Teldat Router

DIAL PROFILE

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INDEX

Chapter 1
Introduction to Dial Profiles

1. Introduction

On many occasions it becomes necessary to configure distinct interfaces in a router that needs to establish calls through a communications network (ISDN, etc.). When there are a limited number of interfaces, it is not too difficult to configure the related parameters with the part associated to the call for each of them. However, when you have the prospect of including a large number of interfaces that will require the configuration of call parameters and, as occurs in many cases, these are common (e.g. add various FR-DIAL, PPP interfaces over an E1 interface, or over an ISDN Basic or Primary), the use of tools to simplify the configuration process is almost essential.

In order to cope with this *Dial Profile* was developed to provide a mechanism to simplify the configuration process for the part associated to the *call* in an interface requiring such services (normally "*DIAL*" interfaces).

Dial profiles are particularly useful in cases where you need to set up multiple interfaces that are going to have certain common parameters with respect to the *call*, such as the same destination address (when you are going to establish links to the same place i.e. carry out calls to the same number), etc.

In the following section, you will find the main parameters for the profiles explained in detail.

2. Dial Profile Characteristics

Here we will be explaining the main characteristics for the dial profiles, i.e. the principal parameters for those that make up and define the logical operation.

When you establish a communication, two important parameters initially appear: the destination or remote address and the local or own address. We find ourselves in the situation that one of the two ends is going to initiate the establishment of a communication; therefore you need to determine the destination address you wish to connect to and to specify the local address in order to receive the petitions for communications establishment from others.

Also, if you bear in mind that in cases of links over switched channels, outbound calls are normally requested when there is traffic to transmit through the interface and when there is no traffic during a period of time the call is usually released, so a new parameter requiring your attention appears: the parameter related to the period of time that needs to lapse with absence of traffic in order to release the communication.

As with many other functions (such as the routing of certain protocols), when profiles are created, filters, in order to prevent certain users (hosts, routers etc.) accessing determined router services, are also placed, in this case permitting establishment of certain calls coming from specific addresses. Thus permission (type of call permitted) and profile access controls are created and can be enabled or not according to the degree of filtering you wish to configure in an interface.

Another important dial profile characteristic is the permitted connection intervals. From this point of view, it can be useful to be able to define when calls can be made and received through the base interface where the dial profile is assigned. In this way, call establishment can be temporally restricted to the required periods.

Both these and other parameters are further explained below.

2.1. Local Address

The local or own address is the address or local number (ISDN nº etc.). Any *inbound* call reaching the base interface whose destination number does not coincide with the address programmed here is rejected. This is also the source address present in the outbound calls. This address is also given as the source address in all calls locally originating in the router.

This parameter can be left without specifying anything in it so all calls reaching the base interface are answered (provided that all the restrictions are complied with) i.e. admits all *inbound* calls.

2.2. Remote Address

Specifies the remote or destination address for calls being carried out from the interface that has this profile associated. If the remote address is not configured in the profile, *outbound* calls cannot be made (i.e. it does not know where to send the call).

2.3. Alternative Remote Address

Specifies the remote or destination address for calls executed from the interface with this profile associated in cases where it's impossible to establish communications with the first destination configured in the said profile.

2.4. Authorized Caller

In cases of *inbound* calls, you can specify a group of addresses which are permitted to establish communications with the device. These are known as authorized callers. Only those calls coming from these callers are accepted. If no authorized callers are specified, any inbound call is accepted.

2.5. Type of permitted Calls

You can specify the type of calls that can be produced in the interfaces.

Basically you can make calls (carry out *outbound* calls), receive calls (*inbound* calls) or both at the same time.

You can also **NOT** permit any type of call. This would be the equivalent of disabling a *Dial Profile*.

2.6. Access Controls

Access Control refers to whether you wish to have the *inbound* calls filtered or not complying with the data that has been configured in order to only admit calls from specific ends and rejecting the rest. If this is enabled, a check is run to make sure that the call data (source and destination) matches the data configured in some profile. If these do not match, the call is not assigned to the interface. In this way you can restrict the number of users permitted to make calls to the router (inbound).

By default, the access control is enabled when a new dial profile is created.

2.7. Idle Time

It is a good idea to establish an inactive time, which, once lapsed, and there is no traffic in a channel (*switched*), the communication is released and the channel is free for another user.

On the other hand, there are special cases where connection is required to be permanently established for example when you establish a data link over a *semipermanent* channel. In this case, it is necessary to configure an 'infinite' inactive time (the inactive time should be configured as "**0**").

NOTE: You need to bear in mind that certain types of links (Frame Relay for example) can have intrinsic/inherent traffic towards the link (in the case in question, LMI traffic) thus the call is never released due to absence of traffic in the channel.

2.8. Callback

With Callback enabled, an inbound call is permitted to activate an outbound call towards a configured destination (this can be towards the inbound call source or to a different destination). Thus, when a call is received in the interface, provided the callback for this calling number is enabled (if this is the authorized callback), the call is released and the local end makes another call to the corresponding remote end.

You can specify if any inbound call, independently of the source, can activate callback or contrariwise only those calls coming from a specific remote address (previously configured) activates callback.

2.9. Call Disconnection

The Call Disconnection parameter permits you to specify if a call should be disconnected (inbound or outbound) which initiated during the permitted connection period and is still active when the said connection period terminates or contrariwise, the call remains established.

2.10. Permitted Connection Time

Occasionally, the existence of a time period where the device can make outbound calls and receive calls from a remote end is very useful. I.e. outside of this period, calls cannot be made or received.

You can configure distinct permitted connection intervals (up to a maximum of 10). The permitted connection period is achieved by joining the different defined connection intervals. If a connection interval has not been configured for a specific dial profile then calls can be established at any time.

Additionally, in order to offer greater flexibility, you can specify the type of calls (inbound, outbound or both) to be affected by each permitted connection interval i.e. the type of calls permitted within the connection time.

2.11. Profile Code

The Profile Code provides you with a mechanism so that a call is not established if the value of this parameter does not match at both ends (local and remote) or when this value has not been configured at one or both of the ends. This is another functionality restricting call establishment.

2.12. ISDN Class 56

Permits ISDN connections at 56Kbps when the standard configured in the Basic interface corresponds to an American standard (e.g. NI-1). In some local switchboards and operators (RBOC), the connection speed is limited to 56Kbps (FCC limits). This option needs to be activated in this type of environment. During call establishment this is sent as the carrier capacity for the 56Kbps circuit.

In cases where the standard selected is Euro-ISDN, this parameter is ignored and the connections over the B channel are always executed at 64Kbps.

2.13. Call Retry Control

The call retry control parameters are used when you wish to limit the number of times you can carry out a call to a remote address without achieving a successful connection. In this way you can prevent constant calls being made to a destination which may be busy at this particular moment or is inaccessible. The call retry control parameters specify the interval between successive call attempts, the possible number of call retries to carry out and also provides the possibility of preventing the calls (during a configurable time interval) when all the call attempts have been made and communication was not be achieved.

Chapter 2
Dial Profile Configuration

1. Configuration Commands

1.1. Accessing the Dial Profile Configuration prompt

The dial profile configuration commands must be entered at the configuration prompt associated to them (*DIALPROF config>*). In order to access this prompt, you need to use the **SET DIAL-PROFILE** command (at the general configuration prompt, *Config>*).

```
Config>SET DIAL-PROFILE

-- DIAL PROFILE Configuration --
DIALPROF config>
```

Once you have accessed the dial profile configuration prompt, you can enter any of the commands given below:

Command	Function
INTERVAL	Configures the connection intervals.
LIST	Displays the configuration of the dial profiles.
PROFILE	Configures the dial profiles.

1.2. PROFILE

The **PROFILE** command configures the dial profiles.

Syntax:

```
DIALPROF config>PROFILE <profile name> [options]
```

The profile name is an identifier with a maximum number of 15 characters which may include letters and the "_" character.

In order to eliminate a dial profile, use the ***no profile*** <***profile name***>.

The available options are as follows:

a) alternative-address <alternative remote address>

Configures the alternative remote address. By default there is no alternative remote address.

Example:

```
DIALPROF config>PROFILE example alternative-address 123456789
DIALPROF config>
```

b) callback

Enables callback in the specified dial profile. If you wish to enable callback for any inbound call, you need to use the ***callback all*** option while if you want callback when receiving calls from a determined number you need to use the ***callback number*** <***callback authorized nº***> option.

In order to disable callback in a profile, use the ***profile*** <***profile***> ***no callback***.

NOTE: The authorized callback number can be distinct to that going to be called to establish the connection.

Example:

Callback on receiving a call from any number.

```
DIALPROF config>PROFILE example callback all
DIALPROF config>
```

Example:

Callback only authorized from number 1122334455.

```
DIALPROF config>PROFILE example callback number 1122334455
DIALPROF config>
```

c) caller <authorized number>

Configures an authorized caller. Only inbound calls coming from the authorized callers are accepted. If you do not specify any authorized caller then all inbound calls are accepted.

By default there is no authorized caller (all inbound calls are accepted). You can configure up to a maximum of 32 authorized callers.

In order to eliminate an authorized caller, use the ***profile*** <***profile***> ***no caller*** <***caller***>.

Example:

```
DIALPROF config>PROFILE example caller 222333444
DIALPROF config>
```

d) call-list <access list>

Configures the access list to be used to determine what IP traffic can provoke calls. If an access control list is specified, all the IP packets not permitted by the list will be incapable of provoking a call.

In order to disable this feature (i.e. all the packets are able to provoke calls) use the ***profile*** <***profile***> ***no call-list***.

NOTE: This feature only affects IP traffic and is an additional filter when deciding if a packet will initiate the call process. Other filters can drop the packet as for example the RIP-no-dial in PPP option.

Example:

```
DIALPROF config>PROFILE example call-list 1
DIALPROF config>
```

e) call-retry

Configures the control over the call retry parameters. These parameters are used to avoid calls being constantly carried out to a destination that may be busy at this point or be inaccessible. You can specify the interval between call retries, the number of retries to execute and a time to disable the calls if all attempts to establish the communication fail.

call-retry interval <***seconds***>: time interval (in seconds) that must lapse between two consecutive call retries. The permitted range of values is between 5 and 86400 seconds.

call-retry attempts <***number of attempts***>: number of call retries to execute. The permitted values are from 0 (no retries) to 100. The default value is 5.

call-retry disable-time <***seconds***>: time (in seconds) that the calls are disabled if all the call attempts fail. The range of permitted values is between 0 (the calls are not disabled) and 86400 seconds. The default value is 3600 seconds.

In order to disable the call retry control, use ***profile*** <***profile***> ***no call-retry***.

Example:

Call retries every 15 seconds, 4 retries and if all of these fail the calls are disabled for 2 hours.

```
DIALPROF config>PROFILE example call-retry interval 15
DIALPROF config>PROFILE example call-retry attempts 4
DIALPROF config>PROFILE example call-retry disable-time 7200
DIALPROF config>
```

f) code <code>

Configures the profile code. You can indicate an empty code if you do not wish the equality check for the value of this parameter at the local and remote end as a condition to establish the call to be carried out.

Example:

```
DIALPROF config>PROFILE example code abcdefg
DIALPROF config>
```

g) default

Creates a new dial profile with the default values or restore the default configuration of an already existing profile.

Example:

```
DIALPROF config>PROFILE example default
DIALPROF config>
```

h) dial-access

Enables the access controls. On enabling the access controls a check is carried out in the inbound calls (if these are permitted) if the addresses configured in the profile coincide with those in the call, consequently carrying out the verification of the numbers (if these were configured in the profile). By default, the access controls are enabled.

To disable the access controls, use ***profile*** <***profile***> ***no dial-access.***

Example:

```
DIALPROF config>PROFILE example dial-access
DIALPROF config>
```

i) dialin

Configures the dial profile to only receive inbound calls. Enables the inbound call permissions and disables the outbound call permissions.

To prevent inbound calls, use the ***profile*** <***profile***> ***no dialin***.

Example:

```
DIALPROF config>PROFILE example dialin
DIALPROF config>
```

j) dialout

Configures the dial profile to only carry out outbound calls. Enables the outbound call permissions and disables the inbound call permissions. By default, the dial profiles have the outbound calls enabled.

To prevent outbound calls, use the ***profile*** <***profile***> ***no dialout***.

Example:

```
DIALPROF config>PROFILE example dialout
DIALPROF config>
```

k) dial-time <seconds>

Configures the idle time. The default value is 0 (the call is not released due to absence of traffic).

NOTE: In order to configure a connection as semipermanent (i.e. the call is never released due to absence of traffic), you need to set the idle time parameter to '0'.

Example:

```
DIALPROF config>PROFILE example idle-time 120
DIALPROF config>
```

l) inout

Configures the dial profile to execute outbound calls and accept inbound calls. Enables the outbound and inbound call permissions simultaneously.

In order to prevent both the inbound and outbound calls, use ***profile*** <***profile***> ***no inout***. This is equivalent to disabling the profile.

Example:

```
DIALPROF config>PROFILE example inout
DIALPROF config>
```

m) isdn-class <class>

Configures the type of ISDN connection. The permitted values are ***64kbps*** and ***56kbps.*** By default the connection is executed at 64kbps. When the norm configured over the ISDN interface is North American e.g. NI-1, you need to configure 56kbps.

Example:

```
DIALPROF config>PROFILE example isdn-class 64kbps
DIALPROF config>
```

n) local-address <local address>

Configures the local address of the profile. You can indicate a specific address or leave this empty to indicate *all addresses* (useful for outbound dial profiles where you specify that any local address can carry out calls).

Example:

```
DIALPROF config>PROFILE example local-address 111111111
DIALPROF config>
```

o) remote-address <remote address>

Configures the profile remote address. This is the destination number which will be called when an outbound call needs to be executed.

NOTE: If you do not configure a remote address, the device CANNOT carry out outbound calls even if the permissions (outbound) are enabled.

Example:

```
DIALPROF config>PROFILE example remote-address 222222222
DIALPROF config>
```

p) shutdown

Enables the disconnection of the calls that are outside the permitted connection period. In this way, if the connection intervals are defined, only the active calls in these permitted time intervals will be allowed to establish and/or maintain.

By default, this parameter is enabled. In order to disable it, use ***profile*** <***profile***> ***no shutdown***.

Example:

```
DIALPROF config>PROFILE example shutdown
DIALPROF config>
```

1.3. INTERVAL

The **INTERVAL** command configures the permitted connection intervals associated to an existing dial profile.

Syntax:

```
DIALPROF config>INTERVAL <profile> <interval nº> [options]
```

In order to eliminate a connection interval, use ***no interval*** <***profile***> <***interval number***>.

The available options are as follows:

a) time <start hour> <start minute> <end hour> <end minute>

Establishes the connection interval start and end times. By default the connection interval is defined from 00:00 to 23:59 (the whole day).

Example:

Configuring a connection interval from 17:00 to 23:30.

```
DIALPROF config>INTERVAL example 1 time 17 00 22 30
DIALPROF config>
```

b) sun, mon, tue, wed, thu, fri, sat

This permits you to carry out/receive calls on the corresponding days of the week *sun*: Sunday, *mon*: Monday, ...*sat*: Saturday. By default the connection interval does not have any of the weekday enabled.

Example:

Permitting calls from Monday to Friday.

```
DIALPROF config>INTERVAL example 2 mon tue wed thu fri
DIALPROF config>
```

Example:

Permitting calls during the weekend.

```
DIALPROF config>INTERVAL interval example 3 sun
DIALPROF config>INTERVAL interval example 3 sat
DIALPROF config>
```

c) inbound

This indicates that the interval only permits inbound calls.

Example:

```
DIALPROF config>INTERVAL example 4 inbound
DIALPROF config>
```

d) *inout*

This indicates that the interval permits both inbound and outbound calls. By default the connection intervals permit both inbound and outbound calls.

Example:

```
DIALPROF config>INTERVAL example 5 inout
DIALPROF config>
```

e) *outbound*

This indicates that the interval only permits outbound calls.

Example:

```
DIALPROF config>INTERVAL example 6 outbound
DIALPROF config>
```

1.4. LIST

A list with all the Dial Profiles configured in the router as well as the parameters can be displayed through the **LIST** command. This also displays the connection intervals associated to each dial profile.

Example:

```
DIALPROF config>LIST
DIAL PROFILE..: example
Local Address.:
Remote Address: 111111111             Alternative Remote:
Permissions...: Outbound
Idle Time.....: 120                   Access Control: Yes
Shutdown Calls: Yes
Callback......: 222222222
ISDN Class....: 64 Kbps
Call Retry....: interval 15, attempts 5, disable-time 3600
Call List.....: No
Int: 001, Start 08:00, End 20:00, Days .-M-T-W-T-F-., used in outbound calls


DIAL PROFILE..: another_example
Local Address.: 333333333
Remote Address: 444444444             Alternative Remote: 555555555
Permissions...: Inbound & Outbound
Idle Time.....: 60                    Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No
Int: 001, Start 08:30, End 13:30, Days S-M-T-W-T-F-S, used in all calls
Int: 002, Start 15:30, End 17:30, Days S-.-.-.-.-.-S, used in inbound calls
Authorized Caller(s): [01] 666666666
                      [02] 777777777

DIALPROF config>
```

Chapter 3
Configuration Examples

1. Dial Profile Examples

Various cases for Dial Profile configuration are detailed in this chapter.

The Profile types examples we are going to describe are the following:

1. Inbound calls directed to a determined Local Address.
2. Outbound calls to a determined Remote Address.
3. All inbound calls permitted (with timetable restrictions).
4. Inbound and outbound calls, with the inbound calls proceeding from various authorized numbers and with control over the call retries for outbound calls.
5. Callback.

1.1. Inbound Calls towards a Local Address

In this case, a dial profile is generated in such a way that all calls carried out towards a determined local address are accepted. An idle time of 30 seconds is also established for this example.

The profile is created in the following way:

```
DIALPROF config>PROFILE example_1 default
DIALPROF config>PROFILE example_1 local-address 123456789
DIALPROF config>PROFILE example_1 dialin
DIALPROF config>PROFILE example_1 idle-time 30
DIALPROF config>
```

In order to make sure the calls are sent to the specified number and all others are rejected, you must remember that the access control is enabled by default.

In order to see the created profile in the Dial Profile list:

```
DIALPROF config>LIST
DIAL PROFILE..: example_1
Local Address.: 123456789
Remote Address:                        Alternative Remote:
Permissions...: Inbound
Idle Time.....: 30                     Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No

DIALPROF config>
```

As you can see in the *example_1* profile, all the *inbound* calls directed towards the local address *123456789* are accepted independently of the remote address originating the call. Also it is impossible to carry out *outbound* calls i.e. you cannot initiate a call from the local interface (even though traffic is being transmitted).

1.2. Outbound Calls to a Remote Address

This time we are going to create a profile in such a way that all the calls locally generated are directed towards a determined remote address. All "DIAL" interfaces that this profile has associated can initiate connections with the configured remote end but a connection cannot be established when it is the remote end carrying out the communication.

The profile is created in the following way:

```
DIALPROF config>PROFILE example_2 default
DIALPROF config>PROFILE example_2 remote-address 987654321
DIALPROF config>PROFILE example_2 idle-time 120
DIALPROF config>
```

To view the created profile in the Dial Profile list:

```
DIALPROF config>LIST
DIAL PROFILE..: example_1
Local Address.: 123456789
Remote Address:                      Alternative Remote:
Permissions...: Inbound
Idle Time.....: 30                   Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_2
Local Address.:
Remote Address: 987654321            Alternative Remote:
Permissions...: Outbound
Idle Time.....: 120                  Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No

DIALPROF config>
```

As you can see in the *example_2* profile, all *outbound* calls sent to the remote address *987654321* are accepted and transmitted independently of origin. However, no "outside" calls can be received.

In this case, a 2-minute idle time has also been configured.

1.3. All Inbound Calls

The aim of this profile is to permit any call reaching the interface be processed as directed independently of the destination address and who originated the call. This profile is designed to process all calls received by a determined interface without having to specify origin or destination. Additionally timetable restrictions are imposed on the calls.

The profile is created in the following way:

```
DIALPROF config>PROFILE example_3 default
DIALPROF config>PROFILE example_3 idle-time 60
DIALPROF config>
```

You need to bear in mind that by default the dial profiles are ***dialout*** types, consequently inbound calls are not permitted. Therefore you need to configure the profile as ***dialin*** as seen in example 1.

```
DIALPROF config>PROFILE example_3 dialin
DIALPROF config>
```

We are now going to impose the following timetable restrictions on the calls: inbound calls are permitted from Monday to Friday (all day) and Saturdays from 08:00 to 14:00.

Two connection intervals are specified for this:

```
DIALPROF config>INTERVAL example_3 1 time 0 0 23 59
DIALPROF config>INTERVAL example_3 1 sun mon tue wed fri
DIALPROF config>INTERVAL example_3 1 inbound
DIALPROF config>INTERVAL example_3 2 time 8 0 14 0
DIALPROF config>INTERVAL example_3 2 sat
DIALPROF config>INTERVAL example_3 2 inbound
DIALPROF config>
```

You can see in the profiles list that the *example_3* profile has inbound calls restricted to the configured connection intervals:

```
DIALPROF config>LIST
DIAL PROFILE..: example_1
Local Address.: 123456789
Remote Address:                         Alternative Remote:
Permissions...: Inbound
Idle Time.....: 30                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_2
Local Address.:
Remote Address: 987654321               Alternative Remote:
Permissions...: Outbound
Idle Time.....: 120                     Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_3
Local Address.:
Remote Address:                         Alternative Remote:
Permissions...: Inbound
Idle Time.....: 60                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
```

```
Call List.....: No
Int: 001, Start 00:00, End 23:59, Days S-M-T-W-.-F-., used in inbound calls
Int: 002, Start 08:00, End 14:00, Days .-.-.-.-.-.-S, used in inbound calls

DIALPROF config>
```

1.4. Inbound calls (from various authorized callers) and outbound + call retry Control

Through this profile, calls from various destinations can be received and at the same time outbound calls can be made.

You are also going to configure the call retries control facility.

The profile is added:

```
DIALPROF config>PROFILE example_4 default
DIALPROF config>PROFILE example_4 local-address 111111111
DIALPROF config>PROFILE example_4 remote-address 222222222
DIALPROF config>PROFILE example_4 inout
DIALPROF config>PROFILE example_4 idle-time 60
DIALPROF config>PROFILE example_4 caller 333333333
DIALPROF config>PROFILE example_4 caller 444444444
DIALPROF config>PROFILE example_4 caller 555555555
DIALPROF config>PROFILE example_4 call-retry interval 10
DIALPROF config>PROFILE example_4 call-retry attempts 3
DIALPROF config>PROFILE example_4 call-retry disable-time 300
DIALPROF config>
```

Verify the profile list:

```
DIALPROF config>LIST
DIAL PROFILE..: example_1
Local Address.: 123456789
Remote Address:                         Alternative Remote:
Permissions...: Inbound
Idle Time.....: 30                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_2
Local Address.:
Remote Address: 987654321               Alternative Remote:
Permissions...: Outbound
Idle Time.....: 120                     Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_3
Local Address.:
```

```
Remote Address:                         Alternative Remote:
Permissions...: Inbound
Idle Time.....: 60                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No
Int: 001, Start 00:00, End 23:59, Days S-M-T-W-.-F-., used in inbound calls
Int: 002, Start 08:00, End 14:00, Days .-.-.-.-.-.-S, used in inbound calls


DIAL PROFILE..: example_4
Local Address.: 111111111
Remote Address: 222222222               Alternative Remote:
Permissions...: Inbound & Outbound
Idle Time.....: 60                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: interval 10, attempts 3, disable-time 300
Call List.....: No
Authorized Caller(s): [01] 333333333
                      [02] 444444444
                      [03] 555555555

DIALPROF config>
```

The *example_4* profile permits inbound calls from numbers 333333333, 444444444 and 555555555 to be accepted. In addition, when the local end executes an outbound call (to number 222222222), if the remote end does not respond, the local end does not try to call again until 10 seconds has lapsed and so on until 3 retries have been executed. If all the retries have been made and the call has not been established with the remote end, the calls are disabled for 5 minutes.

1.5. Callback

We are going to configure a profile with callback in the following example. When an indication for a call coming from a determined destination is received, the device will reject this call and proceed in turn to call the remote address configured in the profile.

The profile is created:

```
DIALPROF config>PROFILE example_5 default
DIALPROF config>PROFILE example_5 remote-address 666666666
DIALPROF config>PROFILE example_5 idle-time 600
DIALPROF config>PROFILE example_5 callback number 666666666
DIALPROF config>
```

Verify the profiles list:

```
DIALPROF config>LIST
DIAL PROFILE..: example_1
Local Address.: 123456789
Remote Address:                         Alternative Remote:
Permissions...: Inbound
Idle Time.....: 30                      Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
```

```
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_2
Local Address.:
Remote Address: 987654321             Alternative Remote:
Permissions...: Outbound
Idle Time.....: 120                   Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No


DIAL PROFILE..: example_3
Local Address.:
Remote Address:                       Alternative Remote:
Permissions...: Inbound
Idle Time.....: 60                    Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No
Int: 001, Start 00:00, End 23:59, Days S-M-T-W-.-F-., used in inbound calls
Int: 002, Start 08:00, End 14:00, Days .-.-.-.-.-.-S, used in inbound calls


DIAL PROFILE..: example_4
Local Address.: 111111111
Remote Address: 222222222             Alternative Remote:
Permissions...: Inbound & Outbound
Idle Time.....: 60                    Access Control: Yes
Shutdown Calls: Yes
Callback......: None
ISDN Class....: 64 Kbps
Call Retry....: interval 10, attempts 3, disable-time 300
Call List.....: No
Authorized Caller(s): [01] 333333333
                      [02] 444444444
                      [03] 555555555


DIAL PROFILE..: example_5
Local Address.:
Remote Address: 666666666             Alternative Remote:
Permissions...: Outbound
Idle Time.....: 600                   Access Control: Yes
Shutdown Calls: Yes
Callback......: 666666666
ISDN Class....: 64 Kbps
Call Retry....: Disabled
Call List.....: No

DIALPROF config>
```

According to the *example_5*profile parameters, when a call is received from address *666666666*, this is rejected and the device calls this address *666666666*. The idle time has also been established at 10 minutes. The call towards the destination address *666666666* can also be provoked if there is outbound traffic as the outbound calls are enabled.