

THE RIPE DATABASE VERSION 1

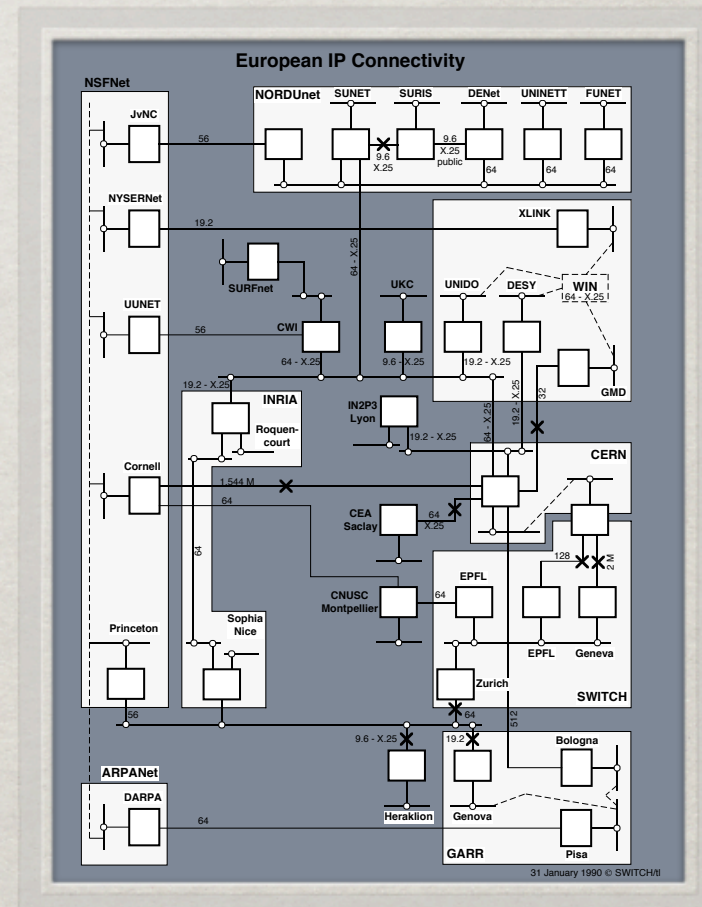
m c s u n ! d f k

d f k @ m c s u n . u u c p

d f k @ m c v a x . b i t n e t

OPERATIONAL CONTACTS DATABASE

- ☼ TCP/IP was already in use for years in local networks. (Berkeley Unix, ...)
- ☼ TCP/IP Networks were now growing together.
- ☼ Operational problems were often “end-to-end”.



PRAGMATISM GALORE

PEOPLE (1)

PEOPLE (1)

NAME

people - Access private user name database

SYNOPSIS

```
people [ -f file ] [ search-key ]  
ph [ -f file ] [ search-key ]  
email [ -f file ] [ search-key ]  
home [ -f file ] [ search-key ]  
work [ -f file ] [ search-key ]
```

DESCRIPTION

These programs are all links to the same binary which is used to
access a user's private database of contact addresses.

...

Datafile format

The datafile consists of a number of records, each spanning several lines. Records are separated by one or more blank lines. Fields in the records commence at the start of the line with the construction:

***keyword:**

Where the keywords indicates the field type. ... **The software does not check the keywords, so users may invent other comment ones.**

AUTHOR

Peter Collinson, UKC. From an idea from David Tilbrook.

UPDATE INTERFACE

Date: Mon, 8 Oct 90 09:05:43 +0100
From: Ruediger Volk <rv@unido.informatik.uni-dortmund.de>
To: ripe-dbm@mcsun.EU.net
Cc: hostmaster@Germany.EU.net
Subject: Data for the RIPE DB

Good morning,

here comes a bunch of new and update data for the RIPE db.

...

Coming back to the discussion Daniel and me had last Thursday while driving back from Bonn I want to remember that the RIPE whois server should have a flag to request use of the "short" tags; drawing from my working experience tonight I would also suggest to have switch to turn the chaining of person data on/off independant from the tag mode (long/short) ...

Some of the network records now have *rz: fields giving a list of name servers for the Reverse Zone; ...

```
*in: 141.1.0.0
*na: DFN-WIN1
*rm: net name should change to ECRCNET sometime
*de: ECRC Muenchen
*ac: Dave Morton
*co: RIPE ICS EU WIN
*gw: udo
*rz: ECRC.DE unido.Informatik.Uni-Dortmund.DE
```


FLEXIBILITY

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FIRST USER REQUEST

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DATABASE SIZE

	Nov. 1990	Jun. 1991	Jan. 1992	Apr. 1992
persons	643	1270	2728	3365
networks	670	1053	1792	2242
domains	0	845	1254	1360
Total	1313	3168	5774	6967

Source: ripe-52

SWEDISH IDEAS

Date: Thu, 29 Nov 90 11:27:06 +0100
From: boss@sunic.sunet.se
To: ripe-org@mcsun.EU.net
Subject: **Network Line Database Object Description.**

Below follows a first proposal for a line database object defining what should be known of network physical lines. Please comment.

Bernhard.

LINE DATABASE DESCRIPTIONS

Bernhard Stockman

Nov 29, 1990

This is a proposal for a network line database to be included in the RIPE whois service.

...

FIRST DB DISCUSSIONS

Date: Thu, 29 Nov 90 21:19:46 +0100
From: k13@nikhef.nl (Rob Blokzijl)
To: "Arnold Nipper - XLINK - Phone: +49 721 608 4331"<nipper@ira.uka.de>,
boss@SUNIC.SUNET.SE
Cc: ripe-org@mcsun.EU.net
Subject: **Re: Network Line Database Object Description.**

I fully agree. Let's keep the RIPE databases as consistent as possible!

Rob Blokzijl

+----- Start of included message from: "Arnold Nipper - XLINK - Phone:
+49 721 608 4331" -----

|

| To harmonize the various tags used in databases I propose:

|

| lu ---> ch (change)

| co ---> rm (remark)

|

| Arnold

|

+----- End of included message from: "Arnold Nipper - XLINK - Phone:
+49 721 608 4331" -----

MAILING THE WHOLE NCC STAFF

Date: Wed, 29 Jul 92 18:30:30 +0200
From: Daniel Karrenberg <Daniel.Karrenberg@reif.ripe.net>
To: Marten Terpstra <terpstra@rijp.ripe.net>
Cc: Anne Lord <anne@mellow.ripe.net>
Subject: database update procedures changed

I have changed the update procedures so that everyone in group dbase on ns can do updates. This included changing protections in /usr/spool/log and /local/spool/wais. Please consider this when making changes there and in /dbase.

Please do updates as yourself from now on.

Daniel

EVOLUTION BEGINS

Date: Wed, 23 Sep 92 16:48:19 +0200
From: Daniel Karrenberg <Daniel.Karrenberg@ripe.net>
To: RIPE Meeting Attendees <ripe-org@ripe.net>
Subject: Beta Testers Sought: New Update Scripts for RIPE Database

:-) :-) :-) :-) WARNING: Highly Technical Stuff Below ! :-) :-) :-) :-))

Hi Folks,

**at long last the NCC have completed their latest programming job:
the new update and consistency check scripts for the RIPE database.**

The update and consistency checking process is now completely controlled by a single configuration file. This file is included for your information and amusement. The long term plan is to have all the database software including the whois server controlled by this file.

Operationally this means:

...

We are using the new software in production since today. ...

RIPE MEETINGS

Date: Fri, 22 Jan 93 18:47:24 +0100
From: Marten Terpstra <Marten.Terpstra@ripe.net>
To: local-ir@ripe.net
Subject: Database updates during upcoming RIPE meeting

Dear folks,

Since all of the RIPE NCC staff will be in Prague next week for the RIPE meeting, there may be a chance that we miss an update. Because of time or connectivity constraints it can happen that we cannot keep our daily update service.

Our apologies for this, but we will try to do the best we can.

-Marten

NOTHING NEW ...

Date: Wed, 19 Aug 92 19:56:20 +0200
From: Daniel Karrenberg <Daniel.Karrenberg@ripe.net>
To: Reseaux IP Europeens <ripe@ripe.net>
Subject: Ownership of RIPE Database

The RARE Executive is currently conducting research into "ownership" issues of the RIPE Network Management Database. This research has been requested by the RARE CoA. The NCC has been asked to help with the research. From my personal experience this has two parts:

- preventing abuse of the database
- ownership of a collection of data made by collaborative effort which is not quite a "collaborative work"

Of course when formalising this the issue of data protection legislation regularly pops up as well.

I know that some people on this list have experience of dealing with these issues. I would appreciate their input.

Daniel

PS: Also RIPE as a group might have a position on this.

V2: MORE PROGRESS

Date: Thu, 24 Jun 1993 11:34:39 +0200
From: Marten Terpstra <Marten.Terpstra@ripe.net>
To: RIPE Database Working Group <db-wg@ripe.net>,
Local Internet Registries <local-ir@ripe.net>
Subject: New database software update

all,

It's time to let you know what has happened with RIPE database software development. After some more experimenting to check feasibility **we have progressed quite far into a complete rewrite of the database software. We have completed the system design and started to implement various modules.**

The new design has the following features

- fully (and we **mean** fully!) configurable from a config file
- separate files (and indices) to store different databases
- **dynamic updates and deletes as opposed to batch only**
- possibility for update protocol other than e-mail
- guarded fields designed in
- dynamic update of secondary databases possible

V2: MORE PROGRESS

...

Features which have been requested but are not designed in:

- preserve the order of tags within object
- preserve the position of remark or comment lines within objects

These two features turned out to be hard to specify in the light of updates and even harder to implement. They might go in the next release **if someone can come up with a consistent and intuitive spec.**

The new software **will be implemented in the perl language.** So those of you who do not have it installed and want to use the RIPE database software should plan to install perl. Of course you won't need perl if you just want to use a whois client and send in updates by mail. Implementing in perl instead of shell, awk and C has three benefits: coding in perl is fast, subroutines can be used (missing from std awk) and the result is portable. **We have a copy of the alpha software running on a PC under UNIX. Together with a notebook this gives you a "portable" RIPE database.**

...

THE REST IS
HISTORY

LESSONS

- ✻ Open-ended design pays - Always !
- ✻ KISS design survives generations.
- ✻ Never underestimate the lifetime of any design, however temporary you might think it is.

THE END