# EI-CID

Peter Bornhall

| COLLABORATORS | | | |
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| | *TITLE* : El-CID | | |
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| *ACTION* | *NAME* | *DATE* | *SIGNATURE* |
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# Chapter 1

# El-CID

## 1.1 El-CID Documentation

```
                     Leading Amiga Software

                 presents

            El-CID -- CallerID the easy way
            =================================
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## 1.2   Description of El-CID, and what it could do for you

```
Description
El-CID is a small program which enables you to make use of the CallerID
function built into your modem.  If your modem supports this function,
and it's properly set up, El-CID will notify you of any incoming calls
directly on your screen.  El-CID also pops up on the frontmost public
screen, so there is no need to flip screens to see who is calling.

El-CID has so far been verified to work with the following modem(s);

    * PowerBit 28k8 Lite    (aka InterTex)

If the make and model of your modem isn't listed here, and you know for
sure that it has CallerID support, please drop me a line and tell me if
you got El-CID working with it or not, and what settings to use.
```

## 1.3   If you fall and break a leg, don't blame me!

```
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Copyright ©1996, Peter Bornhall.


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```

## 1.4   Requirements? For such a small program?

```
Requirements
El-CID should work on all Amigas equipped with at least OS 2.04, but it
also makes use of some new features present only in OS 3.0 and higher.
El-CID uses about 56KB of memory when no phonebook is loaded.  This does
not take into account if bgui.library is loaded into memory or not.

El-CID requires the following for proper operation;

    * A modem that has a built-in CallerID function.

    * The bgui.library in LIBS:, version 39 or higher.

El-CID uses the excellent OwnDevUnit.library if it is present.  That
means that you do not have to quit El-CID when another program needs the
device currently in use by El-CID.  This does however require the other
program to use OwnDevUnit.library too.
```

## 1.5   The much sought-after features of El-CID

```
Features
Most of the following features are things I wanted myself, but I do hope
that they appeal to you too.

    * Uses new features of OS 2.1, OS 3.0 or higher.

    * It is a commodity, and can be enabled/disabled at any time.

    * It uses BGUI.library for its GUI and commodity interface.

    * Uses OwnDevUnit.library if available.

    * It pops up on the frontmost public screen.

    * Displays the date and time in localized form.  OS 2.1+
```

* User may specify device and unit to use.

* Simple phonebook, displaying the name of the caller.

* Simple call logging, with date, time and caller.

## 1.6  Installing El-CID on your system

                Installation
You may put El-CID wherever you want to, but I recommend that you put it
in your WBStartup drawer, which will start it every time you boot up
your Workbench.

For further information, see the section on
          configuration
          .

## 1.7  How do I set it up?

                Configuration
There are three major areas to deal with when configuring El-CID;

    *
            Tooltypes
              The basic settings.

    *
            Phonebook
              How to create a phonebook.

    *
            The modem
              How to set up the modem.

## 1.8  Starting it up

Starting El-CID
El-CID is best started from its icon, since it relies on tooltypes for
all configuration.  If there is demand for it, I might consider adding
support for CLI/Shell arguments, but until then you will have to make

If you decide to start it from Shell/CLI, you have to run it, i.e;

    Run <NIL: >NIL: El-CID

...if you want your prompt back.

El-CID will not start more than once, and attempting to run a second
copy causes the first copy to show its interface.  This is standard
commodity behaviour.  But, since it is possible to specify the device
and unit that El-CID uses, I might change this behaviour if there is a
demand for it.

## 1.9   Stopping it, should you want to

Stopping El-CID
You may easily remove El-CID from your system in several ways;

      * Pop up El-CID's interface and select 'Quit' from the menu.

      * Use the Exchange commodity to remove it.

      * Send it a CTRL-C break command.

## 1.10   Don't you just loooove configurability!

                    Tooltypes
El-CID uses the tooltypes of its icon to set the parameters it uses.
This means that it is easily accessible from Workbench, by selecting
Information in the Icons menu.

You may also use project icons to start El-CID.  Just set default tool
to El-CID, and edit the tooltypes to your preferences.

Here follows a brief description of every tooltype;


CX_POPUP=<boolean>

      This tooltype specifies if El-CID should open its window directly
      on startup.  El-CID responds to YES and TRUE, and defaults to not
      open the window on startup.

      Example:          CX_POPUP=YES


CX_POPKEY=<qual key>

      With this tooltype you can specify the popup qualifier and key.
      The default is ctrl, left alt and 'e' ('ctrl lalt e').

      Example:          CX_POPKEY=ralt e


DETECT=<string>

      With this tooltype you can specify the detection string used to
      find the number of the caller.  Use this with care, since El-CID
      will NOT work if this isn't properly specified.  Check your

modem's User's Manual to find out which output is produced
(formatted output works best).  Default is 'NMBR = '.

Example:        DETECT=NMBR=

See also:
        Setting up the modem
            DEVICE_NAME=<device name>

With this tooltype you can specify which device you want El-CID
to use.  Default device is serial.device.

Example:        DEVICE_NAME=8n1.device


DEVICE_UNIT=<unit number>

With this tooltype you can specify which unit El-CID should try
to gain access to.  Default unit is 0.

Example:        DEVICE_UNIT=4


PHONEBOOK=<filename>

With this tooltype you can specify the path and filename of the
phonebook El-CID should use.  If El-CID fails to open it, you
will NOT be notified, and no phonebook will be loaded.  Default
is S:El-CID.phonebook.

Example:        PHONEBOOK=SYS:Tools/El-CID.numbers


LOGFILE=<filename>

With this tooltype you can specify the path and filename of the
logfile El-CID should write to.  Be careful with this, as you
might overwrite important data if you don't know what you're
doing.  The default is S:El-CID.logfile.

Example:        LOGFILE=LOGS:El-CID.log


ACTIVATE

If this tooltype is present, El-CID will make the message window
activated when it opens.  Default is not to ACTIVATE.

Example:        ACTIVATE


NORESIZE

With this tooltype you can tell El-CID not to let you resize the
message window horizontally.  Since the message window reopens
whenever a new call is detected, it is automatically resized, so
you might want to set this flag.  Default is to let you resize

the window.

Example:         NORESIZE


TOOLTICKS=<intuiticks>

With this tooltype you can specify the delay in intuiticks
(about 10 per second) for tooltips to appear.  Setting this to 0
disables tooltips completely.  Default setting is 0.

Example:         TOOLTICKS=20


WINDOW_DELAY=<seconds>

With this tooltype you can specify how long the message window
will be shown when it is popped up.  If you have selected the
'Show Interface' button from Exchange, the window will ALWAYS be
shown, until you manually close it.  Setting this to 0 causes
El-CID to never open the message window, unless manually opened
with the hotkey or via Exchange.  Default is 10 seconds.

Example:         WINDOW_DELAY=15


REOWN_DELAY=<seconds>

With this tooltype you can specify the delaytime used between
releasing the device and trying to reown it.  Minimum value is 5
seconds, and the default is 6 seconds.

Example:         REOWN_DELAY=8


POLL_DELAY=<seconds>

With this tooltype you can specify how often El-CID should check
if the device is available to use.  Minimum and default value is
1 second.

Example:         POLL_DELAY=3


WAIT_DELAY=<seconds>

This tooltype specifies the delay used by El-CID to make sure
that we really got a connection with the modem.  This is needed
in some cases when El-CID reclaims the device from some other
program and the modem isn't finished talking with the other end.
Minimum and default value is 10 seconds.

Example:         WAIT_DELAY=15

## 1.11 Let's see, how many friends have I got?

```
Phonebook
El-CID sports a simple phonebook, and is able to display the name of the
caller if the number is present in the phonebook.

The phonebook is a plain ASCII text file, and each row in it consists of
a number and a name (or whatever you like).  If the incoming number is
present in the phonebook, it will be displayed in the message window
like this;

    "Incoming call from Peter Bornhall..."

In a future version I might make it possible to specify the format of
this string, making it possible to have "Peter Bornhall is calling..."
instead.

Each line in the phonebook file is one entry, and each entry is
formatted like this;

    <number>:[~][!]<text>

...where <number> is the number that El-CID displays in its number box.
You must separate the number from the rest of the line with a colon, or
it won't be recognized by El-CID.  If the first char after the colon is
a tilde, "~", that means that incoming calls from this number will not
be logged.  The [!] means that if the first character following the
colon or the tilde is an exclamation mark, then <text> will be displayed
in the number box instead of in the status box.

NOTE: The tilde MUST come first, then the exclamation mark.

    Example:

        B00:!Unknown
        B10:!Protected
        0123456789:John Doe
        9876543210:~Jane Doe

The first two entries are used by Telia in Sweden as codes for calls
without CID information (B00), or protected calls (B10).  If one of
these two are detected, El-CID will display "Unknown" or "Protected"
respectively in the number box.

Otherwise, as with the two latter entries, the number will be shown
in the number box, and the name in the status box.  But, the last entry
will not be logged, sine the first character after the colon is a tilde
character.
```

## 1.12 Setting up your modem to work with El-CID

```
Modem Setup
The first thing you should do, is to make sure that your modem is able
to detect CallerID information.  You should be able to find the
```

information you need in the user manual for your modem.

Then, you must set the modem to always display the CallerID information
when it is received.  In most cases formatted output is the best choice,
since it usually contains more strings that can be used to detect the
relevant info, the incoming caller's number.

For example, the formatted output of a PowerBit 28k8 Lite modem, setup
with AT#CID=1, looks like this;

    RING

    DATE = 0000
    TIME = 0000
    NMBR = 123456789

    RING

What we are interested in here, is the line containing the number.  In
this case, the detection string (minus the quotes) is "NMBR = ".  Please
note that we must use the EXACT string sent from the modem, and we must
also use all characters up to the first digit of the number.  On the
other hand, using a detection string of "BR = " would work just as well.

Finally, when you have found out what detection string to use, make sure
that you save the modem's settings, so that it automatically receives
CallerID information when it is reset with ATZ.  This is required, since
El-CID only sends "ATZ" to reset the modem, nothing else.

## 1.13  History, for what it's worth

                    History
Since this is my first project, I guess this part will be quite big in a
short time.  Bear with me, it's a learning project.


--.-    1.3.96   [INTERNAL Release 0.1]

    *~First version, internal use only.  Actually works.


37.1    2.3.96

    *~Rearranged the sourcecode a bit, since it was a real mess
      to work with.  Resides in its own directory now...:)  Oh,
      and I added revision control to it also.


37.2    3.3.96

    *  Rearranged the source some more, removed some unnecessary
       includes, made a proper smakefile and recompiled.  No
       major changes made from 37.1.

37.3    3.3.96   [INTERNAL Release 0.2]

* Added a one-second delay between checks for re-obtaining
  the device from OwnDevUnit.  Sucked CPU time like a vacuum
  cleaner before.  Quite horrible...


37.4    4.3.96

* Split up the code a bit, preparing it for the new features
  and problem fixes.  Also decreased the size quite a bit.


37.5    5.3.96

* Rewrote the entire event handler, and added timer.device
  code, making it possible to operate El-CID even while the
  device is released to some other program.  No new features
  in this version, but I added some support for easy adapting
  it to let the user set some parameters.

* Changed the message window delay to 10 seconds.


37.6    5.3.96

* Tweaked the message window a bit.

* Fixed a minor bug that left the 'Incoming call detected...'
  message hanging in the status box forever.  Now resets
  after the message window delay time, 10 seconds.


37.7    6.3.96   [BETA Release 0.3]

* Scraped off 172 bytes from the executable...:)


37.8    6.3.96

* Added tooltype support routines.

* Added ability to specify device and unit number using
  the newly added tooltypes.  Currently only available
  from Workbench, no Shell/CLI support yet.

* Now possible to set the Message Window delay, as well
  as the Reown and Poll delay.  See
        tooltypes
      .

* Created an icon for El-CID.  Uses the same style as my
  Iconite icon "package" (can be found on AmiNet).  Yes, I
  know, it doesn't look good with MagicWB's palette...:)


37.9    7.3.96

* Added menus to the message window.  You can now use the
  menus (or the menu shortcuts) to select Hide, Quit and
  About...  Hide closes the message window, Quit quits
  El-CID completely, and About... shows a small about
  requester.  Your basic commodity stuff, more or less.

## 37.10   7.3.96

* Added simple phonebook support.  See
        phonebook
        section
  for more information on this.

## 37.11   7.3.96

* Added menus to update (free and reload) the phonebook,
  as well as to simply flush it (free only).

## 37.12   8.3.96

* Added simple call logging to El-CID.  Currently only
  a hardcoded filename ("S:El-CID.logfile"), but this is
  supposed to be changed.

* Added hotkey support.  Currently hardcoded as <lalt-e>.

* Locale-formatted (if available) date and time strings
  in the message window and log file.  El-CID falls back
  to AmigaDOS formatted date and time if locale can't be
  opened as it should.

## 37.13   10.3.96 [BETA Release 0.4]

* Added tooltype support for specifying the phonebook
  and logfile, as well as an option to prevent resizing
  the message window.  Also added tooltype to set the
  tooltip delay time.

* It is now possible to specify the detection sequence
  used for detecting the number of the caller.  If you
  take a look in your modem's User's Manual, you will
  most likely find out what the formatted output looks
  like.  Default is as before 'NMBR = '.

* Message window is now always reopened when a call is
  detected.  For two reasons; first, the window can now
  always pop to the front screen, and second, you will
  always be able to see the entire date and time of the
  call.  With certain fonts and locale settings you might
  otherwise lose part of the date string or similar.

* Now possible to specify the popup key using CX_POPKEY.

### 37.14   11.3.96

* Removed the spaces around the date and time strings,
  and changed the way El-CID writes to the log file.  It
  will now write the entire line at once, instead of
  writing the different parts of the line one by one.

### 37.15   15.3.96 [INTERNAL Release 0.5]

* El-CID now resets the modem after it receives the
  CallerID-sequence.  Hopefully this will solve the
  problem with not receiving all calls, since I think
  this was the reason for that problem.

* Window title now reads "El-CID: Hot Key = <hotkey>",
  making it similar in appearance to other commoditys.

### 37.16   2.5.96  [PUBLIC Release 1.0]

* I finally managed to track down the reason to why
  El-CID failed to detect some calls.  And it wasn't
  even El-CID's fault in the first place!  I found
  that TrapDoor seems to leave the serial.device (or
  whatever you use) in a state that prevented El-CID
  from detecting the calls.  Phew!

### 37.17   4.5.96

* Added the WindowToFront capability to the hotkey.
  The window will now always pop to front when you
  activate the hotkey combination.

* Added the CX_POPUP tooltype.  Works same way as
  CX_POPUP normally does, of course.

* Changed the About window a bit to more accurately
  reflect the nature of El-CID's function.

* El-CID no longer attempts to own and open the device
  before attempting to create the CX broker.  Before,
  the second El-CID started made the first one close
  the device, and relinquish control to the second,
  which then quit (since the broker already existed)
  and gave control back to the first El-CID.

### 37.18   6.5.96

* Found and fixed a bug that caused El-CID to always
  think that the detection string was 7 characters
  in length.  Sorry about that.

37.19   7.5.96   [INTERNAL Release 1.1]

  * Figured out a way to (hopefully) circumvent the
    problem I've had with TrapDoor.  It seems to work
    in my test code, but the implementation in 37.19
    is too buggy to work as it should.

  * Still trying to get 37.19 to work, but to no avail.
    I am however in the process of rewriting the whole
    interface to the device, and my bare-bones program
    for this seems to work with none of the problems
    found in versions <= 37.19.  Next version will be a
    mostly rewritten program, apart from stuff like the
    phonebook, which works perfectly.


37.20   9.5.96   [INTERNAL Release 2.0 BETA]

  * Almost all code is now rewritten from scratch, and
    as a result, it is a lot more stable.

  * OwnDevUnit.library is now optional, and is used
    automatically if it is installed.

  * El-CID should now handle deadlocks better, since I
    now do a reset after WAIT_DELAY seconds after the
    device is first reclaimed from the previous owner.
    IF there is serial activity before this delay has
    expired, the reset is never performed, since it
    seems to work anyway.  This solution seems to work
    perfectly here at least.

  * Now uses memory pools on OS 3.0 and higher.

  * Default hotkey is now "ctrl lalt e", since the old
    hotkey, "lalt e", conflicted with the "©" character.


37.21   9.5.96   [PUBLIC Release 2.0]

  * WINDOW_DELAY=0 will now prevent El-CID from opening
    its message window when a call is detected.

  * Now requires bgui.library version 39 or higher,
    which is the currently available version on AmiNet.

  * Implemented the ACTIVATE tooltype, which prevents
    El-CID from making the message window active when
    it opens.


37.22   11.5.96 [INTERNAL Release 2.0a]

  * Added/altered the code a bit after some advice from
    Olaf Barthel.  It seems I missed some of the finer
    points of device handling.  Lucky for me, the

            timer.device is a sturdy piece of work.  But now,
            the code has been updated, and at least one known
            enforcer hit has been removed.  Thanks Olaf!


    37.23   11.5.96 [INTERNAL Release 2.0b]

        * El-CID will now quietly exit if there is no DSR, like
          when the modem isn't turned on.  Previous version
          stopped when they tried to reset the modem, and would
          then continue when the modem was turned on.  Still,
          there is no checking of this once El-CID is started,
          but you can then operate it as usual, via the commodity
          interface.

        * El-CID now activates the message window when you press
          the hotkey combination.  Since I guess that if you DO
          press the hotkey, you want it to appear, and why not
          make it active?  Incoming calls doesn't activate the
          window unless the ACTIVATE tooltype is present.


    37.24   11.5.96 [INTERNAL Release 2.0c]

        * No changes, just split up the code to make it a bit
          more manageable.


    37.25   12.5.96 [PUBLIC Release 2.1]

        * Totally forgot (once again!) to actually make the
          detection string settable!  Even worse than the
          length check bug in 37.18.  Really sorry about this.

        * Added a possibility to prevent El-CID from logging
          certain calls.  See
                  phonebook
                  for details.

        * Corrected the "Requirements" node, which stated that
          version 38 was needed of the bgui.library to work.
          This was wrong, since version 39 is needed.


## 1.14  Future? You surely must be kidding?

    Future
    I plan on some additional features for El-CID;

        * Additional tooltypes.

        * Userdefinable strings.

        * Localization even?

       * Better error detection.

       * Shared mode (not sure if this is possible).

       * Ability to view the last calls from El-CID.

       * Phonebook editor maybe?

       * Support for dtmf.device + hardware.

       * Suggestions?

## 1.15   Nasty little critters, aren't they?

```
Bugs
No actual bugs known at this time.  Any bugs and/or problems you may
encounter should be reported to me as soon as humanly possible.  Also
remember that I take NO responsibility for YOUR mistakes.

Some things I'm aware of (if they could be called bugs);

    * Device name, phonebook and log filename are limited
      to a length of 255 chars.  Same thing applies to the
      line length of the phonebook.

    * No sanity checks for the log and phonebook filenames
      are performed, so if YOU enter strange things for these
      things, expect the worst...:)

    * Turning off the modem while El-CID owns the device might
      cause El-CID not to function as it is supposed to.  You
      should use Exchange to inactivate El-CID, and then make
      it active again.  This will "manually" reset the modem.

I will probably try to correct some of the above mentioned "flaws" if or
when I get the time and motivation.
```

## 1.16   Me, me, me... That's all I ever think about

```
The Author
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```

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```

## 1.17   Who did all the HARD work then?