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## User-Specific Configurations for Call Statistic Collection: Example

The following example shows the user-specific configuration that includes accounting method, time ranges, maximum storage duration, and the archiving of the statistics to an FTP and syslog server:

```
Router# show running-config | include voice statistics
```

```
voice statistics accounting method h323-1 pass start-interim-stop
voice statistics time-range since-reset
voice statistics time-range periodic 5minutes start 00:00 end 00:00 days-of-week daily
voice statistics max-storage-duration minute 40
voice statistics push ftp url ftp://sgcp:sgcp@anyone-pc:21//ftp_files
voice statistics push syslog max-file-size 4000000000
voice statistics display-format separator new-line
voice statistics field-params lost-packet 1000
voice statistics field-params mcd 2
voice statistics field-params packet-jitter 255
voice statistics field-params packet-latency 150
```

 **Note:** The type of statistics is not shown in a running configuration because the **voice statistics type csr** command activates only the collection of statistics. If you do not specify a type, both signaling and accounting statistics are collected.

## Manually Clearing Statistics: Example

The following example shows how to clear all of the voice statistics that have been collected:

```
Router# clear voice statistics csr
```

The following example verifies the clearing by showing that all of the parameters have been set to zero:

```
Router# show voice statistics csr since-reset all
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z          End Time: 2002-04-25T01:49:27Z
record_type=gw,trunk_group_id=,voice_port_id=,in_call=0,in_ans=0,in_fail=0,out_c
all=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,
out_pdd=0,in_setup_delay=0,out_setup_delay=0,lost_pkt=0,latency=0,
jitter=0,in_disc_cc_16=0out_disc_cc_16=0
!
record_type=ip,trunk_group_id=,voice_port_id=,in_call=0,in_ans=0,in_fail=0,out_c
all=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,
out_disc_cc_16=0
!
record_type=pstn,trunk_group_id=,voice_port_id=,in_call=0,in_ans=0,in_fail=0,out_call=0,
out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,orig_disconn=0,
in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,in_setup_delay=0,
out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
record_type=vp,trunk_group_id=,voice_port_id=4/0/0,in_call=0,in_ans=0,in_fail=0,
out_call=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,
out_pdd=0,in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
Client Type: Voice ACCT Stats
      Start Time: 2002-04-25T01:48:04Z          End Time: 2002-04-25T01:49:30Z
methodlist=h323-1,acc_pass_criteria=0,pstn_in_pass=0,pstn_in_fail=0,pstn_out_pass=0,
pstn_out_fail=0,ip_in_pass=0,ip_in_fail=0,ip_out_pass=0,ip_out_fail=0
```

## Collection of Aggregation-Level Statistics: Example

The following example shows the different levels of signaling statistics that can be collected:

```
Router# show voice statistics csr since-reset aggregation-level ?
  all           Statistics at all signaling levels
  gateway       Gateway wide
```

```

ip          Voip interface level
pstn       Telephony interface level
trunk-group Trunk group level
voice-port  Voice-port level
    
```

The following example shows the collected statistics:

```

Router# show voice statistics csr since-reset aggregation-level all
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z      End Time: 2002-04-25T01:50:01Z
record_type=gw,trunk_group_id=12,voice_port_id=1/0,in_call=10,in_ans=10,in_fail=0,
out_call=3,out_ans=0,out_fail=3,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
!
record_type=ip,trunk_group_id=1,voice_port_id=2/0,in_call=1,in_ans=1,in_fail=0
!
record_type=pstn,trunk_group_id=,voice_port_id=,in_call=0,in_ans=0,in_fail=0,out_call=0,
out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,o
!
record_type=vp,trunk_group_id=1,voice_port_id=4/0/0,in_call=0,in_ans=0,in_fail=0,
out_call=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
    
```

The following example shows the intervals at which statistics were collected:

```

Router# show voice statistics interval-tag
Current Time: 2002-04-25T01:52:11Z
INTERVAL-TAG  START TIME                END TIME
=====
10            2002-04-25T01:10:00Z          2002-04-25T01:15:00Z
11            2002-04-25T01:15:00Z          2002-04-25T01:20:00Z
12            2002-04-25T01:20:00Z          2002-04-25T01:25:00Z
13            2002-04-25T01:25:00Z          2002-04-25T01:30:00Z
14            2002-04-25T01:30:00Z          2002-04-25T01:35:00Z
15            2002-04-25T01:35:00Z          2002-04-25T01:40:00Z
16            2002-04-25T01:40:00Z          2002-04-25T01:45:00Z
17            2002-04-25T01:45:00Z          2002-04-25T01:50:00Z
18            2002-04-25T01:50:00Z          2002-04-25T01:52:11Z
    
```

## Memory Usage: Example

The following example shows the amount of memory being used for accounting and signaling CSRs by fixed interval and since a reset or reboot. It also shows the estimated memory allocated for future use.

```

Router# show voice statistics memory-usage csr
*** Voice Call Statistics Record Memory Usage ***
      Fixed Interval Option -
          CSR size: 136 bytes
          Number of CSR per interval: 9
          Used memory size (proximate): 0
          Estimated future claimed memory size (proximate): 10
      Since Reset Option -
          CSR size: 136 bytes
          Total count of CSR: 9
          Used memory size (proximate): 1224
*** Voice Call Statistics Accounting Record Memory Usage ***
      Fixed Interval Option -
          ACCT REC size: 80 bytes
    
```

```

Number of ACCT REC per interval: 1
Used memory size (proximate): 0
Estimated future claimed memory size (proximate): 25
Since Reset Option -
ACCT REC size: 80 bytes
Total count of ACCT REC: 1
Used memory size (proximate): 80

```

## Collection of Statistics Since System Reset: Examples

This section provides the following examples:

- [Example of the show voice statistics csr since-reset accounting all Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level all Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level gateway Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level ip Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level pstn Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level trunk-group all Command](#)
- [Example of the show voice statistics csr since-reset aggregation-level voice-port all Command](#)

### Example of the show voice statistics csr since-reset accounting all Command

The following example shows all accounting statistics:

```

Router# show voice statistics csr since-reset accounting all
Client Type: VCSR
Start Time: 2002-04-25T01:48:12Z      End Time:2002-04-25T01:50:01Z
methodlist=h323-1,acc_pass_criteria=1,pstn_in_pass=10,pstn_in_fail=0,pstn_out_pass=10
pstn_out_fail=0,ip_in_pass=15,ip_in_fail=0,ip_out_pass=15,ip_out_fail=0

```

### Example of the show voice statistics csr since-reset aggregation-level all Command

The following example shows all aggregation level statistics:

```

Router# show voice statistics csr since-reset aggregation-level all
Client Type: VCSR
Start Time: 2002-04-25T01:48:12Z      End Time: 2002-04-25T01:50:01Z
record_type=gw,trunk_group_id=1,voice_port_id=2,in_call=120,in_ans=120,in_fail=0
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,
out_disc_cc_16=0
!
record_type=ip,trunk_group_id=2,voice_port_id=3,in_call=120,in_ans=120,in_fail=0
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,
out_disc_cc_16=0
!
record_type=pstn,trunk_group_id=5,voice_port_id=2,in_call=150,in_ans=100,in_fail=50,
out_call=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0

```

### Example of the show voice statistics csr since-reset aggregation-level gateway Command

The following example shows the gateway aggregation level statistics:

```

Router# show voice statistics csr since-reset aggregation-level gateway

```

```
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z      End Time: 2002-05-02T21:21:14Z
record_type=gw,trunk_group_id=1,voice_port_id=1,in_call=10,in_ans=10,in_fail=0,out_call=50
out_ans=10,out_fail=40,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,orig_disconn=0,
in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,in_setup_delay=0,
out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,out_disc_cc_16=0
```

#### Example of the show voice statistics csr since-reset aggregation-level ip Command

The following example shows the IP aggregation level statistics:

```
Router# show voice statistics csr since-reset aggregation-level ip
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z      End Time: 2002-05-02T21:21:27Z
record_type=ip,trunk_group_id=1,voice_port_id=1,in_call=10,in_ans=10,in_fail=0,out_call=50
out_ans=10,out_fail=40,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,orig_disconn=0,
in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,in_setup_delay=0,
out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,out_disc_cc_16=0
```

#### Example of the show voice statistics csr since-reset aggregation-level pstn Command

The following example shows the PSTN aggregation level statistics:

```
Router# show voice statistics csr since-reset aggregation-level pstn
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z      End Time: 2002-05-02T21:21:42Z
record_type=pstn,trunk_group_id=1,voice_port_id=1,in_call=10,in_ans=10,in_fail=0,
out_call=50,out_ans=10,out_fail=40,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,lost_pkt=0,latency=0,jitter=0,in_disc_cc_16=0,
out_disc_cc_16=0
```

#### Example of the show voice statistics csr since-reset aggregation-level trunk-group all Command

The following example shows the trunk-group aggregation level statistics:

```
Router# show voice statistics csr since-reset aggregation-level trunk-group all
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z      End Time: 2002-05-02T21:22:08Z
record_type=pstn,trunk_group_id=15,voice_port_id=3,in_call=20,in_ans=20,in_fail=0,
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
record_type=pstn,trunk_group_id=16,voice_port_id=4,in_call=20,in_ans=20,in_fail=0,
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
record_type=pstn,trunk_group_id=17,voice_port_id=5,in_call=20,in_ans=20,in_fail=0,
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
record_type=pstn,trunk_group_id=18,voice_port_id=6,in_call=20,in_ans=20,in_fail=0,
out_call=10,out_ans=10,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
```

**Example of the show voice statistics csr since-reset aggregation-level voice-port all Command**

The following example shows the voice-port aggregation level statistics:

```
Router# show voice statistics csr since-reset aggregation-level voice-port all
Client Type: VCSR
      Start Time: 2002-04-25T01:48:12Z          End Time: 2002-05-02T21:22:52Z
record_type=vp,trunk_group_id=a,voice_port_id=4/0/0,in_call=22,in_ans=14,in_fail=8,
out_call=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
!
record_type=vp,trunk_group_id=b,voice_port_id=4/0/1,in_call=22,in_ans=14,in_fail=8,
out_call=0,out_ans=0,out_fail=0,in_szre_d=0,out_szre_d=0,in_conn_d=0,out_conn_d=0,
orig_disconn=0,in_ans_abnorm=0,out_ans_abnorm=0,in_mcd=0,out_mcd=0,in_pdd=0,out_pdd=0,
in_setup_delay=0,out_setup_delay=0,in_disc_cc_16=0,out_disc_cc_16=0
```

**Designated Server Group: Example**

The following example shows that a designated server group has been configured for a broadcast method list.

```
Router# show voice statistics | begin aaa group server
aaa group server radius billing-grp
  server 1.6.37.20 auth-port 1645 acct-port 1646
  accounting acknowledge broadcast
```

**Location of the FTP Server: Example**

The following example shows the location of the FTP server:

```
Router# show running-config
Building configuration...
Current configuration : 5444 bytes
!
version 12.3
!
voice statistics push ftp url ftp://sgcp:sgcp@abc-pc:21//ftp_files
voice statistics push ftp max-file-size 4000000000
!
```

**Maximum File Size for the Syslog Server: Example**

The following example shows the maximum file size to be downloaded to the syslog server:

```
Router# show running-config
Building configuration...
Current configuration : 5444 bytes
!
version 12.3
!
voice statistics push syslog max-msg-size 4000000000
```

## Maximum Duration for Storage: Example

The following configuration example shows a maximum storage of 60 minutes:

```
Router# show running-config | include voice statistics
!  
voice statistics max-storage-duration minute 60
```