SMF NRF CLI Commands

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   **heartbeat interval** *heartbeat_interval*

interval *heartbeat_interval*

Specify the heartbeat interval time in seconds.

Must be an integer.

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   **reconnect interval** *reconnect_interval*

interval *reconnect_interval*

Specify the reconnect interval time in milliseconds.

Must be an integer.

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

group_name

Specify the NRF auth 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 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.

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:

- nnrf-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.

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	**nrf nrf-service-name** *nrf_service_name* **[responsetimeout** *response_timeout* **]**

nrf-service-name *nrf_service_name*

Specify the NRF service name.

Must be one of the following:

- nnrf-nfm

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 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	**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 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