

## Monthly Report January 1996

### ACTIVITY REPORT

#### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during January, with several major outages outside prime-time. There was an extended problem with X.25, continuing from December.

The following operational activities are noted:

- TELNET access to the public DUA was removed at the end of the month. Anyone trying to use the DUA via TELNET is instead presented with a message telling them to use an alternative national service. The intention to shutdown the DUA was announced in the monthly report for October.
- At DANTE's request, helpdesk staff participated in a two-day EuroSInet workshop to create an X.500(93) test suite, with a view towards using it during the proposed NameFLOW-Paradise test week in February.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

#### 2. OUTAGES

Sun January 7 19:06 - Mon January 8 09:41 (14hrs 35mins)

DSA Ocellated Turkey unavailable, stuck Quipu process followed by stuck TCP port; intervention required to free the port and restart the DSA

Mon January 8 14:16 - 15:08 (52mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Thu January 11 02:04 - 03:20 (1hr 16mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Tue January 16 08:00 - 10:00 (2hrs)

All services "at risk", scheduled downtime; routers etc being moved to an uninterruptable power supply

Tue January 16 20:07 - 21:18 (1hr 11mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Thu January 18 08:42 - 10:11 (1hr 29mins)

DSA Ocellated Turkey disrupted, swap-space full; reboot required

Fri January 19 13:43 - 14:41 (58mins)

DSA Ocellated Turkey unavailable, stuck Quipu process followed by stuck TCP port; reboot required

Sun January 21 01:17 - 03:36 (2hrs 19mins)

DSA Ocellated Turkey unavailable, stuck Quipu process; automatically restarted

Mon January 22 03:23 - 03:54 (31mins)

DSA Ocellated Turkey unavailable, stuck TCP port; automatically restarted

Mon January 22 21:06 - Tue January 23 01:01 (3hrs 55mins)

DSA Ocellated Turkey unavailable, stuck Quipu process; automatically restarted, eventually

Tue January 23 22:32 - 23:50 (1hr 18mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Wed January 24 12:54 - 14:05 (1hr 11mins)

DSA Ocellated Turkey unavailable, stuck Quipu process; automatically restarted

Wed January 24 15:36 - 16:34 (58mins)

DSA Ocellated Turkey unavailable, stuck TCP port; automatically restarted

Sun January 28 01:37 - 22:34 (20hrs 51mins)

DSA Ocellated Turkey unavailable, unkillable Quipu process; reboot required

There was an ongoing X.25 problem from December, with a port on the switch to which Ocellated Turkey's machine connects. This port got stuck, resulting in there being no incoming access to, or outgoing access from, Ocellated Turkey via public X.25 or EuropaNET X.25. This outage lasted from mid-December until 14:20 on Tuesday January 9th. Access to the public DUA over these networks was also prevented, and this is reflected in the EuropaNET/PSS usage statistics (appendix 3).

### 3. ISSUES

Although TELNET access to the public DUA was disabled, X.29 PAD access and ULCC dialup access were retained for the short term, pending a decision concerning what should be done about them. The DSA Ocellated Turkey supports the DUA and the public LDAP server, as well as being the master DSA for l=Europe. Each of these functions must be discontinued or redirected before the DSA itself can be shutdown, in preparation for the planned transfer of the Giant Tortoise DSA onto this hardware.

The issues of the accessibility of the FLDSAs cn=Pelican (c=IN) and cn=Saki (c=EE), and of the uncommunicativeness of their respective managers, remain outstanding.

### 4. STATISTICS

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- [helpdesk/tickets.Jan96](#)
- [DSA/stats.Giant-Tortoise.Jan96](#)
- [ldap/usage.Jan96](#)
- [DUA/usage.Jan96](#)
- [ftp/xferstats.Jan96](#)
- [gopher/usage.Jan96](#)
- [mail/usage.Jan96](#)
- [web/usage-9601.html](#)
- [DSA/operations/ops-hourly.Giant-Tortoise.Jan96](#)
- [DSA/operations/ops-summary.Giant-Tortoise.Jan96](#)

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher/mail info-server summary statistics for this month.](#)

## APPENDIX 1 - Helpdesk ticket list for January 1996

NameFLOW-Paradise Helpdesk queries for : January 1996

Reference	Status	Keywords
960103.01	done	US Help with finding email addresses in CA
960104.01	done	US Help with finding email addresses in JP
960108.01	done	CN Help with installation of ldapd/Wlu on ISODE 8.0
960108.02	done	GB Request for TELNET address of GB public DUA
960109.01	done	GB Help with an incorrect email address in GB
960111.01	done	ES Request change of c=ES entry & mailing list change
960118.01	done	NL RFI about support for ISODE 8.0 under AIX
960122.01	done	RU "Help"
960122.02	done	GB Request PARADISE document index
960123.01	done	GB Request change of mailing list membership
960123.02	done	GB RFI about NameFLOW-Paradise
960123.03	done	US Help with finding an email address in US
960126.01	done	NL Check on status of NATO DSA
960126.02	done	RU RFI about Internet information sources
960129.01	done	RU Request PARADISE document
960129.02	done	RU Request PARADISE/NameFLOW-Paradise documents
960129.03	done	GB Help with public DUA accessing non-GB data
960129.04	done	US Help with an incorrect email address in US
960131.01	done	BE "Help"

Notes

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RFI is an abbreviation for "Request for information".

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## APPENDIX 2 - World Root DSA and LDAP summary statistics for January 1996

### Summary of calls to DSA Giant Tortoise

From 5:36:11 on 31 dec to 5:32:33 on 31 jan

No. of binds	local	remote
Anonymous	0	14
Unauth name DAP	3670	4862
Unauth name DSP	0	4449
Simple	132	1402
Protected	0	0
No. of operations		
Reads	568	1740
Compares	0	236
Lists	0	176
Searches	14	51316
Modifies	0	6
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 61278 slices)

System usage (calls received)

Binds by Directory technicians	10318
Reads of DSA entries	161
Other ops on DSA entries	18
Getedb operations	0 ( + 61278 slices)
Spot shadows	35

### LDAP usage

LDAP usage from Jan 12 1996 to Jan 24 1996

Connections: 242  
Total connect time: 141306 seconds (39 hrs 15 mins 6 secs)

Connections by domain

Domain	Connections
uk	237
unresolved	5
Total	242

## APPENDIX 3 - Public DUA/Telnet summary statistics for January 1996

### DUA usage

Calls to the Directory Service - January 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Calls marked as de under PSS are for access from the ULCC dial-up service.

	JANET	EuropaNet	PSS	Internet	Total
dua	113	3*	11*	10687	10814
de	0	0	17	122	139
testdua	0	0	0	5	5
					10958

(\* figures affected by the X.25 problem mentioned in Outages)

### TELNET connections

Telnet connections and DUA logins from Jan 1 1996 to Jan 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 25156 Logins: 10814

Top ten connections by domain

Domain	Connections
edu	12942
unresolved	3940
uk	1789
com	1393
net	1124

Top ten DUA logins by domain

Domain	Logins
edu	5397
uk	1277
unresolved	1017
com	665
net	498

ca	986	ca	386
us	434	us	241
org	255	org	142
nl	213	nl	129
de	210	de	124
-----	-----	-----	-----
Total	23286	Total	9876

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## APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for January 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Mon Jan 1 1996 TO Wed Jan 31 1996

Files Transmitted During Summary Period	1221
Bytes Transmitted During Summary Period	128756524
Systems Using Archives	0
Average Files Transmitted Daily	39
Average Bytes Transmitted Daily	4153436

### Gopher server

Gopher usage from Mon Jan 1 1996 to Mon Jan 29 1996

Total connections:	23
Total files retrieved:	27

### Mail server

Mail-server usage from Jan 2 1996 to Jan 29 1996

Copies of help sent:	9
Total files retrieved:	5
-----	-----
Total requests:	14

## Monthly Report February 1996

### ACTIVITY REPORT

#### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during February, with one major outage during prime-time, and two major outages outside prime-time.

The following operational activities are noted:

- The primary activity in February was the continued reorganisation of the NameFLOW-Paradise services, consolidating them onto one host computer. The masterDSA of l=Europe was changed from Ocellated Turkey to Inca Dove; the future of l=Europe is under wider consideration. ULCC dialup access to the DUA was redirected to UKERNA services; X.29 access was disabled, with a message suggesting use of alternative national services.
- Having offloaded Ocellated Turkey, the DSA was closed down, and its entry removed from the Directory. This left the machine (fortnum) free of services, so the opportunity was taken to move it to a different IP subnet, as had long been the intention: see Issues from the September 1995 report.
- The Internet FTP and Gopher servers were moved from mason to fortnum, as was the DSA Giant Tortoise. The existing servers and DSA were left running in parallel for a period to allow time for the new addresses to propagate through the DNS and the Directory.
- FLDSA managers were informed of the changed DSA address, since they need to manually update out-of-band references to Giant Tortoise, such as the quiptailor "parent" parameter. Administrators at GARR in Italy, which holds a mirror copy of a portion of the FTP data, were informed so that they could amend their shadowing procedure -- it was using the IP address rather than the DNS name of the server.
- All DSAs which have access to Giant Tortoise, primarily FLDSAs, were checked to ensure that they had received a root EDB update prior to the original Giant Tortoise being closed down. This happened mostly automatically, but certain managers were contacted to remind them about this, in cases where their DSA was either uncontactable or appeared not to be replicating. Some FLDSAs are likely not to have the new address for Giant Tortoise -- the situation will be monitored.
- The public-access LDAP daemon was upgraded from Nexor v3.1 to v3.2 from the University of Michigan. Since the remaining DSA, Giant Tortoise, is not intended to resolve user queries, the LDAPD is actually supported by DSAs belonging to UKERNA -- see Issues.
- After much discussion, the FLDSA for NATO was renamed from cn=Manfred Woerner to cn=NATO.dsa. The organisation entry was renamed to o=NATO from the full-form o=North Atlantic Treaty Organisation. The change to the internal NATO DIT, mentioned in December 1995 Issues, was reversed, so that subordinate entries are organizationalUnits again.
- Helpdesk staff participated in the NameFLOW-Paradise X.500(93) pilot testing week, concentrating on DISP replication of the root context.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

## **2. OUTAGES**

Fri February 2 14:00 - 14:41 (41mins)

DSA Giant Tortoise unavailable, stuck Quipu process followed by stuck TCP port; intervention required to free the port and restart the DSA

Wed February 7 14:14 - 14:52 (38mins)

DSA Giant Tortoise unavailable, crashed process; manually restarted

Thu February 8 14:29 - 14:59 (30mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Sat February 10 14:14 - 15:30 (1hr 16mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Wed February 14 14:10 - 14:53 (43mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Fri February 16 15:02 - 15:46 (44mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Sat February 17 14:49 - 18:55 (3hrs 56mins)

All services unavailable, power failure at ULCC; machines brought up by on-call staff

Thu February 22 14:49 - 16:02 (1hr 13mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

## **3. ISSUES**

After the reorganisation of services, the Sun 4/330 machine is left running only mail software, supporting the info-server and the NameFLOW-Paradise mailing lists. As agreed with DANTE, the info-server will be shut down, but the lists cannot be moved without cooperation from other staff at ULCC; it is hoped that the move can be completed, and this machine finally shut down, early in March.

As mentioned elsewhere, the LDAP daemon is being supported by UKERNA DSAs, and is being used primarily by DANTE's web gateway. It is felt that this situation should not continue without explicit authorisation from UKERNA.

## **4. STATISTICS**

While the Giant Tortoise DSA was being moved, there was a change-over period during which there were two instances of the DSA running, on separate hosts. The DSA statistics in appendix 2 are the sum of the figures from both DSAs. The drop in the number of operations (searches etc) is due to the withdrawal of the public DUA, which used Giant Tortoise as a backup to Ocellated Turkey.



The huge increase in the number of LDAP connections happened because the LDAP daemon was upgraded, and is now being used to support DANTE's WWW/X.500 gateway. The previous version of the daemon could not interwork with the gateway, and so was not much used.

Access to the DUA via Internet was withdrawn at the end of January, and via dial-up and X.29 during February. The "DUA usage" figures in appendix 3 therefore mostly reflect attempted rather than actual use, and can be expected to continue to decline in future reports as people learn about and use the national access points.

The drop-off in FTP use is due to a change made at GARR in Italy, which mirrors part of the FTP directory daily. Originally the mirroring was performed simply by retrieving every file. Since early February, a proper mirroring tool is used, which retrieves only new or changed files.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Feb96>
- <DSA/stats.Giant-Tortoise.Feb96>
- <ldap/usage.Feb96>
- <DUA/usage.Feb96>
- <ftp/xferstats.Feb96>
- <gopher/usage.Feb96>
- <mail/usage.Feb96>
- <web/usage-9602.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Feb96>
- <DSA/operations/ops-summary.Giant-Tortoise.Feb96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
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4. [FTP/Gopher/mail info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for February 1996

NameFLOW-Paradise Helpdesk queries for : February 1996

Reference	Status	Keywords
960201.01	done	NL Request to change name of FLDSA for o=NATO

960201.02	done	RU Request PARADISE document
960202.01	done	IE Help with defining Object Class & with replication
960205.01	done	IN "Help"
960205.02	done	RU "Help"
960205.03	done	NL Request change of top-level organisation entry from o=North Atlantic... to o=NATO
960205.04	done	GB Help with alternative public-access DUAs
960205.05	done	US Help with finding an e-mail address in US
960206.01	done	CA Help with configuring Quipu database
960207.01	done	US RFI about access of YU countries to orbital space
960207.02	done	GB Help with finding an e-mail address in DE
960207.03	done	AR Help with changing FLDSA presentationAddress
960207.04	done	US Help with finding e-mail addresses in US
960208.01	done	US Help with finding an e-mail address in US
960210.01	done	US RFI about universities in US
960210.02	done	TH Help with finding an e-mail address in GB
960210.03	done	US Help with finding an e-mail address in US
960213.01	done	CH Request check and change of address on mailing lists
960214.01	done	US Help with access to public DUAs
960221.01	pend	GB Request PARADISE report
960222.01	done	IE "Help"
960223.01	done	IN Help with installing ISODE 8.0 under Solaris 2.4
960224.01	done	US RFI about NameFLOW-Paradise
960226.01	done	GB Request status of Concurrent Computer Corp in DIT
960227.01	pend	IE Request deletion of IE slave FLDSA cn=Corncrake
960227.02	done	GB Help with access to NameFLOW-Paradise
960228.01	done	US RFI about Internet "yellow pages" services

## Notes

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960221.01 : awaiting confirmation, in case report can be obtained locally.  
 960227.01 : awaiting clarification of status of l=Europe@o=EUnet.

RFI is an abbreviation for "Request for information".

## APPENDIX 2 - World Root DSA and LDAP summary statistics for February 1996

### Summary of calls to DSA Giant Tortoise

From 5:45:07 on 31 jan to 5:20:20 on 29 feb

No. of binds	local	remote
Anonymous	0	14
Unauth name DAP	3249	3504
Unauth name DSP	0	4043
Simple	193	1388
Protected	0	0

No. of operations		
Reads	567	266
Compares	0	247
Lists	0	12
Searches	13	1396
Modifies	0	10
ModifyRDNs	0	0
Adds	0	7
GetEDBs		0 ( + 48915 slices)

System usage (calls received)

Binds by Directory technicians	8423
Reads of DSA entries	220
Other ops on DSA entries	21
Getedb operations	0 ( + 48915 slices)
Spot shadows	100

### LDAP usage

LDAP usage from Feb 2 1996 to Feb 29 1996

Connections:	1299
Total connect time:	70845 seconds (19 hrs 40 mins 45 secs)

Connections by domain

Domain	Connections
uk	1275
unresolved	19
net	5
Total	1299

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## APPENDIX 3 - Public DUA/Telnet summary statistics for February 1996

### DUA usage

Calls to the Directory Service - February 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Calls marked as de under PSS are for access from the ULCC dial-up service.

JANET	EuropaNet	PSS	Internet	Total
-----	-----	---	-----	-----

dua	133	0	16	8643	8792
de	0	0	1	114	115
testdua	0	0	0	7	7
					-----
					8914
					-----

## TELNET connections

Telnet connections and DUA logins from Feb 1 1996 to Feb 29 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 24982 Logins: 8764

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections	Domain	Logins
-----	-----	-----	-----
edu	13896	edu	4854
unresolved	4444	unresolved	953
uk	1355	uk	848
com	1287	com	486
net	980	net	321
ca	633	ca	206
us	478	us	185
org	178	de	87
de	150	nl	81
nl	143	org	73
-----	-----	-----	-----
Total	23544	Total	8094

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## APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for February 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Thu Feb 1 1996 TO Thu Feb 29 1996

Files Transmitted During Summary Period	362
Bytes Transmitted During Summary Period	53402169
Systems Using Archives	0
Average Files Transmitted Daily	16
Average Bytes Transmitted Daily	2427371

**Gopher server**

Gopher usage from Thu Feb 1 1996 to Tue Feb 27 1996

Total connections: 24  
Total files retrieved: 14

**Mail server**

Mail-server usage from Feb 5 1996 to Feb 26 1996

Copies of help sent: 5  
Total files retrieved: 4  
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Total requests: 9

## **Monthly Report March 1996**

### **ACTIVITY REPORT**

#### **1. OPERATIONS/HELPDESK**

The NameFLOW-Paradise Directory services ran satisfactorily during March, with one major outage outside prime-time.

The following operational activities are noted:

- The reorganisation of services continued from last month: the mailing lists were moved to another machine, and the mail info-server was withdrawn. The parallel read-only copy of the DSA Giant Tortoise, which was left running to allow the new DSA address to propagate through the Directory, was shut down. Finally, the Sun 4/330 was powered-off.
- As a result of a helpdesk query, it was discovered that the "home" Gopher server at the University of Minnesota had a TELNET menu option pointing at the recently withdrawn public-access DUA. The Gopher team at UMN were asked to change this to the US public-access DUA at ds.internic.net.
- At the request of the managers for c=IE and EUnet Ireland, the FLDSA cn=Corncrake was removed. This required changing the masterDSA of l=Europe@o=EUnet, which had been cn=Corncrake; this is now mastered by a DSA belonging to EUnet Germany.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

#### **2. OUTAGES**

Tue March 5 20:07 - 21:22 (1hr 15mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Wed March 27 11:00 - 11:55 (55mins)

UKERNA DSAs supporting LDAP server inaccessible, IP router problem; router reloaded; this outage will have hit DANTE's WWW/X.500 gateway

#### **3. ISSUES**

With the removal from service of the Sun 4/330 machine, there are now no DSA probes running at ULCC, since the probe software was licensed to that hardware. If central probes are still required -- they are considered useful -- then this situation needs to be addressed, perhaps in consultation with UKERNA.

#### **4. STATISTICS**

Statistics for the mail info-server are no longer produced, since the server was withdrawn at the start of the month. Requests to the mail server are instead directed to the helpdesk, and will be logged as helpdesk queries.

As with last month, the DSA statistics are the sum of the figures from both copies of Giant Tortoise, although parallel running lasted only a couple of days.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Mar96>
- <DSA/stats.Giant-Tortoise.Mar96>
- <ldap/usage.Mar96>
- <DUA/usage.Mar96>
- <ftp/xferstats.Mar96>
- <gopher/usage.Mar96>
- <web/usage-9603.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Mar96>
- <DSA/operations/ops-summary.Giant-Tortoise.Mar96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for March 1996

NameFLOW-Paradise Helpdesk queries for : March 1996

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Reference      Status  Keywords  
-----  
960301.01     done    FI Request change of e-mail address on mailing lists  
960302.01     done    IR Help with finding e-mail addresses of governments  
960306.01     done    IN Help with finding documentation on 'de' DUA  
960308.01     done    CN RFI about new rootDSA address & FLDSA requirements  
960310.01     done    SE RFI about NameFLOW-Paradise  
960311.01     done    DE Request to change masterDSA for l=Europe@o=EUnet  
960311.02     done    GB Request PARADISE/NameFLOW-Paradise reports  
960312.01     done    CN Help with Quipu configuration & creating objectClass
```

960312.02	done	US Help with finding an e-mail address in GB
960318.01	done	BE RFI about NameFLOW-Paradise
960321.01	done	US Help with connecting to a public-access DUA
960322.01	done	GB RFI about NameFLOW-Paradise
960326.01	done	IN Help with building LDAP 3.2 under MS-DOS
960326.02	done	US Help with finding an e-mail address in US
960326.03	done	US Help with use of public-access DUAs
960326.04	done	US Help with finding an e-mail address in US
960328.01	done	US Help with using alternative public-access DUAs
960328.02	done	US Help with finding e-mail addresses
960328.03	done	US Help with finding an e-mail address in US/CR

## Notes

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960311.01 : this enables completion of pending ticket 960227.01.  
 960311.02 : this completes pending ticket 960221.01.

RFI is an abbreviation for "Request for information".

## APPENDIX 2 - World Root DSA and LDAP summary statistics for March 1996

### Summary of calls to DSA Giant Tortoise

From 0:07:25 on 29 feb to 0:04:55 on 31 mar

No. of binds	local	remote
Anonymous	0	17
Unauth name DAP	249	967
Unauth name DSP	0	4194
Simple	13	1433
Protected	0	0

  

No. of operations	local	remote
Reads	139	130
Compares	0	16
Lists	0	15
Searches	2	780
Modifies	0	4
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 49502 slices)

### System usage (calls received)

Binds by Directory technicians	2479
Reads of DSA entries	111
Other ops on DSA entries	8



Getedb operations 0 ( + 49502 slices)  
Spot shadows 7

## LDAP usage

LDAP usage from Mar 1 1996 to Mar 31 1996

Connections: 3175  
Total connect time: 61864 seconds (17 hrs 11 mins 4 secs)

Connections by domain

Domain	Connections
uk	3173
unresolved	2
Total	3175

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## APPENDIX 3 - Public DUA/Telnet summary statistics for March 1996

### Attempted DUA usage

Calls to the Directory Service - March 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	26	3	3	7530	7562
de	-	-	-	120	120
testdua	-	-	-	5	5
					7687

### TELNET connections

Telnet connections and DUA logins from Mar 1 1996 to Mar 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 19296 Logins: 7655

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections
-----	-----
edu	10017
unresolved	3490
com	1211
uk	977
net	934
ca	493
us	468
org	201
gov	145
nl	144
-----	-----
Total	18080

Domain	Logins
-----	-----
edu	4152
unresolved	885
uk	558
com	461
net	339
us	249
ca	195
org	107
nl	89
dz	65
-----	-----
Total	7100

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for March 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Fri Mar 1 1996 TO Sat Mar 30 1996

Files Transmitted During Summary Period	115
Bytes Transmitted During Summary Period	21426856
Systems Using Archives	0
Average Files Transmitted Daily	4
Average Bytes Transmitted Daily	824110

### Gopher server

Gopher usage from Fri Mar 1 1996 to Sun Mar 31 1996

Total connections:	32
Total files retrieved:	18

## **Monthly Report April 1996**

### **ACTIVITY REPORT**

#### **1. OPERATIONS/HELPDESK**

The NameFLOW-Paradise Directory services ran satisfactorily during April, with one major outage during prime-time and another outside prime-time.

There were no significant operational changes this month.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

#### **2. OUTAGES**

Thu April 11 08:46 - 10:02 (1hr 16mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Sun April 21 22:20 - Mon April 22 09:05 (10hrs 45mins)

UKERNA DSAs supporting LDAP server inaccessible, IP router problem; router reloaded; this outage will have hit DANTE's WWW/X.500 gateway

#### **3. ISSUES**

There are ways around the problem caused by the unavailability of an IP router between the LDAP server and the UKERNA DSAs which support it (see Outages). However, the router in question is also the path to the wider Internet for the UKERNA machines, so if it crashes, access to organisational data will be severely limited. It is possible that in future the machines will be configured to run 'gated', to be able to take advantage of alternative routes.

The new disk for the SPARC-10 machine was delivered to ULCC at the end of April. Despite some misleading documentation from Sun, this should enable mirroring of software from SURFnet, and a rearrangement of log files etc.

#### **4. STATISTICS**

This month sees a further sharp decline in attempted use of the withdrawn public-access DUA. It is assumed that this results from the change to the "home" Gopher menu at the University of Minnesota mentioned in the report for March.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly

operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Apr96>
- <DSA/stats.Giant-Tortoise.Apr96>
- <ldap/usage.Apr96>
- <DUA/usage.Apr96>
- <ftp/xferstats.Apr96>
- <gopher/usage.Apr96>
- <web/usage-9604.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Apr96>
- <DSA/operations/ops-summary.Giant-Tortoise.Apr96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for April 1996

NameFLOW-Paradise Helpdesk queries for : April 1996

Reference	Status	Keywords
960401.01	done	AU RFI about NameFLOW-Paradise & participation
960401.02	done	GB Help with access to public DUAs, (via EuroKom)
960401.03	done	US Help with finding e-mail addresses
960403.01	done	GB Help with finding an e-mail address in AT
960403.02	done	GB Info-server help request
960411.01	done	DE RFI about NameFLOW-Paradise
960411.02	done	US Help with TELNET
960415.01	done	FI Request to be added to FORUM mailing list
960415.02	done	FI RFI about storing URLs in the Directory
960415.03	done	US Help with obtaining ISODE 8.0
960416.01	done	NL Request removal of name from FORUM mailing list
960416.02	done	US Help with access to public DUAs
960418.01	done	SE Help with access to public DUAs

960423.01	done	US Request for e-mail address of US country manager
960423.02	done	RU Info-server help request
960430.01	done	ID Info-server help request

Notes

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RFI is an abbreviation for "Request for information".

## APPENDIX 2 - World Root DSA and LDAP summary statistics for April 1996

### Summary of calls to DSA Giant Tortoise

From 0:05:12 on 31 mar to 0:04:29 on 30 apr

No. of binds	local	remote
Anonymous	0	4
Unauth name DAP	0	673
Unauth name DSP	0	4319
Simple	197	1046
Protected	0	0

  

No. of operations	local	remote
Reads	5	45
Compares	0	0
Lists	0	17
Searches	0	103
Modifies	0	2
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 46151 slices)

System usage (calls received)

Binds by Directory technicians	1837
Reads of DSA entries	24
Other ops on DSA entries	0
Getedb operations	0 ( + 46151 slices)
Spot shadows	10

### LDAP usage

LDAP usage from Apr 1 1996 to Apr 30 1996

Connections: 5742  
Total connect time: 119961 seconds (33 hrs 19 mins 21 secs)

#### Connections by domain

Domain	Connections
uk	5739
unresolved	2
edu	1
Total	5742

---

## APPENDIX 3 - Public DUA/Telnet summary statistics for April 1996

### Attempted DUA usage

Calls to the Directory Service - April 1996

#### Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	0	0	9	2989	2998
de	-	-	-	62	62
testdua	-	-	-	2	2
					3062

### TELNET connections

Telnet connections and DUA logins from Apr 1 1996 to Apr 30 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 8697 Logins: 3053

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections	Domain	Logins
-----	-----	-----	-----
edu	3871	edu	1390
unresolved	2070	unresolved	437
uk	540	uk	302
com	479	com	183
net	367	net	139
us	161	nl	65
ca	137	us	63
au	111	ca	52
nl	109	org	42
dz	106	dz	41
-----	-----	-----	-----
Total	7951	Total	2714

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for April 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Mon Apr 1 1996 TO Sat Apr 27 1996

Files Transmitted During Summary Period	96
Bytes Transmitted During Summary Period	30527360
Systems Using Archives	0
Average Files Transmitted Daily	4
Average Bytes Transmitted Daily	1387607

### Gopher server

Gopher usage from Mon Apr 1 1996 to Mon Apr 29 1996

Total connections:	17
Total files retrieved:	2

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M5 Monthly Report May 1996

#### ACTIVITY REPORT

##### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during May, with one major outage during prime-time and four outside prime-time.

The following operational activities are noted:

- A problem with the FLDSA cn=Margay was pointed out to the managers for c=DE. The DSA's local copy of its own entry had lost the mandatory quipuVersion attribute, which prevented Giant Tortoise from shadowing the entry.
- The FTP server has been configured to mirror X.500-related software from a SURFnet server, as an interim measure prior to arranging mirror agreements directly with the relevant master servers. Mirroring from SURFnet had been agreed for quite some time, but implementation was postponed until more disk space became available, as mentioned in last month's Issues. Initial requests for mirroring have been sent to two sites, Bunyip and Groupe Bull, which are not mirrored by SURFnet.
- Helpdesk staff assisted DANTE in the preparation of the latest NameFLOW-Paradise publicity brochure.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

##### 2. OUTAGES

Wed May 1 14:01 - 14:49 (48mins)

DSA Giant Tortoise unavailable, stuck Quipu process; reboot required to clear

Fri May 3 06:47 - 10:17 (3hrs 30mins, estimated)

X.25 access to and from DSA Giant Tortoise unavailable, malfunctioning switch; switch power-cycled

Fri May 3 08:20 - 09:32 (1hr 12mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Sun May 5 02:15 - 03:18 (1hr 3mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Wed May 22 14:00 - 14:38 (38mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted



Wed May 22 23:40 - Thu May 23 08:08 (8hrs 28mins)

TCP/IP access to DSA Giant Tortoise and to FTP/Gopher/LDAP servers unavailable, malfunctioning router;  
router power-cycled

### 3. ISSUES

An office of the Ministry of Research and Technology in Indonesia (c=ID) has expressed an interest in joining the NameFLOW-Paradise Directory, and running the FLDSA for c=ID. However since they are not as yet running a DSA, there is no short-term operational involvement.

### 4. STATISTICS

Use of the LDAP server continues to increase dramatically. However it is expected that use will drop over the summer months due to the long academic vacation. All use attributed to the .uk domain is from a machine at DANTE, and is presumably due to the WWW/X.500 gateway.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.May96>
- <DSA/stats.Giant-Tortoise.May96>
- <ldap/usage.May96>
- <DUA/usage.May96>
- <ftp/xferstats.May96>
- <gopher/usage.May96>
- <web/usage-9605.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.May96>
- <DSA/operations/ops-summary.Giant-Tortoise.May96>

### 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
  2. [DSA/LDAP summary statistics for this month.](#)
  3. [DUA/Telnet summary statistics for this month.](#)
  4. [FTP/Gopher info-server summary statistics for this month.](#)
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NameFLOW-Paradise Helpdesk queries for : May 1996

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Reference	Status	Keywords
960501.01	done	ID Request PARADISE reports & RFI about participation
960503.01	done	US Help with finding an e-mail address in US
960504.01	done	AU RFI about WWW e-mail search engines for UK & Europe
960511.01	done	US Help with access to public DUA
960514.01	done	PT Help with connection to superior DSA
960518.01	done	IN Help with DOS-DE/LDAP timeout problem
960526.01	done	US Help with connection to superior DSA
960529.01	done	GB Request details of public-access LDAP servers

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Notes

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RFI is an abbreviation for "Request for information".

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## APPENDIX 2 - World Root DSA and LDAP summary statistics for May 1996

### Summary of calls to DSA Giant Tortoise

From 0:07:55 on 30 apr to 0:00:05 on 31 may

No. of binds	local	remote
Anonymous	0	20
Unauth name DAP	0	660
Unauth name DSP	0	4325
Simple	247	860
Protected	0	0
No. of operations		
Reads	17	43
Compares	0	0
Lists	2	17
Searches	6	295
Modifies	2	0
ModifyRDNs	0	0
Adds	0	5
GetEDBs		0 ( + 47517 slices)

### System usage (calls received)

Binds by Directory technicians	1646
Reads of DSA entries	34
Other ops on DSA entries	5

```

Getedb operations          0 ( + 47517 slices)
Spot shadows              13

```

## LDAP usage

LDAP usage from May 1 1996 to May 31 1996

```

Connections:              16763
Total connect time:      477470 seconds (132 hrs 37 mins 50 secs)

```

Connections by domain

Domain	Connections
-----	-----
uk	16760
com	2
edu	1
-----	-----
Total	16763

## APPENDIX 3 - Public DUA/Telnet summary statistics for May 1996

### Attempted DUA usage

Calls to the Directory Service - May 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
	-----	-----	---	-----	-----
dua	14	0	11	1772	1797
de	-	-	-	101	101
testdua	-	-	-	0	0
					-----
					1898
					-----

### TELNET connections

Telnet connections and DUA logins from May 1 1996 to May 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any

other user

Connections: 5405 Logins: 1873

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections
-----	-----
edu	1835
unresolved	1370
uk	562
net	304
com	300
dz	109
ca	103
us	97
au	93
nl	81
-----	-----
Total	4854

Domain	Logins
-----	-----
edu	523
uk	326
unresolved	310
com	132
net	119
dz	51
nl	41
us	38
au	38
de	32
-----	-----
Total	1610

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for May 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Wed May 1 1996 TO Fri May 31 1996

Files Transmitted During Summary Period	104
Bytes Transmitted During Summary Period	21997924
Systems Using Archives	0
Average Files Transmitted Daily	5
Average Bytes Transmitted Daily	1157785

### Gopher server

Gopher usage from Wed May 1 1996 to Fri May 31 1996

Total connections:	24
Total files retrieved:	35

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M6

### Monthly Report June 1996

## ACTIVITY REPORT

### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during June, with one major outage during prime-time and one outside prime-time.

The following operational activities are noted:

- A new country, Malaysia (c=MY), together with its FLDSA Rimau (Malay for tiger), is in the process of joining the Directory. The entry for cn=Rimau has been added to the top level of the DIT, but c=MY has not yet been added, as the connection to Rimau is affected by a low-level network problem. An IP router in Malaysia appears to be behaving strangely, and this is under investigation in MY.
- An FTP mirroring agreement was set up with a server in the USA belonging to Groupe Bull, which holds copies of draft ISO documents. A request to establish a mirror of whois++ software from Bunyip was refused, due to the imminent release of a new version of Digger; Bunyip wish to monitor downloads.
- A count was prepared of organisations and DSAs in the Directory Information Tree (DIT).

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

### 2. OUTAGES

Wed June 5 17:02 - 17:21 (19mins)

All services unavailable, power failure at ULCC; circuit breakers reset, power restored

Wed June 12 14:29 - 15:32 (1hr 3mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Sat June 22 22:05 - Sun June 23 08:09 (10hrs 4mins)

TCP/IP access to and from DSA Giant Tortoise, and to FTP/Gopher/LDAP servers, unavailable, malfunctioning IP router; router power-cycled

### 3. ISSUES

The University of Michigan released version 3.3 of LDAP at the end of April. Currently the central LDAPD is version 3.2. Possibly it is time to upgrade to the latest version.

## 4. STATISTICS

The LDAP statistics in appendix 1 are much lower than expected, due to a change in the configuration of DANTE's WWW/X.500 gateway. It was accidentally modified to use another LDAP server, for a period of 21 days. This is likely to skew the expected Summer fall-off in use mentioned in the May report.

The DSA statistics in appendix 2 are affected by the count of the DIT taken on 9th/10th June, producing an unusually large number of search operations.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Jun96>
- <DSA/stats.Giant-Tortoise.Jun96>
- <ldap/usage.Jun96>
- <DUA/usage.Jun96>
- <ftp/xferstats.Jun96>
- <gopher/usage.Jun96>
- <web/usage-9606.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Jun96>
- <DSA/operations/ops-summary.Giant-Tortoise.Jun96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for June 1996

NameFLOW-Paradise Helpdesk queries for : June 1996

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Reference	Status	Keywords
960604.01	pend	MY Request to coordinate addition of c=MY/cn=Rimau
960604.02	done	NL Help with Internet-accessible GB phone directories

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960605.01	pend	MY Request to confirm c=MY is accessible via cn=Rimau
960607.01	done	ID RFI about sources of X.500 software
960628.01	done	GB RFI about NameFLOW-Paradise & help with DUA access
960628.02	done	CA Help with use of DE & RFI about web directories

## Notes

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960604.01, 960605.01 : awaiting resolution of lower-level network problem.

RFI is an abbreviation for "Request for information".

## APPENDIX 2 - World Root DSA and LDAP summary statistics for June 1996

### Summary of calls to DSA Giant Tortoise

From 0:05:31 on 31 may to 0:04:43 on 30 jun

No. of binds	local	remote
Anonymous	0	28
Unauth name DAP	0	613
Unauth name DSP	0	3920
Simple	266	692
Protected	0	0

  

No. of operations	local	remote
Reads	28	39
Compares	0	0
Lists	2	32
Searches	7240	443
Modifies	4	3
ModifyRDNs	0	0
Adds	1	24
GetEDBs		0 ( + 46997 slices)

### System usage (calls received)

Binds by Directory technicians	1430
Reads of DSA entries	26
Other ops on DSA entries	23
Getedb operations	0 ( + 46997 slices)
Spot shadows	19

### LDAP usage

LDAP usage from Jun 1 1996 to Jun 30 1996

Connections: 8152  
Total connect time: 100009 seconds (27 hrs 46 mins 49 secs)

Connections by domain

Domain	Connections
uk	8130
unresolved	22
Total	8152

---

## APPENDIX 3 - Public DUA/Telnet summary statistics for June 1996

### Attempted DUA usage

Calls to the Directory Service - June 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	4	1	5	1096	1106
de	-	-	-	73	73
testdua	-	-	-	2	2
					1181

### TELNET connections

Telnet connections and DUA logins from Jun 1 1996 to Jun 30 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 2875                      Logins: 1171

Top ten connections by domain

Top ten DUA logins by domain



Domain	Connections	Domain	Logins
-----	-----	-----	-----
edu	1015	edu	320
unresolved	608	unresolved	203
uk	257	uk	177
com	179	com	79
net	151	net	59
dz	95	org	40
org	64	nl	39
nl	62	dz	31
us	47	us	30
ca	47	ca = de	23
-----	-----	-----	-----
Total	2525	Total	1024

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for June 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Sat Jun 1 1996 TO Sun Jun 30 1996

Files Transmitted During Summary Period	367
Bytes Transmitted During Summary Period	102171133
Systems Using Archives	0
Average Files Transmitted Daily	13
Average Bytes Transmitted Daily	3648969

### Gopher server

Gopher usage from Sat Jun 1 1996 to Sun Jun 30 1996

Total connections:	17
Total files retrieved:	27

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M7 Monthly Report July 1996

#### ACTIVITY REPORT

##### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during July, with one major outage outside prime-time.

The following operational activities are noted:

- Since cn=Saki, the FLDSA for c=EE (Estonia), has been uncontactable for a considerable period, it was decided to remove these entries from the Directory, with the agreement of the relevant persons in EE. This issue first came up in the report for September 1995.
- An unusual organisation entry in c=CH (Switzerland) was reported to the country-manager. This organisation was registered both as a quipuNonLeaf and as an externalNonLeaf, having masterDSA and subordinateReference attributes, apparently in an attempt to work around a security firewall.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

##### 2. OUTAGES

Wed July 17 09:50 - 10:16 (26 mins)

All services unavailable, power failure at ULCC; circuit breakers reset, power restored

Wed July 24 03:14 - 08:26 (5hrs 12mins)

TCP/IP access to and from DSA Giant Tortoise, and to FTP/Gopher/LDAP servers, unavailable, malfunctioning IP router; router power-cycled

##### 3. ISSUES

There has been no solution to the low-level network problem affecting Malaysia's connection to the Directory (see June report). The most recent information is that Cisco engineers have been called in to help resolve the problem.

##### 4. STATISTICS

LDAP use has picked up again, after the inadvertent reconfiguration of DANTE's WWW/X.500 gateway in June.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly

operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Jul96>
- <DSA/stats.Giant-Tortoise.Jul96>
- <ldap/usage.Jul96>
- <DUA/usage.Jul96>
- <ftp/xferstats.Jul96>
- <gopher/usage.Jul96>
- <web/usage-9607.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Jul96>
- <DSA/operations/ops-summary.Giant-Tortoise.Jul96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for July 1996

NameFLOW-Paradise Helpdesk queries for : July 1996

Reference	Status	Keywords
960701.01	done	GB Request NameFLOW-Paradise reports
960702.01	done	TR Help with identifying people from e-mail addresses
960703.01	done	CN Help with Quipu DSA connectivity
960708.01	done	CN Query other ISODE documentation, besides manuals
960710.01	done	RU Request sources for ISODE documentation
960711.01	done	FR Query unexpected TCP/IP connections from FTP server
960712.01	done	UA Info-server help request
960713.01	done	CA Help with finding an e-mail address in CZ
960715.01	done	UA Request NameFLOW-Paradise document
960716.01	done	UA Request NameFLOW-Paradise document
960717.01	pend	UA Request NameFLOW-Paradise document
960717.02	done	GB Help with access to public DUA
960718.01	done	UA Help with searching the Directory via e-mail
960718.02	done	KR Help with bulk-loading tool connecting to DSA
960719.01	done	CN Request sources of X.5nn Recommendations on Internet
960725.01	done	ZA Help with finding an e-mail address

Notes

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960717.01 : awaiting clarification, request incomplete

RFI is an abbreviation for "Request for information".

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## APPENDIX 2 - World Root DSA and LDAP summary statistics for July 1996

### Summary of calls to DSA Giant Tortoise

From 0:05:04 on 30 jun to 0:00:08 on 31 jul

No. of binds	local	remote
Anonymous	0	6
Unauth name DAP	0	678
Unauth name DSP	0	3964
Simple	244	693
Protected	0	0
No. of operations		
Reads	3	74
Compares	0	0
Lists	1	2
Searches	2	204
Modifies	0	0
ModifyRDNs	0	0
Adds	0	2
GetEDBs		0 ( + 44323 slices)

System usage (calls received)

Binds by Directory technicians	1485
Reads of DSA entries	6
Other ops on DSA entries	2
Getedb operations	0 ( + 44323 slices)
Spot shadows	15

### LDAP usage

LDAP usage from Jul 1 1996 to Jul 31 1996

Connections:	24333
Total connect time:	291373 seconds (80 hrs 56 mins 13 secs)

## Connections by domain

Domain	Connections
uk	24326
unresolved	5
es	2
Total	24333

---

## APPENDIX 3 - Public DUA/Telnet summary statistics for July 1996

### Attempted DUA usage

Calls to the Directory Service - July 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	2	0	1	1068	1071
de	-	-	-	61	61
testdua	-	-	-	0	0
					1132

### TELNET connections

Telnet connections and DUA logins from Jul 1 1996 to Jul 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 2693 Logins: 1129

Top ten connections by domain

Domain	Connections
edu	902
unresolved	529
com	220
dz	217

Top ten DUA logins by domain

Domain	Logins
edu	307
unresolved	171
uk	146
com	110

uk	215	dz	94
net	135	net	53
ca	67	ca	36
org	42	org	26
de	38	us	23
nl	36	de	23
-----	-----	-----	-----
Total	2401	Total	989

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for July 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Mon Jul 1 1996 TO Wed Jul 31 1996

Files Transmitted During Summary Period	418
Bytes Transmitted During Summary Period	89825761
Systems Using Archives	0
Average Files Transmitted Daily	15
Average Bytes Transmitted Daily	3326880

### Gopher server

Gopher usage from Tue Jul 2 1996 to Mon Jul 29 1996

Total connections:	16
Total files retrieved:	13

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M8

### Monthly Report August 1996

## ACTIVITY REPORT

### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during August, with one major outage during prime-time.

The following operational activities are noted:

- The connection between the UK education and research network, JANET, and DANTE's EuropaNET was upgraded from 4Mbs to 8Mbs (two 4Mbs lines). This will give better European access to the central services.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

### 2. OUTAGES

Fri August 9 16:50 - 17:21 (31mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Mon August 19 14:03 - 14:31 (28mins)

All services unavailable, power failure at ULCC; circuit breakers reset, power restored

Fri August 23 15:26 - 16:37 (1hr 11mins)

DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

### 3. ISSUES

A small utility to probe DSAs, developed under the auspices of SURFnet in the Netherlands, has been released to the NameFLOW community. This needs to be tested centrally, and perhaps modified to remove some country-specific assumptions and to allow top-level DSA probing, prior to being made more widely available.

### 4. STATISTICS

The slightly higher than normal DSA read and search figures in appendix 2 reflect initial testing of the probe utility mentioned in Issues. If production probing is resumed, the "background level" for these statistics will

rise accordingly.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Aug96>
- <DSA/stats.Giant-Tortoise.Aug96>
- <ldap/usage.Aug96>
- <DUA/usage.Aug96>
- <ftp/xferstats.Aug96>
- <gopher/usage.Aug96>
- <web/usage-9608.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Aug96>
- <DSA/operations/ops-summary.Giant-Tortoise.Aug96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for August 1996

NameFLOW-Paradise Helpdesk queries for : August 1996

```
-----  
Reference      Status  Keywords  
-----  
960801.01     done   NO Query size of DIT  
960815.01     done   US Query DISH error when restarting a DSA  
960815.02     done   US Query DISH error when adding a new DSA entry  
960820.01     done   AU Request addition to FORUM mailing list  
960820.02     done   IT Request changes to entry under l=Europe@o=Cosine  
960823.01     done   VE Help with finding a company is US  
960827.01     done   US Help with converting from Quipu to X.500(93) DSA  
960828.01     done   GB Help with public access DUA
```



Notes

-----

RFI is an abbreviation for "Request for information".

---

## APPENDIX 2 - World Root DSA and LDAP summary statistics for August 1996

### Summary of calls to DSA Giant Tortoise

From 0:09:36 on 31 jul to 0:04:45 on 31 aug

No. of binds	local	remote
Anonymous	0	9
Unauth name DAP	1	704
Unauth name DSP	0	4353
Simple	239	601
Protected	0	0

  

No. of operations	local	remote
Reads	228	49
Compares	0	0
Lists	4	13
Searches	37	196
Modifies	1	3
ModifyRDNs	0	0
Adds	0	11
GetEDBs		0 ( + 47643 slices)

System usage (calls received)

Binds by Directory technicians	1422
Reads of DSA entries	221
Other ops on DSA entries	0
Getedb operations	0 ( + 47643 slices)
Spot shadows	24

### LDAP usage

LDAP usage from Aug 1 1996 to Aug 31 1996

Connections:	20231
Total connect time:	265927 seconds (73 hrs 52 mins 7 secs)

Connections by domain

Domain	Connections
uk	20172
unresolved	16
com	43
Total	20231

## APPENDIX 3 - Public DUA/Telnet summary statistics for August 1996

### Attempted DUA usage

Calls to the Directory Service - August 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	1	0	2	994	997
de	-	-	-	37	37
testdua	-	-	-	0	0
					1034

### TELNET connections

Telnet connections and DUA logins from Aug 1 1996 to Aug 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 2606                      Logins: 1031

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections
edu	998
unresolved	571

Domain	Logins
edu	368
unresolved	152

uk	200	uk	128
com	172	com	72
net	139	net	42
org	41	org	26
dz	35	mil	26
mil	34	de	20
de	32	nl	19
ca	32	au = ca	15
-----	-----	-----	-----
Total	2254	Total	883

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for August 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Thu Aug 1 1996 TO Fri Aug 30 1996

Files Transmitted During Summary Period	625
Bytes Transmitted During Summary Period	152770048
Systems Using Archives	0

Average Files Transmitted Daily	25
Average Bytes Transmitted Daily	6110802

### Gopher server

Gopher usage from Sat Aug 3 1996 to Thu Aug 29 1996

Total connections:	35
Total files retrieved:	16

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M9

### Monthly Report September 1996

#### ACTIVITY REPORT

##### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during September, with one scheduled outage outside prime-time.

The following operational activities are noted:

- After some discussion, it was announced to top-level DSA managers that the portion of the DIT starting at `l=Europe@o=Cosine` would be removed in October. This is a legacy from the PARADISE project. New DNs were created under `c=GB@o=University of London Computer Centre` for management and other access to the root DSA Giant Tortoise.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

##### 2. OUTAGES

Tue September 10 07:55 - 09:04 (1hr 9mins)

All services unavailable, scheduled downtime for electricity supply work

##### 3. ISSUES

The FLDSAs in Australia/`c=AU`, Anaconda and Bush Dog, are going to be moved or reorganised in the near future. It is not yet clear precisely what will happen, but it is hoped that the transition can be accomplished with a minimum of disruption, both within AU and outside it.

The manager for the top-level organisation `o=NATO` plans to convert to an X.500(93) DSA. No date has yet been scheduled for this.

##### 4. STATISTICS

The reduced number of "binds by directory technicians" in the DSA statistics of appendix 2 reflects the absence of connections from a top-level probe run by TU-Delft in the Netherlands, on behalf of SURFnet. This probe may have been withdrawn permanently.

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly

operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Sep96>
- <DSA/stats.Giant-Tortoise.Sep96>
- <ldap/usage.Sep96>
- <DUA/usage.Sep96>
- <ftp/xferstats.Sep96>
- <gopher/usage.Sep96>
- <web/usage-9609.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Sep96>
- <DSA/operations/ops-summary.Giant-Tortoise.Sep96>

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for September 1996

NameFLOW-Paradise Helpdesk queries for : September 1996

```
-----  
Reference      Status  Keywords  
-----  
960903.01     done    CN RFI about Quipu chaining/referral behaviour  
960903.02     done    NZ Query about RFC1279 domainComponents  
960903.03     done    GB Request to discontinue DSAs/localities in ES & NL  
960911.01     done    AU Request addition to FORUM & MANAGERS mailing lists  
960911.02     done    US RFI about NameFLOW-Paradise  
960913.01     done    NL RFI about converting FLDSA (o=NATO) to X.500(93)  
960916.01     done    NO Request for an e-mail address in GB  
960917.01     done    US Help with public-access DUAs  
960924.01     done    UA Info-server help request  
960926.01     done    CN Help with T.61 character set representation  
960926.02     done    AU Help with moving DSAs to new hosts
```

Notes

-----  
RFI is an abbreviation for "Request for information".

---

## APPENDIX 2 - World Root DSA and LDAP summary statistics for September 1996

### Summary of calls to DSA Giant Tortoise

From 0:25:21 on 31 aug to 0:01:20 on 30 sep

No. of binds	local	remote
Anonymous	0	9
Unauth name DAP	2	687
Unauth name DSP	0	4610
Simple	271	2
Protected	0	0
No. of operations		
Reads	13	42
Compares	0	0
Lists	5	3
Searches	4	20
Modifies	4	0
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 52077 slices)

System usage (calls received)

Binds by Directory technicians	960
Reads of DSA entries	7
Other ops on DSA entries	2
Getedb operations	0 ( + 52077 slices)
Spot shadows	25

### LDAP usage

LDAP usage from Sep 1 1996 to Sep 30 1996

Connections: 19953  
Total connect time: 397698 seconds (110 hrs 28 mins 18 secs)

Connections by domain

Domain	Connections
--------	-------------

uk	19849
unresolved	44
com	44
il	14
edu	2
-----	
Total	19953

## APPENDIX 3 - Public DUA/Telnet summary statistics for September 1996

### Attempted DUA usage

Calls to the Directory Service - September 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
	-----	-----	---	-----	-----
dua	7	4	4	1403	1418
de	-	-	-	55	55
testdua	-	-	-	0	0
					-----
					1473
					-----

### TELNET connections

Telnet connections and DUA logins from Sep 1 1996 to Sep 30 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 4100 Logins: 1458

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections
-----	-----
edu	2026
unresolved	986
uk	231
net	157

Domain	Logins
-----	-----
edu	762
unresolved	189
uk	145
com	59

com	152	net	49
dz	75	nl	31
ca	73	org	26
nl	49	ca	24
org	47	dz	19
us	38	us	13
-----		-----	
Total	3834	Total	1317

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for September 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Sun Sep 1 1996 TO Mon Sep 30 1996

Files Transmitted During Summary Period	376
Bytes Transmitted During Summary Period	117983517
Systems Using Archives	0
Average Files Transmitted Daily	14
Average Bytes Transmitted Daily	4537828

### Gopher server

Gopher usage from Sun Sep 1 1996 to Mon Sep 30 1996

Total connections:	21
Total files retrieved:	11



## DANTE NameFLOW-Paradise Directory Service

### Deliverable M10 Monthly Report October 1996

#### ACTIVITY REPORT

##### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during October, with no significant outages.

The following operational activities are noted:

- A new country, C=MY/Malaysia, was added to the DIT. This was delayed from June, pending the resolution of a low-level network problem.
- As announced in last month's report, the portion of the DIT starting at l=Europe@o=Cosine was removed. There had been no comments or objections.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

##### 2. OUTAGES

There were no significant outages this month.

##### 3. ISSUES

A university site in GB running the slapd (stand-alone LDAP) server from the University of Michigan, is planning to link in to NameFLOW-Paradise using the recently announced X.500 Enabler DAP/DSP -> LDAP gateway from Critical Angle, Inc -- see <http://www.critical-angle.com/x500e.html>

This looks like it might be a very useful interoperability tool for sites which do not wish to run a full X.500 DSA, but which want to get/keep connected to NameFLOW-Paradise.

##### 4. STATISTICS

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- [helpdesk/tickets.Oct96](#)
- [DSA/stats.Giant-Tortoise.Oct96](#)
- [ldap/usage.Oct96](#)
- [DUA/usage.Oct96](#)
- [ftp/xferstats.Oct96](#)
- [gopher/usage.Oct96](#)
- [web/usage-9610.html](#)
- [DSA/operations/ops-hourly.Giant-Tortoise.Oct96](#)
- [DSA/operations/ops-summary.Giant-Tortoise.Oct96](#)

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for October 1996

NameFLOW-Paradise Helpdesk queries for : October 1996

```
-----  
Reference      Status  Keywords  
-----  
961001.01     done   CN Help with Quipu/IDM treatment of T.61 strings  
961011.01     done   NL Request to test accessibility of new o=NATO FLDSA  
961020.01     done   PL Help with finding an e-mail address in PL  
961021.01     done   NO Request changes to list of public DUAs  
961022.01     done   MY Request to test accessibility of c=MY FLDSA  
961022.02     done   GB Help with public-access DUA  
961023.01     done   MY Request to add c=MY to the DIT  
961025.01     done   CN RFI about Quipu internals & defining new attributes  
961031.01     done   GB Request PARADISE document
```

Notes

```
-----  
961022.01 : this completes pending request 960605.01  
961023.01 : following 961022.01, this completes pending request 960604.01
```

RFI is an abbreviation for "Request for information".

---

## APPENDIX 2 - World Root DSA and LDAP summary statistics for October 1996

### Summary of calls to DSA Giant Tortoise

From 0:16:11 on 30 sep to 23:57:00 on 30 oct

No. of binds	local	remote
Anonymous	0	7
Unauth name DAP	3	711
Unauth name DSP	0	4236
Simple	283	2
Protected	0	0

  

No. of operations	local	remote
Reads	16	40
Compares	0	0
Lists	14	6
Searches	0	68
Modifies	6	2
ModifyRDNs	0	0
Adds	1	0
GetEDBs		0 ( + 45352 slices)

System usage (calls received)

Binds by Directory technicians	996
Reads of DSA entries	18
Other ops on DSA entries	7
Getedb operations	0 ( + 45352 slices)
Spot shadows	23

### LDAP usage

LDAP usage from Oct 1 1996 to Oct 31 1996

Connections:	22050
Total connect time:	532971 seconds (148 hrs 2 mins 51 secs)

Connections by domain

Domain	Connections
-----	-----
uk	21749
com	114
unresolved	103
net	44
others	40
-----	-----

Total 22050

---

## APPENDIX 3 - Public DUA/Telnet summary statistics for October 1996

### Attempted DUA usage

Calls to the Directory Service - October 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
	-----	-----	---	-----	-----
dua	2	2	1	1602	1607
de	-	-	-	47	47
testdua	-	-	-	1	1
					-----
					1655
					-----

### TELNET connections

Telnet connections and DUA logins from Oct 1 1996 to Oct 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 4448 Logins: 1650

Top ten connections by domain

Domain	Connections
-----	-----
edu	2033
unresolved	1040
uk	590
net	143
com	128
dz	79
ca	62
us	44
nl	41
org	35
-----	-----

Top ten DUA logins by domain

Domain	Logins
-----	-----
edu	742
uk	308
unresolved	284
com	59
net	39
ca	26
org	20
us	19
nl	19
pt	15
-----	-----

Total 4195

Total 1531

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for October 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Tue Oct 1 1996 TO Thu Oct 31 1996

Files Transmitted During Summary Period	539
Bytes Transmitted During Summary Period	140973691
Systems Using Archives	0

Average Files Transmitted Daily	22
Average Bytes Transmitted Daily	5873904

### Gopher server

Gopher usage from Tue Oct 1 1996 to Wed Oct 30 1996

Total connections:	19
Total files retrieved:	21

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M11

### Monthly Report November 1996

#### ACTIVITY REPORT

##### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during November, with one major outage outside prime-time.

The following operational activities are noted:

- In cooperation with the DSA manager for NATO, interworking tests were performed between Giant Tortoise and the proposed new FLDSA for NATO, which is an X.500(93) implementation. Although results were positive, NATO will retain its Quipu FLDSA for the time being, while learning more about the operation of the new implementation.
- In consultation with the Postmaster of the Department of Computer Science at University College London, the closure of the mailing-list `osi-ds@cs.ucl.ac.uk` was announced. List members were informed that the mailing-list `forum@nameflow.dante.net` was available, covering similar ground, if they wished to subscribe to it; about 40 people did so.
- Helpdesk staff proof-read the NameFLOW-Paradise Annual Report, and the 1997 Service Level Agreement.

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

##### 2. OUTAGES

Fri November 8 14:08 - 14:40 (32mins)

DSA Giant Tortoise unavailable, stuck Quipu process; reboot required to clear

Sat November 9 04:47 - 14:17 (9hrs 30mins)

All services unavailable, power outage at ULCC due to minor fire in local electricity substation; circuit breakers reset, power restored

Mon November 18 20:16 - 21:00 (44mins)

DSA Giant Tortoise unavailable, stuck Quipu process; reboot required to clear

Thu November 21 14:00 - 14:35 (35mins)

DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

Mon November 25 15:02 - 15:55 (53mins)

DSA Giant Tortoise unavailable, stuck Quipu process; reboot required to clear

### 3. ISSUES

The researcher in the Peoples' Republic of China who has been running an FLDSA experimentally for c=CN (see November 1995 report), has expressed an interest in registering c=CN in the NameFLOW-Paradise DIT proper. Technical issues aside, this is a matter for discussion between DANTE and CERNET.

The US manager is looking at X.500(93) under the auspices of the Challenge97 project of the World Electronic Messaging Association. This should eventually lead to the US FLDSAs converting to X.500(93) implementations, although there is as yet no timescale for this.

The European Space Agency has established an X.500(93) DSA internally, and is interested in connecting to NameFLOW-Paradise again. Rather than resurrecting the existing entry under l=Europe, because of the uncertain future of that part of the DIT, it is expected that ESA will be registered directly under the root, like NATO.

### 4. STATISTICS

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>
- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- <helpdesk/tickets.Nov96>
- <DSA/stats.Giant-Tortoise.Nov96>
- <ldap/usage.Nov96>
- <DUA/usage.Nov96>
- <ftp/xferstats.Nov96>
- <gopher/usage.Nov96>
- <web/usage-9611.html>
- <DSA/operations/ops-hourly.Giant-Tortoise.Nov96>
- <DSA/operations/ops-summary.Giant-Tortoise.Nov96>

### 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

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## APPENDIX 1 - Helpdesk ticket list for November 1996

NameFLOW-Paradise Helpdesk queries for : November 1996

```

-----
Reference      Status  Keywords
-----
961102.01     done   NO Query status of mailing lists
961104.01     done   GB Query about connecting a CDC GDS DSA in SE
961104.02     done   US RFI about NameFLOW-Paradise
961105.01     done   GB Request addition to FORUM mailing list
961105.02     done   GB Request addition to MANAGERS mailing list
961107.01     done   CN RFI about joining NameFLOW-Paradise
961107.02     done   NL Request interworking tests with NATO X.500(93) DSA
961108.01     done   CN Help with Quipu, Wlu, and web500gw
961108.02     pend   GB Help with public-access DUA
961111.01     done   GB Request index of PARADISE/NameFLOW-Paradise documents
961114.01     done   CN Help with Quipu behaviour, and .tex documents
961122.01     done   US Query interest in Windows95 support package
961126.01     done   GB RFI about NameFLOW-Paradise
961127.01     done   GB Request PARADISE reports

```

#### Notes

```

-----
961108.02 : awaiting more detailed information

```

RFI is an abbreviation for "Request for information".

## APPENDIX 2 - World Root DSA and LDAP summary statistics for November 1996

### Summary of calls to DSA Giant Tortoise

From 0:08:45 on 31 oct to 0:03:24 on 30 nov

No. of binds	local	remote
Anonymous	0	6
Unauth name DAP	0	671
Unauth name DSP	0	3439
Simple	283	5
Protected	0	0

  

No. of operations	local	remote
Reads	6	34
Compares	0	0
Lists	3	9
Searches	2	249
Modifies	0	2
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 39475 slices)

System usage (calls received)



Binds by Directory technicians	953
Reads of DSA entries	5
Other ops on DSA entries	0
Getedb operations	0 ( + 39475 slices)
Spot shadows	17

## LDAP usage

LDAP usage from Nov 1 1996 to Nov 30 1996

Connections:	21271
Total connect time:	800520 seconds (222 hrs 22 mins 0 secs)

Connections by domain

Domain	Connections
-----	-----
uk	20740
com	449
unresolved	52
net	19
others	11
-----	-----
Total	21271

---

## APPENDIX 3 - Public DUA/Telnet summary statistics for November 1996

### Attempted DUA usage

Calls to the Directory Service - November 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
	-----	-----	---	-----	-----
dua	1	0	0	907	908
de	-	-	-	41	41
testdua	-	-	-	0	0
					-----
					949
					-----

### TELNET connections

## Telnet connections and DUA logins from Nov 1 1996 to Nov 30 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 2941 Logins: 948

Top ten connections by domain

Top ten DUA logins by domain

Domain	Connections
-----	-----
edu	1120
unresolved	666
uk	480
net	126
dz	92
com	91
org	39
nl	37
ca	35
us	32
-----	-----
Total	2718

Domain	Logins
-----	-----
edu	337
uk	198
unresolved	124
com	43
net	35
org	29
ca	22
dz	20
cz	18
us	17
-----	-----
Total	843

---

## APPENDIX 4 - FTP/Gopher info-server summary statistics for November 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Fri Nov 1 1996 TO Sat Nov 30 1996

Files Transmitted During Summary Period	641
Bytes Transmitted During Summary Period	166607511
Systems Using Archives	0
Average Files Transmitted Daily	23
Average Bytes Transmitted Daily	5950268

### Gopher server

Gopher usage from Sat Nov 2 1996 to Sat Nov 30 1996

Total connections:	28
Total files retrieved:	27

# UNIVERSITY OF LONDON COMPUTER CENTRE

## DANTE NameFLOW-Paradise Directory Service

### Deliverable M12

### Monthly Report December 1996

## ACTIVITY REPORT

### 1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during December, with no major outages.

The following operational activities are noted:

- An incorrect zone reference in DANTE's DNS configuration was corrected. This mismatch had been causing a problem with the LDAP statistics, due to inconsistent reverse lookups.
- The mailing list `osi-ds@cs.ucl.ac.uk` was removed, and forwarding was set up from `osi-ds` and `osi-ds-request` to `forum` and `forum-request@nameflow.dante.net`

No major problems to report on the Helpdesk service. A summary of the Helpdesk tickets is attached in the Appendices.

### 2. OUTAGES

Mon December 2 15:13 - 15:52 (39mins)

DSA Giant Tortoise unavailable, stuck Quipu process; reboot required to clear

The partial power outage scheduled for Tuesday 10th December and announced on the managers mailing list did not in fact take place: power was rerouted around the UPS during the safety inspection.

### 3. ISSUES

A new telephone system is being installed at ULCC, which will require the helpdesk contact number to change. ULCC's old main reception number will be retained with a recorded message advising the caller to ring the new reception number. It is not yet clear what the new helpdesk number will be, or whether this will get directly to the NameFLOW helpdesk, or to a generic helpdesk shared with other ULCC support functions.

### 4. STATISTICS

Summaries of the service statistics are attached in the Appendices. Full statistics and world-root DSA hourly operations figures are available on the NameFLOW-Paradise info-server, under:

- <gopher://gopher.nameflow.dante.net/11/statistics/>

- <ftp://ftp.nameflow.dante.net/statistics/>

On the info-server, the individual statistics files for this month are:

- [helpdesk/tickets.Dec96](#)
- [DSA/stats.Giant-Tortoise.Dec96](#)
- [ldap/usage.Dec96](#)
- [DUA/usage.Dec96](#)
- [ftp/xferstats.Dec96](#)
- [gopher/usage.Dec96](#)
- [web/usage-9612.html](#)
- [DSA/operations/ops-hourly.Giant-Tortoise.Dec96](#)
- [DSA/operations/ops-summary.Giant-Tortoise.Dec96](#)

## 5. APPENDICES

1. [Helpdesk ticket list for this month.](#)
2. [DSA/LDAP summary statistics for this month.](#)
3. [DUA/Telnet summary statistics for this month.](#)
4. [FTP/Gopher info-server summary statistics for this month.](#)

## APPENDIX 1 - Helpdesk ticket list for December 1996

NameFLOW-Paradise Helpdesk queries for : December 1996

Reference	Status	Keywords
961202.01	done	US Request addition to FORUM mailing list
961202.02	done	US Request addition to MANAGERS mailing list
961202.03	done	US Help with Quipu replication and other problems
961205.01	done	US Help with adding a second DSA for an organisation
961205.02	done	US More help with Quipu replication
961207.01	done	NZ Request addition to FORUM mailing list
961209.01	done	DE Request addition to FORUM mailing list
961212.01	done	CN RFI about FLDSA connections/data replication
961212.02	done	US RFI about OSI Certificates mirror on ftp server
961212.03	done	US Request addition to (OSI-DS =>) FORUM mailing list
961215.01	done	CN Help with finding e-mail addresses in US
961216.01	done	US Request PARADISE documents
961217.01	done	FR Request removal from FORUM mailing list
961218.01	done	CN Query Quipu DSA/DSA authentication behaviour
961218.02	done	CH Request addition to FORUM mailing list
961219.01	done	GB Request addition to FORUM mailing list
961220.01	done	CN Query choice of T.61 for X.500 attributes
961220.02	done	GB Request addition to (OSI-DS =>) FORUM mailing list

961224.01 done US Request addition to FORUM mailing list  
961229.01 done US Request addition to (OSI-DS =>) FORUM mailing list

Notes

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RFI is an abbreviation for "Request for information".

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## APPENDIX 2 - World Root DSA and LDAP summary statistics for December 1996

### Summary of calls to DSA Giant Tortoise

From 0:14:09 on 30 nov to 0:04:53 on 31 dec

No. of binds	local	remote
Anonymous	0	6
Unauth name DAP	0	691
Unauth name DSP	0	4170
Simple	268	1
Protected	0	0

  

No. of operations	local	remote
Reads	0	180
Compares	0	0
Lists	1	8
Searches	1	62
Modifies	0	0
ModifyRDNs	0	0
Adds	0	0
GetEDBs		0 ( + 37500 slices)

System usage (calls received)

Binds by Directory technicians	959
Reads of DSA entries	17
Other ops on DSA entries	0
Getedb operations	0 ( + 37500 slices)
Spot shadows	22

### LDAP usage

LDAP usage from Dec 1 1996 to Dec 31 1996

Connections: 21952  
Total connect time: 469214 seconds (130 hrs 20 mins 14 secs)

## Connections by domain

Domain	Connections
uk	21439
com	265
unresolved	114
mil	29
others	105
Total	21952

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## APPENDIX 3 - Public DUA/Telnet summary statistics for December 1996

### Attempted DUA usage

Calls to the Directory Service - December 1996

Notes:

Calls from JANET, EuropaNet and PSS do not log the username so dua is assumed. Since the public-access DUA was withdrawn in February 1996, these figures measure attempted rather than actual use.

	JANET	EuropaNet	PSS	Internet	Total
dua	0	0	0	745	745
de	-	-	-	50	50
testdua	-	-	-	0	0
					795

### TELNET connections

Telnet connections and DUA logins from Dec 1 1996 to Dec 31 1996

Note: Each connection does not necessarily correspond to a login, either as a Directory Enquiries user, or as any other user

Connections: 2221 Logins: 795

Top ten connections by domain

Top ten DUA logins by domain

Domain Connections

Domain Logins

-----	-----	-----	-----
edu	871	edu	289
unresolved	491	unresolved	104
uk	179	uk	94
com	145	com	76
dz	128	dz	46
net	110	net	43
ca	33	org	22
org	29	de	11
us	26	us	10
de	24	hu	10
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Total	2036	Total	705

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## APPENDIX 4 - FTP/Gopher info-server summary statistics for December 1996

### FTP server

TOTALS FOR SUMMARY PERIOD Sun Dec 1 1996 TO Tue Dec 31 1996

Files Transmitted During Summary Period	485
Bytes Transmitted During Summary Period	122786259
Systems Using Archives	0
Average Files Transmitted Daily	17
Average Bytes Transmitted Daily	4385224

### Gopher server

Gopher usage from Sun Dec 1 1996 to Sat Dec 21 1996

Total connections:	25
Total files retrieved:	39