



## Switching CDRs

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This appendix describes the following procedures:

- [Switching CDRs from HDD to GSS, on page 1](#)
- [Switching CDRs from GSS to HDD, on page 4](#)

## Switching CDRs from HDD to GSS

This section describes how to switch CDRs from HDD to GSS with:

- [LRSN Enabled, on page 1](#)
- [LRSN Disabled, on page 2](#)

### LRSN Enabled

To switch CDRs from HDD to GSS with LRSN enabled:



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**Important** This configuration change must be undertaken in a maintenance window, when the load is minimum.

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**Step 1** Configure the GSS server, and ensure that GSS and GGSN have no connectivity issues.

- If configuring to the *default* GTPP group:

```
configure
  gtp single-source centralized-lrsn-creation
  context <billing>
    gtp charging-agent address <address>
    gtp storage-server <address> port <port>
    gtp max-cdrs 255 wait-time 300
  end
show configuration | grep gtp
```

**Important** After you configure the `gtp single-source centralized-lrsn-creation` command, you must save the configuration and then reload the chassis for the command to take effect. For information on saving the configuration file and reloading the chassis, refer to the *System Administration Guide* for your deployment.

- If configuring to a specific GTPP group:

```
configure
  gtp single-source centralized-lrsn-creation
  context <billing>
    gtp group <gtp_group>
      gtp charging-agent address <address>
      gtp storage-server <address> port <port>
      gtp max-cdrs 255 wait-time 300
    end
  show configuration | grep gtp
```

**Important** After you configure the **gtp single-source centralized-lrsn-creation** command, you must save the configuration and then reload the chassis for the command to take effect. For information on saving the configuration file and reloading the chassis, refer to the *System Administration Guide* for your deployment.

## Step 2 Change the GTPP storage server mode to "Remote".

- If configuring to the *default* GTPP group:

```
configure
  context <billing>
    gtp storage-server mode remote
    gtp max-cdrs 255 wait-time 300
  end
  show configuration | grep gtp
```

- If configuring to a specific GTPP group:

```
configure
  context <billing>
    gtp group <gtp_group>
      gtp storage-server mode remote
      gtp max-cdrs 255 wait-time 300
    end
  show configuration | grep gtp
```

**Important** Ensure that the file format, GTPP dictionary and LRSN Enabled are set properly on GSS in the *gss.cfg* file. Also, the correct version of GSS has to be installed and started on the Solaris machine.

## Step 3 Check and confirm that new CDRs are being written to files by GSS.

On the HDD side, remaining CDRs are immediately flushed to a CDR file. At this point, the transition is complete.

## LRSN Disabled

To switch CDRs from HDD to GSS with LRSN disabled:



**Important** This configuration change must be undertaken in a maintenance window, when the load is minimum.

**Step 1** Configure the GSS server, and ensure that GSS and GGSN have no connectivity issues.

- If configuring to the *default* GTPP group:

```
configure
  context <billing>
    gtpg charging-agent address <address>
    gtpg storage-server <address> port <port>
    gtpg max-cdrs 255 wait-time 300
  end
show configuration | grep gtpg
```

- If configuring to a specific GTPP group:

```
configure
  context <billing>
    gtpg group <gtpg_group>
    gtpg charging-agent address <address>
    gtpg storage-server <address> port <port>
    gtpg max-cdrs 255 wait-time 300
  end
show configuration | grep gtpg
```

**Step 2** Change the GTPP storage server mode to "Remote".

- If configuring to the *default* GTPP group:

```
configure
  context <billing>
    gtpg storage-server mode remote
    gtpg max-cdrs 255 wait-time 300
  end
show configuration | grep gtpg
```

- If configuring to a specific GTPP group:

```
configure
  context <billing>
    gtpg group <gtpg_group>
    gtpg storage-server mode remote
    gtpg max-cdrs 255 wait-time 300
  end
show configuration | grep gtpg
```

**Step 3** Check and confirm that new CDRs are being written to files by GSS.

On the HDD side, remaining CDRs are immediately flushed to a CDR file. At this point, the transition is complete.

**Important** Ensure that the file format, GTPP dictionary and LRSN Disabled are set properly on GSS in the *gss.cfg* file. Also, the correct version of GSS has to be installed and started on the Solaris machine.

# Switching CDRs from GSS to HDD

This section describes how to switch CDRs from GSS to HDD with:

- [LRSN Enabled, on page 4](#)
- [LRSN Disabled, on page 5](#)

## LRSN Enabled

To switch CDRs from GSS to HDD with LRSN enabled:




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**Important** This configuration change must be undertaken in a maintenance window, when the load is minimum.

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**Step 1** Ensure that GSS is up and running, and that GGSN is able to deliver CDRs to GSS.

Start the changes from a known good state.

**Step 2** Add the HDD configuration.

- If configuring to the *default* GTPP group:

```
configure
  gtp single-source centralized-lrsn-creation
  context <billing>
    gtp storage-server local file format <file_format_as_in_gss.cfg>
    gtp storage-server local file rotation volume mb 40
    gtp storage-server local file rotation cdr-count
    <max_CDR_per_file_as_in_gss.cfg>
    gtp storage-server local file rotation time-interval
    <max_file_gen_period_as_in_gss.cfg>
    gtp dictionary <gtp_dict_as_in_gss.cfg>
    gtp storage-server mode local
  end
show configuration | grep gtp
```

**Important** Note that **gtp storage-server mode local** must be added at the end.

**Important** After you configure the **gtp single-source centralized-lrsn-creation** command, you must save the configuration and then reload the chassis for the command to take effect. For information on saving the configuration file and reloading the chassis, refer to the *System Administration Guide* for your deployment.

- If configuring to a specific GTPP group:

```
configure
  gtp single-source centralized-lrsn-creation
  context <billing>
    gtp storage-server local file format <file_format_as_in_gss.cfg>
    gtp storage-server local file rotation volume mb 40
    gtp storage-server local file rotation cdr-count
```

```

<max_CDR_per_file_as_in_gss.cfg>
    gtp storage-server local file rotation time-interval
<max_file_gen_period_as_in_gss.cfg>
    gtp dictionary <gtp_dict_as_in_gss.cfg>
    gtp storage-server mode local
    end
show configuration | grep gtp

```

**Important** Note that **gtp storage-server mode local** must be added at the end.

**Important** After you configure the **gtp single-source centralized-lrsn-creation** command, you must save the configuration and then reload the chassis for the command to take effect. For information on saving the configuration file and reloading the chassis, refer to the *System Administration Guide* for your deployment.

- Step 3** Ensure that GSS is still up and running so that already pending requests towards GSS are fully delivered. Without flushing out the existing pending requests to GSS, GGSN will not switch to HDD.
- Step 4** Check and confirm that new CDRs are being written to HDD.
- Step 5** On the GSS side, you must wait for the time period it takes for the hard file generation, so that remaining CDRs are flushed to CDR file.
- Step 6** At this point, the transition is complete and you can bring the GSS offline.

## LRSN Disabled

To switch CDRs from GSS to HDD with LRSN disabled:



**Important** This configuration change must be undertaken in a maintenance window, when the load is minimum.

- Step 1** Ensure that GSS is up and running and GGSN is able to deliver CDRs to GSS. Start the changes from a known good state.
- Step 2** Add the HDD configuration.

- If configuring to the *default* GTPP group:

```

configure
  context <billing>
    gtp storage-server local file format <file_format_as_in_gss.cfg>
    gtp storage-server local file rotation volume mb 40
    gtp storage-server local file rotation cdr-count
<max_CDR_per_file_as_in_gss.cfg>
    gtp storage-server local file rotation time-interval
<max_file_gen_period_as_in_gss.cfg>
    gtp dictionary <gtp_dict_as_in_gss.cfg>
    gtp storage-server mode local
    end
show configuration | grep gtp

```

**Important** Note that **gtp storage-server mode local** must be added at the end.

- If configuring to a specific GTPP group:

```
configure
  context <billing>
    gtp group <gtp_group>
    gtp storage-server local file format <file_format_as_in_gss.cfg>
    gtp storage-server local file rotation volume mb 40
    gtp storage-server local file rotation cdr-count
    <max_CDR_per_file_as_in_gss.cfg>
    gtp storage-server local file rotation time-interval
    <max_file_gen_period_as_in_gss.cfg>
    gtp dictionary <gtp_dict_as_in_gss.cfg>
    gtp storage-server mode local
  end
show configuration | grep gtp
```

**Important** Note that **gtp storage-server mode local** must be added at the end.

- Step 3** Ensure that GSS is still up and running so that already pending requests towards GSS is fully delivered. Without flushing out the existing pending requests to GSS, GGSN will not switch to HDD.
- Step 4** Check and confirm that new CDRs are being written to HDD.
- Step 5** On the GSS side, you must wait for the time period it takes for the hard file generation, so that remaining CDRs are flushed to CDR file.
- Step 6** At this point, the transition is complete and you can bring the GSS offline.
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