



OpenSM Configuration

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Enabling Congestion Control

In order to enable congestion control, set the parameter `mlnx_congestion_control` in the OpenSM configuration file to 2. For example:

```
mlnx_congestion_control 2
```

To disable congestion control, set the parameter value to 1. For example:

```
mlnx_congestion_control 1
```

Defining a Congestion Control Policy File

To define a congestion control policy file, set the parameter `congestion_control_file` in OpenSM configuration file to point to congestion control policy file. For example:

```
congestion_control_policy_file  
/opt/ufm/files/conf/opensm/conf/congestion_control_policy_file
```

The file includes a reference to an active algorithm file name. The algorithm file has to be inside the `ppcc_algo_dir`.

For Example:

```
ca_algo_import_start  
  algo_start  
    algo_id:1  
    algo_file_name: active_algo_file_name  
    # PPCC parameter by name, as defined in algo profile  
    parameters: (BW_G,400),(ALPHA,3932),(MAX_DEC,63569),(MAX_INC,69468),(AI,36),  
(HAI,1200)  
  algo_end  
ca_algo_import_end
```

The `ca_algo_import` block contains all the `algo` blocks that map an `algo_id` to an algorithm profile file. The `algo_id` field of the `algo` blocks must be unique and start from 1. This block is used to import the various PCC algorithms into the configuration and associate them with their `algo_id` values.

Defining a directory for PPCC algorithm profiles

To define a directory for the programmable congestion control algorithm profiles, set the parameter `ppcc_algo_dir` in OpenSM configuration file. For Example:

```
ppcc_algo_dir /opt/ufm/files/conf/opensm/conf/ppcc_algo_dir
```

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