UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M9

Monthly Report January 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

   The NameFLOW Directory services ran satisfactorily during January, with no major problems.

   After the QUIPU software upgrade to XT-QUIPU 8.3 on each DSA there were problems with the DUA user interface DE and with IDM. DE was rerouted to use a backup system. DE was fixed by UCL-CS and is now back in operation. However, IDM still remains inaccessible.

   No major problems to report on the Helpdesk service.

   At the beginning of January two new members of staff joined the directory and relay Support team at ULCC, Ronan Flood and Stan Grant.

   A summary of the Helpdesk tickets is attached in the Appendices.

2. OUTAGES

   None

3. ISSUES

   The World Root DSA EDB information and OID tables are now available on the NameFLOW info-server. This is to allow sites to transfer the world knowledge so as to set up their own "root" services. The info is available:

   ```
   gopher: gopher.nameflow.dante.net/root/
   anon ftp: ftp.nameflow.dante.net/root/
   ```

   The UKERNA JANET PoP at Telehouse is progressing and an 8Mbps link upgrade between Telehouse an ULCC has been ordered. It is now the intention to route the US international services via Telehouse, whilst leaving the European services routed via ULCC. This will provide a highly resilient network infrastructure to JANET's international access.

4. STAT'S

   A summary of the DSA stat's is attached in the Appendices. Full DSA stat's and hourly figures are available on the NameFLOW- PARADISE info-server:

- ❍ gopher://gopher.nameflow.dante.net/11/statistics/
- ❍ ftp://ftp.nameflow.dante.net/statistics/

In the files:

DSAstats.Giant-Tortoise.Jan95
DSAops-hourly.Giant-Tortoise.Jan95
DSAops-summary.Giant-Tortoise.Jan95

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5. APPENDICES

Helpdesk ticket list for this month.

DSA summary stats for this month.

APPENDIX 1 - NameFLOW-Paradise Helpdesk ticket list for April 1995

NameFlow Helpdesk queries for : January 1995

```
--------------------------------------------------------------------------
Reference    Status Keywords
--------------------------------------------------------------------------
950101.01    pend   IR Request to join pilot
950104.01    done   CA Request for addition of organisation under c=CA
950104.02    done   AU Assistance EDB shadowing
950106.01    done   CA Request for information
950106.02    done   GB, CH, GR, SK, US, PL, ES Corrections to c=GB,
                     o=Internet and root EDBs required
950110.01    done   GB Request for information
950111.01    done   MY Request for information
950111.02    done   ?? Request for information
950111.03    done   CH Root EDB on ftp server on Mason
950112.01    done   US Request for information
950113.01    done   MY Request for information
950113.02    done   GB Request for information
950113.03    done   US NATO technical assistance
950117.01    done   US Request for information
950118.01    done   US Request for information
950119.01    done   US Request for information
950120.01    done   US Request for information
950120.02    done   FR request for c=FR Manager contact details
950122.01    done   GB Request for information
950123.01    done   CZ Request for address
```

```
950124.01   done    US Request for information
950124.02   done    GB Request for information
950125.01   done    GB Request for information
950125.02   done    GB Request for information
950127.01   done    GB Request for information
950130.01   done    GB Request for information
950130.02   done    GB Request for information
950130.03   done    GB Request for information
950131.01   done    GB Request for information


Notes
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950101.01 : awaiting further information for that country.
```

APPENDIX 2 - World Root DSA summary stat's for January 1995

```
Summary of calls to DSA
From 5:32:53 on 31 dec to 5:33:05 on 01 feb


No. of binds                    local remote

Anonymous                          0    948
Unauth name DAP                 1786   4770
Unauth name DSP                    0  14932
Simple                            33   1906
Protected                          0      0

No. of operations
Reads                            910  12721
Compares                           4   3026
Lists                            109    199
Searches                         288  56159
Modifies                           0     70
ModifyRDNs                         0      0
Adds                               0    609
GetEDBs                                   6


System usage (calls received)

Binds by Directory technicians       0
Reads of DSA entries              7069
Other ops on DSA entries           660
Getedb operations                    6
Spot shadows                      1913
```

Back to NameFLOW-Paradise introduction

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M10

Monthly Report February 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

   The NameFLOW Directory services ran satisfactorily during February, with no major problems.

   The DAD server was switched off as it was not used and there is no perceived user requirement.

   It was noted that the "browser" facility available through the DE interface has not been working since the upgrade to QUIPU. This was investigated and fixed. However, as last quarter, IDM remains broken as there as there are no maintenance arrangements in place for this.

   Some changes have been made in the root DSA as an initial attempt to reduce the NameFLOW-Paradise infrastructure dependence on a central highly available service. The changes made at this time are in the areas affecting the replication facility that the DSA provides. Other changes are being discussed.

   Further information has been added to the info-server at DANTE's request.

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

2. OUTAGES

   None

3. ISSUES

   An operational email list has been set up (POPS@nameflow.dante.net) with external members now providing input to DANTE on the NameFLOW-Paradise Service. This has proved highly beneficial.

   The 8Mbps JANET link to Telehouse as part of the additional resilience programme, is now installed. However there are problems with driving this link at 8Mbps. These problems are similar to the problems experienced with bringing into service the 8Mbps link to EMPB; we now suspect the DSUs to be at fault.

4. STAT'S

   A summary of the DSA stat's is attached in the Appendices. Full DSA stat's and hourly figures are available on the NameFLOW-Paradise info-server, under:

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

   DUA stats are again being compiled. These are also held on the info-server and a summary is included in the Appendices.

5. APPENDICES

APPENDIX 1 - NameFLOW-Paradise Helpdesk ticket list for February 1995

NameFlow Helpdesk queries for : February 1995

```
----------------------------------------------------------------
Reference    Status       Keywords
----------------------------------------------------------------
950201.01    done         GB Request PARADISE report
950201.02    done         US Help with problem with public-access DUA
950202.01    done         GB Request to respond to CERT security alert
950202.02    done         ZA Request PARADISE report
950203.01    done         BM Help with DUA search of Kent U
950203.02    done         GB Change entry c=GB@o=MAFF
950203.03    done         GB Remove old slaveDSA from AU, CA, DE, FI, SE, US
950203.04    done         US Request PARADISE report
950205.01    done         DZ Help with DUA search/multiple email addresses
950205.02    done         GB Help with accessing public-access DUA
950206.01    done         GB HElp with finding an email address in US
950206.02    done         GB Request PARADISE report & help public-access DUA
950206.03    done         US "help"!  No subsequent contact
950206.04    done         US Request PARADISE report
950208.01    done         US Request for email address in US
950208.02    done         GB Request PARADISE report
950208.03    done         GB Request PARADISE report
950208.04    done         US Help with access to Directory at Princeton U
950208.05    done         GB Request price of PARADISE report
950208.06    done         CA Request PARADISE report
950208.07    done         GB RFI about Internet email directories
950209.01    done         US Help with finding an email address
950209.02    done         GB Help with locating information about research fund
950209.03    done         GB Help with finding an email address in US
950209.04    done         GB Help with finding an address in BE
950209.05    done         ZA RFI about future of PARADISE -- referred to DANTE
950210.01    done         US Help with finding an email address in UK
950213.01    done         GB Request for email address in GB
950213.02    done         GB Help with problem with public-access DUA
950214.01    done         DE RFI about PARADISE -- referred to DANTE, and to
                             country-manager for DE
950214.02    done         GB Request PARADISE report
950214.03    done         US Request for email addresses in US
950215.01    done         GB Request PARADISE report
950215.02    done         GB Request PARADISE report
950215.03    done         US Help with finding an email address in US
950215.04    done         CA Request PARADISE report
```

```
950215.05    done           US Help with access to Directory at New Mexico State U
950216.01    done           GB Request PARADISE report
950216.02    done           GB Request PARADISE report
950216.03    done           GB Request PARADISE report
950216.04    done           GB Help with finding email address in CN
950216.05    done           GB Help with public-access DUA
950216.06    done           GB Help with Directory at St. Andrew's U
950217.01    done           GB Help with finding email addresses in CA
950218.01    done           CA RFI about London U
950219.01    done           EG Request PARADISE report
950220.01    done           GB RFI about public-access DUA
950220.02    done           GB Request PARADISE report
950220.03    done           GB RFI about telnet access to public-access DUA
950220.04    done           DE Request PARADISE report
950221.01    done           ES Change of contact information for ES -- to DANTE
950221.02    done           GB Request PARADISE report
950221.03    done           FR Change entry c=FR
950222.01    done           SI request for email addresses in CA
950222.03    done           GB RFI about NameFLOW mail server
950222.04    done           US Request PARADISE report
950222.05    done           US RFI about Internet "phonebooks"
950223.01    done           US Request PARADISE report
950225.01    done           US Request for email address in NZ
950225.02    done           US Request PARADISE report & RFI about registering
950225.03    done           US RFI about registering in the Directory
950226.01    done           US Help with public-access DUA
950227.01    done           GB Request PARADISE report
950228.01    done           GB Request PARADISE report
```

Notes:

      RFI is an abbreviation for "Request for information".

APPENDIX 2 - World Root DSA summary stat's for February 1995

```
Summary of calls to DSA
>From  5:36:23 on 31 jan to  5:32:36 on 27 feb

No. of binds                      local   remote

Anonymous                             0      862
Unauth name DAP                    2084     5744
Unauth name DSP                       0    11847
Simple                               16     1755
Protected                             0        0


No. of operations
Reads                               528    14048
Compares                              0     1864
Lists                                 5      425
Searches                             33   104876
Modifies                              0       51
ModifyRDNs                            0        2
```

```
Adds                                        0      205
GetEDBs                                             3


System usage (calls received)

Binds by Directory technicians            10752
Reads of DSA entries                       4554
Other ops on DSA entries                    564
Getedb operations                             3
Spot shadows                               1414
```

APPENDIX 3 - World Root DUA summary stat's for February 1995

Calls to the Directory Service - February 1995

```
          JANET    EuropaNet    PSS     Internet    Total
          -----    ---------    ---     --------    -----
dua        450        108        20       22130     22708
de           0          0         0         371       371
testdua      0          0         0          65        65
                                                     -----
                                                     23144
                                                     -----
```

NB: calls from JANET, EuropaNet and PSS do not log the username so dua is assumed

Back to the [NameFLOW-Paradise introduction](#)

Monthly Report March 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

   The NameFLOW Directory services ran satisfactorily during March, with no major problems.

   The following operational activities are noted:

   A problem was diagnosed with the mailing-lists as the version of PP (which is is very old) does not understand MX records. This is worked around by adding records to /etc/hosts pointing the email host at the primary MX preference.

   A significant number of login failures on the public-access DUA machine were noted. A modified TELNETD has been installed which includes an announcement message prior to the login prompt.

   A cron job is setup to retrieve the latest NameFLOW-Paradise contacts list from DANTE's web-server, to make it available on our info-server. This involved writing a 'C' program to talk to their httpd.

   After the NameFLOW-Paradise meeting in Salford, work is in progress with NEXOR to produce a version of the root context knowledge in "strict X.500" format, for anonymous ftp.

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

2. OUTAGES

   None

3. ISSUES

   The ULCC Dial-up Service has moved from the old X.25 based service to a new IP based service, with user account validation. Access to the NameFLOW-PARADISE DUA has been maintained by adding the "psuedo" username "de" with no password, on the new Dial-up Service. This new service is on a new telephone number, +44 171 816 0993; however, the old number, +44 171 405 4222, has also been moved to this new service.

   Access to European IP networks has been badly affected by the new 8Mbps JANET EMPB link which has continued to give problems and the service has reverted to using the 2Mbps connection. It is now clear that any problems there may have been with the DSUs has been resolved and

investigation must now focus on the EMPB Telebit at the UK EMPB PoP. This situation is being discussed with EMPB.

4. STAT'S

A summary of the DSA stat's is attached in the Appendices. Full DSA stat's and hourly figures are available on the NameFLOW- PARADISE info-server, under:

- o gopher://gopher.nameflow.dante.net/11/statistics/
- o ftp://ftp.nameflow.dante.net/statistics/

DUA stat's are also held on the info-server and a summary is included in the Appendices.

5. APPENDICES

Helpdesk ticket list for this month.

DSA summary stats for this month.

DUA summary stats for this month.

APPENDIX 1 - NameFLOW-Paradise Helpdesk ticket list for March 1995

NameFlow-Paradise Helpdesk queries for : March 1995

```
--------------------------------------------------------------------------
Reference      Status Keywords
--------------------------------------------------------------------------
950301.01      done    FR Request PARADISE report
950302.01      done    US Help with finding email addresses in DE
950303.01      done    GB Request PARADISE report & RFI about X.500
950303.02      done    GB Help with public-access DUA
950304.01      done    CA Request PARADISE report
950304.02      done    US Help with finding email addresses in GB
950306.01      done    GB Help with finding an email address
950307.01      done    NZ Help with finding an email address in US
950307.02      done    US Request PARADISE report
950307.03      done    GB Help with finding an email address in GB
950309.01      done    US Request PARADISE report
950310.01      done    GB RFI in general
950310.02      done    US Request PARADISE report
950312.01      done    EG Help with finding email addresses in UA
950312.02      done    US Request PARADISE report
950313.01      done    GB Request PARADISE report
950314.01      done    US Help with finding an email address in US
```

```
950314.02    done    GB Help with ULCC dialup -- referred to ULCC service
950314.03    done    GB Request PARADISE report
950315.01    done    GB Request PARADISE report
950316.01    done    GB Request PARADISE report & RFI about X.500
950316.02    done    GB Request PARADISE report & help with email in US
950316.03    done    US Request PARADISE report & RFI about X.400/X.500
950319.01    done    UA Request PARADISE report
950320.01    done    DK Change membership of FORUM mailing list
950320.02    done    CH Change membership of MANAGERS mailing list
950320.03    done    GB Request PARADISE report
950320.04    done    PT Request addition to MANAGERS mailing list
950320.05    done    GB Request addition to MANAGERS mailing list
950320.06    done    HU Request addition to MANAGERS mailing list
950320.07    done    BR Request addition to MANAGERS mailing list
950320.08    done    LU Request addition to MANAGERS mailing list
950321.01    done    SE Request PARADISE report & RFI about X-based DUAs
950321.02    done    ES Request addition to MANAGERS mailing list
950321.03    done    GB Request addition to MANAGERS mailing list
950321.04    done    US Help with finding an email address in US
950321.05    done    US Request PARADISE report
950322.01    done    GB Request PARADISE report
950322.02    done    DZ Request for email addresses in US and DE
950322.03    done    US Request PARADISE report
950322.04    done    GB Help with problem with public-access DUA
950322.05    done    GB Request PARADISE report
950322.06    done    EG Request for an email address in US
950322.07    done    GB RFI about PARADISE
950323.01    done    GB RFI in general
950323.02    done    GB Request leaflets describing public-access DUA
950324.01    done    DE Request PARADISE report
950324.02    pend    HK Request to join NameFLOW-Paradise Directory
950324.03    done    GB Request PARADISE report
950325.01    done    GR Request PARADISE report
950325.02    done    DZ Request for email addresses in US and DE
950325.03    done    US Request PARADISE report
950326.01    done    HK Request PARADISE report
950328.01    done    RO Request PARADISE report
950329.01    done    US Help with finding an email address in US
950329.02    done    GB Help with info-server & contacts for NADF/Eurescom
950330.01    done    ES Request PARADISE report
950331.01    done    GB RFI about NameFLOW-Paradise
950331.02    done    US Help with finding an email address in IN
950331.03    done    GB Request PARADISE report
```

Notes

950324.02 : awaiting further information for that country.

RFI is an abbreviation for "Request for information".

APPENDIX 2 - World Root DSA summary stat's for March 1995

```
Summary of calls to DSA
>From  5:35:24 on 27 feb to  5:33:35 on 31 mar

No. of binds                        local   remote

Anonymous                               0      495
Unauth name DAP                      2514     7398
Unauth name DSP                         0     8888
Simple                                  4     2591
Protected                               0        0


No. of operations
Reads                                 616    10289
Compares                                0      816
Lists                                   5      646
Searches                               34   128304
Modifies                                0       33
ModifyRDNs                              0        0
Adds                                    0       58
GetEDBs                                         25


System usage (calls received)

Binds by Directory technicians              12103
Reads of DSA entries                         1816
Other ops on DSA entries                      246
Getedb operations                              25
Spot shadows                                 1345
```

APPENDIX 3 - World Root DUA summary stat's for March 1995

Calls to the Directory Service - March 1995

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	378	92	14	22094	22578
de	0	0	35	362	397
testdua	0	0	0	30	30

```
-----
23005
-----
```

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UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M12

Monthly Report April 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

   The NameFLOW Directory services ran satisfactorily during April, with no major problems.

   The following operational activities are noted:

   ❍ Installation of the WU ftp server to get better logging.
   ❍ Stat's on the server have been moved to a new directory:

   ```
   ~/nameflow/statistics/
   ```

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

2. OUTAGES

   None

3. ISSUES

   Access to European IP networks continues to be badly affected by the new 8Mbps JANET EMPB IP link.

   A JANET Cisco router has now been installed in the UK EMPB POP to buffer the 8Mbps line to a 4Mbps port on the EMPB switch. The problem of packet loss has now shifted to being between the EMPB switch and the local Cisco. EMPB staff are investigating the configuration of their switch.

4. STAT'S

   A summary of the DSA stat's is attached in the Appendices. Full DSA stat's and hourly figures are available on the NameFLOW- Paradise info-server, under:

   ❍ gopher://gopher.nameflow.dante.net/11/statistics/
   ❍ ftp://ftp.nameflow.dante.net/statistics/

   DUA stat's are also held on the info-server and a summary is included in the Appendices.

5. APPENDICES

Helpdesk ticket list for this month.

DSA summary stats for this month.

DUA summary stats for this month.

APPENDIX 1 - NameFLOW-Paradise Helpdesk ticket list for April 1995

NameFlow Helpdesk queries for : April 1995

```
-------------------------------------------------------------------
Reference     Status Keywords
-------------------------------------------------------------------
950330.02     done   MX Help with public-access DUA
950401.01     done   BE Request addition to MANAGERS mailing list
950403.01     done   DE Help with public-access DUA
950403.02     done   US Help with finding X.400/X.500 Recommendations
950403.03     done   IN Help with changing presentation address of FLDSA
950403.04     done   CA Request PARADISE report
950404.01     pend   NL Request PARADISE report
950405.01     done   GR Request PARADISE report
950406.01     done   FR Help with replicating root EDB
950407.01     done   GB Request PARADISE report
950409.01     done   US RFI about registering in Directory, for a book
950410.01     done   GB Help with searching ZA
950410.02     done   US RFI about "hotels in your city"
950411.01     done   GB Help with finding an email address in GB
950411.02     done   GB Help with incorrect email address in NL
950411.03     done   US Help with finding email addresses in GB
950412.01     done   FI Request removal from MANAGERS mailing list
950412.02     done   IL Request change to presentation address of FLDSA
950412.03     pend   US Help with problem with FLDSA failing to start
950412.04     done   US Request PARADISE report
950414.01     done   US Help with finding an email address in US
950414.02     done   US Help with finding an email address in GB
950416.01     done   EG Request PARADISE report
950417.01     done   US Help contacting FTP server in AU
950418.01     done   AU Request addition of slaveDSA to several countries
950419.01     done   IN Help with QUIPU and replication for FLDSA
950419.02     done   US Help with finding an email address in US
950419.03     done   US Request PARADISE report
950420.01     done   GB Request PARADISE report
950421.01     done   US Request PARADISE report
950422.01     done   US Request PARADISE report
950423.01     done   US Request PARADISE report
```

```
950424.01    done    GB RFI about technology transfer to/investment in CN
950425.01    done    CA Request PARADISE report and previous reports
950425.02    pend    RO Request to join NameFLOW-Paradise Directory
950426.01    done    IN Help with QUIPU log-file errors
950426.02    done    FR RFI about joining NameFLOW-Paradise Directory
950426.03    done    US Request PARADISE report
950427.01    done    GB RFI about NameFLOW-Paradise
950427.02    done    DE Request PARADISE report
950427.03    done    GB Request for an email address in GB
950427.04    done    US Request PARADISE report
950428.01    done    US Request contact details of US country manager


Notes
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950404.01 : awaiting postal address.
950412.03 : awaiting further details.
950425.02 : awaiting approval from DANTE's country contact.


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

APPENDIX 2 - World Root DSA summary stat's for April 1995

Summary of calls to DSA
>From 5:35:49 on 31 mar to 5:31:30 on 30 apr

```
No. of binds                       local   remote

Anonymous                              0      446
Unauth name DAP                     2386     6729
Unauth name DSP                        0     7040
Simple                                 3     1377
Protected                              0        0


No. of operations
Reads                                607     6664
Compares                               0      331
Lists                                  2      536
Searches                              23   116874
Modifies                               0       13
ModifyRDNs                             0        0
Adds                                   0        7
GetEDBs                                         99


System usage (calls received)

Binds by Directory technicians             10742
Reads of DSA entries                         924
```

```
Other ops on DSA entries                      232
Getedb operations                              99
Spot shadows                                  692
```

APPENDIX 3 - World Root DUA summary stat's for April 1995

Calls to the Directory Service - April 1995

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         190           56      22        20479      20747
de            0            0      42          173        215
testdua       0            0       0            6          6
                                                       -----
                                                       20968
                                                       -----
```

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UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M1

Monthly Report May 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

   The NameFLOW-Paradise Directory services ran satisfactorily during May, with no major problems.

   The following operational activities are noted:

   ❍ The DSA Giant Tortoise has been configured to accept DAP/DSP binds only from a given list of Distinguished Names.
   ❍ The DUA machine, fortnum, now collects full hostnames for telnet connections using "TCP wrappers", and it is intended that a summary of these by top-level domain (uk, nl, edu, etc.) will be included in future reports.
   ❍ At DANTE's request, four FLDSA managers were asked to remove the "photo" attributes from their DSA entries; so far two have complied.
   ❍ Slave-update on both DSAs is now done at scheduled times by a cron job, rather than by having "update on" set in quiputailor. Giant Tortoise slaves at 2AM, 8AM, 2PM, and 8PM; Ocellated Turkey slaves at 12.10PM and 12.10AM.
   ❍ Some effort went into preparing a count of the DIT.

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

2. OUTAGES

   Thu May 4 13:55 - 14:20 (25mins)
   DSA Ocellated Turkey unavailable, unkillable process, reboot required

   Mon May 8 14:45 - 18:45 (4hrs)
   All services unavailable, external power failure

   Thu May 11 18:14 - Fri May 12 09:30 (15hrs 15mins)
   DSA Ocellated Turkey unavailable, unkillable process, reboot required

   Sun May 28 12:00 - Tue May 30 09:35 (45hrs 35mins)
   DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; Mon May 29 was a holiday

3. ISSUES

   It has been noted by DANTE that the DSA operations statistics produced in the past contain unusually low figures for Getedb operations. It has been discovered that this stems from a development of QUIPU which was not reflected in the statistics summary tool, dsastats. At some point QUIPU was enhanced to allow Getedb operations to proceed in stages, rather than transferring an EDB as a single operation. These stages are logged as "Getedb slice" operations, rather than as Getedb operations. The figures produced by dsastats for Getedb operations count only full EDB transfers, presumably to DSAs running very old versions of QUIPU.

This problem has been reported to NEXOR support, and to Paul Barker. The response from NEXOR is that the logging file has changed for MessageWare Directory Server, and the dsastats tool will be changed accordingly. Paul Barker says he is waiting on a UKERNA contract to do some work, and fixing dsastats could come under that.

In the meantime, a count of the "Getedb slice" operations has been added to the DSA statistics by hand. This practice will continue for future reports, and the on-line summary files on the info-server for previous months have been similarly modified.

4. STATISTICS

A summary of the root DSA statistics is attached in the Appendices. Full DSA statistics and hourly figures are available on the NameFLOW-Paradise info- server, under:

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

DUA statistics are also held on the info-server and a summary is included in the Appendices, along with a summary of LDAP usage.

This report sees the introduction of statistics on the usage of the info- server itself. The FTP, Gopher, and mail servers all now log information of varying levels of detail and usefulness. The FTP log, from the Washington University FTP daemon installed in April, has been processed using the xferstats tool. The Gopher and Mail logs have been processed using simple locally-written tools. Summaries of these statistics are included in the Appendices, while more detailed statistics are available from the info-server, as files:

```
FTP-xferstats.May95
GOPHER-usage.May95
MAIL-usage.May95
```

Gopher statistics for March and April are also on the info-server; these are the earliest months for which full data are available. Figures on earlier mail-server usage can be produced if required. FTP logs for earlier months are not available.

5. APPENDICES

Helpdesk ticket list for this month.

DSA summary statistics for this month.

DUA/LDAP summary statistics for this month.

FTP/Gopher/mail info-server summary statistics for this month.

APPENDIX 1 - Helpdesk ticket list for May 1995

NameFLOW-Paradise Helpdesk queries for : May 1995

```
Reference    Status        Keywords
-----------------------------------------------------------------------
950501.01    done          GB RFI about NameFLOW-Paradise
950502.01    done          JP RFI about NameFLOW-Paradise
950505.01    done          GB RFI about NameFLOW-Paradise
950505.02    done          GB Request for an email address in AU
950509.01    done          GB Request for "telnet address" in GB
950510.01    done          GB RFI about NameFLOW-Paradise
950511.01    done          GB Help with finding "telnet/PAD" addresses in GB
950512.01    done          GB Help with finding email addresses in GB
950513.01    done          FI Request PARADISE report
950517.01    done          BE Help with adding/modifying Directory entry
950517.02    done          CA Help with finding an email address in CA
950518.01    done          GB Help with public-access DUA & email addresses in US
950519.01    done          US RFI about NameFLOW-Paradise
950520.01    done          CN RFI about NameFLOW-Paradise
950520.02    done          KR Request for email addresses worldwide
950520.03    done          US Help with public-access DUA
950523.01    done          DE Request for an email address in GB
950524.01    done          CN Request PARADISE report
950524.02    done          GB Request PARADISE report
950524.03    done          US Help with finding an email address in GB
950525.01    done          US Problem with site & help with email address in GB
950525.02    done          IN Notification of change of country manager
950526.01    done          BR RFI about gopher/Directory gateway
950529.01    done          CN RFI about NameFLOW-Paradise


Notes

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

APPENDIX 2 - World Root DSA summary statistics for May 1995

Summary of calls to DSA
>From 5:37:40 on 30 apr to 5:23:52 on 31 may

```
No. of binds                           local   remote

Anonymous                                  0       65
Unauth name DAP                         3413     5960
Unauth name DSP                            0     4445
Simple                                   136     1361
Protected                                  0        0


No. of operations
Reads                                    692     2902
Compares                                   0      343
Lists                                      7      369
Searches                                  40    76366
Modifies                                   2        2
ModifyRDNs                                 0        0
Adds                                       0        2
```

```
GetEDBs                                          0 ( + 51514 slices)


System usage (calls received)


Binds by Directory technicians            11016
Reads of DSA entries                        410
Other ops on DSA entries                     32
Getedb operations                             0 ( + 51514 slices)
Spot shadows                                299
```

APPENDIX 3 - Public DUA/LDAP summary statistics for May 1995

DUA usage

Calls to the Directory Service - May 1995

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         279           52     14        15454     15799
de            0            0     23          208       231
testdua       0            0      0           18        18
                                                     -----
                                                     16048
                                                     -----
```

LDAP usage

LDAP usage from May 3 1995 to May 30 1995

```
Connections:               31
Total connect time:     51676 seconds (14 hrs 21 mins 16 secs)
```

Connections by domain

```
Domain       Connections
----------   -----------
uk                    11
net                    9
unresolved             8
edu                    3
----------   -----------
Total                 31
```


APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for May 1995

FTP server

```
TOTALS FOR SUMMARY PERIOD Tue May  2 1995 TO Wed May 31 1995

Files Transmitted During Summary Period           1017
Bytes Transmitted During Summary Period       93826508
Systems Using Archives                               0

Average Files Transmitted Daily                     34
Average Bytes Transmitted Daily                3127550
```

Gopher server

```
Gopher usage from Mon May 1 1995 to Wed May 31 1995

Total connections:          91
Total files retrieved:     101
```

Mail server

```
Mail-server usage from May 2 1995 to May 23 1995

Copies of help sent:         7
Total files retrieved:       2
----------------------  -----
Total requests:              9
```

Back to [DANTE|NameFLOW|reports]

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M2

Monthly Report June 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during June, with no major problems during prime-time.

The following operational activities are noted:

- c=KR has been taken over by a new DSA, cn=Dragon.

- Looking at the list of rejected binds on the DSA Giant Tortoise, the four most common culprits each had more than 100 rejections. The appropriate DSA manager or postmaster was contacted to alert them to the restrictions on access to Giant Tortoise. Only one responded, with the information that his was a test DSA and not operational.

- Some preparatory work has been done on the info-server to free-up disk space prior to attempting to mirror files from SURFnet. The PARADISE/QUIPU source files and documentation have been recompressed using GNU zip rather than UNIX compress, gaining 6Mb. The WU-FTP server has been configured to perform on-the-fly compression, uncompression, and conversion from .gz to .Z.

- While trying to understand why the Gopher server was not uncompressing the original .Z files, and with the intention of allowing it to work with .gz files, version 2.1.3 of Gopher was installed and configured. Unfortunately this contained a bug which had to be diagnosed and fixed. As it turns out, the Gopher server requires access to a UNIX shell to perform decompression, which we prefer not to make available in the FTP area. Neither are we prepared to rewrite the server to avoid use of a shell, if that is possible. Therefore it has been set up simply to deliver the compressed files as-is.

- Various shell scripts have been written to provide more summary statistics in these reports.

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

2. OUTAGES

Sun June 4 08:16 - Mon June 5 09:20 (25hrs 4mins)
> Public-access DUA unavailable, incoming telnet sessions rejected due to inetd problem caused by repeated bad telnet connections from a US host; required a reboot to clear. The postmaster at the US host was contacted, but was unable to shed any light on the problem.

Sat June 17 18:00 - Mon June 19 09:30 (39hrs 30mins)
> DSA Ocellated Turkey unavailable, unkillable QUIPU process; reboot required

Tue June 20 08:00 - 10:00 (2hrs)
> All services unavailable, scheduled power-down for UPS installation

Tue June 27 08:00 - 10:00 (2hrs)
> All services "at risk", scheduled JANET network update

Fri June 30 12:15 - 13:03 (48mins)
> DSA Giant Tortoise unavailable, stuck TCP port; intervention required to free the TCP port and restart the DSA

3. ISSUES

Progress with the 93 pilot is hindered by delays in the delivery of software.

Organisations in Argentina, China, and Mexico have expressed an interest in joining the NameFLOW-Paradise Directory at the top level. As yet nothing concrete has come of this. The organisation in Argentina -- the University of Buenos Aires -- has previously contacted the PARADISE helpdesk in December 1993, but there seems to have been no progress made at that time.

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/

This is the first report in which statistics on telnet connections to the public-access DUA host, fortnum, are provided. These are included with the DUA usage statistics, and give a breakdown of connections and DUA logins to the machine by top-level domain (.uk, .nl, .edu, etc). Only the top ten domains are included in the report -- full figures are available on the info-server. The data are gathered using "TCP wrappers" to collect the full DNS hostnames of the originating machines. These are then used, where possible, to extend any truncated names in the login history file (wtmp) to their full form.

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

- DSA/stats.Giant-Tortoise.Jun95
- ldap/usage.Jun95
- DUA/usage.Jun95
- ftp/xferstats.Jun95
- gopher /usage.Jun95
- mail/usage.Jun95
- DSA/operations/ops-hourly.Giant-Tortoise.Jun95
- DSA/operations/ops-summary.Giant-Tortoise.Jun95

5. APPENDICES

APPENDIX 1 - Helpdesk ticket list for June 1995

NameFLOW-Paradise Helpdesk queries for : June 1995

```
------------------------------------------------------------------
Reference        Status   Keywords
------------------------------------------------------------------
950601.01        done     GB RFI about public DUA & request PARADISE report
950601.02        done     MX Request PARADISE report
950601.03        done     US RFI about connecting to the Directory
950605.01        done     KR Change of FLDSA/contact details & QUIPU help
950607.01        done     CN RFI about building a Directory & DSA/DUA sources
950608.01        done     GB Help with finding email addresses in GB
950608.02        done     GB Request for an email address in US
950608.03        done     US Help with finding an email address in IT/GB/??
950609.01        done     GB Request for email addresses of universities in SE
950610.01        done     AU Request addition of slaveDSA to c=KR
950610.02        done     GB Help with public-access DUA
950610.03        done     US Help with finding an email address in US
950614.01        pend     MX Request to join NameFLOW & help with QUIPU/ISODE
950615.01        done     US Request for US FLDSA/contact details
950617.01        done     EG Request for an email address in GB
950617.02        pend     AR Request to join NameFLOW-Paradise
950619.01        done     MX Help with addressing/naming for the Directory
950620.01        done     US RFI about NameFLOW-Paradise
950622.01        done     DE Request PARADISE report
950623.01        done     US Help with DSA configuration
950623.02        done     GB Request PARADISE report
950623.03        done     US Help with public-access DUA w.r.t. US Government
950626.01        done     FR Request PARADISE report
950627.01        done     MX Request for non-PostScript QUIPU/PARADISE docs
950628.01        done     GB Request PARADISE report
950629.01        done     GB RFI about NameFLOW-Paradise
950630.01        done     US Request explanation of QUIPU behaviour
950630.02        done     MX Help with QUIPU problem
950630.03        done     CL Request for CL FLDSA/contact details
```

Notes

```
-----

950614.01 : awaiting further details.
950617.02 : awaiting further details.


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

APPENDIX 2 - World Root DSA and LDAP summary statistics for June 1995

Summary of calls to DSA Giant Tortoise

>From 5:33:18 on 31 may to 5:29:26 on 30 jun

```
No. of binds                       local   remote

Anonymous                              0       76
Unauth name DAP                     3669     5620
Unauth name DSP                        0     4170
Simple                               129     1379
Protected                              0        0

No. of operations
Reads                                671     2344
Compares                               0      542
Lists                                  0      318
Searches                              26    63683
Modifies                               0       46
ModifyRDNs                             0        1
Adds                                   0        1
GetEDBs                                         0 ( + 51891 slices)

System usage (calls received)

Binds by Directory technicians           11246
Reads of DSA entries                       359
Other ops on DSA entries                    43
Getedb operations                            0 ( + 51891 slices)
Spot shadows                               120
```

LDAP usage

```
LDAP usage from Jun 8 1995 to Jun 26 1995

Connections:                  20
Total connect time:         8279 seconds (2 hrs 17 mins 59 secs)
```

```
Connections by domain

Domain          Connections
-----------     -----------
uk                       13
unresolved                5
org                       1
edu                       1
-----------     -----------
Total                    20
```

APPENDIX 3 - Public DUA/Telnet summary statistics for June 1995

DUA usage

Calls to the Directory Service - June 1995

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         160           53      4       11339    11556
de            0            0     22         140      162
testdua       0            0      0          16       16
                                                   -----
                                                   11734
                                                   -----
```

TELNET connections

Telnet connections and DUA logins from Jun 1 1995 to Jun 30 1995

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

```
Connections:        22751           Logins:        11495

Top ten connections by domain      Top ten DUA logins by domain

Domain          Connections        Domain          Logins
-----------     -----------        -----------     ------
edu                    8571        edu               4960
unresolved             3214        uk                1300
```

```
com                 3133        unresolved      1211
uk                  2797        com              973
net                  804        net              471
ca                   730        ca               431
us                   482        us               317
gov                  424        gov              235
org                  344        org              221
au                   256        nl               160
----------- -----------        ----------- ------
Total               20755       Total           10279
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for June 1995

FTP server

TOTALS FOR SUMMARY PERIOD Thu Jun 1 1995 TO Fri Jun 30 1995

```
Files Transmitted During Summary Period          1182
Bytes Transmitted During Summary Period     139827776
Systems Using Archives                              0

Average Files Transmitted Daily                    39
Average Bytes Transmitted Daily              4660926
```

Gopher server

Gopher usage from Thu Jun 1 1995 to Fri Jun 30 1995

```
Total connections:          65
Total files retrieved:     133
```

Mail server

Mail-server usage from Jun 9 1995 to Jun 27 1995

```
Copies of help sent:         4
Total files retrieved:       8
---------------------- -----
Total requests:             12
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M3

Monthly Report July 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

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

The following operational activities are noted:

- As part of the pilot to transition the NameFLOW-Paradise Directory Service to use software compliant to X.500(93) standards, NEXOR Ltd have supplied version 0.9 of Messageware Directory Server, together with a time-limited licence. This will be used to provide DISP replication of the "root context knowledge". Preliminary installation and configuration has been completed.

- At DANTE's request, the statistics area on the info-server was reorganised, and statistics for DANTE's web server were included. This activity was in fact deliberately delayed until the start of August. Also, back-dated DUA statistics were produced, along with revised DSA statistics.

- It was noticed that one of the FLDSAs, cn=Axolotl, was missing the mandatory quipuVersion attribute. As a result, Giant Tortoise refused to spot-shadow the entry. The manager for Axolotl was contacted to fix the problem.

The Helpdesk service was somewhat disrupted this month due to hardware problems on a workstation used by the support staff. The faulty hardware was replaced. A summary of the Helpdesk tickets is attached in the Appendices.

2. OUTAGES

Tue July 4 08:00 - 10:00 (2hrs)
> All services "at risk", scheduled JANET network update

Thu July 6 03:21 - 10:02 (6hrs 41mins)
> Public-access DUA unavailable, incoming telnet sessions rejected due to inetd problem caused by repeated bad telnet connections from a CA host. A reboot cleared the initial problem, but since the CA host was still trying to connect, a block was put in the upstream IP router. The network contact for the domain was informed, but could not help.

Fri July 7 03:41 - 09:55 (6hrs 14mins)
> DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; reboot required

Thu July 13 12:26 - Mon July 17 09:27 (93hrs 1min)
> DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; reboot required

Fri July 14 12:06 - 15:03 (2hrs 57mins)
> DSA Ocellated Turkey unavailable, stuck TCP port; intervention required to free the TCP port and restart the DSA

Thu July 20 16:04 - 16:35 (31mins)
> DSA Giant Tortoise unavailable, stuck QUIPU process; intervened before monitor job fixed the problem

Fri July 21 14:11 - 15:16 (1hr 5mins)
> DSA Ocellated Turkey unavailable, stuck QUIPU process; automatically restarted

Fri July 21 14:28 - 15:18 (50mins)
> DSA Giant Tortoise unavailable, stuck QUIPU process; automatically restarted

Thu July 27 08:27 - 09:20 (53mins)
> DSA Giant Tortoise unavailable, stuck QUIPU process; automatically restarted

3. ISSUES

This month saw one severe and one minor outage due to a problem first noticed in May, which is assumed to be caused by a memory leak in XT-QUIPU. The DSA process grows until it consumes all free memory on the machine. The CRON process dies the next time it wakes up, because it is unable to acquire memory. Eventually the DSA process itself dies, and is not restarted because, of course, the DSA monitor runs as a CRON job...

We intend to implement a "cross-machine" monitoring mechanism, where each DSA machine will regularly poll the other, and will alert staff if the DSA or CRON process is not present on the remote machine.

The outage caused by runaway TELNET requests is identical to an outage from June 5th, and suggests that there is some network or TELNET implementation problem -- both of the offending hosts run Linux. There is little we can do about this problem other than react when it happens.

Due to reorganisation of IP subnetworks/Ethernet segments at ULCC, in accordance with UKERNA security measures, there may be a need to change the IP addresses of the two NameFLOW-Paradise machines, and/or a requirement to alter the operation of the info server. This issue will be discussed with DANTE prior to such changes being made.

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.Jul95
- DSA/stats.Giant-Tortoise.Jul95
- ldap/usage.Jul95
- DUA/usage.Jul95
- ftp/xferstats.Jul95
- gopher/usage.Jul95
- mail/usage.Jul95
- web/usage-9507.html
- DSA/operations/ops-hourly.Giant-Tortoise.Jul95
- DSA/operations/ops-summary.Giant-Tortoise.Jul95

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 July 1995

NameFLOW-Paradise Helpdesk queries for : July 1995

```
----------------------------------------------------------------
Reference       Status  Keywords
----------------------------------------------------------------
950703.01       done    US Request PARADISE report
950703.02       done    GB RFI about access/connecting to NameFLOW-Paradise
950703.03       done    GB Help with public-access DUA
950705.01       done    US Request for email addresses in FR and CH
950707.01       pend    CN RFI about email
950707.02       done    US Request PARADISE report
950707.03       done    US Request PARADISE report
950707.04       pend    AR "Help"
950708.01       done    SG Help with finding an email address in GB
950709.01       done    US Help with converting an IP address to a DNS name
950710.01       done    NL Query about presence of organisation in Directory
950710.02       done    CZ Request change of FLDSA presentation address
950710.03       done    GB Request for an email address in GB
950710.04       done    CA Help with finding an email address in GB
950711.01       done    AU Request PARADISE report
950713.01       done    US Request for address of WWW server in US
950714.01       done    US Help with finding an email address in US
950715.01       done    NO Request changes to c=NO entry
950716.01       done    US Request PARADISE report
```

```
950718.01        done      EG Request PARADISE report
950718.02        done      GB Request PARADISE report
950718.03        done      PK Request PARADISE report
950719.01        done      MX Help with QUIPU
950720.01        done      GB Request PARADISE report
950722.01        done      US Request to send an email message
950725.01        done      KR Request changes to c=KR & help with DSA
950725.02        done      GB Help with public-access DUA
950725.03        done      GB RFI about NameFLOW-Paradise
950726.01        done      US Help with use of the Directory
950726.02        done      NL Query about DUA recognising "CR" as Croatia
950727.01        done      PK Request PARADISE report
950728.01        done      AU Help with finding email addresses
950728.02        done      IN Request to remove name from MANAGERS list
950728.03        done      ZA Request PARADISE report
950729.01        done      MY RFI about NameFLOW-Paradise
950730.01        done      DE RFI about organisations in the Directory in US


Notes
-----

950707.01 : awaiting clarification.
950707.04 : awaiting clarification.

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for July 1995

Summary of calls to DSA Giant Tortoise

>From 5:43:58 on 30 jun to 5:33:25 on 31 jul

```
No. of binds                     local   remote

Anonymous                            0       30
Unauth name DAP                   3175     4749
Unauth name DSP                      0     4459
Simple                             133     1236
Protected                            0        0


No. of operations
Reads                              420     1714
Compares                             0      115
Lists                               11      250
Searches                            56    54591
Modifies                             0       15
ModifyRDNs                           0        0
```

```
Adds                                      0      1
GetEDBs                                          0 ( + 54224 slices)


System usage (calls received)


Binds by Directory technicians          9562
Reads of DSA entries                     259
Other ops on DSA entries                  26
Getedb operations                          0 ( + 54224 slices)
Spot shadows                              66
```

LDAP usage

```
LDAP usage from Jul 2 1995 to Jul 31 1995


Connections:                 26
Total connect time:        1622 seconds (0 hrs 27 mins 2 secs)



Connections by domain


Domain       Connections
----------- -----------
com                   14
uk                    12
----------- -----------
Total                 26
```

APPENDIX 3 - Public DUA/Telnet summary statistics for July 1995

DUA usage

Calls to the Directory Service - July 1995

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	63	39	24	11409	11535
de	0	0	16	104	120
testdua	0	0	0	2	2
					11657

TELNET connections

Telnet connections and DUA logins from Jul 1 1995 to Jul 31 1995

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

```
Connections:         21530           Logins:         11515

Top ten connections by domain      Top ten DUA logins by domain

Domain        Connections           Domain          Logins
-----------   -----------           -----------     ------
edu                  8670           edu               5038
unresolved           3049           unresolved        1300
net                  2669           uk                 999
uk                   1686           com                994
com                  1550           net                609
ca                    641           ca                 418
us                    423           us                 319
gov                   391           gov                230
org                   297           org                211
au                    229           nl                 142
-----------   -----------           -----------     ------
Total                19605          Total             10260
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for July 1995

FTP server

TOTALS FOR SUMMARY PERIOD Sat Jul 1 1995 TO Mon Jul 31 1995

```
Files Transmitted During Summary Period            1097
Bytes Transmitted During Summary Period        99341823
Systems Using Archives                                0

Average Files Transmitted Daily                      35
Average Bytes Transmitted Daily                 3204575
```

Gopher server

Gopher usage from Sat Jul 1 1995 to Mon Jul 31 1995

```
Total connections:          45
Total files retrieved:       72
```

Mail server

Mail-server usage from Jul 14 1995 to Jul 20 1995

```
Copies of help sent:          2
Total files retrieved:        0
----------------------  -----
Total requests:               2
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M3

Monthly Report August 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

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

The following operational activities are noted:

- Following on from last month, further work was carried out on the configuration of MDS for DISP replication.

- A "cross-machine" monitor was written and is now running (see July issues).

- In coordination with the country manager for c=AU, the DSA Giant Tortoise was removed as a slaveDSA for c=AU@o=DMD, and as a relayDSA for some DSAs under c=AU@o=DMD. These DSAs were then removed from the accept_prefix list on Giant Tortoise.

- It was noticed that the DSA Ocellated Turkey was registered as a slaveDSA for c=RU; this was removed.

- The WUFTP server was upgraded to version 2.4.

- Helpdesk staff contributed a section for the NameFLOW-Paradise Annual Report, and proof-read the draft report.

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

2. OUTAGES

Thu August 17 12:44 - 13:31 (47mins)
DSA Ocellated Turkey unavailable, stuck TCP port; intervention required to free the TCP port and restart the DSA

Sat August 26 02:02 - Mon August 28 13:23 (59hrs 21mins)
DSA Giant Tortoise unavailable, stuck TCP port; eventually cleared itself, possibly by reboot of machine at other end of connection; August 28 was a holiday in the UK

3. ISSUES

We have noticed a problem with the EDB for c=NZ that causes the DSA Ocellated Turkey to crash when trying to replicate this EDB. Details have been passed on to NEXOR support, and the c=NZ country manager has been informed. The problem appears to be some new and undefined object identifiers (oids) that have been added to an

entry in the EDB. While waiting for a solution, Ocellated Turkey has been reconfigured not to replicate c=NZ.

A different problem with the same results has long been the case with the c=IN EDB. This was put to one side for lack of time and facilities to properly investigate the situation, but this too has now been reported to NEXOR support, and to the c=IN country manager. This problem concerns null components (empty strings) in postalAddress attributes. Ocellated Turkey continues not to replicate c=IN.

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.Aug95
- DSA/stats.Giant-Tortoise.Aug95
- ldap/usage.Aug95
- DUA/usage.Aug95
- ftp/xferstats.Aug95
- gopher/usage.Aug95
- mail/usage.Aug95
- web/usage-9508.html
- DSA/operations/ops-hourly.Giant-Tortoise.Aug95
- DSA/operations/ops-summary.Giant-Tortoise.Aug95

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 August 1995

NameFLOW-Paradise Helpdesk queries for : August 1995

```
- --------------------------------------------------------------------
Reference        Status   Keywords
- --------------------------------------------------------------------
950801.01        pend     US Help with public-access DUA & request PARADISE repor
t
950803.01        done     US Request PARADISE report & general help
```

```
950808.01        done    US Help with email address problem in US
950808.02        done    US Request PARADISE report
950809.01        done    GB Problem with public DUA not contacting site DSA
950812.01        done    US Request change of listed email address
950814.01        done    GB Request PARADISE report
950816.01        done    US Help with finding an email address in US
950818.01        done    IT Request for email addresses in US
950824.01        done    GB Help with finding email addresses in ZA
950829.01        done    GB RFI about NameFLOW-Paradise
950829.02        done    GB Help with finding email addresses outside GB
950831.01        done    US Request PARADISE report


Notes
- -----

950801.01 : awaiting postal address

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for August 1995

Summary of calls to DSA Giant Tortoise

From 5:33:45 on 31 jul to 5:33:43 on 31 aug

```
No. of binds                      local   remote

Anonymous                             0       20
Unauth name DAP                    3767     5475
Unauth name DSP                       0     4190
Simple                              135     1306
Protected                             0        0


No. of operations
Reads                               559     5270
Compares                              0      260
Lists                                 2      292
Searches                             38    70457
Modifies                              0        6
ModifyRDNs                            0        0
Adds                                  0        0
GetEDBs                                        0 ( + 55330 slices)

System usage (calls received)

Binds by Directory technicians        10935
Reads of DSA entries                    228
Other ops on DSA entries                  8
Getedb operations                         0 ( + 55330 slices)
```

LDAP usage

```
LDAP usage from Aug 7 1995 to Aug 24 1995

Connections:                    30
Total connect time:       36334 seconds (10 hrs 5 mins 34 secs)


Connections by domain

Domain          Connections
- ----------- -----------
uk                  28
unresolved           1
edu                  1
- ----------- -----------
Total               30
```

APPENDIX 3 - Public DUA/Telnet summary statistics for August 1995

DUA usage

Calls to the Directory Service - August 1995

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	73	25	42	13841	13981
de	0	0	12	144	156
testdua	0	0	0	6	6
					14143

TELNET connections

Telnet connections and DUA logins from Aug 1 1995 to Aug 31 1995

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

```
Connections:        23666          Logins:        13991

Top ten connections by domain      Top ten DUA logins by domain


Domain        Connections          Domain        Logins
- ---------- -----------            ----------- ------
edu             12102              edu             7249
unresolved       3329              unresolved      1343
com              1747              com             1149
uk               1291              uk               871
net               989              net              623
ca                634              ca               436
us                424              us               309
mil               412              mil              276
gov               358              org              261
org               356              gov              243
- ---------- -----------            ----------- ------
Total            21642              Total          12760
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for August 1995

FTP server

TOTALS FOR SUMMARY PERIOD Tue Aug 1 1995 TO Thu Aug 31 1995

```
Files Transmitted During Summary Period            1249
Bytes Transmitted During Summary Period        101111402
Systems Using Archives                                0

Average Files Transmitted Daily                      40
Average Bytes Transmitted Daily               3261658
```

Gopher server

Gopher usage from Tue Aug 1 1995 to Wed Aug 30 1995

```
Total connections:        40
Total files retrieved:    76
```

Mail server

Mail-server usage from Aug 30 1995 to Aug 30 1995

```
Copies of help sent:         1
```

```
Total files retrieved:          4
- ----------------------  -----
Total requests:                 5
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service
Deliverable M3

Monthly Report September 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during September, with several major outages outside prime-time.

The following operational activities are noted:

- The problem with c=NZ mentioned in August issues has been resolved: the "unusual" OIDs were removed from the organisation entry, and the DSA Ocellated Turkey now replicates c=NZ again.

- Looking at the results from the root-level probe that ULCC runs, seven FLDSAs appeared to be uncontactable (Bear/RU, Chinchilla/CH, Dorcan Gazelle/IL, Guinea Pig/HU, Long Moustached Owl/HK, Saki/EE, and Woolly Spider Monkey/BE). The relevant country contacts were emailed to explore the problems. At the time of writing, Bear/Dorcan Gazelle/Saki are still outstanding.

- Helpdesk staff participated in the two-day NameFLOW-Paradise meeting, held at ULCC.

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

2. OUTAGES

Wed September 13 19:08 - 23:31 (4hrs 23mins)
    DSA Ocellated Turkey unavailable, stuck process; eventually cleared itself

Sun September 17 19:47 - 21:31 (1hr 44mins)
    DSA Ocellated Turkey unavailable, stuck process, followed by stuck TCP port; eventually cleared itself

Thu September 21 04:18 - 09:15 (4hrs 57mins)
    All services unavailable via Internet, IP router locked-up; router had to be power-cycled to clear problem

Sat September 30 09:08 - 23:59 (14hrs 51mins)
    DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; reboot required (this outage continued to October 2)

3. ISSUES

The problem with c=IN described in August issues is still outstanding. The country-manager for India will be contacted again and asked to fix the offending organisation entries.

In consultation with DANTE, it was decided that the required reorganisation of equipment at ULCC mentioned in July issues would be most easily addressed by moving both NameFLOW-Paradise computers to a different IP subnet. This will require changing the IP addresses of the machines, which will have to be done both in the Internet DNS, and in the Directory for the DSAs. This change will also have to be announced to FLDSA managers, since each FLDSA quiputailor will have the "parent" parameter set to Giant Tortoise. The change should not affect DSAs that are not FLDSAs, since even if they have "parent" set to Giant Tortoise, they would be unable to connect to it anyway after the May reconfiguration limiting access to authorised users. It is not known when this change will take place, since it depends on availability of router/hub hardware.

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.Sep95
- DSA/stats.Giant-Tortoise.Sep95
- ldap/usage.Sep95
- DUA/usage.Sep95
- ftp/xferstats.Sep95
- gopher/usage.Sep95
- mail/usage.Sep95
- web/usage-9509.html
- DSA/operations/ops-hourly.Giant-Tortoise.Sep95
- DSA/operations/ops-summary.Giant-Tortoise.Sep95

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 September 1995

NameFLOW-Paradise Helpdesk queries for : September 1995

```
--------------------------------------------------------------------
Reference       Status   Keywords
--------------------------------------------------------------------
950901.01       done     CN Request PARADISE report
```

```
950901.02         pend      AR Ongoing request to join NameFLOW-Paradise
950906.01         done      IT Request for email address in US
950906.02         done      GB Help with finding academic departments in GB
950906.03         done      GB Request PARADISE report, and other available info
950911.01         done      DZ RFI about email access to the Directory
950912.01         done      US Request PARADISE report
950912.02         done      US Help with finding an email address in US
950912.03         done      US Request PARADISE report
950913.01         done      GB Request PAARDISE report
950913.02         done      US Request PARADISE report
950915.01         done      US Help with finding email addresses in SG
950915.02         done      US RFI about NameFLOW-Paradise
950916.01         done      US Request for an email address in US
950917.01         done      CN Help with finding email addresses in US
950918.01         done      US Help with finding an email address in US
950918.02         done      GB Request contact details of DSA manager in GB
950920.01         done      BE Help to delete "invalid" entries under BE
950920.02         done      DE (via GB) Request addition to MANAGERS mailing-list
950921.01         done      IN Help with ISODE & request an email address in GB
950921.02         done      GB RFI about NameFLOW-Paradise
950921.03         done      US Help with finding an email address in US
950922.01         done      US Help with finding an email address in CN
950922.02         done      US Help with finding an email address in US
950925.01         done      US Help with finding an email address in US
950926.01         done      GB Help with finding an email address in TR
950926.02         done      AR Request for email addresses in CZ and JP
950927.01         done      US Help with gopher for White Pages
950930.01         done      ZA Help with access to a WWW server
950930.02         done      DZ Request PARADISE report
950930.03         done      IN Help with problem with files copied from FTP server
950930.04         done      IN Help to join Directory & info on related email lists
950930.05         done      US Request PARADISE report


Notes
-----

950901.02 : awaiting confirmation of requested changes.

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for September 1995

Summary of calls to DSA Giant Tortoise

From 5:45:07 on 31 aug to 5:31:31 on 30 sep

No. of binds	local	remote
Anonymous	0	102

```
Unauth name DAP                          3706      7165
Unauth name DSP                             1      4622
Simple                                    136      1343
Protected                                   0         0

No. of operations
Reads                                     691      3769
Compares                                    0       353
Lists                                       0       528
Searches                                   18    128436
Modifies                                    0         5
ModifyRDNs                                  0         0
Adds                                        0         0
GetEDBs                                              0 ( + 57503 slices)

System usage (calls received)

Binds by Directory technicians          12590
Reads of DSA entries                      236
Other ops on DSA entries                   15
Getedb operations                           0 ( + 57503 slices)
Spot shadows                               21
```

LDAP usage

```
LDAP usage from Sep 5 1995 to Sep 19 1995

Connections:              10
Total connect time:    11769 seconds (3 hrs 16 mins 9 secs)


Connections by domain

Domain        Connections
----------- -----------
uk                    8
unresolved            2
----------- -----------
Total                10
```

APPENDIX 3 - Public DUA/Telnet summary statistics for September 1995

DUA usage

Calls to the Directory Service - September 1995

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          68           37       13        24261      24379
de            0            0       30          160        190
testdua       0            0        0           17         17
                                                        -----
                                                        24586
                                                        -----
```

TELNET connections

Telnet connections and DUA logins from Sep 1 1995 to Sep 30 1995

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

```
Connections:       44900          Logins:        24441

Top ten connections by domain       Top ten DUA logins by domain

Domain       Connections            Domain       Logins
----------   -----------            ----------   ------
edu              28696              edu           15878
unresolved        6782              unresolved     2497
uk                1673              uk             1186
ca                1446              com             934
com               1432              ca              875
net               1120              net             686
us                 581              us              379
org                385              org             278
mil                314              mil             215
gov                302              nl              193
----------   -----------            ----------   ------
Total            42731              Total         23121
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for September 1995

FTP server

TOTALS FOR SUMMARY PERIOD Fri Sep 1 1995 TO Sat Sep 30 1995

```
Files Transmitted During Summary Period          1219
Bytes Transmitted During Summary Period     127483321
Systems Using Archives                              0
```

```
Average Files Transmitted Daily                     41
Average Bytes Transmitted Daily              4249444
```

Gopher server

Gopher usage from Fri Sep 1 1995 to Sat Sep 30 1995

```
Total connections:        43
Total files retrieved:    74
```

Mail server

Mail-server usage from Sep 26 1995 to Sep 30 1995

```
Copies of help sent:       3
Total files retrieved:     0
----------------------  -----
Total requests:            3
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service

Monthly Report October 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during October, with several major outages outside prime-time.

The following operational activities are noted:

- Argentina (c=AR) finally joined the NameFLOW-Paradise Directory, with masterDSA cn=Gorrion.

- The messages displayed by the public-access DUA server at login and logout were changed to announce that the DUA will be withdrawn in January 1996. That decision was made at the NameFLOW-Paradise meeting in September. The logout message includes pointers to some other public-access DUAs, and the URL for the list of public Directory interfaces maintained on DANTE's web server. The specific access points mentioned in the message were chosen with reference to the domain usage statistics of the NameFLOW-Paradise service (as in Appendix 3).

- In cooperation with DANTE and FLDSA managers, the Directory entry for each country was modified to include a labeledURI attribute pointing at a suitable web page for that country. Storing URLs/URIs in the Directory is the subject of a current Internet Draft.

- The presentationAddress of the FLDSA cn=Guinea Pig (master DSA for c=HU), was found to have been changed without Giant Tortoise having had a chance to pick up the new address. The DSA entry on Giant Tortoise was manually updated.

- A discrepancy in Quipu's use of the dspchaining tailor parameter was noted, between the default behaviour described in the reference manual and that exhibited by the DSA. This difference was pointed out to FLDSA managers, since it might significantly affect the performance and availability of FLDSAs.

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

2. OUTAGES

Sun October 1 00:00 - Mon October 2 10:04 (34hrs 4mins)
    DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; reboot required (this outage started September 30)

Fri October 6 19:36 - 21:01 (1hr 25mins)
    DSA Ocellated Turkey unavailable, stuck Quipu process; automatically restarted

Sat October 14 15:43 - Mon October 16 09:30 (41hrs 47mins)
    DSA Giant Tortoise unavailable, crashed process; also cron crashed, so DSA monitor failed to run; reboot required

Mon October 16 15:50 - 16:23 (33mins)
   DSA Ocellated Turkey unavailable, unkillable Quipu process; reboot required

Fri October 20 16:04 - 16:34 (30mins)
   DSA Ocellated Turkey unavailable, unkillable Quipu process; reboot required

Tue October 24 08:00 - 10:00 (2hrs)
   All services "at risk", scheduled JANET IP-router resilience testing

Wed October 25 08:23 - 08:54 (31mins)
   DSA Giant Tortoise unavailable, blocked connection; automatically restarted

Wed October 25 14:45 - 15:19 (34mins)
   DSA Giant Tortoise unavailable, stuck Quipu process; manually restarted

3. ISSUES

The problem with c=IN that has been ongoing for some time has still not conclusively been addressed. The country-manager has responded to requests to change the erroneous entries; unfortunately, Giant Tortoise has been unable to contact cn=Pelican since then, to perform a slave update.

Following on from the September report, to date there has been no response from the managers of the FLDSAs Dorcan Gazelle (c=IL) and Saki (c=EE), with regard to the availability of the DSAs. Saki appears to be simply unavailable; Dorcan Gazelle seems to be running on a machine behind a firewall router which blocks access to the DSA TCP port 17003. The managers have been e-mailed again.

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.Oct95
- DSA/stats.Giant-Tortoise.Oct95
- ldap/usage.Oct95
- DUA/usage.Oct95
- ftp/xferstats.Oct95
- gopher/usage.Oct95
- mail/usage.Oct95
- web/usage-9510.html
- DSA/operations/ops-hourly.Giant-Tortoise.Oct95
- DSA/operations/ops-summary.Giant-Tortoise.Oct95

5. APPENDICES

APPENDIX 1 - Helpdesk ticket list for October 1995

NameFLOW-Paradise Helpdesk queries for : October 1995

```
-------------------------------------------------------------------
Reference        Status   Keywords
-------------------------------------------------------------------
951001.01        done     MO Request for an email address in GB
951002.01        done     AR Ongoing request to join NameFLOW-Paradise
951003.01        done     GB RFI about NameFLOW-Paradise & change country URI
951003.02        done     DE Help with use of Directory in Project Long Bud
951003.03        done     US Help with finding an email address in US
951004.01        done     CN Request for list of email addresses in subject area
951004.02        done     GB Request for an email address in GB
951005.01        done     AU Request to add cn=Bush Dog as a slaveDSA to c=AR
951005.02        done     GB Help with finding an email address in GB
951005.03        done     US Request for an email address in IE
951005.04        done     AR Help with Quipu tailoring
951006.01        done     IN Help with use of NameFLOW-Paradise
951008.01        done     US Help with finding people
951009.01        done     GB Request for an email address in PK
951009.02        pend     GB Request PARADISE report
951010.01        done     GB RFI about alternative public-access points
951010.02        done     GB Request PARADISE report
951010.03        done     US Request PARADISE report
951010.04        done     US Help with finding an email address in GB
951010.05        done     US RFI about finding Internet users
951011.01        done     GB Help with getting hold of Quipu
951011.02        done     SK Help with Quipu problems
951012.01        done     GB Help with finding addresses in CY and GR
951013.01        done     IT Request for list of email addresses in US
951013.02        done     US Help with finding an email address in US
951016.01        done     GB Help with finding email addresses in LK
951016.02        done     US Help with finding someone
951017.01        done     GB Request for email addresses in GB
951017.02        done     US Help with finding an email address in GB
951018.01        done     KR Request change of attributes of c=KR
951018.02        done     TW RFI about aspects of running a DSA
951018.03        done     US Help with finding an email address in DE
951020.01        done     BR RFI about Directory schema
951020.02        done     AR Help with Quipu & RFI about entry "templates"
951023.01        done     BR RFI about defining and publishing schema extensions
951024.01        done     GB Help with finding email/phone numbers in KE and UG
951024.02        done     US Help with finding email addresses & general help
```

```
951026.01       done    IE Request for an email address in GB
951026.02       done    CA Help with finding an email address in GB
951026.03       done    US Help with finding a telephone number
951028.01       done    US RFI about NameFLOW-Paradise
951030.01       done    GB RFI about future of NameFLOW-Paradise public access



Notes
-----

951002.01 : this completes pending tickets 950617.02 and 950901.02.
951009.02 : awaiting postal address.

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for October 1995

Summary of calls to DSA Giant Tortoise

From 5:35:38 on 30 sep to 5:34:34 on 31 oct

```
No. of binds                       local   remote

Anonymous                              0       45
Unauth name DAP                     3398     5194
Unauth name DSP                        0     4983
Simple                               122     1248
Protected                              0        0

No. of operations
Reads                                604     2879
Compares                               0      230
Lists                                  0      372
Searches                              16   100733
Modifies                              39       16
ModifyRDNs                             0        0
Adds                                   0        8
GetEDBs                                        0 ( + 56624 slices)

System usage (calls received)

Binds by Directory technicians             10201
Reads of DSA entries                         284
Other ops on DSA entries                      16
Getedb operations                              0 ( + 56624 slices)
Spot shadows                                  24
```

LDAP usage

```
LDAP usage from Oct 6 1995 to Oct 28 1995

Connections:                    36
Total connect time:       16263 seconds (4 hrs 31 mins 3 secs)


Connections by domain

Domain       Connections
----------- -----------
uk                    36
----------- -----------
Total                 36
```

APPENDIX 3 - Public DUA/Telnet summary statistics for October 1995

DUA usage

Calls to the Directory Service - October 1995

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        200          4        6       21914     22124
de           0          0       47         207       254
testdua      0          0        0          26
26
-----
22404                                                 -----
```

TELNET connections

Telnet connections and DUA logins from Oct 1 1995 to Oct 31 1995

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

```
Connections:       46614            Logins:        22152

Top ten connections by domain      Top ten DUA logins by domain

Domain       Connections           Domain        Logins
```

```
---------- ----------          ---------- ------
edu              26352         edu             12236
unresolved        6499         uk               3486
uk                5482         unresolved       1887
ca                1673         com               908
com               1571         ca                822
net                903         net               476
us                 651         us                384
org                393         org               256
nl                 317         nl                219
gov                258         gov               144
---------- ----------          ---------- ------
Total            44099         Total           20818
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for October 1995

FTP server

TOTALS FOR SUMMARY PERIOD Sun Oct 1 1995 TO Tue Oct 31 1995

```
Files Transmitted During Summary Period          1149
Bytes Transmitted During Summary Period     125021591
Systems Using Archives                              0

Average Files Transmitted Daily                    37
Average Bytes Transmitted Daily               4032955
```

Gopher server

Gopher usage from Sun Oct 1 1995 to Mon Oct 30 1995

```
Total connections:        48
Total files retrieved:    80
```

Mail server

Mail-server usage from Oct 11 1995 to Oct 30 1995

```
Copies of help sent:      3
Total files retrieved:    2---------------------  -----
Total requests:           5
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service

Monthly Report November 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during November, with several major outages outside prime-time. There was an extended problem with X.25, covering most of October and November.

The following operational activities are noted:

- An experimental FLDSA, cn=Giant Panda, was registered. This is managed by a researcher at Northeastern University in China, who is looking into the possibilities of running X.500 services in CERNET, the China Education and Research Network. As will be seen from the helpdesk summary in appendix 1, significant help was given during the month. This included building a plain text version of the ISODE manuals, which is now available on the FTP server.

- The FLDSA for c=IL, cn=Dorcan Gazelle, is now available again (see October issues). With no response forthcoming from the DSA manager, the DNS hostmaster at the site was contacted. The router block on TCP port 17003 was removed the same day.

- A request from the c=SG country-manager to add a new FLDSA, cn=Arowana, was deferred until some testing could be done. This DSA will be a slave for c=SG, which is using the "non-standard" attribute type sectorName in its Relative Distinguished Names.

- X.29 terminal access to Giant Tortoise's machine was disabled, as there is no requirement for this.

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

2. OUTAGES

Wed November 1 18:03 - 18:42 (39mins)
    DSA Ocellated Turkey unavailable, unkillable Quipu process; reboot required

Tue November 7 09:07 - 09:38 (31mins)
    All services unavailable for some or all of this period, scheduled downtime; replacing ThinWire Ethernet cabling with unshielded twisted pair (UTP) hubs

Tue November 7 14:32 - 15:50 (1hr 18mins)
    DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Wed November 8 02:02 - 03:19 (1hr 17mins)
    DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Thu November 9 10:42 - 11:16 (34mins)
    DSA Ocellated Turkey unavailable, stuck Quipu process; manually restarted

Fri November 10 14:19 - 15:20 (1hr 1min)
  DSA Giant Tortoise and ftp/gopher servers unavailable, disk problem; required machine powered off and on

Sat November 11 07:38 - Mon November 13 09:42 (50hrs 4mins)
  DSA Ocellated Turkey and public-access DUA unavailable, kernel memory problem; reboot required

Thu November 16 17:53 - 18:31 (38mins)
  DSA Ocellated Turkey unavailable, stuck Quipu process; manually restarted

Mon November 20 19:04 - 20:16 (1hr 12mins)
  DSA Ocellated Turkey unavailable, stuck Quipu process; automatically restarted

Tue November 21 08:00 - 10:00 (2hrs)
  All services "at risk", scheduled downtime; installation of UPS for IP-routers etc

Wed November 22 06:33 - 09:51 (3hrs 18mins)
  DSA Ocellated Turkey unavailable, stuck TCP port; manually restarted

Wed November 22 16:42 - 17:28 (46mins)
  DSA Ocellated Turkey unavailable, unkillable Quipu process; reboot required

Thu November 30 17:32 - 18:05 (33mins)
  DSA Giant Tortoise unavailable, stuck TCP ports; reboot required

In addition, there was a problem with a port on the X.25 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 18:00 on Tuesday October 3 until 09:40 on Monday November 20. Access to the public DUA over these networks was also prevented, and this is reflected in the EuropaNET/PSS usage statistics for October and November (appendix 3).

3. ISSUES

There has been no resolution of the problems of accessibility of the FLDSAs cn=Pelican (c=IN), and cn=Saki (c=EE). The respective managers have been e-mailed several times, to no avail. Pelican has not been contactable since October 18, while Giant Tortoise was last able to contact Saki in April.

There is a question mark over the requirement to provide EuropaNET X.25 access to and from the first level DSAs.

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.Nov95

- [DSA/stats.Giant-Tortoise.Nov95](#)
- [ldap/usage.Nov95](#)
- [DUA/usage.Nov95](#)
- [ftp/xferstats.Nov95](#)
- [gopher/usage.Nov95](#)
- [mail/usage.Nov95](#)
- [web/usage-9511.html](#)
- [DSA/operations/ops-hourly.Giant-Tortoise.Nov95](#)
- [DSA/operations/ops-summary.Giant-Tortoise.Nov95](#)

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 November 1995

NameFLOW-Paradise Helpdesk queries for : November 1995

```
-----------------------------------------------------------------
Reference       Status   Keywords
-----------------------------------------------------------------
951101.01       done     CN Help with installing ISODE 8.0
951102.01       done     GB Request change of email address on FORUM list
951102.02       done     CN Help with configuring Quipu 8.0
951103.01       done     GB RFI about coverage of NameFLOW-Paradise
951103.02       done     CN Request for ISODE documentation in text & help with
                            DISH problem & DSP access to NameFLOW-Paradise
951107.01       done     ZA Help with finding an email address in GB
951107.02       done     GB Help with finding an email address in GB
951107.03       done     GB RFI about NameFLOW-Paradise and public access
951107.04       done     CN Various DISH/Quipu/DSP access queries
951107.05       done     GB Help with ISO 3166 country-codes as used for c=XX
951107.06       done     GB RFI about Steve Kille's involvement in X.500
951108.01       done     IN Help with installing ISODE 8.0
951109.01       done     CN Help with building and configuring subordinate DSA
951109.02       done     CN Query about ISODE 8.0 DUAs
951109.03       done     GB Help with public-access DUA
951110.01       done     CN Another query about ISODE 8.0 DUAs
951113.01       done     GB RFI about alternative public-access points
951114.01       done     CN Yet another query about ISODE 8.0 DUAs
951114.02       done     NL RFI about services for finding people
951115.01       done     CN RFI about NameFLOW-Paradise
951116.01       done     US Request for several source files from ISODE 8.0
951117.01       done     CN Help with DISH problem & RFI about charging
951118.01       done     US Help with finding an email address in GB
```

```
951119.01       done    CA Help with finding an email address in US
951119.02       done    CN Request explanation of Quipu behaviour
951121.01       done    IN Help with porting ISODE 8.0 to Solaris 2.3
951122.01       done    CN Help with DISH/de/fred dsaptailor problem
951122.02       done    IN Request for ISODE docs & more help on porting ISODE
951123.01       done    CN RFI about Directory Management Domains
951124.01       done    GB Help with finding an email address in GB
951124.02       done    GB Help with finding an email address in GB
951127.01       done    GB Help with DNS addresses in HR
951127.02       done    IN More help with porting ISODE 8.0 to Solaris 2.3
951128.01       done    GB RFI about NameFLOW-Paradise & request PARADISE report
951128.02       done    US Request for addresses of national newspapers in GB
951129.01       done    GB Help with public-access DUA
951130.01       done    CN RFI about country contact for CN
951130.02       done    SG Request to register new FLDSA, future slave for SG
951130.03       done    US Help with finding an email address in GB


Notes
-----

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for November 1995

Summary of calls to DSA Giant Tortoise

From 5:35:19 on 31 oct to 5:33:28 on 30 nov

```
No. of binds                        local   remote

Anonymous                               0        8
Unauth name DAP                      3616     4888
Unauth name DSP                         1     4744
Simple                                123     1359
Protected                               0        0


No. of operations
Reads                                 564     1973
Compares                                0      210
Lists                                   1      264
Searches                               18    68217
Modifies                                0        4
ModifyRDNs                              0        0
Adds                                    0        1
GetEDBs                                          0 ( + 54027 slices)


System usage (calls received)

Binds by Directory technicians           10049
Reads of DSA entries                       213
```

```
Other ops on DSA entries                          15
Getedb operations                                  0 ( + 54027 slices)
Spot shadows                                      27
```

LDAP usage

```
LDAP usage from Nov 8 1995 to Nov 24 1995


Connections:                   6
Total connect time:           54 seconds (0 hrs 0 mins 54 secs)



Connections by domain

Domain          Connections

-----------  -----------
uk                      5
nl                      1
-----------  -----------
Total                   6
```

APPENDIX 3 - Public DUA/Telnet summary statistics for November 1995

DUA usage

Calls to the Directory Service - November 1995

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        296           4*       11*        14241        14552
de           0           0        11          105          116
testdua      0           0         0           15           15
                                                          -----
                                                          14683
                                                          -----
```

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

TELNET connections

Telnet connections and DUA logins from Nov 1 1995 to Nov 30 1995

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

```
Connections:        32518          Logins:        14361

Top ten connections by domain      Top ten DUA logins by domain

Domain        Connections          Domain        Logins
-----------   -----------          -----------   ------
edu               16842            edu               7218
unresolved         4779            uk                2287
uk                 3699            unresolved        1261
com                1370            com                685
ca                 1304            ca                 579
net                 936            net                460
us                  478            us                 244
nl                  278            nl                 187
org                 276            org                173
de                  201            mil                113
-----------   -----------          -----------   ------
Total             30163            Total            13207
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for November 1995

FTP server

TOTALS FOR SUMMARY PERIOD Wed Nov 1 1995 TO Thu Nov 30 1995

```
Files Transmitted During Summary Period          1190
Bytes Transmitted During Summary Period     106738079
Systems Using Archives                              0

Average Files Transmitted Daily                    40
Average Bytes Transmitted Daily               3557936
```

Gopher server

Gopher usage from Wed Nov 1 1995 to Thu Nov 30 1995

```
Total connections:        36
Total files retrieved:    41
```

Mail server

Mail-server usage from Nov 16 1995 to Nov 23 1995

```
Copies of help sent:         1
```

```
Total files retrieved:        7
----------------------  -----
Total requests:               8
```

UNIVERSITY OF LONDON COMPUTER CENTRE
DANTE NameFLOW-Paradise Directory Service

Monthly Report December 1995

ACTIVITY REPORT

1. OPERATIONS/HELPDESK

The NameFLOW-Paradise Directory services ran satisfactorily during December, with one major outage during prime-time, and several outside prime-time. There was an extended problem with X.25, covering the latter half of the month; this continued into January.

The following operational activities are noted:

- As mentioned in the November report, the manager for c=SG requested that a new FLDSA, cn=Arowana, be registered, for future use as a slaveDSA for c=SG. After some testing, this was done; see Issues for further information.

- A new FLDSA, cn=Manfred Woerner, was registered. This has become the new masterDSA for o=North Atlantic Treaty Organization (NATO), replacing Violaceous Trogon, which has therefore been removed.

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

2. OUTAGES

Sat December 2 16:47 - Mon December 4 09:16 (40hrs 28mins)
    DSA Ocellated Turkey unavailable, stuck Quipu process; manually restarted

Sun December 3 02:34 - 03:50 (1hr 16mins)
    DSA Giant Tortoise unavailable, stuck Quipu process; automatically restarted

Mon December 4 16:36 - 17:26 (50mins)
    DSA Ocellated Turkey unavailable, stuck TCP port; intervention required to free the port and restart the DSA

Sat December 16 08:00 - Wed December 20 15:19 (103hrs 19mins)
    DSA Giant Tortoise and ftp/gopher server unavailable, machine hung after kernel read fault; reboot required

Tue December 26 03:24 - 05:46 (2hrs 22mins)
    DSA Ocellated Turkey unavailable, stuck TCP port; cleared by automatic reboot

Tue December 26 10:28 - 11:16 (48mins)
    DSA Ocellated Turkey unavailable, stuck TCP port; eventually cleared itself

As in October/November, there was a problem with a port on the X.25 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 05:04 on Wednesday December 13 until the end of the month, and on into January. 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

The eDBinfo attributes of the new FLDSA cn=Arowana, replicating portions of c=SG from cn=Lion, use the "non-standard" attribute type sectorName. Definitions for this attribute type had to be added to the local oidtables in order to add the new FLDSA, because the RDN types in eDBinfo attributes are encoded as OIDs in DAP/DSP. DSAs that do not have the definitions will see sectorName as the numeric OID 1.2.702.1.1001.2.1.

As well as having the new FLDSA cn=Manfred Woerner, the Directory manager for NATO has reorganised its DIT, such that the subordinate entries of o=North Atlantic Treaty Organization are now in themselves organizations, rather than organizationalUnits. This is unusual, and does not comply with the example DIT structure in X.521 annex B, but is believed not to contravene X.500. However there may be "visibility" problems if DUAs expect DITs to be structured as per X.521 annex B. The Directory manager for NATO would also like to rename the top-level entry from o=North Atlantic Treaty Organization to o=NATO. He may raise both of these issues with the NameFLOW-Paradise community via the managers and forum mailing lists.

The issue of the accessibility of the FLDSAs cn=Pelican (c=IN) and cn=Saki (c=EE) remains 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.Dec95
- DSA/stats.Giant-Tortoise.Dec95
- ldap/usage.Dec95
- DUA/usage.Dec95
- ftp/xferstats.Dec95
- gopher/usage.Dec95
- mail/usage.Dec95
- web/usage-9512.html
- DSA/operations/ops-hourly.Giant-Tortoise.Dec95
- DSA/operations/ops-summary.Giant-Tortoise.Dec95

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 December 1995

NameFLOW-Paradise Helpdesk queries for : December 1995

```
------------------------------------------------------------------------
Reference          Status   Keywords
------------------------------------------------------------------------
951201.01          done     SG Request to register new FLDSA cn=Arowana
951203.01          done     CN RFI about NameFLOW-Paradise
951204.01          pend     IT RFI ?
951205.01          done     CN Help with DSA naming convention & 8-bit data
951205.02          done     US Help with public-access DUA
951205.03          done     DZ Request PARADISE report & various help
951206.01          done     GB RFI about PARADISE "experimental results"
951211.01          done     GB Help with WWW/X.500 gateway & finding someone in US
951212.01          done     CN Request e-mail address of people using ISODE in IN
951212.02          done     IN RFI about DAP/DSP, or sources of such information
951213.01          done     NL Help with finding an e-mail address in IT
951214.01          done     NL Request to register new FLDSA cn=Manfred Woerner
                               for o=North Atlantic Treaty Organization
951214.02          done     GB Help with finding an e-mail address in GB
951215.01          done     GB Request for NameFLOW-Paradise info-server index
951215.02          done     IN Help with ISODE testing & dish access to remote DSAs
951215.03          done     US Help with finding an e-mail address in GB
951217.01          done     CN Request explanation of Quipu behaviour
951218.01          done     GB Help with access to Directory DUAs
951218.02          done     RO Help with finding someone in FR
951219.01          done     SK Help with finding an e-mail address in MX
951219.02          done     RO RFI about DSAs in RO
951220.01          done     NL Problem with access to DSA Giant Tortoise
951222.01          done     IN Request explanation of Quipu behaviour


Notes
-----

951201.01 : follows on from 951130.02, which should have been marked pending.
951204.01 : awaiting query.

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

APPENDIX 2 - World Root DSA and LDAP summary statistics for December 1995

Summary of calls to DSA Giant Tortoise

From 5:34:10 on 30 nov to 5:29:26 on 31 dec

```
No. of binds                    local   remote

Anonymous                           0       15
Unauth name DAP                  3252     4297
Unauth name DSP                     0     4177
Simple                            111     1213
Protected                           0        0

No. of operations
Reads                             714     1437
Compares                            0      322
Lists                               0      256
Searches                           16    46881
Modifies                            0       36
ModifyRDNs                          0        0
Adds                                0        5
GetEDBs                                     0 ( + 56472 slices)

System usage (calls received)

Binds by Directory technicians          9042
Reads of DSA entries                     269
Other ops on DSA entries                  45
Getedb operations                          0 ( + 56472 slices)
Spot shadows                              16
```

LDAP usage

```
LDAP usage from Dec 28 1995 to Dec 28 1995

Connections:                     5
Total connect time:            694 seconds (0 hrs 11 mins 34 secs)


Connections by domain

Domain       Connections
----------- -----------
nl                     5
----------- -----------
Total                  5
```

APPENDIX 3 - Public DUA/Telnet summary statistics for December 1995

DUA usage

Calls to the Directory Service - December 1995

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          139            2*    18*         9387      9546
de             0            0      5          114       119
testdua        0            0      0            8         8
                                                       -----
                                                       9673
                                                       -----
```

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

TELNET connections

Telnet connections and DUA logins from Dec 1 1995 to Dec 31 1995

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

```
Connections:        20951            Logins:          9509

Top ten connections by domain      Top ten DUA logins by domain

Domain       Connections            Domain        Logins
----------- -----------            ----------- ------
edu              10015              edu             4629
unresolved        3474              uk               985
uk                1697              unresolved       834
com               1264              com              679
net                949              net              505
ca                 727              ca               357
us                 425              us               228
org                245              org              163
nl                 214              nl               142
mil                163              mil              105
----------- -----------            ----------- ------
Total            19173              Total           8627
```

APPENDIX 4 - FTP/Gopher/mail info-server summary statistics for December 1995

FTP server

TOTALS FOR SUMMARY PERIOD Fri Dec 1 1995 TO Sun Dec 31 1995

```
Files Transmitted During Summary Period              1004
```

```
Bytes Transmitted During Summary Period     98382466
Systems Using Archives                             0

Average Files Transmitted Daily                   37
Average Bytes Transmitted Daily              3643795
```

Gopher server

Gopher usage from Fri Dec 1 1995 to Thu Dec 28 1995

```
Total connections:        18
Total files retrieved:    29
```

Mail server

Mail-server usage from Dec 15 1995 to Dec 21 1995

```
Copies of help sent:       0
Total files retrieved:     3
---------------------  -----
Total requests:            3
```