICE (MadgeService)	R-37, 41 and 42	EC	21/2/97	21/2/07	23/11/9	467597	SKD	Allow registration to lapse.
MADGE STACK (Madge Stack)	R-9	US	6/1/98	5/1/03	28/1/98	2,127,598	NJH	Allow registration to lapse. Notice of abandonment rec'd 22/01/02.
MEDIATOR								Search showed problems so decided not to proceed - will be called MadgeOne.
MERITAGE (Meritage)	TML-9	US	Filed on 25/7/96			Applic # 75/139,881	NJH	All rights, title and interest in this mark assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.

Trade Name, Logo and Product Trademark Registrations

MIRIAGE	R-9	EU	17/5/96	17/5/2006	12/8/98	259614	SKD	Registration certificate in name of MINNY received and filed. This mark was assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.
MONTAGE (Montage) (Montage Plus)	TNI-9 R-38	US UK				Serial # 75/232,052  Class 9 = 1,240,086 Class 38 = 1,286,028	NQH SKD	All rights, title and interest in these marks assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement. Collectively referred to as "Montage". Granted non-exclusive, royalty free license to use.
MONTAGE	TNI-9	EU				App# 423475	SKD	TGV Software Inc. owns a reg. in US for "computer programs for use in computer network operations", and for "telecommunication computer programs to interface components of computer controlled typesetting machines either directly or by modem" - two separate registered marks. TGV and Lannet have entered a concurrent use agreement worldwide. PoA received AIH 15/3/96.
MULTINET (Multinet) NOW LANSWITCH (?)	R-9	US	24/8/93			1,589,180	ARE	
MULTINET (Multinet)	R-9	France	28/5/90	27/05/00		1,594,159	Office Briery	
MULTINET (Service mark for conferences) (Multinet)	US					App# 74/657855	NQH	NQH filed Response to Office Action 12.2.96 that was brought by PTO. Suspended due to conflict with former Lannet mark. Abandoned 22/9/97.

Madge Name, Logo and Product Trademark Registrations

MULTINET (Multinet)	UK								Letter sent to IBC on 20/6/95 to see if registered - LANNET have right to use LANNET MULTINET not MULTINET on its own.
MULTINET (Multinet)	France								Letter sent to IBC on 20/6/95 to see if registered - LANNET have right to use MULTINET (2 words).
NETSERVER (No longer in use)									Abandoned 19/4/89.
PLUG n' GO									Never filed, searches revealed problems - Is industry standard.
PLUG n' PLAY									Never filed, searches revealed problems - Is industry standard.
POWERMIAC (Olicom mark)	R-9	Norway							Allow registration to lapse.
RENIBOOT (No longer in use)									Madge withdrew application when product name changed to SMARTROM.
RINGACCESS MODULE (Ringaccess Module)	TM								Search done 6/12/94 (too descriptive, application abandoned Jan 95).
RINGBRIDGE (No longer in use)									Madge withdrew application 26/1/95. Name change - Smart Ringbridge.
RINGCELL (No longer in use)		US	Filed 6/12/93					App# 74/447440	Madge withdrew application 7/1/95.
*RINGHUB (Ringhub)	R-9	US	19/11/91	19/11/96-7	26/11/9	1		1665549	Product has been discontinued. Application abandoned 19/8/97.
RINGLEADER (Ringleader)	R-9	US	4/5/93		28/6/93 (original @NID)			1769122	Will allow registration to lapse as TM no longer in use.
RINGLINK (Ringlink)									Internal code name for new product - Collage 540. Name not needed.
RINGMAN (No longer in use)									Search OK but application never filed.

Madge Name, Logo and Product Trademark Registrations

RING MANAGER (Ring Manager)	R-9	UK	7/6/95	7/5/2005	21/3/97	2023237	SKD	Now called Alontage but we still use this therefore keep. Check why this is not registered in the US.
RINGQUEST (RingQuest)	TM	US						Application never filed - search okay. (Name of game in US)
RINGRUNNER (Ringrunner)	TM-9	US	22/6/99	22/6/2004	3/9/99	2,255,516	NJH	Reg'n certificate rec'd and filed. Notified TR Alktg by email.
RINGVIEW (No longer in use)								App'n never filed - search Feb 92 - found 2 co's using Ringview.
RINGWARRIOR (RingWarrior)	TM							Application never filed - search okay (name of game in US)
RINGWATCH (RingWatch)								
RINGWORLD (RingWorld)	R-16	US	16/2/93	16/8/98	30/3/93	1752511	NJH	Name of Madge News Magazine that is no longer produced. SG & SC confirmed not to renew the registration of this mark 30/9/98
RINGWORLD (RingWorld)	R-16	GB	11/2/92	11/2/99	19/5/94	B1490661	LWT	* and then 14 years thereafter (Refer to comment above for US)
RINGWORLD (RingWorld)	R-16	France	12/13/92	12/12/02	24/6/93	92445173	NJH	Registration of mark will not be renewed when due on 12/08/02
RINGWORLD (RingWorld)	R-16	Germany	22/2/94	11/12/02	16/3/94	2057505	NJH	Registration of mark will not be renewed when due on 12/11/02
RMONMASTER (RMONMaster)		US						All rights, title and interest in this mark assigned to Lannet in Aug '98 as per Trademark Assignment & Licence Agreement.
SECUREMASTER (SecureMaster)	TM-9	US				74/514470	ARE	Application abandoned 1/9/97 as per David Marcus' instruction.
SMART BLUE (No longer in use)		US				App# 74/324358	NJH	Madge withdrew app'n as product "shelved indefinitely" June 94.
SMARTBOOT (Smartboot)	R-9	US	16/3/93	16/3/98	11/5/93	1759073	NJH	App'n has been advertised in CTIA Bulletin on 19/4/99 and will remain open to opposition for 3 months.

Trade Name, Logo and Product Trademark Registrations

SMARTCAU (SmartCAU) (SmartCAU Plus) No longer in use	R-9	US	13/7/93	13/7/98	18/8/93	1782061	NJH	Registration of mark will not be renewed when due on 13/07/03
SMART GINTEGRATOR	TAL-9	EU	App date 24/12/99			App # 1450329	S&D	Application abandoned 22/8/00
SMART GINTEGRATOR	TAL-9	Norway	App date 10/1/00			App # 2000 00180	S&D	Application abandoned 22/8/00
SMART GINTEGRATOR	TAL-9	Switz	Reg date 24/1/00	24/1/2010	11/10/00	Reg # 09655/2000	S&D	Registration of this mark will be allowed to lapse automatically when fees due.
SMART GINTEGRATOR	TAL-9	US	App date 13/1/00			App # 75/896100	NJH	Application abandoned 28/6/01 Notice of Abandonment rec'd 19/7/01 and filed.
SMARTLANI (SmartLAN)	R-9	US	15/6/93	15/6/98	3/8/93	1777086	NJH	This will be changed to LANstack TR20 UF and TR20 SE by the end of 1997.
SMART RINGPROBE (Smart Ringprobe)	TAL-9	US				App # 74/702236	NJH	
SMARTRAM (SmartRAM)	TAL						NJH	Will continue to use but will not apply for TAL. This will be changed to LANstack by the end of 1997.
SMART RINGBRIDGE (Smart Ringbridge)	R-9	US	4/3/97	4/3/2003	16/4/97	2042487	NJH	Registration of this mark will be allowed to lapse automatically when fees due.
SMION (SMION)	TAL-9	US					NJH	All rights, title and interest in this mark assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.
SMIONMASTER (SMIONMaster)	TAL-9	US	12/8/97			2,086,798	NJH	All rights, title and interest in this mark assigned to Lannet in August 1998 as per Trademark Assignment & Licence Agreement.
STRAIGHT BLUE (Straight Blue)	R-9	US	30/11/93	30/11/98	2/3/94	1808384	NJH	Graham Carter confirmed not to renew reg'n 2/10/98.

Madee Name, Logo and Product Trademark Registrations

TELEDIRECT (No longer in use)									Application withdrawn 21/4/94
TELELAN (No longer in use)									Abandoned application as too descriptive and not worth following up.
TERRAINMASTER (TerrainMaster)								ARL	Lannet is the owner of all rights, and interest in this mark. (See Trademark Assignment & Licences Agreement August '98).
VIRTUALMASTER (VirtualMaster)		US							Lannet is the owner of all rights, and interest in this mark. (See Trademark Assignment & Licences Agreement August '98)
* VISAGE	R-9	US	12/5/98	12/5/2003	Original sent to David Marcus	2,157,389		MLH	Assignment rights given to Lannet August '98. (See Trademark Assignment & Licences Agreement).
* VISAGE	R-9	EU	23/4/96	23/4/2006	Original sent to David Marcus	236554		S&LD	Assignment rights given to Lannet August '98. (See Trademark Assignment & Licences Agreement).
WIRESense (WireSense)	TN-9	US	22/12/98	22/12/08	4/1/99	Reg # 2,213,389		MLH	Registration certificate received and filed. No action necessary until 2008.
WORKGROUP ATM .... In a Box! (no longer in use)									Not registering this mark.

Trade Name, Logo and Product Trademark Registrations

(iii) Specific list of where COLLAGE is registered by Madge Networks Limited									
Mark	TM/ R Class	Country	Reg Date	Exp Date/ Fee due	Cert Rec'd	Reg #	Law Firm	Still Open?/Comment	
COLLAGE	R-9 R-42	Algeria	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9	Australia		14/3/2009		A483314	LWT	Rec'd Assignment papers 26/6/96	
COLLAGE	R-9 R-42	Austria	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9 R-42	Bulgaria	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9 R-42	Belux	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9	China		19/1/99		336457	LWT	Rec'd Assignment papers 26/6/96	
COLLAGE	R-9	Costa Rica		21/2/99		69528	LWT	Rec'd Assignment papers 20/8/96	
COLLAGE	R-9 R-42	Croatia	8/3/88	8/3/2008			LWT	Covered by the International Registration. Assignment papers received 20/8/95	
COLLAGE	R-9 R-42	Czech Republic	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9	Denmark		19/1/2000		29990	LWT	Rec'd Assignment Papers 26/6/96	
COLLAGE	R-9	Finland		20/8/2000		108489	LWT	Rec'd Assignment Papers 26/6/96	
COLLAGE	R-9 R-42	France	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96	
COLLAGE	R-9	Germany		28/11/2004		1083293	LWT	Rec'd Assignment papers 26/6/96	

Made Name, Logo and Product Trademark Registrations

COLLAGE	R-9	Germany		23/3/2008		1139159	LWT	Rec'd Certificate 6/3/2001
COLLAGE	R-9	Great Britain		11/3/2005		1338 233A	LWT	Rec'd Assignment papers 26/6/96
COLLAGE	R-9	Greece		14/9/99		95593	LWT	Rec'd Assignment papers 20/8/96
COLLAGE	R-9	Hong Kong		23/3/2009		1587 of 1990	LWT	Mark has been renewed for a further 14 years from 23.3.95
COLLAGE	R-9 R-42	Hungary		8/3/88		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Iran		21/3/2003		30833	LWT	Rec'd Assignment papers 20/8/96
COLLAGE	R-9	Iran				62579	LWT	Rec'd Assignment papers 20/8/96
COLLAGE	R-9 R-42	Italy		8/3/88		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9 R-42	Korea (DPR)		8/3/88			LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Latvia		21/12/2002		11536	LWT	Rec'd Assignment papers 26/6/96
COLLAGE	TM-9	Libya				App# 40107	LWT	LWT from experience with other Libyan cases say that not easy to get action in Libya. However, things may have changed since Sep '95 - recommends that it would be worth chasing matter up
COLLAGE	R-9 R-42	Liechtenstein		8/3/88		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9 R-42	Macedonia		8/3/88			LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Norway		22/6/99		137135	LWT	Rec'd Assignment papers 26/6/96
COLLAGE	R-9	Poland		16/3/98		63833	LWT	Rec'd Assignment papers 26/6/96
COLLAGE	R-9 R-42	Portugal		8/3/88		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96



Trade Name, Logo and Product Trademark Registrations

COLLAGE	R-9 R-42	Russian Fed.	8/3/98	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Saudi Arabia		12/9/97		185-31	LWT	Rec'd Assignment papers 20/8/96
COLLAGE	R-9 R-42	Slovakia	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9 R-42	Slovenia	8/3/88	8/3/2008			LWT	Covered by the International Registration.
COLLAGE	R-9	South Africa	21/12/98		3/3/99	1976-88	LWT	Assignment papers received 20/8/96 Formal recordal of the South African registration of this mark into the name of Madge Networks NV. Assignment certificate rec'd & filed 3/3/99.
COLLAGE	R-9 R-42	Spain	8/3/88	8/3/2008			LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Sweden		9/3/2000		216-142	LWT	Rec'd Assignment papers 20/8/96
COLLAGE	R-9	Switzerland	8/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96
COLLAGE	R-9	Switzerland					LWT	
COLLAGE	R-9	Switzerland					LWT	
COLLAGE	R-9	Thailand					LWT	
COLLAGE	R-9	Turkey					LWT	
COLLAGE	TM19	USA					MT	
COLLAGE	R-9	Yugoslavia	9/3/88	8/3/2008		521553	LWT	Covered by the International Registration. Assignment papers received 20/8/96

Patents held by Madge Networks Ltd				
Case no	Madge title	Description	Product Detail	Status
<b>i) New Co Reques:-</b>				
<b>"Pure TR"</b>				
11	Full Duplex Token Ring	Method of determining whether full duplex operation can be initiated when a new end station inserts into a ring. Hub initiates FDIR if it finds the new end station is the only one on the ring.	Ringswitch Desktop PCI4, 3140V2 Cardbus	Granted FR, GER, DK; Application EP, US reg term 09/00; JP term 07/02; CAN term 09/02
24	Auto Speed Detect	TR adapter sw & hw which automatically senses ring speed and configures card to connect speed, without causing ring to crash. Allows for simultaneous other insertion without locking out ring by erroneously reading other insertion speed as ring speed.	PCI4 3140V2 Cardbus	Granted US; Application EP
<b>Bridges and Switches</b>				
15	RingSwitch - s.a. 0046	Bridge using cut-through to speed up routing.	Ringswitch	Granted US; Application EP
16	RingSwitch Bridge	Divisinal from 0015:US	Ringswitch	Application US
58	Flow Control	Traffic thru switch is monitored. At a preset level a congestion signal to adjacent switches/end stations makes them store low priority frames until congestion eases before sending them to the congested switch. High priority traffic is not interrupted.	Ringswitch	Applications US & EP
<b>Interface cards</b>				
20	PCI Adaptor Card	PCI adapter card (Krossos) which features on-chip processor to perform network management and to schedule data transfer without needing on-board ROM and using minimal on-chip RAM.	PCI4 3140V2 Cardbus	Granted US; Application EP
38	Autoswitching PCI Card	PCI adapter card power supply circuit design which switches automatically between a number of possible available power sources, incorporating various features to make it surge-proof in the event of inadvertent power up or down.	PCI4	Application US

Patents held by Madge Networks Ltd				
Case no	Madge title	Description	Product Detail	Status
75	Dual Bracket/Adapter Card Assembly	A dual bracket method for a single PC Adapter Card to fit both standard and low-profile PCs	PCI4 3140V2	GB Application
43	Lagonda Double Interface	NIC with multiple channels connecting to network and to input devices eg phone, keyboard, so that separate and station signals eg voice/data can be/x simultaneously, and with different formats.	DeskStream ATM Ringswitch ATM	All applications terminated 04/02
<b>EMI Hardware</b>				
44	Common Mode Choke (see also 0012)	Termination for UTP cables incorporating the choke of 0012 shield host PC from EMI generated by the UTP cable.	Not Known	Granted US
<b>Misc</b>				
7	Impedance Matching	Process to allow hub to equaise its operating impedance to the impedance of the cable attached. Permits automatic operation with STP or UTP cable.	HUBS	Granted US
<b>Network management</b>				
35	Active Broadcast Control	Filter, compares different routes taken by Broadcast search frame to reach it, passing only those meeting a route efficiency criterion. Applies different pass/fail criteria to frames from different sources. Unit is passive, does not modify frames in any way.	DeskStream Ringswitch	Granted US; Application EP
45	Traffic Filter	Method of parsing 3rd layer of frame header to identify specific video channel and accept/reject accordingly, thus saving host CPU time and making filtering process faster.	PCI4 3140V2 Cardbus	All applications have been terminated
60	Modified Spanning Tree Protocol	Modts to STP allow multi-port switches to be stacked on a common internal high bandwidth bus without ports to that bus being disabled by operation of the STP as could occur with standard STP.	DeskStream	Application EP & UK
62	SR Plus	Flowing protocol to handle TR, Ethernet and other frames within a network 'cloud', splitting frames up and sending different parts by different routes to maximise usage of available network links and increase transmission speed through the cloud	Ringswitch	Granted GB; International Patent Application terminated 03/01/01

Patents held by Madge Networks Ltd				
Case no	Madge title	Description	Product Detail Madge Entity Registering Patent	Status
ii) Rest of patents held:-				
<b>"Pure TR"</b>				
1	Token Ring Expander/Hub	Basic operation of Madge Local Ringhub.	MNL	All applications & registrations terminated as at 01/03
2	Token Ring System Hierarchy (US cont. in part of 1)	Continuation of 0001.	MNL	All applications & registrations terminated as at 05/02
14	RingRunner with Multiple Frames	TR port which monitors token-holding time to see if possible to send another frame before time window closes, without need to build queue of waiting-to-be-sent frames.	MNL	Granted US
<b>Bridges and Switches</b>				
15	ATM Switch	Switch uses cut-through to maximise throughput rate and minimise usage of shared on-board memory.	MNL	11/02 - Instructed GJE to abandon 2nd part of US application. US reg cancelled 01/03
<b>Interface cards</b>				
6	Data Alignment	Data alignment hardware, permits PIO and DMA access to transfer data to/from a NIC.	MNL	Granted US, JP application term 09/02, CA application term 10/02 plus DE, FR, GB registrations term.
9	Virtual Protected Mode Processor	FDDI card processor accessing DOS memory extenders to give FDDI card very high speed access to the DMA controller on the motherboard.	MNL	Granted CAN, FR, GER, UK & US, JP application term 09/02.

Patents held by Madge Networks Ltd			
Case no	Madge title	Description	Status
4	Intelligent Hub	Hardware monitoring technique to speed up isolation of faults in the hub	All applications & registrations terminated as at 10/02
5	Intelligent Fault Analysis	Method of identifying fault location by isolation of end station most likely to be faulty (one which was last faulty), and isolation of groups of end stations, using information from adjacent stations.	Granted US; all other pending application term 10/02 due to cost
10	Jitter Test Set	Device to measure network jitter tolerance by injecting known jitter into an operational network and monitoring results.	Granted US
<b>EMI Hardware</b>			
12	EMI Isolator (see also 0344)	Technique to minimise RF emissions for kit with two wire differential I/O, eg ethernet or TR NICs, hubs etc.	Granted US; pending applications in EP, CAN & JP term 05/02 as technology no longer in use.
<b>Misc</b>			
8	Port Doubler	Hub with 8-pin connectors using usually redundant 4 pins to provide second connection, allowing 2 TR end stations to be connected to a single hub port.	Granted US
<b>Clocks</b>			
18	Adaptive Clocking	Clock synchronisation across an ATM network.	Granted US
19	AAR Engine	Processor located in an ATM switch to regulate network traffic by altering the bandwidth allocation for each source depending on the extent of port usage. A RM cell is modified and sent back to the source, allowing the source to modify its send rate.	Granted US; 2nd part of US application term 09/02 and EP application term 10/02

Patents held by Madge Networks Ltd				
Case no	Madge title	Description	Product Detail	Status
21	Clock Propagation	Use of the average arrival time of data blocks sent in normal operation across the asynchronous bus in a PC to generate a long term continuous clock signal for maintaining long term high level synchronisation of telephony equipment linked by an asynchronous bus, without the need for a separate, synchronous, link.	MNL	Application in US; UK reg term 10/02.
22	Card Edges Clock Propagation	Development of 0321, using clock signal of 1st item to generate clock signal in 2nd item, and then keep the two signals synchronised. The 1st and 2nd items are linked by an asynchronous bus.	MNL	All applications & registrations terminated as at 10/02
<b>Network management</b>				
40	Abstract BUS	Interface, control system, to make voice/video/data calls over multiple networks, having different protocols. Controller finds a route which goes to the destination, so frames do not need destination address (which the different protocols couldn't handle).	MNL	Application US; EP application term 05/02.
93	Inter-domain Spanning Tree	Transitional bridge running standard STP but at high level, on interconnected network domains, each domain using only one routing type within that domain, eg source routing or transparent bridging or SRT, etc. Allows ethernet and TR to talk seamlessly.	MNL	Applications UK & US
<b>Video</b>				
37	RSVP	Use of RSVP to obtain a desired Quality of Service without the conventional need for a direct interface between the RSVP signalling module and the RSVP controller.	MNL	All applications term 07/02
56	LAN Video Gateway	LVG auto attendant, to give real time info and access service options to video callers. Also audio-only services, and conversion between video/audiodata protocols and formats.	MNL	All applications terminated as of 10/02
67	Universal PC-Video Interface	Sw, h/w to capture in real time a PC screen image and feed as video signal into video call. Permits video document camera-type Tx of ANY PC screen eg allows Powerpoint presentation, spreadsheet, etc to be sent as video image direct from the PC.	MNL	All applications terminated as of 10/02

Patents held by Madge Networks Ltd				
Case no	Madge title	Description	Product Detail	Status
69 OLICOM	Olicom 7 - Concurrent STP		Assigned to MNL from Olicom	US application abandoned in 2000 as technology is incorporated in MC0070
70	Olicom 7 - Multiple STP Bridge	Modification to a bridge CRF to allow it to handle classical source routing and/or transparent bridging. This case is priority filing for MC 0070.	Assigned to MNL from Olicom	US application term 25/06/02
71	Olicom 16	Data frame transfer method receiving a source routed data frame at a switch and selecting a virtual channel through a core network based on information in the data frame	Assigned to MNL from Olicom	US application term 16/01/02
72	Olicom 21	Auto-regulation process for different media topologies e.g. Ethernet and TR, in a network allowing switch ports to automatically detect the type of attached device.	Assigned to MNL from Olicom	Application US
73	Olicom 19	A Reboot Downloaded Devices operation which instructs devices that have downloaded software to reboot in order to make the download take effect	Assigned to MNL from Olicom	US application term 17/06/02
74	Olicom 20	Method of letting devices with specific software versions enter Remote Program Load mode	Assigned to MNL from Olicom	US Application abandoned Nov 2001

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RECORDED: 09/30/2004