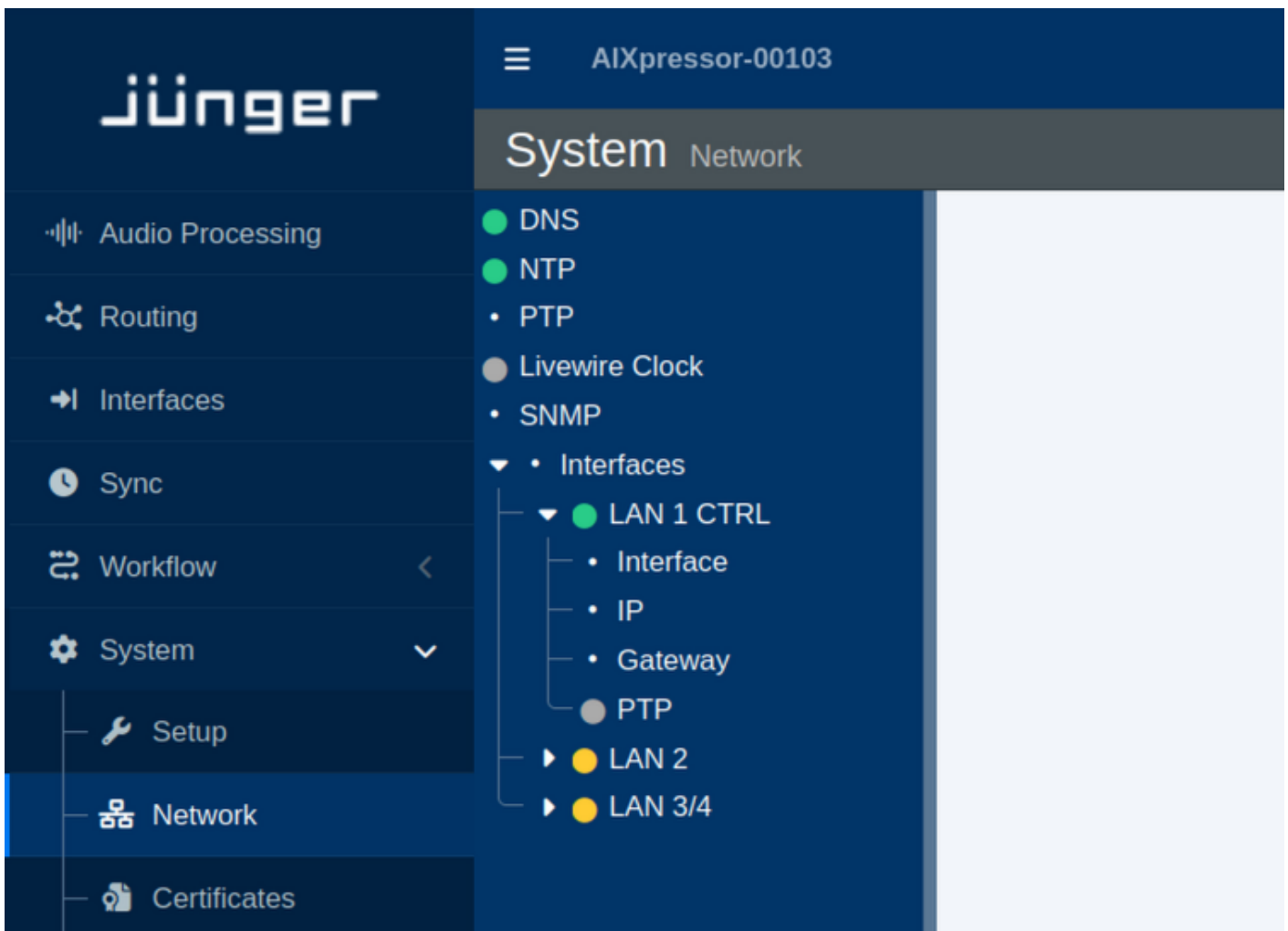


Network

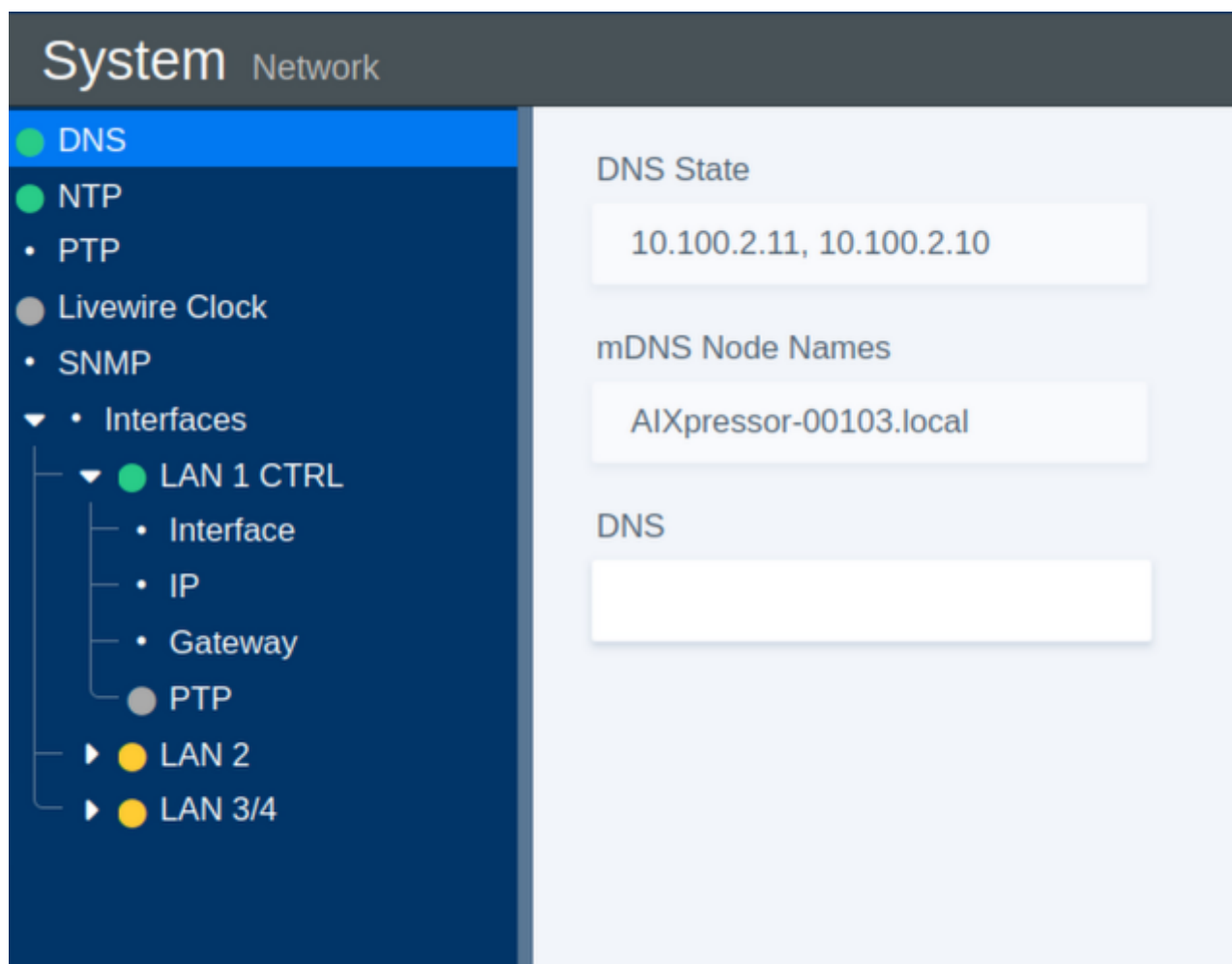
This section describes the network-related settings available in the flexAI web interface.

The examples in this section use **LAN 1 CTRL**, as labeled on the AIXpressor. The same configuration options are available for the other network interfaces, depending on the physical configuration of the flexAI system.

Overview



DNS



The **DNS** section provides the name resolution and local network discovery settings.

Parameter	Values	Default	Description
DNS State	Status	-	Shows the current DNS state.
mDNS Node Name	Status	-	Shows the multicast DNS (mDNS) name used for local network discovery.
DNS	On / Off	-	Enables or disables standard DNS resolution for domain name lookups.

NTP

SystemNetwork

DNS

NTP

• PTP

Livewire Clock

• SNMP

• Interfaces

LAN 1 CTRL

• Interface

• IP

• Gateway

• PTP

• LAN 2

• LAN 3/4

NTP State

Synchronized to Time Server ntp01.pingless.com:123

Enable NTP

☒

Use Fallback NTP Internet Servers from debian.pool.ntp.org

☒

NTP Server

1

2

3

4

The **NTP** section configures Network Time Protocol synchronization for the system clock.

Parameter	Values	Default	Description
NTP State	Status	-	Shows the NTP server to which the system is currently synchronized.
Enable NTP	On / Off	On	Enables or disables NTP time synchronization.
Use Fallback	On / Off	On	Enables fallback to public Debian NTP servers if none of the configured servers are available.
NTP Server 1	URL	-	Defines the primary NTP server.
NTP Server 2	URL	-	Defines the secondary NTP server.
NTP Server 3	URL	-	Defines the tertiary NTP server.
NTP Server 4	URL	-	Defines the fourth NTP server.

Livewire Clock

System

Network

● DNS

● NTP

• PTP

● Livewire Clock

• SNMP

▼

• Interfaces

▼

● LAN 1 CTRL

• Interface

• IP

• Gateway

● PTP

▶ LAN 2

▶ LAN 3/4

Mode

Disabled

Network Interface

LAN 1 CTRL

Locked to Leader

● Not Locked

Leader ID

Offset

0.000

μs

Jitter

0.000

μs

The **Livewire Clock** section provides synchronization settings and status information for Livewire clocking.

Parameter	Values	Default	Description
Mode	On / Off	On	Enables or disables Livewire clock synchronization.
Network Interface	Select	-	Selects the network interface used for Livewire clock communication.
Locked to Leader	Status	-	Indicates whether the system is synchronized to the current Leader Clock.
Leader ID	Status	-	Shows the identifier of the current Leader Clock.

Parameter	Values	Default	Description
Offset	Status	-	Shows the time offset between the system and the Leader Clock.
Jitter	Status	-	Shows the measured timing jitter.

SNMP

System

Network

DNS

NTP

• PTP

Livewire Clock

• **SNMP**

• Interfaces

▼ LAN 1 CTRL

• Interface

• IP

• Gateway

• PTP

▶ LAN 2

▶ LAN 3/4

Enable

Community

public

Host Name

AIXpressor-00103

System Location

System Contact

Trap Sink IP Address

127.0.0.1

Trap Sink Port

162

The **SNMP** section configures Simple Network Management Protocol monitoring.

Parameter	Values	Default	Description
Enable	On / Off	On	Enables or disables the SNMP agent.
Community	Name	public	Defines the community string used for SNMP access.
Host Name	Status	-	Shows the system host name.
System Location	Status	-	Shows the configured physical location of the system.
System Contact	Status	-	Shows the configured contact information for the system.
Trap Sink IP Address	IP Address	-	Defines the destination IP address for SNMP trap messages.
Trap Sink Port	Port Number	162	Defines the destination port for SNMP trap messages.

Interfaces: IP Address

System

Network

- DNS
- NTP
- PTP
- Livewire Clock
- SNMP
- Interfaces
 - LAN 1 CTRL
 - Interface
 - IP
 - Gateway
 - LAN 2
 - LAN 3/4

INTERFACE

IP

GATEWAY

PTP

Current IP Addresses

10.110.1.33/16 (dynamic)

fdcf:2b27:43bb:dfb0:213:95ff:fe29:b5f1/64 (dynamic)

fe80::213:95ff:fe29:b5f1/64 (link-local)

Use Dynamic Addresses

☒

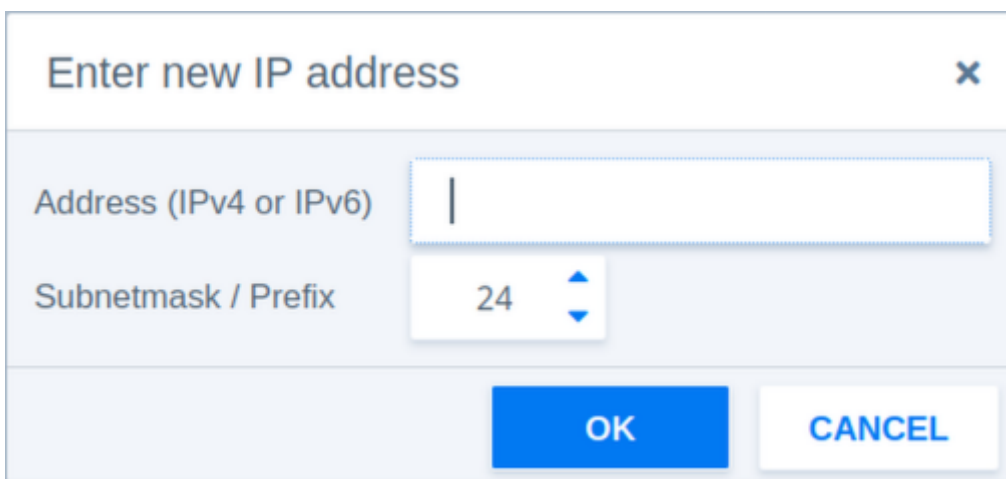
Static Addresses

IP-ADDRESS	MASK / PREFIX	ACTIONS
ADD IP ADDRESS RESTORE FACTORY DEFAULTS		

This section configures the IP addresses assigned to the selected network interface.

Parameter	Values	Default	Description
Current IP Addresses	Status	-	Shows all IP addresses currently assigned to the interface.
Use Dynamic Addresses	On / Off	On	Enables or disables automatic IP address assignment using DHCP.
Static Addresses	Status	-	Shows the manually configured static IP addresses.
Add IP Address	Action	-	Opens a dialog for adding a static IP address and subnet mask or prefix.
Restore Factory Defaults	Toggle	Off	Restores the IP configuration of the interface to its factory defaults.

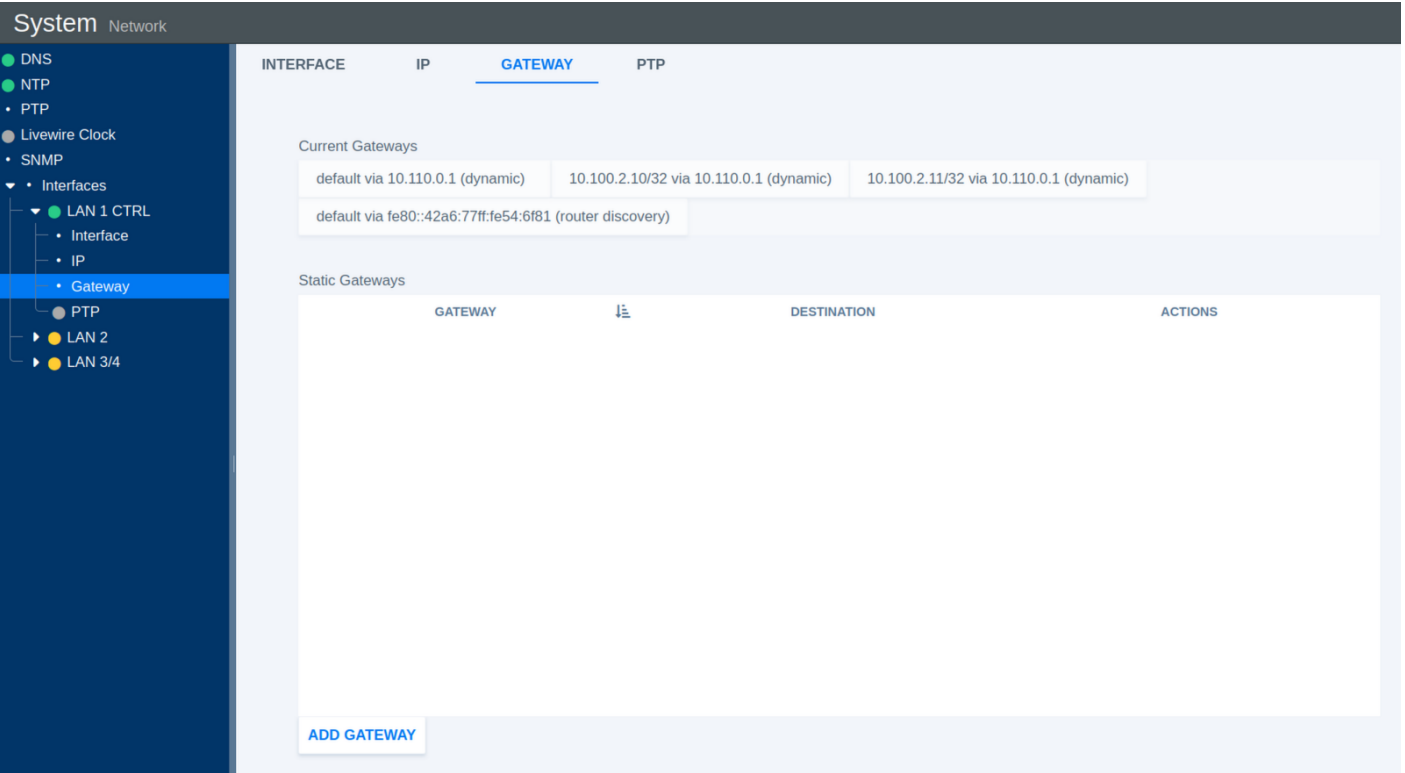
Add Static IP Address



The following parameters are available when adding a static IP address manually.

Parameter	Values	Default	Description
Address	IPv4 or IPv6	-	Defines the static IP address.
Subnetmask / Prefix	3-127	24	Defines the network prefix length or subnet mask.
Prefix Example 1	24	-	Corresponds to the IPv4 subnet mask 255.255.255.0.
Prefix Example 2	16	-	Corresponds to the IPv4 subnet mask 255.255.0.0.

Interfaces: Gateway



This section configures network gateways for the selected interface.

Parameter	Values	Default	Description
Current Gateways	Status	-	Shows all currently active gateway addresses.
Static Gateways	Status	-	Shows manually configured static gateway addresses.
Add Gateway	Action	-	Opens a dialog for adding a static gateway.

Add Static Gateway

Enter new gateway

×

Gateway (IPv4 or IPv6)

Scope

System Wide ▼

Is Default

☒

Destination

Destination Prefix

24 ▲▼

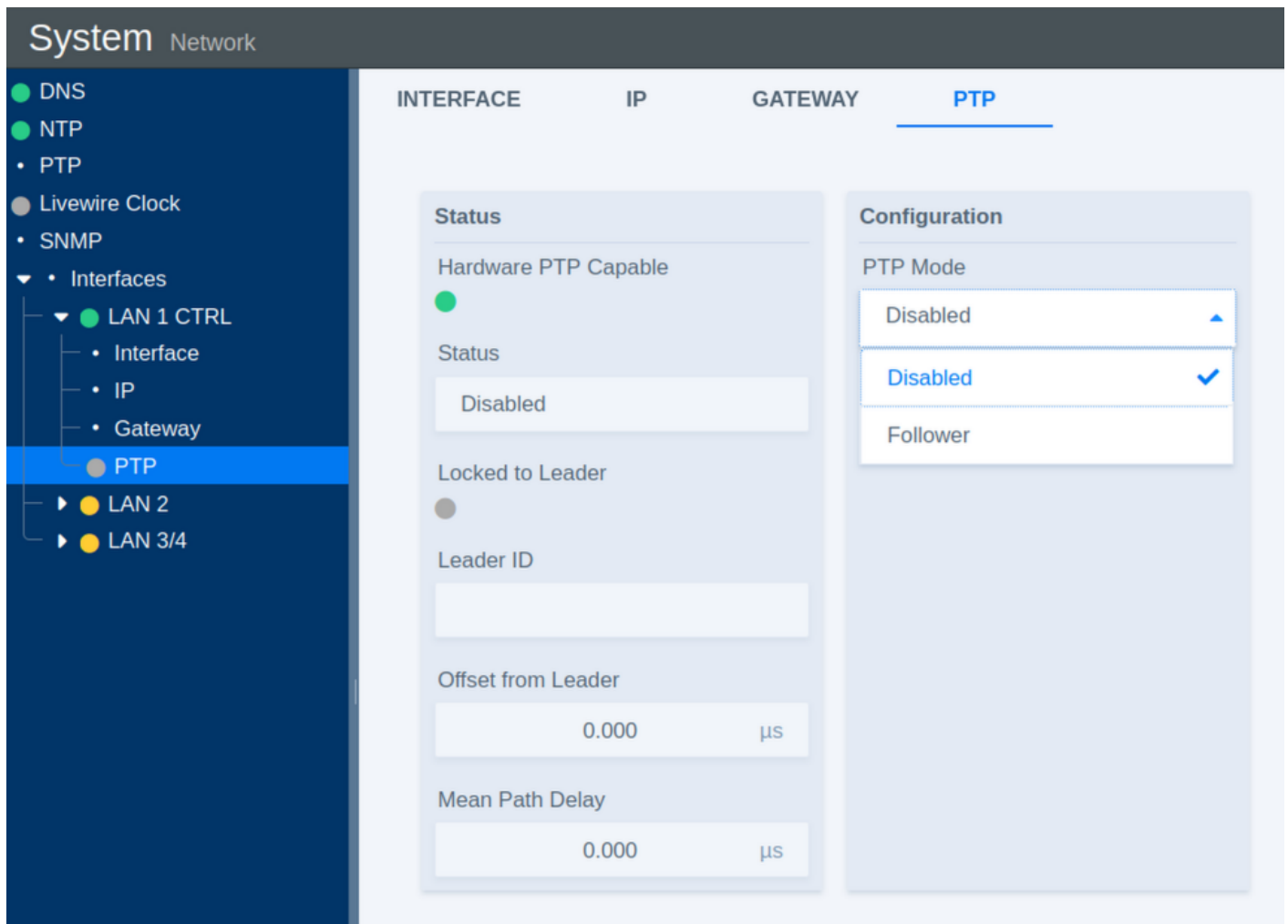
OK

CANCEL

The following parameters are available when adding a static gateway manually.

Parameter	Values	Default	Description
Gateway	IPv4 or IPv6	-	Defines the gateway IP address.
Scope	System Wide / Link Specific	System Wide	System Wide makes the gateway available system-wide. Link Specific associates the gateway with the selected network interface only.
Is Default	Checkbox	-	Sets this gateway as the default route for traffic that does not match a more specific route.
Destination Prefix	3-127	24	Defines the network prefix length of the destination route.

Interfaces: PTP

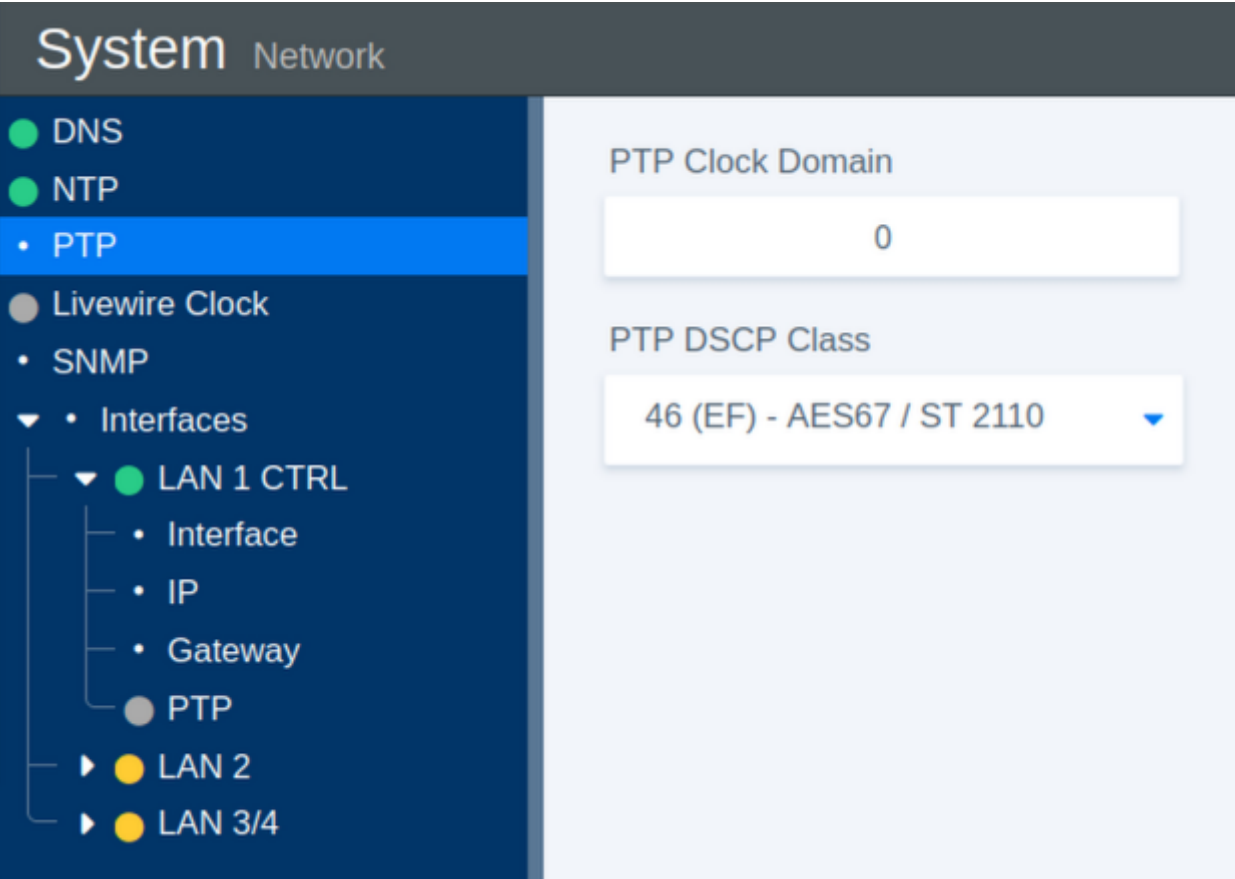


The **PTP** section configures Precision Time Protocol synchronization for the selected network interface.

Parameter	Values	Default	Description
Status	Error / Enabled / Disabled	Disabled	Shows the current operational state of PTP synchronization.
Locked to Leader	Indicator	-	Indicates whether the system is successfully synchronized to a PTP Leader Clock.
Leader ID	Status	-	Shows the identifier of the current PTP Leader Clock.
Offset from Leader	Status	-	Shows the time deviation from the Leader Clock in nanoseconds.
Mean Path Delay	Status	-	Shows the measured mean network path delay for PTP communication.

Parameter	Values	Default	Description
PTP Mode	Disabled / Follower	Follower	Disabled turns off PTP synchronization on this interface. Follower synchronizes the system to an external PTP Leader Clock.

PTP Clock Settings



These parameters define the general PTP clock settings.

Parameter	Values	Default	Description
PTP Clock Domain	0-127	0	Defines the PTP domain number. Only PTP devices operating in the same domain participate in the same synchronization instance.
PTP DSCP Class	0-63	46	Defines the Differentiated Services Code Point (DSCP) used to prioritize PTP network traffic.

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