



Advanced Tuning Parameters

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Converged Policy advanced tuning parameters

The CPC Ops Center allows you to configure the advanced tuning parameters for CPC. The tuning parameters primarily consist of the async-threading and http2-threading parameters. These parameters provide the flexibility of the tuning threads responsible for CPC's incoming and outgoing requests over HTTP.

Configure the advanced tuning parameter values only if you have a strong understanding of the CPC deployment.

Configuring the Async Threading Parameters

To configure the http2-threading parameters, use this configuration in the Policy Ops Center console:

```
config
  advance-tuning
    async-threading
      default-priority default_priority
      default-worker-threads default_worker_threads
      default-queue-size default_queue_size
      default-processing-threads default_processing_threads
      default-drop-oldest-when-full [ true | false ]
      threading-config service_name
      priority priority
      queue-size queue_size
      threads number_threads
    end
  end
```

NOTES:

- **advance-tuning**—Enters the advance tuning configuration mode.
- **async-threading**—Enters the async threading configuration mode.
- **default-priority** *default_priority*—Specify the default priority level.

- **default-worker-threads** *default_worker_threads*—Specify the default number of worker threads.
- **default-queue-size** *default_queue_size*—Specify the default size of the queue.
- **default-processing-threads** *default_processing_threads*—Specify the default number of threads used for processing.
- **default-drop-oldest-when-full** [**true** | **false**] —Indicates if the oldest message in the queue should be removed when the queue is full.
- **threading-config** *service_name*—Specify the service name for which the threading configuration is enabled.
- **priority** *priority*—Specify the priority of the thread.
- **queue-size** *queue_size*—Specify the queue size.
- **threads** *number_threads*—Specify the number of threads to be processed.

Configuring the HTTP2 Threading Parameters

To configure the http2-threading parameters, use this configuration in the Policy Ops Center console:

```
config
  http2-threading
    min-thread-pool-size min_thread_pool
    max-thread-pool-size max_thread_pool
    idle-thread-timeout-ms idle_thread_timeout
    max-queue-capacity max_queue_capacity
    disable-validation [ true | false ]
  end
```

NOTES:

- **http2-threading** *http2_threading* – Configures the parameters for inbound SBA requests that are received by CPC.
- **min-thread-pool-size** *min_thread_pool* – Specifies the minimum number of threads for processing the inbound SBA request. The accepted range contains integers. Default value is 5.
- **max-thread-pool-size** *max_thread_pool* – Specifies the maximum size of the thread pool.
- **idle-thread-timeout-ms** *idle_thread_timeout* – Specifies the time in milliseconds that the thread can remain idle. *idle_thread_timeout* must contain only integers. Default value is 60000.
- **disable-validation** [**true** | **false**] – Disables the validation of the request sent to CPC. [**true** | **false**] must contain the value as true or false. Default value is false.
- **max-queue-capacity** *max_queue_capacity* – Specifies the maximum number of requests that can wait in the queue for processing. *max_queue_capacity* must contain only integers. Default value is 5000.
- **max-thread-pool-size** *max_thread_pool* – Specifies the maximum number of threads that CPC can accommodate in the pool. *max_thread_pool_size* must contain only integers. Default value is 20.