Network Service Header - Format Configuration Mode Commands

The Network Service Header (NSH) - format configuration mode is a sub-mode of the Global Configuration mode. This sub-mode defines nsh-format for encoding or decoding NSH header.

**Command Modes**

Exec > Global Configuration > Network Service Header > Network Service Header - Format Configuration

configure > nsh > nsh-format

Entering the above command sequence results in the following prompt:

```
[local]host_name(nsh-nshformat)#
```

**Important**

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

- decode, on page 2
- encode, on page 3
- encoding-frequency, on page 4
- end, on page 5
- exit, on page 6
decode

This command decodes the NSH fields to be associated with the NSH format.

Product

| P-GW |
| SAEGW |

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > NSH Configuration > NSH-Format Configuration

configure > nsh > nsh-format

Entering the above command sequence results in the following prompt:

[local]host_name(config-nshformats)#

Syntax Description

\[[ \text{no} ]\] decode nsh-fields \(<\text{nsh_fields_name}>\)

- no
  - Deletes the nsh-format type.

- nsh-fields
  - Decodes the nsh-fields to be associated with the nsh-format.

Usage Guidelines

Use this command to associate a tag value to a field.

Example

The following commands decodes the nsh-fields to be associated with the nsh-format:

decode nsh-fields F1

The following commands deletes the nsh-format:

no decode nsh-fields F1
**encode**

This command encodes the NSH fields to be associated with the NSH format.

**Product**
- P-GW
- SAEGW

**Privilege**
- Security Administrator, Administrator

**Command Modes**
- Exec > Global Configuration > NSH Configuration > NSH-Format Configuration
- configure > nsh > nsh-format

Entering the above command sequence results in the following prompt:

```
[local]\host_name(config-nshformats)#
```

**Syntax Description**

```
[ no ] encode nsh-fields <nsh_fields_name>
```

- **no**
  - Deletes the nsh-format type.

- **nsh-fields**
  - Encodes the nsh-fields to be associated with the nsh-format.

**Usage Guidelines**

Use this command to associate a tag value to a field.

**Example**

The following commands encodes the nsh-fields to be associated with the nsh-format:

```
encode nsh-fields F1
```

The following commands deletes the nsh-format:

```
no encode nsh-fields F1
```
encoding-frequency

This command defines frequency of encoding the NSH fields to be associated with the NSH format.

**Product**
P-GW
SAEGW

**Privilege**
Security Administrator, Administrator

**Command Modes**
Exec > Global Configuration > NSH Configuration > NSH-Format Configuration

```
configure > nsh > nsh-format
```

Entering the above command sequence results in the following prompt:

```
[local]\host_name(config-nshformats)\$
```

**Syntax Description**

```
encoding-frequency { always | once-per-flow }
```

- **encoding-frequency**
  Defines frequency of encoding nsh-fields.

  - **always**
    Encodes nsh fields on every hit.

  - **once-per-flow**
    Encodes nsh fields once per flow.

**Usage Guidelines**

Use this command to define the frequency of encoding the nsh fields.

**Example**
The following commands defines the frequency of encoding the nsh-fields to be associated with the nsh-format:

```
encoding-frequency always
```
**end**

Exits the current configuration mode and returns to the Exec mode.

**Product**

SGSN

**Privilege**

Security Administrator, Administrator

**Syntax Description**

```plaintext
end
```

**Usage Guidelines**

Return to the Exec mode.
**exit**

Exits the current configuration mode and returns to the global configuration mode.

**Product**
SGSN

**Privilege**
Security Administrator, Administrator

**Syntax Description**
exit

**Usage Guidelines**
Returns to the global configuration mode.