Event System Management Commands

This chapter describes the command-line interface (CLI) commands used the PCP DPE to trigger event and, monitor and manage the Prime Cable Provisioning event system.

For information on **DPE Event Publisher**, see *Cisco Prime Cable Provisioning 6.3 User Guide*.

Note Before using a DPE event command, you must enable DPE event monitor by running the DPE event monitor command.

If you run the following commands on an unlicensed DPE, the following message appears:

```
This DPE is not licensed. Your request cannot be serviced. Please check with your
system administrator for a DPE license.
```

The commands described in this chapter are:

| Command | Description | CLI Mode | | Required Privileges | | | |
		Enable	Disable	PRIV_DPE_READ	PRIV_DPE_UPDATE	PRIV_DPE_SECURITY	PRIV_DEVICE_READ
dpe event monitor	Enable the DPE event monitor	✓		✓	✓		
dpe event request	Events the DPE request service	✓		✓	✓		
dpe event config	Events the DPE cache configuration	✓		✓	✓		
dpe event file	Events the DPE cache file operation	✓		✓	✓		
dpe event log	Events the DPE logs with log level	✓		✓	✓		
dpe event tftp	Events the DPE TFTP requests	✓		✓	✓		

		CLI Mode		Required Privileges			
Command	**Description**	**Enable**	**Disable**	**PRIV_DPE_READ**	**PRIV_DPE _UPDATE**	**PRIV_DPE_SECURITY**	**PRIV_DEVICE_READ**
no dpe event monitor	Disable all the DPE events		✓	✓	✓		
no dpe event request	Stop Events the DPE request service		✓	✓	✓		
no dpe event config	Stop Events the DPE cache configuration		✓	✓	✓		
no dpe event file	Stop Events the DPE cache file operation		✓	✓	✓		
no dpe event log	Stop Events the DPE logs with log level		✓	✓	✓		
no dpe event tftp	Stop Events the DPE TFTP requests		✓	✓	✓		
dpe event kafka bootstrap-servers	Configures Kafka bootstrap-servers producerconfig property	✓		✓	✓		
dpe event kafka custom-topic	Configures custom topics for DPE events	✓		✓	✓		
dpe event kafka security	Configures Kafka security-protocol producerconfig property	✓		✓	✓		
dpe event kafka topic	Sets Kafka Topic for all DPE Events	✓		✓	✓		

dpe event

Use the dpe event command to configure event settings on the DPE. Following are the examples that you can use with this command:

Syntax Description   **dpe event monitor**

no dpe event monitor

Enables DPE to trigger events, which involves common interface to enable DPE events features and depends on the below event type. It triggers the DPE events.

- *dpe event config*—Enables dpe configuration event for DPE event.
- *dpe event file*—Enables dpe file event for DPE event.
- *dpe event log*—Enables dpe log level event for DPE event.
- *dpe event request*—Enables dpe request event for DPE event.
- *dpe event tftp*—Enables dpe tftp event for DPE event.

To disable all the DPE events, use the no form of this command.

Examples   This result occurs when you enable dpe event monitor of the DPE.

```
bac_dpe# dpe event monitor
% OK
```

This result occurs when you disable dpe event monitor of the DPE.

```
bac_dpe# no dpe event monitor
% OK
```

Defaults   Event of the DPE is by default disabled.

dpe event config

Syntax Description   **dpe event config**

no dpe event config

Enables configuration events to the DPE, Which involves events that occurs while configuration changes in the dpe cache. It includes,

- Received configuration for device from RDU.
- Received updated configuration for device from RDU.
- Removed configuration for device from cache.
- Completed device attributes dumping process.

To disable DPE configuration events, use the no form of this command.

Examples   This result occurs when you enable configuration event of the DPE.

```
bac_dpe# dpe event config
% OK
```

This result occurs when you disable configuration event of the DPE.

```
bac_dpe# no dpe event config
% OK
```

Defaults   Configuration event of the DPE is by default disabled.

dpe event file

Syntax Description   **dpe event file**

no dpe event file

Enables file events to the DPE, Which involves events that occurs while file configuration changes in the DPE cache. It includes,

- Received file from RDU.
- Received updated file from RDU.
- Removed file from cache.

To disable DPE file events, use the no form of this command.

Examples   This result occurs when you enable file event of the DPE.

```
bac_dpe# dpe event file
% OK
```

This result occurs when you disable file event of the DPE.

```
bac_dpe# no dpe event file
% OK
```

Defaults   File event of the DPE is by default disabled.

dpe event request

Syntax Description   **dpe event request**

no dpe event request

Enables dpe request events to the DPE, Which involves events that occurs while device request, ToD request, SNMP reset request. It includes,

Device request

- Sending no cached configuration for device in provisioning group to device.
- Sending configuration for device in provisioning group to device.

ToD request

- Received UDP time of day request from device.
- ToD Success/Failure.

SNMP reset

- Processing SNMP reset for device.
- Successfully send SNMP reset for device.

To disable DPE request events, use the no form of this command.

Examples   This result occurs when you enable dpe request event of the DPE.

```
bac_dpe# dpe event request
% OK
```

This result occurs when you disable dpe request event of the DPE.

```
bac_dpe# no dpe event request
% OK
```

Defaults   Request event of the DPE is by default disabled.

dpe event tftp

Syntax Description   **dpe event tftp**

no dpe event tftp

Enables tftp events to the DPE, Which involves events that occurs while device request for tftp. It includes,

- Received a TFTP [read] request from device for file.
- Finished handling [read] request from device for file.
- TFTP exception.

To disable DPE tftp events, use the no form of this command.

Examples   This result occurs when you enable dpe tftp event of the DPE.

```
bac_dpe# dpe event tftp
```

```
% OK
```

This result occurs when you disable dpe tftp event of the DPE.

```
bac_dpe# no dpe event tftp
% OK
```

Defaults   TFTP event of the DPE is by default disabled.

dpe event log

Syntax Description   **dpe event log**

no dpe event log

Enables log events to the DPE, Which involves events that occurs for all dpe process and send the log event depends on the log level of DPE. It includes,

- Send the DPE log as events.
- Depend on the DPE log level it send the logs as events.

To disable DPE log events, use the no form of this command.

Examples   This result occurs when you enable dpe log event of the DPE.

```
bac_dpe# dpe event log
% OK
```

This result occurs when you disable dpe log event of the DPE.

```
bac_dpe# no dpe event log
% OK
```

Defaults   Log event of the DPE is by default disabled.

dpe event kafka

Use the dpe event kafka command to configure the kafka server on the DPE.

Note   The kafka version used to test is Kafka 2.7.0

Syntax Description   **dpe event kafka**

Following are the options that you can use with this command:

- *dpe event kafka bootstrap-servers*—Configures kafka bootstrap-servers producerconfig property.
- *dpe event kafka custom-topic*—Configures custom topics for DPE events.
- *dpe event kafka security*—Configures kafka security-protocol producerconfig property.
- *dpe event kafka topic*—Sets kafka topic for all the DPE events.

Note   After you use the any of the above commands, run the *dpe reload* command to restart the DPE.

Examples   This result occurs when you invoke the help function for dpe event kafka command.

```
bac_dpe# dpe event kafka ?
  bootstrap-servers   Configures Kafka bootstrap-servers producerconfig property.
  custom-topic        Configures custom topics for DPE events.
  security            Configures Kafka security-protocol producerconfig property.
  topic               Sets Kafka Topic for all DPE Events.
```

dpe event kafka bootstrap-servers

Syntax Description   **dpe event kafka bootstrap-servers <host:port>**

Configures kafka bootstrap-servers to the specified host and port, which enables the triggered DPE events to be stored in the configured server.

- *host* specifies the IP address of the kafka server.
- *port* identifies the port number, port number must be between 0 and 65535 (optional).

Note   After you use the above command, run the *dpe reload* command to restart the DPE.

Examples   This result occurs when you configure the kafka bootstrap-server.

```
bac_dpe# dpe event kafka bootstrap-servers pcp-lnx-xx:9092
% OK (Requires DPE restart "> dpe reload")
```

dpe event kafka custom-topic

Use the dpe event kafka custom-topic command to configure kafka topics and partitions for various DPE event types (Partition configuration is optional).

Following are the options that you can use with this command:

Syntax Description   **dpe event kafka custom-topic**

no dpe event kafka custom-topic

- **dpe event kafka custom-topic config <topic-name> partition <partition-number>**-Configures Topic for Config event.
- **dpe event kafka custom-topic file <topic-name> partition <partition-number>**- Configures Topic for File event.
- **dpe event kafka custom-topic log <topic-name> partition <partition-number>**- Configures Topic for Log event.
- **dpe event kafka custom-topic request <topic-name> partition <partition-number>**- Configures Topic for Request event.
- **dpe event kafka custom-topic tftp <topic-name> partition <partition-number>**- Configures Topic for TFTP event.

  – *topic-name*-Specifies the name of the kafka topic, which will be created as a DPE property in *dpe.properties* file.
  – *partition-number*-Configures the partition (optional) for the custom-topics which will be created as a DPE property in *dpe.properties* file.

To disable DPE event kafka custom-topics, use the *no* form of this command. This disables the whole topic when executed with just topic-name, and to disable just the partition execute it with the partition.

> **Note**   If custom-topic is configured for the above DPE events, this configuration will take preference over the topic name created using the DPE event kafka topic command.

> **Note**   After you use the any of the above commands, run the *dpe reload* command to restart the DPE.

Examples   This result occurs when you use the above commands to configure topic file for the DPE events.

```
bac_dpe# dpe event kafka custom-topic config myconfig partition 1
% OK (Requires DPE restart "> dpe reload")


bac_dpe# dpe event kafka custom-topic file myfile partition 2
% OK (Requires DPE restart "> dpe reload")


bac_dpe# dpe event kafka custom-topic log mylog partition 3
% OK (Requires DPE restart "> dpe reload")


bac_dpe# dpe event kafka custom-topic request myrequest partition 4
% OK (Requires DPE restart "> dpe reload")


bac_dpe# dpe event kafka custom-topic tftp mytftp partition 5
% OK (Requires DPE restart "> dpe reload")
```

dpe event kafka security

Syntax Description   **dpe event kafka security <security-protocol>**

Configures the kafka security-protocol for the producer and this security.protocol property is created in *dpeproducerconfig.property* folder under */opt/CSCObac/dpe/conf*.

– *Security-protocol* specifies the protocol, PLAINTEXT/SASL_PLAINTEXT/SSL/SASL_SSL.

Note   After you use the above command, run the *dpe reload* command to restart the DPE.

Examples   This result occurs when you configure the kafka security protocol.

```
bac_dpe# dpe event kafka security SSL
% OK (Protocol other than PLAINTEXT requires additional properties to be added in
dpeproducerconfig.properties. Requires DPE restart)
```

dpe event kafka topic

Syntax Description   **dpe event kafka topic <topic-name>**

no dpe event kafka topic <topic-name>

Configures the kafka topic for all the DPE events.

> – *topic-name* specifies the name of the kafka topic.

To disable DPE event kafka topic, use the *no* form of this command.

Note   If custom-topic is configured for the DPE events, that configuration will take preference over the topic name created using the dpe event kafka topic command.

Note   After you use the above command, run the *dpe reload* command to restart the DPE.

Examples   This result occurs when you configure the DPE event kafka topic.

```
bac_dpe# dpe event kafka topic mytopic
% OK (Requires DPE restart "> dpe reload")
```