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Crypto engine commands

display crypto-engine

Use `display crypto-engine` to display crypto engine information.

Syntax

```
display crypto-engine
```

Views

Any view

Predefined user roles

network-admin

network-operator

Examples

```
# Display crypto engine information.
```

```
<Sysname> display crypto-engine
```

```
  Crypto engine name: Software crypto engine
```

```
  Crypto engine state: Enabled
```

```
  Crypto engine type: Software
```

```
  Slot ID: 1
```

```
  CPU ID:0
```

```
  Crypto engine ID: 0
```

```
  Symmetric algorithms: des-cbc des-ecb 3des-cbc aes-cbc aes-ecb aes-ctr camellia_cbc  
md5 sha1 sha2-256 sha2-384 sha2-512 md5-hmac sha1-hmac sha2-256-hmac sha2-384-hmac  
sha2-512-hmac aes-xcbc aes-xcbc-hmac
```

```
  Asymmetric algorithms:
```

```
  Random number generation function: Supported
```

Table 1 Command output

Field	Description
Crypto engine state	This field always displays Enabled for software crypto engines.
Crypto engine type	The value is Software for this field.
CPU ID	ID of the CPU on the device.
Symmetric algorithms	Supported symmetric algorithms.
Asymmetric algorithms	Supported asymmetric algorithms.
Random number generation function	Whether random number generation function is supported: <ul style="list-style-type: none">Supported.Not supported.

display crypto-engine statistics

Use `display crypto-engine statistics` to display crypto engine statistics.

Syntax

```
display crypto-engine statistics [ engine-id engine-id slot slot-number ]
```

Views

Any view

Predefined user roles

network-admin

network-operator

Parameters

engine-id *engine-id*: Specifies a crypto engine by its ID. The switch supports only one software crypto engine, and the engine ID can only be 0.

slot *slot-number*: Specifies an IRF member device by its member ID.

Usage guidelines

If you do not specify any parameters, this command displays crypto engine statistics for all member devices.

Examples

Display all crypto engine statistics.

```
<Sysname> display crypto-engine statistics
```

```
Slot ID: 1
```

```
CPU ID: 0
```

```
Crypto engine ID: 0
```

```
Submitted sessions: 0
```

```
Failed sessions: 0
```

```
Symmetric operations: 0
```

```
Symmetric errors: 0
```

```
Asymmetric operations: 0
```

```
Asymmetric errors: 0
```

```
Get-random operations: 0
```

```
Get-random errors: 0
```

Display statistics for crypto engine 1 on the specified slot.

```
<Sysname> display crypto-engine statistics engine-id 1 slot 1
```

```
Submitted sessions: 0
```

```
Failed sessions: 0
```

```
Symmetric operations: 0
```

```
Symmetric errors: 0
```

```
Asymmetric operations: 0
```

```
Asymmetric errors: 0
```

```
Get-random operations: 0
```

```
Get-random errors: 0
```

Table 2 Command output

Field	Description
Submitted sessions	Number of established sessions.
Failed sessions	Number of failed sessions.
Symmetric operations	Number of operations using symmetric algorithms.

Field	Description
Symmetric errors	Number of failed operations using symmetric algorithms.
Asymmetric operations	Number of operations using asymmetric algorithms.
Asymmetric errors	Number of failed operations using asymmetric algorithms.
Get-random operations	Number of operations for obtaining random numbers.
Get-random errors	Number of failed operations for obtaining random numbers.

Related commands

`reset crypto-engine statistics`

reset crypto-engine statistics

Use `reset crypto-engine statistics` to clear crypto engine statistics.

Syntax

`reset crypto-engine statistics [engine-id engine-id slot slot-number]`

Views

User view

Predefined user roles

network-admin

Parameters

engine-id *engine-id*: Specifies a crypto engine by its ID. The switch supports only one software crypto engine, and the engine ID can only be 0.

slot *slot-number*: Specifies an IRF member device by its member ID.

Usage guidelines

If you do not specify any parameters, this command clears crypto engine statistics for all member devices.

Examples

Clear statistics for all crypto engines.

```
<Sysname> reset crypto-engine statistics
```

Related commands

`display crypto-engine statistics`