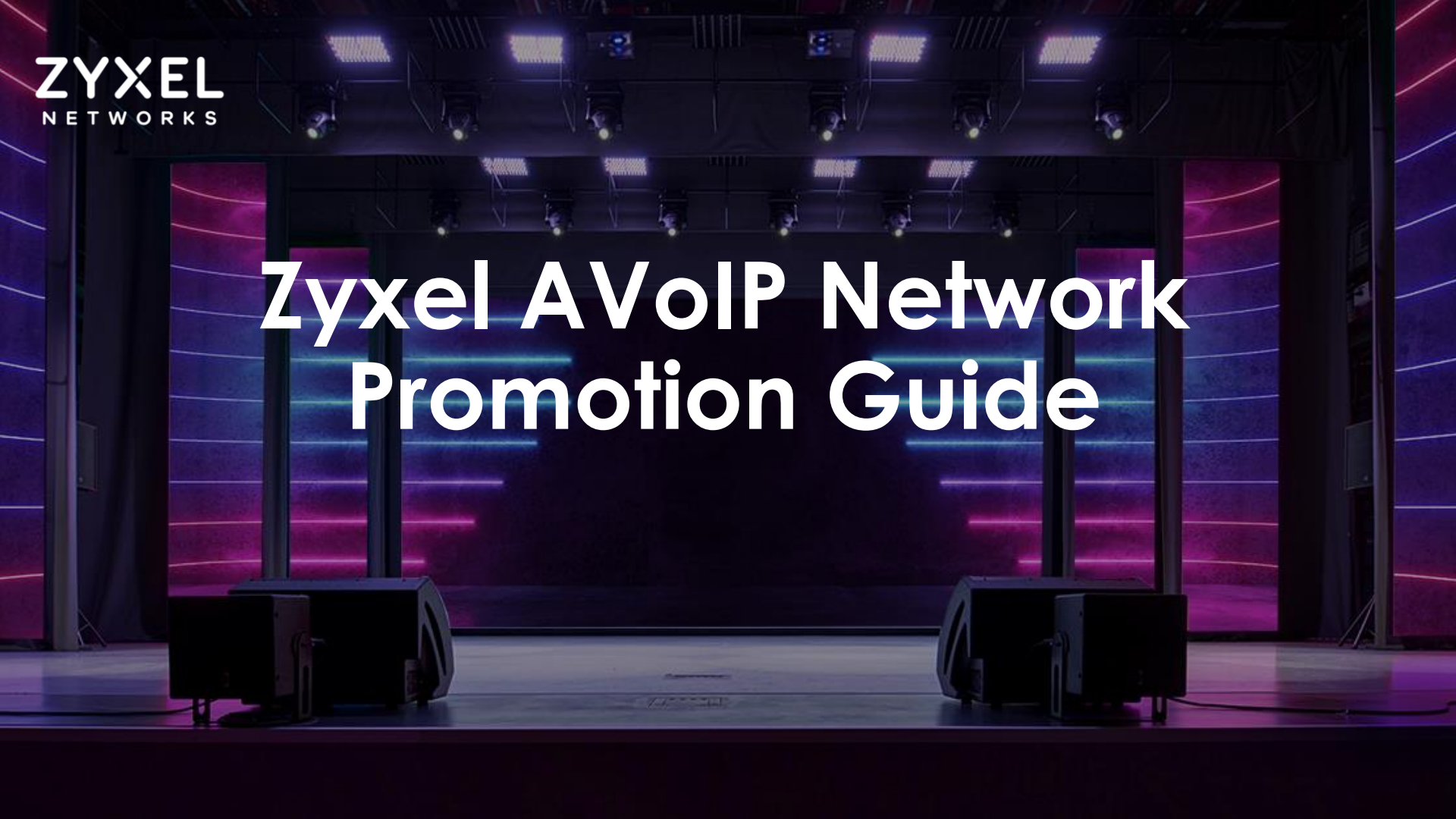
ZYXEL
NETWORKS
Zyxel AVoIP Network
Promotion Guide

Background

- More and more audio and video system are transforming their traditional Matrix Switch infrastructure to industry standard IP-based network technology. This change brings flexibility to easily scale AV networks as well as extends to longer distance.
- Traditional AV system makers are less familiar with IP-based network setup, especially with IGMP setting. Detailed IGMP parameter could easily be ignored which results major impact to system performance.
- Zyxel is a professional Ethernet switch provider with profound knowledge in IP multicasting for various applications. This document serves as a guidance for proper IGMP setting in different AVoIP scenarios.

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Switch For Networked AV

mGig 2.5G 10G

1930 Series

License Required

LAN	1G/2.5G/5G/10G (XS1930) 1G/2.5G (XMG1930)
Uplink:	10G
Uplink type	10G mGig RJ45 & 10G SFP+
Models	XS1930-10/12HP/12F XMG1930-30/30HP
Type (Class)	Cloud / Smart Lite L3
High PoE Budget	375W (XS1930-12HP) 700W (XMG1930-30HP)
PoE standard	PoE, PoE+, PoE++
Networked AV mode	Yes

GS2220 Series

LAN	1G
Uplink:	1G
Uplink type	Combo (SFP/RJ45)
Models	8/8HP/24/ 24HP/48/48HP
Type (Class)	Cloud / L2 Plus
High PoE Budget	180W (8HP) 375W (24HP/48HP)
PoE standard	PoE & PoE+
Networked AV mode	Yes

10G

XGS2220 Series

LAN	1G
Uplink	10G
Uplink type	10G mGig RJ45 & 10G SFP+
Models	30F/30/30HP/ 54/54HP/54FP
Type (Class)	Cloud / L3 Access
High PoE Budget	400W (30HP), 600W (54HP), 960W (54FP)
PoE standard	PoE, PoE+, PoE++
Networked AV mode	Yes

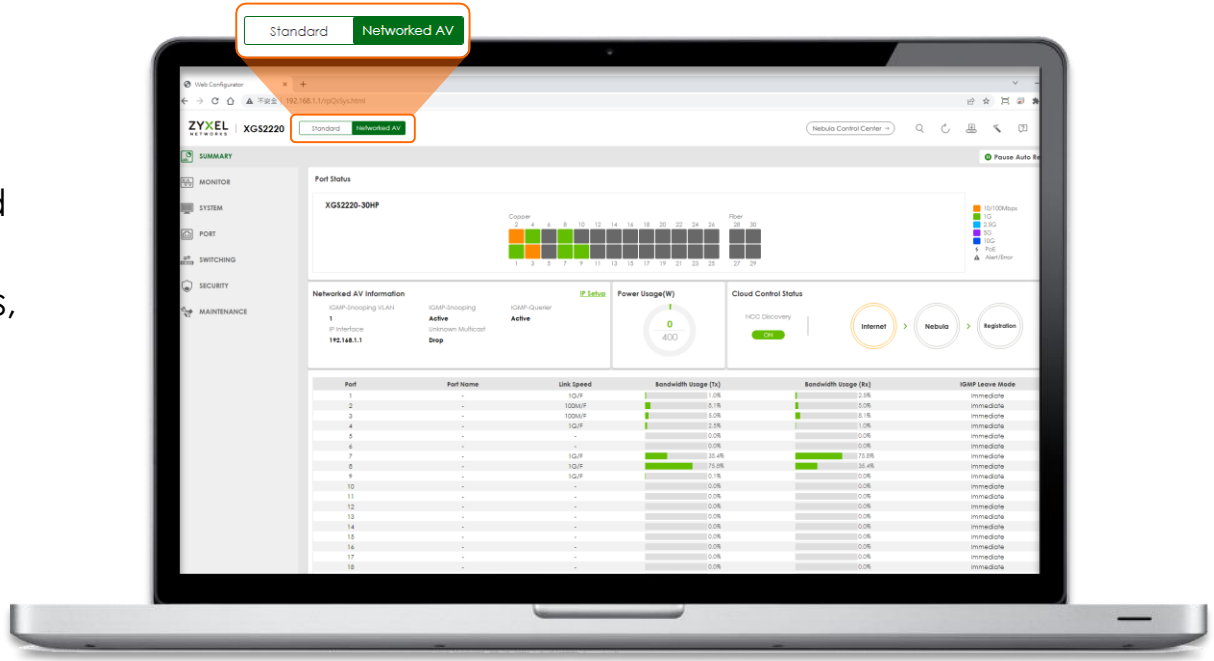
mGig 10G

XS3800-28

LAN	1G/2.5G/5G/10G
Uplink	10G
Uplink type	Combo (10G SFP+/10G mGig RJ45)
Type (Class)	Cloud / L3 Aggregation
Networked AV mode	Yes

Networked AV Mode

It is an intuitive web interface designed with chosen Networked AV features to give you an instantly view of the current status, with a condensed function menu to help you maintain and configure with ease.



Tailor-made Experience For Networked AV

Standard Mode

Zyxel's standard Layer 3 Access Switch web interface suitable for advanced users to utilize complete switching features in complex networks.

Networked AV Mode

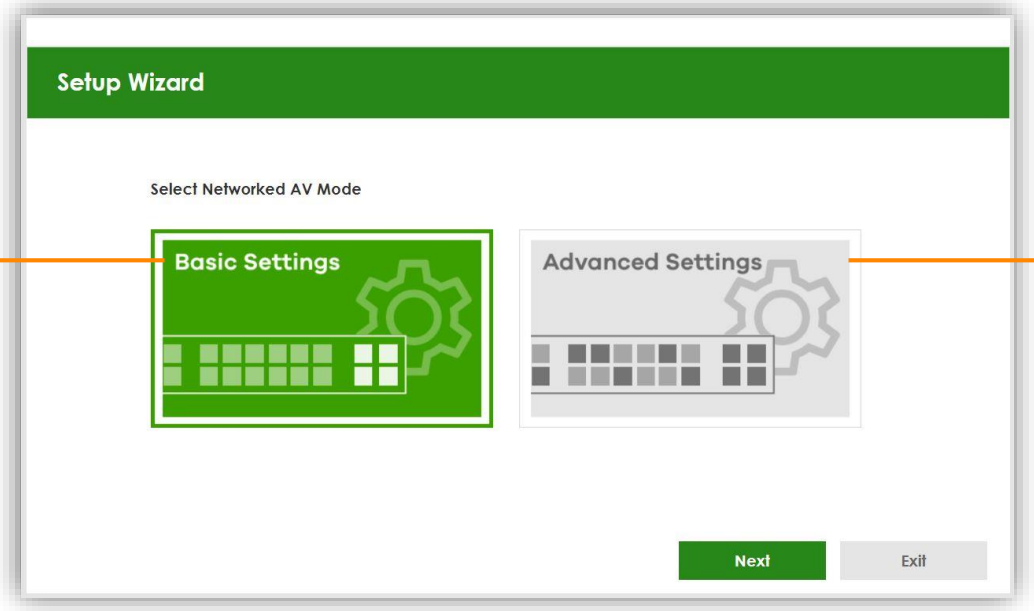
An intuitive web interface designed with chosen Networked AV features to give you an instantly view of the current status, with a condensed function menu to help you maintain and configure with ease.

Networked AV Setup Wizard

There are 2 options for the setup wizard: basic settings and advanced settings. Choose the one which fits your applications before start.

Basic Settings

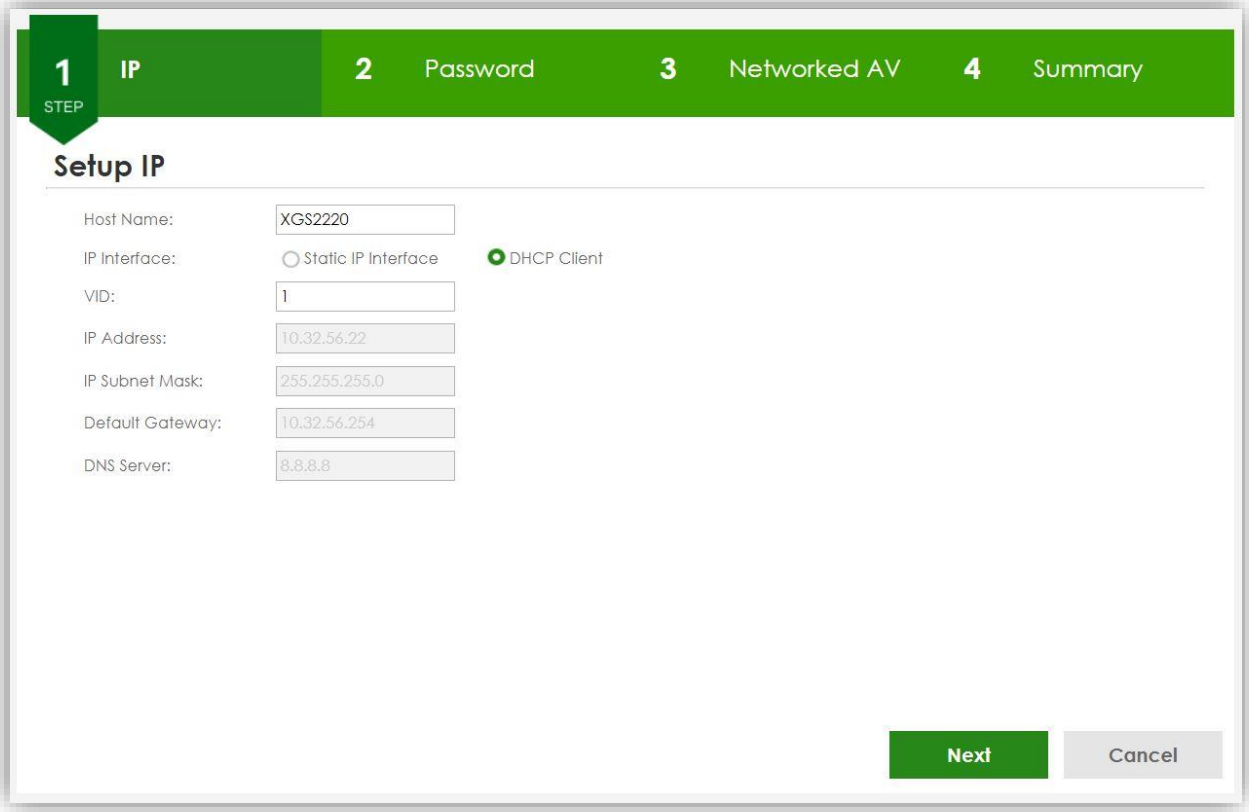
Simply click Next and go.



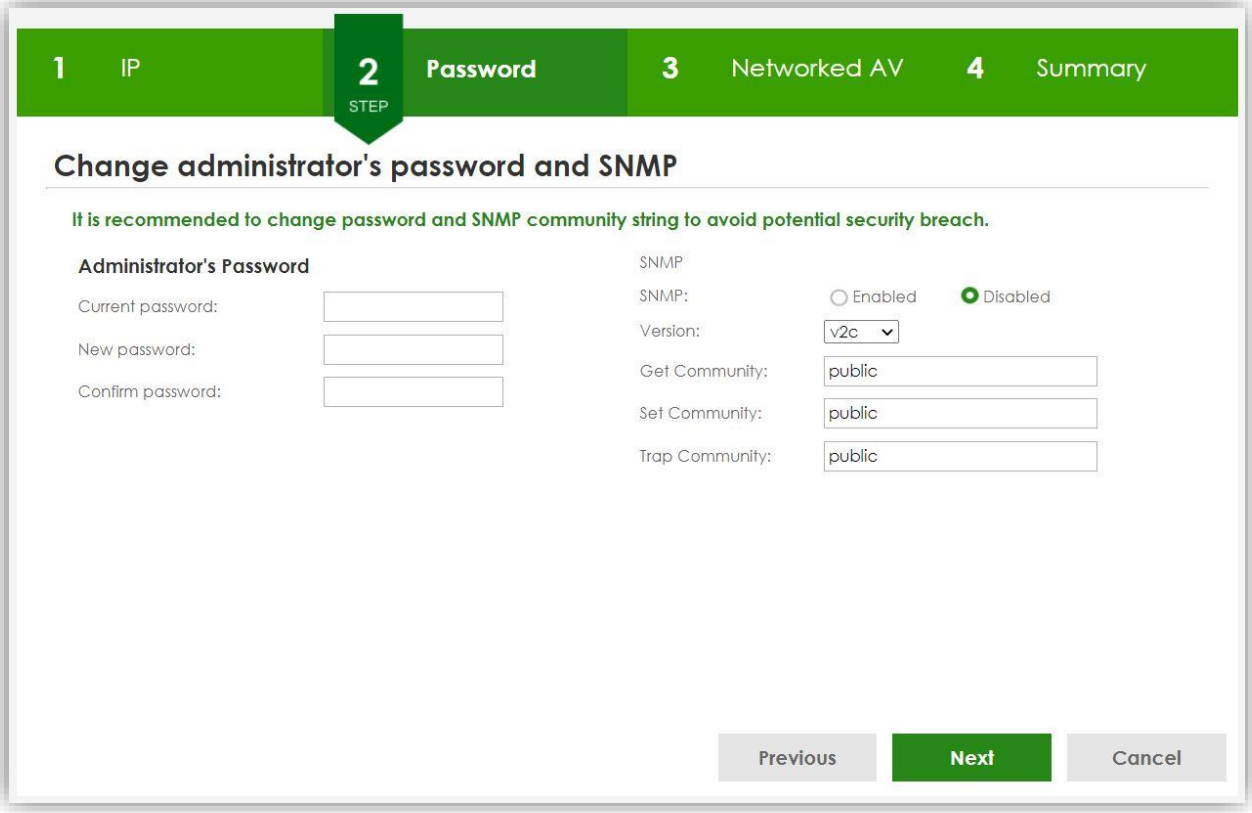
Advanced Settings

Ease the complex VLAN settings in one step.

Wizard Step 1 - Setup IP

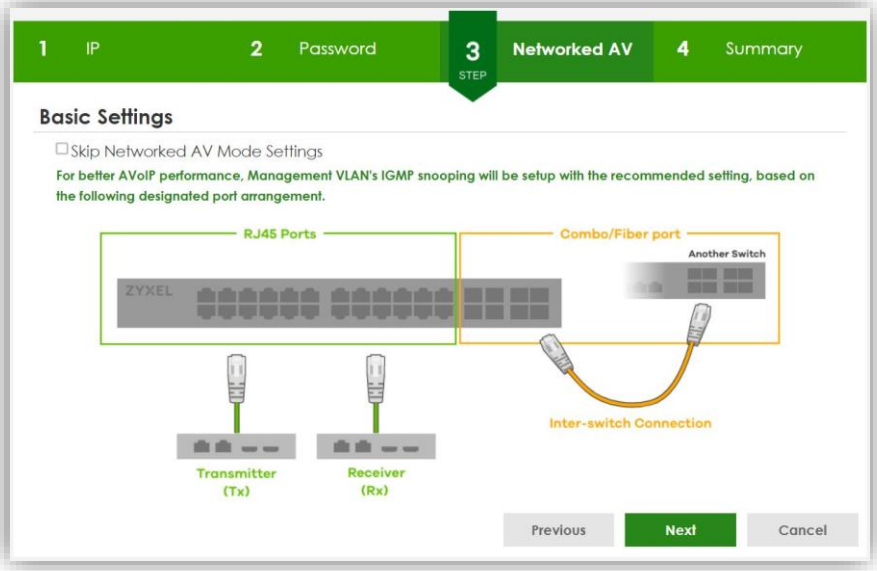


Wizard Step 2 - Change Password

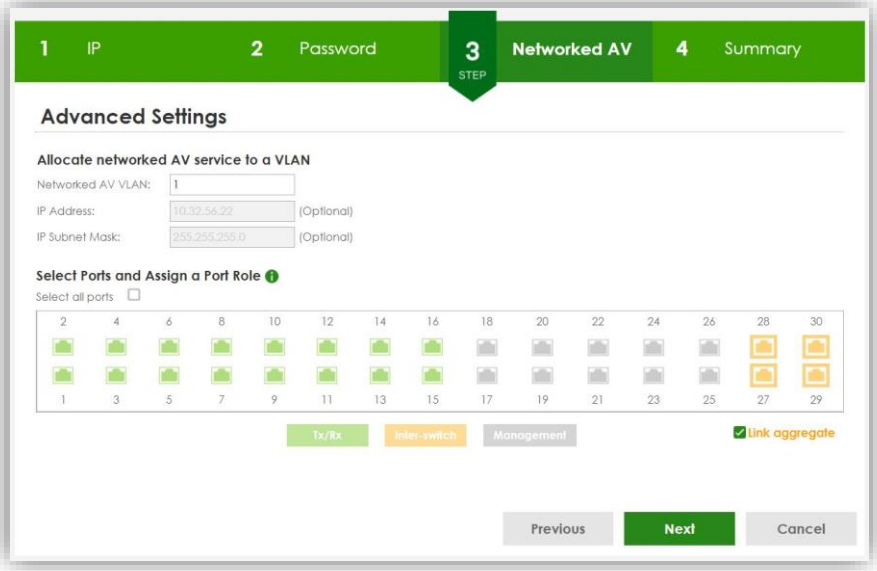


Wizard Step 3 – Networked AV

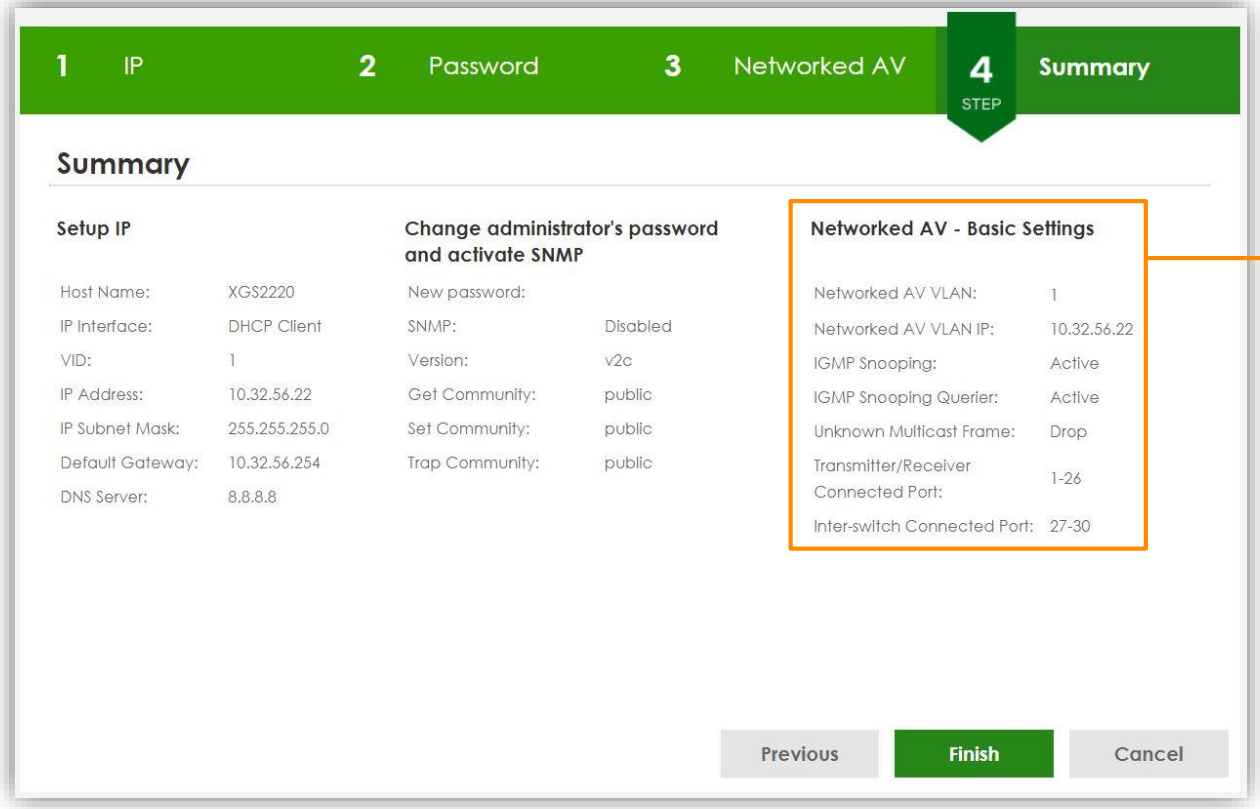
If choose Basic Settings
For default IP / VLAN environment



If choose Advanced Settings
Flexible setting with IP and port assignment



Wizard Step 4 - Summary



Basic Setting

Recommended settings will automatically be applied to Switch with simple clicks.

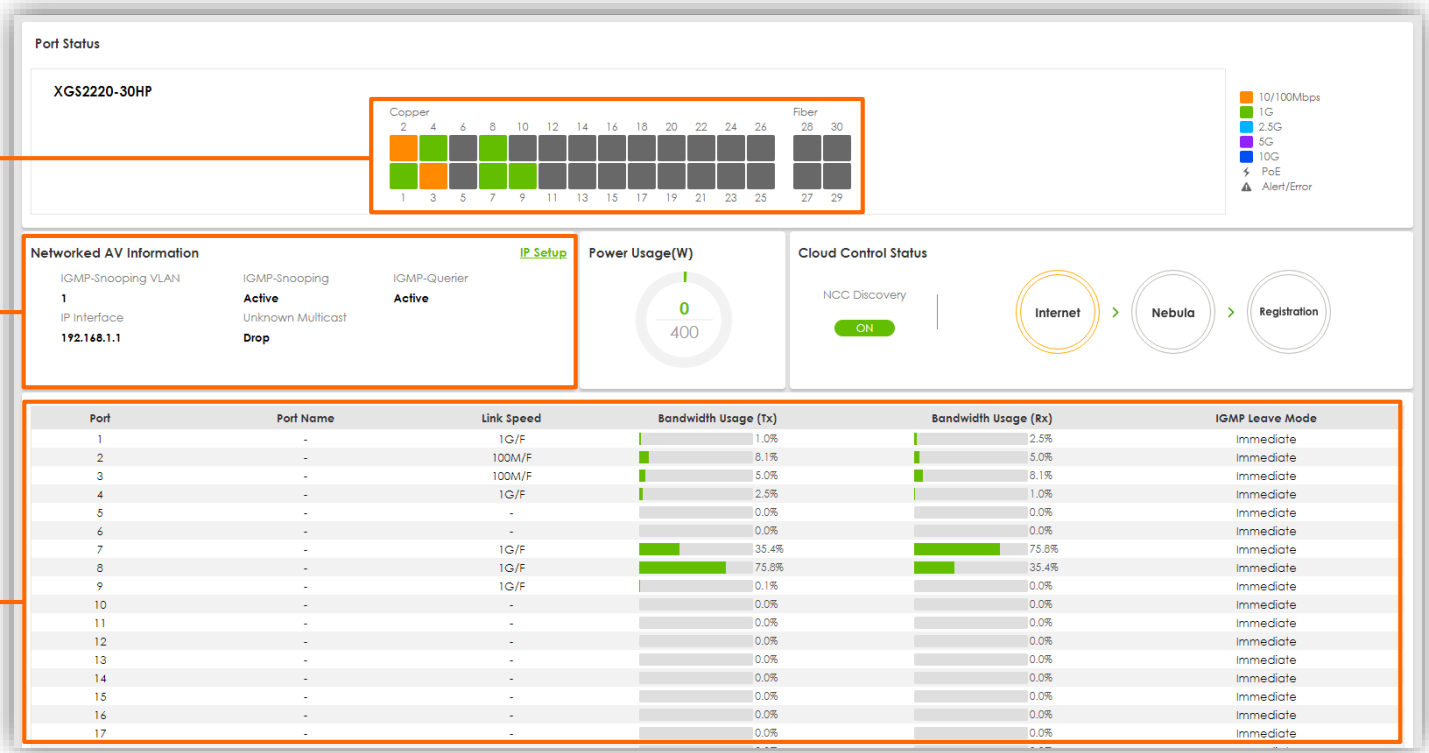
Networked AV Dashboard

Networked AV mode give you an instantly view of the current status, with a condensed function menu to help you maintain and configure with ease.

Port and system status

Networked AV status at a glance

Link information for each port



Port	Port Name	Link Speed	Bandwidth Usage (Tx)	Bandwidth Usage (Rx)	IGMP Leave Mode
1	-	1G/F	1.0%	2.5%	Immediate
2	-	100M/F	8.1%	5.0%	Immediate
3	-	100M/F	5.0%	8.1%	Immediate
4	-	1G/F	2.5%	1.0%	Immediate
5	-	-	0.0%	0.0%	Immediate
6	-	-	0.0%	0.0%	Immediate
7	-	1G/F	35.4%	75.8%	Immediate
8	-	1G/F	75.8%	35.4%	Immediate
9	-	1G/F	0.1%	0.0%	Immediate
10	-	-	0.0%	0.0%	Immediate
11	-	-	0.0%	0.0%	Immediate
12	-	-	0.0%	0.0%	Immediate
13	-	-	0.0%	0.0%	Immediate
14	-	-	0.0%	0.0%	Immediate
15	-	-	0.0%	0.0%	Immediate
16	-	-	0.0%	0.0%	Immediate
17	-	-	0.0%	0.0%	Immediate

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