



SMF NRF CLI Commands

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group nf-mgmt

Configures NF management group name.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description `nf-mgmt mgmt_group_name { nrf-mgmt-group nrf_mgmt_group_name | nrf-auth-group nrf_auth_group_name | locality locality_name | re-register { false | true } }`

mgmt_group_name

Specify the NRF management group name.

Must be a string.

nrf-mgmt-group nrf_mgmt_group_name

Specify the NRF management group name.

Must be a string.

locality locality_name

Specify locality information.

Must be a string.

Usage Guidelines Use this command to configure NF management group name.

group nf-mgmt failover

Configures failover SLA time duration.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description `failover sla failover_sla`

sla failover_sla

Specify the failover sla time duration in milliseconds.

Must be an integer.

Usage Guidelines Use this command to configure the failover SLA time duration.

group nf-mgmt heartbeat

Configures heartbeat interval time in seconds.

Privilege Security Administrator, Administrator

Command Modes	Exec > Global Configuration
Syntax Description	<p>heartbeat interval <i>heartbeat_interval</i></p> <p>interval <i>heartbeat_interval</i></p> <p>Specify the heartbeat interval time in seconds.</p> <p>Must be an integer.</p>
Usage Guidelines	Use this command to configure the heartbeat interval time in seconds.

group nf-mgmt reconnect

Configures reconnect interval configuration.

Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration
Syntax Description	<p>reconnect interval <i>reconnect_interval</i></p> <p>interval <i>reconnect_interval</i></p> <p>Specify the reconnect interval time in milliseconds.</p> <p>Must be an integer.</p>
Usage Guidelines	Use this command to configure reconnect interval time in milliseconds.

group nrf auth

Configures NRF auth group parameters.

Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration
Syntax Description	<p>auth <i>group_name</i> [nrf-type <i>nrf_type</i>]</p> <p>group_name</p> <p>Specify the NRF auth group name.</p> <p>Must be a string.</p> <p>nrf-type <i>nrf_type</i></p> <p>Specify the NRF type.</p> <p>Must be one of the following:</p>

- PLMN: PLMN.
- SHARED: SHARED.
- SLICE-LOCAL: SLICE-LOCAL.

Usage Guidelines Use this command to configure NRF auth group parameters.

group nrf auth service type nrf

Configures NRF service auth name.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **nrf nrf-service-name** *nrf_service_auth_name*

nrf-service-name *nrf_service_auth_name*

Specify the NRF service auth name.

Must be one of the following:

- oauth2

Usage Guidelines Use this command to configure the NRF service auth name.

group nrf auth service type nrf endpoint-profile

Configures endpoint profile parameters.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **endpoint-profile** *endpoint_profile_name* { **capacity** *capacity_value* | **priority** *priority_value* | **api-uri-prefix** *api_uri_prefix* | **api-root** *api_root* | **uri-scheme** *uri_scheme* }

endpoint_profile_name

Specify the endpoint profile name.

Must be a string.

capacity *capacity_value*

Specify the profile capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

priority *priority_value*

Specify the profile priority.

Must be an integer in the range of 0-65535.

Default Value: 1.

api-uri-prefix *api_uri_prefix*

Specify the API URI prefix.

Must be a string.

api-root *api_root*

Specify the API root.

Must be a string.

uri-scheme *uri_scheme*

Specify the URI scheme.

Must be one of the following:

- http: HTTP.
- https: HTTPS.

Usage Guidelines

Use this command to configure endpoint profile parameters.

group nrf auth service type nrf endpoint-profile endpoint-name

Configures the endpoint name.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

endpoint-name *endpoint_name* [**priority** *priority_value* | **capacity** *capacity_value*]

endpoint_name

Specify the endpoint name. You can configure the primary, secondary, and tertiary host (IP: Port) within each endpoint for NF server failover handling. The server failover configuration accepts both the IPv4 and IPv6 addresses. However, the SMF gives preference to the IPv4 address.

Must be a string.

priority *priority_value*

Specify the node priority for endpoint.

group nrf auth service type nrf endpoint-profile endpoint-name primary ip-address

Must be an integer in the range of 0-65535.

capacity *capacity_value*

Specify the node capacity.

Must be an integer in the range of 0-65535.

Usage Guidelines Use this configuration to configure the endpoint name.

group nrf auth service type nrf endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **ip-address** { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines Use this command to configure the endpoint IP address and port number.

group nrf auth service type nrf endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **ip-address** { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines Use this command to configure the endpoint IP address and port number.

group nrf auth service type nrf endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

ip-address { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf auth service type nrf endpoint-profile version uri-version

Configures the URI version.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > UDM NF-Client Profile Configuration > UDM Profile Configuration > Locality Configuration > UDM Service Name Type Configuration > Endpoint Profile Configuration > Version Configuration > URL Version Configuration

Syntax Description

version uri-version { *uri_version* | **full-version** *full_version* }

uri_version

Specify the URI version.

Must be a string in the pattern `v\d`.

full-version *full_version*

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

Usage Guidelines

Use this command to configure the URI version information.

group nrf discovery

Configures NRF discovery group parameters.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

discovery *group_name* [**nrf-type** *nrf_type*]

group_name

Specify the NRF discovery group name.

Must be a string.

nrf-type nrf_type

Specify the NRF type.

Must be one of the following:

- PLMN: PLMN.
- SHARED: SHARED.
- SLICE-LOCAL: SLICE-LOCAL.

Usage Guidelines

Use this command to configure the NRF discovery group configuration.

group nrf discovery service type nrf

Configures the NRF discovery service name.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

nrf *nrf_service_name* [**responsetimeout** *response_timeout*]

nrf_service_name

Specify the NRF discovery service name.

Must be one of the following:

- nrf-disc

responsetimeout response_timeout

Specify the response timeout interval in milliseconds.

Must be an integer.

Default Value: 2000.

Usage Guidelines

Use this command to configure the NRF discovery service name.

group nrf discovery service type nrf endpoint-profile

Configures endpoint profile parameters.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

```
endpoint-profile endpoint_profile_name { api-uri-prefix api_uri_prefix | api-root
api_root | uri-scheme uri_scheme }
```

api-uri-prefix *api_uri_prefix*

Specify the API URI prefix.

Must be a string.

endpoint_profile_name

Specify the endpoint profile name.

Must be a string.

api-root *api_root*

Specify the API root.

Must be a string.

uri-scheme *uri_scheme*

Specify the URI scheme.

Must be one of the following:

- http
- https

Usage Guidelines

Use this command to configure endpoint profile parameters.

group nrf discovery service type nrf endpoint-profile endpoint-name

Configures endpoint parameters.

```
group nrf discovery service type nrf endpoint-profile endpoint-name primary ip-address
```

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **endpoint-name** *endpoint_name* [**priority** *priority* | **capacity** *endpoint_capacity*]

endpoint_name

Specify the endpoint name.

Must be a string.

priority priority

Specify the node priority for endpoint.

Must be an integer in the range of 0-65535.

capacity endpoint_capacity

Specify the endpoint capacity.

Must be an integer in the range of 0-65535.

Default Value: 10.

Usage Guidelines Use this command to configure endpoint parameters.

group nrf discovery service type nrf endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **ip-address** { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port port_number

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines Use this command to configure the endpoint IP address and port number.

group nrf discovery service type nrf endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

ip-address { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf discovery service type nrf endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

ip-address { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf discovery service type nrf endpoint-profile version uri-version

Configures URI version information.

Privilege

Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **uri-version** *uri_version* [**full-version** *full_version*]

uri_version

Specify the URI version.

Must be a string in the pattern v\d.

full-version ***full_version***

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

Usage Guidelines Use this command to configure URI version information.

group nrf mgmt

Configures the NRF self-management group parameters.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **mgmt** *group_name* [**nrf-type** *nrf_type*]

group_name

Specify the NRF self-management group name.

Must be a string.

nrf-type ***nrf_type***

Specify the NRF type.

Must be one of the following:

- PLMN: PLMN.
- SHARED: SHARED.
- SLICE-LOCAL: SLICE-LOCAL.

Usage Guidelines Use this command to configure the NRF self-management group parameters.

group nrf mgmt service type nrf

Configures the NRF self-management service name.

Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration
Syntax Description	<pre>nrf nrf-service-name <i>nrf_service_name</i> [responsetimeout <i>response_timeout</i>]</pre> <p>nrf-service-name <i>nrf_service_name</i></p> <p>Specify the NRF service name.</p> <p>Must be one of the following:</p> <ul style="list-style-type: none"> • nnrf-nfm <p>responsetimeout <i>response_timeout</i></p> <p>Specify the response timeout interval in milliseconds.</p> <p>Must be an integer.</p> <p>Default Value: 2000.</p>
Usage Guidelines	Use this command to configure the NRF self-management service name.

group nrf mgmt service type nrf endpoint-profile

Configures endpoint profile parameters.

Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration
Syntax Description	<pre>endpoint-profile <i>endpoint_profile_name</i> { api-uri-prefix <i>api_uri_prefix</i> api-root <i>api_root</i> uri-scheme <i>uri_scheme</i> }</pre> <p>api-uri-prefix <i>api_uri_prefix</i></p> <p>Specify the API URI prefix.</p> <p>Must be a string.</p> <p>endpoint_profile_name</p> <p>Specify the endpoint profile name.</p> <p>Must be a string.</p> <p>api-root <i>api_root</i></p> <p>Specify the API root.</p> <p>Must be a string.</p>

uri-scheme *uri_scheme*

Specify the URI scheme.

Must be one of the following:

- http
- https

Usage Guidelines Use this command to configure endpoint profile parameters.

group nrf mgmt service type nrf endpoint-profile endpoint-name

Configures the endpoint name.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **endpoint-name** *endpoint_name* [**priority** *priority*]

endpoint_name

Specify the endpoint name.

Must be a string.

priority priority

Specify the node priority for endpoint.

Must be an integer in the range of 0-65535.

Usage Guidelines Use this command to configure the endpoint name.

group nrf mgmt service type nrf endpoint-profile endpoint-name primary ip-address

Configures the endpoint IP address and port number.

Privilege Security Administrator, Administrator

Command Modes Exec > Global Configuration

Syntax Description **ip-address** { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

ipv4 ipv4_address

Specify the IPv4 address.

Must be an IPv4 address.

ipv6 *ipv6_address*

Specify the IPv6 address.

Must be an IPv6 address.

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf mgmt service type nrf endpoint-profile endpoint-name secondary ip-address

Configures the endpoint IP address and port number.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

ip-address { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

ipv4 *ipv4_address*

Specify the IPv4 address.

Must be an IPv4 address.

ipv6 *ipv6_address*

Specify the IPv6 address.

Must be an IPv6 address.

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf mgmt service type nrf endpoint-profile endpoint-name tertiary ip-address

Configures the endpoint IP address and port number.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

ip-address { { **ipv4** *ipv4_address* | **ipv6** *ipv6_address* } | **port** *port_number* }

ipv4 *ipv4_address*

Specify the IPv4 address.

Must be an IPv4 address.

ipv6 *ipv6_address*

Specify the IPv6 address.

Must be an IPv6 address.

port *port_number*

Specify the port number.

Must be an integer in the range of 0-65535.

Usage Guidelines

Use this command to configure the endpoint IP address and port number.

group nrf mgmt service type nrf endpoint-profile version uri-version

Configures version information.

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration

Syntax Description

uri-version *uri_version* [**full-version** *full_version*]

uri_version

Specify the URI version.

Must be a string in the pattern v\d.

full-version *full_version*

Specify the full version in the format *major-version.minor-version.patch-version.[alpha-draft-number]*

Must be a string.

Usage Guidelines

Use this command to configure the version information.

```
group nrf mgmt service type nrf endpoint-profile version uri-version
```