



# 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).



## Important

For information on common commands available in this configuration mode, refer to the [Common Commands](#) chapter.

- [decode, on page 1](#)
- [encode, on page 2](#)
- [encoding-frequency, on page 3](#)

## 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**

```
[ no ] decode nsh-fields <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
```

encoding-frequency