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12. Hunt groups how to

Hunt groups enable set one phone number (this number is referred as pilot number) as distributor of call to extensions defined in number list. Hunt group **selection algorithm** defines who receive next call in list. Our lab will show you how to configure simple hunt group on Cisco Unified CME.

Basic terms bounded with hunting number in list from pilot number are:

- **pilot number** - ephone-DN that is dialed to reach a hunt group. (optionally keyword secondary)
- **algorithm type** - method used to select which phone in hunt list should ring next,
- **list of member** - group of ephone-DN that belong to the hunt "pool",
- **hops** - number of extensions that algorithm will try to ring before going to the final number,
- **timeout** - in seconds - how long will ring a extension in hunt list before moving to the next extension selected by algorithm,
- **final number** - number that is tried last after the number of hops has been exceeded

For hunt group creation is used `ephone-hunt <Tag>` configuration command. Tag can be number from 1 to 100.

For selection of next ringing phone in **hunt** group in Cisco Unified CME can be selected these **algorithm**:

1. **Longest idle** - ring phone that was longest idle
2. **Sequential** - rings extensions in exact order as was configured in list
3. **Peer** - circular fashion - next ringed extension is in right position in list against previews ringed.

Our scenario consist of three ephone with unique extensions 1000, 1010 and 1020. All numbers are in hunt list. For `ephone-hunt <Tag> algorithm` we select nr. 10. As a pilot number had been selected 2000. Final destination after ringing number in list after hop 2 is first extension 1000.

Next picture show configuration commands and appropriate options for select

```

max-ephones 10
ephone 1
  device-security-mode none
  mac-address 001E.8C02.BD12
ephone 2
  device-security-mode none
  mac-address 000C.2906.E749
ephone 3
  device-security-mode none
  mac-address 000C.296C.D695
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ephone-dn 1
Router(config-ephone-dn)#
*Mar 1 00:10:20.359: %LINK-3-UPDOWN: Interface ephone_dsp DN 1.1, changed state
to up
Router(config-ephone-dn)#number 1000
Router(config-ephone-dn)#name Ciljak
Router(config-ephone-dn)#ephone-dn 2
Router(config-ephone-dn)#number
*Mar 1 00:10:38.935: %LINK-3-UPDOWN: Interface ephone_dsp DN 2.1, changed state
to up 1010
Router(config-ephone-dn)#name Worker 1
Router(config-ephone-dn)#ephone-dn 3
Router(config-ephone-dn)#name
*Mar 1 00:11:04.155: %LINK-3-UPDOWN: Interface ephone_dsp DN 3.1, changed state
t
Router(config-ephone-dn)#number 1020
Router(config-ephone-dn)#name Worker 2
Router(config-ephone-dn)#ext
Router(config)#ephone-hunt 10 ?
  longest-idle longest idle hunting
  peer          peer hunting
  sequential    sequential hunting
Router(config)#ephone-hunt 10 peer ?
<cr>

Router(config)#ephone-hunt 10 peer
Router(config-ephone-hunt)#?
EPHONE-HUNT configuration commands:
  auto          enable automatic features
  callqueue     select B-ACD callqueue option
  default       Set a command to its defaults
  description   configure description for this hunt group
  display-logout configure display for this hunt group all logout
  exit          Exit from ephone hunt configuration mode
  final         final number for hunt group
  forward       with no forward, disable forward for local calls
  fwd-final     select forward to original phone or configured final
  hops          maximum number of hunting hops
  list          list of number in hunt group
  max-timeout   max-timeout in seconds for hunting
  no            Negate a command or set its defaults
  no-reg        not register pilot number to gatekeeper
  pilot         pilot number for hunt group
  preference    preference of pilot number
  present-call  selectively present call based on phone state
  secondary     define secondary entry point
  statistics    enable statistic information collect
  timeout       timeout in seconds for hunting
  
```

our training softphones

ephone 1 with ext 1000 will act as final (last resort if no until 2 hops extension respond)

hunted extension

create huntgroup with tag 10

hunt group algoritmus

available commands under ephone-hunt config

Closer look at call to hunt pilot and mechanism of selection ringing phone by hunt algorithm describe next two pictures:



[2]



First number in hunt list is extension 1000 next hunted number is right from 1000 (it is 1010) because peer (circular) algorithm was configured using ephone-hunt 10 peer command. When hops reach 2 (two ringed extensions) final number 1000 take ringing line.

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[3] http://cdesigner.eu/obsah/voip/lab13/3_Hunting_sequence.jpg

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