

Contents

Static CRLSP commands	1
display mpls static-cr-lsp	1
static-cr-lsp egress	2
static-cr-lsp ingress	3
static-cr-lsp transit	4

Static CRLSP commands

display mpls static-cr-lsp

Use `display mpls static-cr-lsp` to display information about static CRLSPs.

Syntax

```
display mpls static-cr-lsp [ lsp-name lsp-name ] [ verbose ]
```

Views

Any view

Predefined user roles

network-admin
network-operator

Parameters

lsp-name *lsp-name*: Displays information about the static CRLSP specified by its name, a case-sensitive string of 1 to 15 characters. If you do not specify a static CRLSP, this command displays information about all static CRLSPs.

verbose: Displays detailed information about static CRLSPs. If you do not specify this keyword, the command displays brief information about static CRLSPs.

Examples

Display brief information about static CRLSPs.

```
<Sysname> display mpls static-cr-lsp
```

Name	LSR Type	In/Out Label	Out Interface	State
static-cr-lsp-1	Ingress	Null/20	Vlan10	Up

Table 1 Command output

Field	Description
Name	Name of the static CRLSP.
LSR Type	LSR type of the local node on the static CRLSP: Ingress , Transit , or Egress .
In/Out Label	Incoming label/outgoing label.
Out Interface	Output interface.
State	Current state of the static CRLSP: <ul style="list-style-type: none">• Down—The static CRLSP is not available.• Up—The static CRLSP is available.• Idle—The incoming label of the static CRLSP is not available.• Dup—The incoming label of the static CRLSP is being used by a static LSP or a static PW.

Display detailed information about static CRLSPs.

```
<Sysname> display mpls static-cr-lsp verbose
```

```
Name           : Tunnell  
Type           : Ingress  
In-Label      : -
```

```

Out-Label      : 60
Out-Interface  : Vlan10
Nexthop        : 20.1.1.2
Class Type     : CT0
Bandwidth      : 0 kbps
State          : Up

```

Table 2 Command output

Field	Description
Name	Name of the static CRLSP.
Type	LSR type of the local node on the static CRLSP: Ingress , Transit , or Egress .
In-Label	Incoming label.
Out-Label	Outgoing label.
Out-Interface	Output interface.
Nexthop	Next hop address.
Class Type	Class type of the static CRLSP: CT0, CT1, CT2, or CT3.
Bandwidth	Bandwidth required by the static CRLSP, in kbps.
State	Current state of the static CRLSP: <ul style="list-style-type: none"> • Down—The static CRLSP is not available. • Up—The static CRLSP is available. • Idle—The incoming label of the static CRLSP is not available. • Duplicate—The incoming label of the static CRLSP is being used by a static LSP or a static PW.

Related commands

```

static-cr-lsp egress
static-cr-lsp ingress
static-cr-lsp transit

```

static-cr-lsp egress

Use `static-cr-lsp egress` to configure the egress node of a static CRLSP.

Use `undo static-cr-lsp egress` to delete the egress node configuration of a static CRLSP.

Syntax

```

static-cr-lsp egress lsp-name in-label in-label-value
undo static-cr-lsp egress lsp-name

```

Default

No static CRLSPs exist.

Views

System view

Predefined user roles

network-admin

Parameters

lsp-name: Specifies a name for the static CRLSP, a case-sensitive string of 1 to 15 characters.

in-label *in-label-value*: Specifies an incoming label. The value range is 16 to 15999.

Usage guidelines

A static CRLSP must have a different incoming label than an existing static LSP or static PW. If they are the same, the static CRLSP is not available, even if you change the incoming label of the static LSP or the static PW. To make the static CRLSP available, delete the static CRLSP, and reconfigure it with an unused incoming label.

Examples

On the egress node, configure a static CRLSP with name **static-te-1** and incoming label 233.

```
<Sysname> system-view
```

```
[Sysname] static-cr-lsp egress static-te-1 in-label 233
```

Related commands

```
display mpls static-cr-lsp
```

```
static-cr-lsp ingress
```

```
static-cr-lsp transit
```

static-cr-lsp ingress

Use **static-cr-lsp ingress** to configure the ingress node of a static CRLSP.

Use **undo static-cr-lsp ingress** to delete the ingress node configuration of a static CRLSP.

Syntax

```
static-cr-lsp ingress lsp-name { nexthop ip-address | outgoing-interface  
interface-type interface-number } out-label out-label-value [ bandwidth  
[ ct0 | ct1 | ct2 | ct3 ] bandwidth-value ]
```

```
undo static-cr-lsp ingress lsp-name
```

Default

No static CRLSPs exist.

Views

System view

Predefined user roles

network-admin

Parameters

lsp-name: Specifies a name for the static CRLSP, a case-sensitive string of 1 to 15 characters.

nexthop *ip-address*: Specifies the next hop IP address. The address cannot be a public IP address on the local device.

outgoing-interface *interface-type interface-number*: Specifies an outgoing interface by its type and number. The specified interface must be a P2P interface.

out-label *out-label-value*: Specifies an outgoing label. The value range for the *out-label-value* argument is 0, 3, and 16 to 1048575.

bandwidth: Specifies the CT and required bandwidth for the static CRLSP. If you do not specify this keyword, the bandwidth required by the static CRLSP is 0 kbps. If you specify this keyword but do not specify a CT, the static CRLSP belongs to CT 0.

ct0: Specifies CT 0 for the static CRLSP.

ct1: Specifies CT 1 for the static CRLSP.

ct2: Specifies CT 2 for the static CRLSP.

ct3: Specifies CT 3 for the static CRLSP.

bandwidth-value: Specifies the bandwidth required by the static CRLSP, in the range of 1 to 4294967295 kbps. The default is 0 kbps.

Usage guidelines

CT 2 and CT 3 are valid only in IETF DS-TE mode. In prestandard DS-TE mode, CT 2 and CT 3 are invalid and the tunnel cannot be established.

Examples

Configure a static CRLSP on the ingress node: specify its name as **static-te-2**, next hop IP address as 202.55.25.33, outgoing label as 237, CT as CT 0, and required bandwidth as 20 kbps.

```
<Sysname> system-view
```

```
[Sysname] static-cr-lsp ingress static-te-2 nexthop 202.55.25.33 out-label 237 bandwidth  
ct0 20
```

Related commands

```
display mpls static-cr-lsp
```

```
static-cr-lsp egress
```

```
static-cr-lsp transit
```

static-cr-lsp transit

Use **static-cr-lsp transit** to configure a transit node for a static CRLSP.

Use **undo static-cr-lsp transit** to delete the transit node configuration of a static CRLSP.

Syntax

```
static-cr-lsp transit lsp-name in-label in-label-value { nexthop  
ip-address | outgoing-interface interface-type interface-number }  
out-label out-label-value [ bandwidth [ ct0 | ct1 | ct2 | ct3 ]  
bandwidth-value ]
```

```
undo static-cr-lsp transit lsp-name
```

Default

No static CRLSPs exist.

Views

System view

Predefined user roles

network-admin

Parameters

lsp-name: Specifies a name for the static CRLSP, a case-sensitive string of 1 to 15 characters.

in-label *in-label-value*: Specifies an incoming label. The value range is 16 to 15999.

nexthop *ip-address*: Specifies the next hop IP address. The address cannot be a public IP address on the local device.

outgoing-interface *interface-type interface-number*: Specifies an outgoing interface by its type and number. The specified interface must be a P2P interface.

out-label *out-label-value*: Specifies an outgoing label. The value range for the *out-label-value* argument is 0, 3, and 16 to 1048575.

bandwidth: Specifies the CT and required bandwidth for the static CRLSP. If you do not specify this keyword, the bandwidth required by the static CRLSP is 0 kbps. If you specify this keyword but do not specify a CT, the static CRLSP belongs to CT 0.

ct0: Specifies CT 0 for the static CRLSP.

ct1: Specifies CT 1 for the static CRLSP.

ct2: Specifies CT 2 for the static CRLSP.

ct3: Specifies CT 3 for the static CRLSP.

bandwidth-value: Specifies the bandwidth required by the static CRLSP, in the range of 1 to 4294967295 kbps. The default is 0 kbps.

Usage guidelines

CT 2 and CT 3 are valid only in IETF DS-TE mode. In prestandard DS-TE mode, CT 2 and CT 3 are invalid and the tunnel cannot be established.

A static CRLSP must have a different incoming label than an existing static LSP or static PW. If they are the same, the static CRLSP is not available, even if you change the incoming label of the static LSP or the static PW. To make the static CRLSP available, delete the static CRLSP, and reconfigure it with an unused incoming label.

Examples

Configure a static CRLSP on the transit node: specify its name as **static-te-3**, incoming label as 123, next hop IP address as 1.1.1.1, outgoing label as 253, CT as CT 0, and required bandwidth as 20 kbps.

```
<Sysname> system-view
```

```
[Sysname] static-cr-lsp transit static-te-3 in-label 123 nexthop 1.1.1.1 out-label 253  
bandwidth ct0 20
```

Related commands

```
display mpls static-cr-lsp
```

```
static-cr-lsp egress
```

```
static-cr-lsp ingress
```