# DRing

| **COLLABORATORS** | | | |
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| | *TITLE* :<br><br>DRing | | |
| *ACTION* | *NAME* | *DATE* | *SIGNATURE* |
| WRITTEN BY | | April 14, 2022 | |

| **REVISION HISTORY** | | | |
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| NUMBER | DATE | DESCRIPTION | NAME |
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# Chapter 1

# DRing

## 1.1 Distinctive Ring for Trapdoor

DRing V1.7

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## 1.2 Description

This program will sit and listen to Trapdoor's output ARexx port
waiting for a suitable RING type response from the modem. If the
correct requirements are satisfied, it will tell Trapdoor to
answer the call.

It will output CLI information from Trapdoor if you
have a suitable modem (as long as CLI is on).

Your modem will need to have distinctive ring capability, and
your phone company will have to supply you with that service.
If not, you can still use it for logging Caller ID information

and blacklisting users.


## 1.3  Using Dring

DRing is a very simple program which sits on its own without any
other configuration files (ATM).

It can be run from either Workbench or the CLI, although it is
best suited to being run from Workbench.

It has a couple of command line arguments which you may or may
not need to use.

These are:

```
  -? (gives a quick usage guide)
  -p<Sets our port name for Trapdoor>
  -s<string to count as ring>
  -r<number of rings>
  -w<seconds between rings timeout>
  -l<logfile path>
  -b<database path>
  -v<Voice ring string>
  -a<Number of voice rings before script execution>
  -x<Filename of voice script>
```

e.g.

DRing -tTRAPDOOR -pDRING -sRING -r2 -w5 -lPROGDIR:dring.log -bPROGDIR:dring.db

or in the icon tooltypes:

```
PORT=DRING
RINGS=2
STRING=RING
TIMEOUT=5
LOGFILE=PROGDIR:dring.log
DATABASE=PROGDIR:dring.db
ICONIFY (Iconify on startup - default off, ToolTypes only)
WINDOW=xx,yy (Default window position - ToolTypes only)
CALLWIN=xx,yy (Default "Incoming call" window position - ToolTypes only)
VRING=RING2
VRINGS=2
VSCRIPT=Voice.dring
ASCRIPT=Data.dring
```

Select the configuration menu to edit these values while
DRing is running. Apart from the ARexx port, all values
may be changed without restarting. If changing the log
file fails, the original will continue to be used, and the
name will remain unchanged.

Icon tooltypes will also be used as defaults when run from
the CLI, if available.

The values shown here also happen to be the defaults.

The log file will use the time sent with Caller ID, not
the system time.

The blacklist has been replaced by a slighty more user
friendly callers database. You can ban users, or make
them data only (e.g. BBS callers) If a database entry
matches the incoming number, the name will show up in
the title of the window. Select this from the menu.

You could ban "WITHHELD" numbers by putting P on one of
the lines. (Or data only for double glazing salesmen..)

```
  O=Unavailable
  P=Withheld
```

## 1.4  Configuration

To use this program with Trapdoor (or another ARexx using program
perhaps), you will need to alter the configuration.

First, you will have to enable distinctive ring. My Pace 56
voice uses the "AT-SDR" command, where:

AT-SDR=0 (off)
AT-SDR=1-7 Various combinations of ring types.

It reports in the form RING1, RING2, RING3.

According to the Hayes command set, S-register 101 is responsible
for controlling how the modem reacts to different rings.

The ring types are as follows:

RING A (RING1)  - 1 long on, 1 long off
RING B (RING2)  - 2 equal rings, then long off
RING C    - 2 short, 1 long, then long off
RING D    - 1 short, 1 long, 1 short, then long off

The bits for S101 are as follows:

Bit 0 (LSB) - Enable distinctive ring reporting.
Bit 1   - Disable type A
Bit 2   - Disable type B
Bit 3   - Disable type C
Bit 4   - Disable type D
Bit 5   - Disable type U (unidentified)

USR Sportster Voice modems use S41 for distinctive ring, and report
in the same way as Hayes. (Bit 0 - Enable)
I imagine the bits would be the same as for the Hayes...


If you have CLI,

AT#CID=0 turns off CLI information.
AT#CID=1 turns on formatted CLI information. (We use this)
AT#CID=2 turns on raw CLI information.

This seems to be standard with a few modems.

You will need to consult your modem's manual for more information
about ring types and caller information if you are unsure.

Anyway, stick that in Trapdoor's modem init string to enable
the Caller ID/Distinctive Ring.

You'll need to stop Trapdoor answering the modem. Set
RINGS to a big number as it suggests in the Trapdoor manual.

Also, check scripts which set/reset rings (tossing, maintenance
etc.) with TrapTell, as this will ruin the operation of this
program. Replace calls to TrapTell with an ARexx script like
rings.rexx, or point TrapTell at DRing like so:

TrapTell -PDRING "rings 5"

Then, set Trapdoor's IPC port 'IPCPORT' to our port name (e.g.
DRING) and double check the main ARexx port name (or the modem
will never be answered...)

## 1.5  ARexx

The ARexx port is mainly meant for Trapdoor to send its messages,
but it has a couple of commands.

These are:

```
  RINGS   - set rings before answer (similar to Trapdoor)
  VRINGS  - set number of voice rings before script execution.
  STRING  - change ring string (e.g. RING1)
  VSTRING - change voice ring string (e.g. RING2)
  VSCRIPT - change the voice script used for incoming calls
  ASCRIPT - change the data script used for incoming calls
  TIMEOUT - change seconds between rings timeout
  ICONIFY - iconify the window
  SHOW    - Reopen window if iconified
  QUIT    - quit DRing
```

Trapdoor sends 'STAT' messages which our port uses to detect
rings and CLI information. I used these to test the program,
but you may find a use for this setting up your timeouts.
Otherwise, don't bother with it.

If there are any other sensible commands you would include, please
don't hesitate to mail me.

## 1.6  Contact me

For bugs, improvements etc., contact rich@theforest.demon.co.uk,
or call The Forest BBS on +44-1549-402746 (Fido: 2:259/301) for
a chat or to download any later versions.

## 1.7  History

- 24-May-1999
  Aminet release V1.8
  Added keyfile. (Unregistered version still functional)
  Fixed timer IO bug when quit selected during timeout.
  Fixed timer bug - timer would be set indefinitely if call
  window was closed prior to timeout.

- 23-May-1999
  Replaced blacklist with small database.
  Added "data only" feature to numbers (instant data answer)

- 16-May-1999
  Created configuration menu and window.
  Saves to tooltypes in DRing's icon.

- 15-May-1999
  Aminet release V1.7
  Noticed bug in logging. :( fixed.

- 13-May-1999
  Aminet release V1.6

- 12-May-1999
  Fixed some waiting problems with Trapdoor/ARexx
  Added "about" menu item/window.

- 09-May-1999
  Discovered and fixed bug in ARexx stuff causing
  problems.
  Added VSCRIPT, VRING, VRINGS ARexx commands.
  Using ARexx script for data answer now.
  ASCRIPT ToolType and ARexx command added.
  Removed redundant TDPORT ToolType.

- 20-Apr-1999
  Release V1.5 - Local version

- 20-Apr-1999
  Fixed bug in logging CallerID. Names were being
  carried forward into subsequent calls. All date,
  time, name, number are cleared now.

- 15-Apr-1999
  Added voice call code. Execute ARexx script on
  receipt of voice call.
  New ToolTypes: VRING, VRINGS, VSCRIPT

· 12-Apr-1999
  Aminet release V1.4
  Added ICONIFY, WINDOW, CALLWIN ToolTypes
  Added ARexx commands "Iconify", "Show"
  Running DRing with same "PORT" will de-iconify
  existing window.

· 11-Apr-1999
  Fixed stupid Caller ID bug (K)
  Gave windows depth gadgets & added close
  to incoming calls window.

· 19-Mar-1999
  Release 1.3 on Aminet after some fixes

· 15-Mar-1999
  Added tooltypes and Workbench icon

· 14-Mar-1999
  Created small window for DRing
  Added a simple numbers blacklist

· 13-Mar-1999
  Stuck incoming calls in a window with Caller ID

· 23-Feb-1999
  Phantom ring bug fixed. (Buffer overrun) V1.2

· 20-Feb-1999
  First public release on Aminet V1.1

· 11-Feb-1999
  Initial internal version V1.0

## 1.8  future

I'll add some CLI interactive things to this program later.
Any other ideas/suggestions will be welcome.

Maybe someone might draw an icon (normal & newicons). The
present one is supposed to be a phone. :(

A more user friendly configuration might be appropriate
now... I'll work on it.

## 1.9  Copyright notice

This program is copyright 1999 R. Smith. This distribution is now
uncrippled shareware. Please contact me if you wish to register.
I'd like to know how many people use DRing... Please contact me
anyway.

Registration is £2.00 (UKP), and you will receive later revisions
of this version, and a keyfile (via email, fidonet, or BBS).
Any non-public versions will also be made available to you.

## 1.10  greet

A big hello to Glen Martin, sysop of Gremlins BBS.

HI :) Keep up the good work...

## 1.11  Index

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