

SAMSUNG AXIS

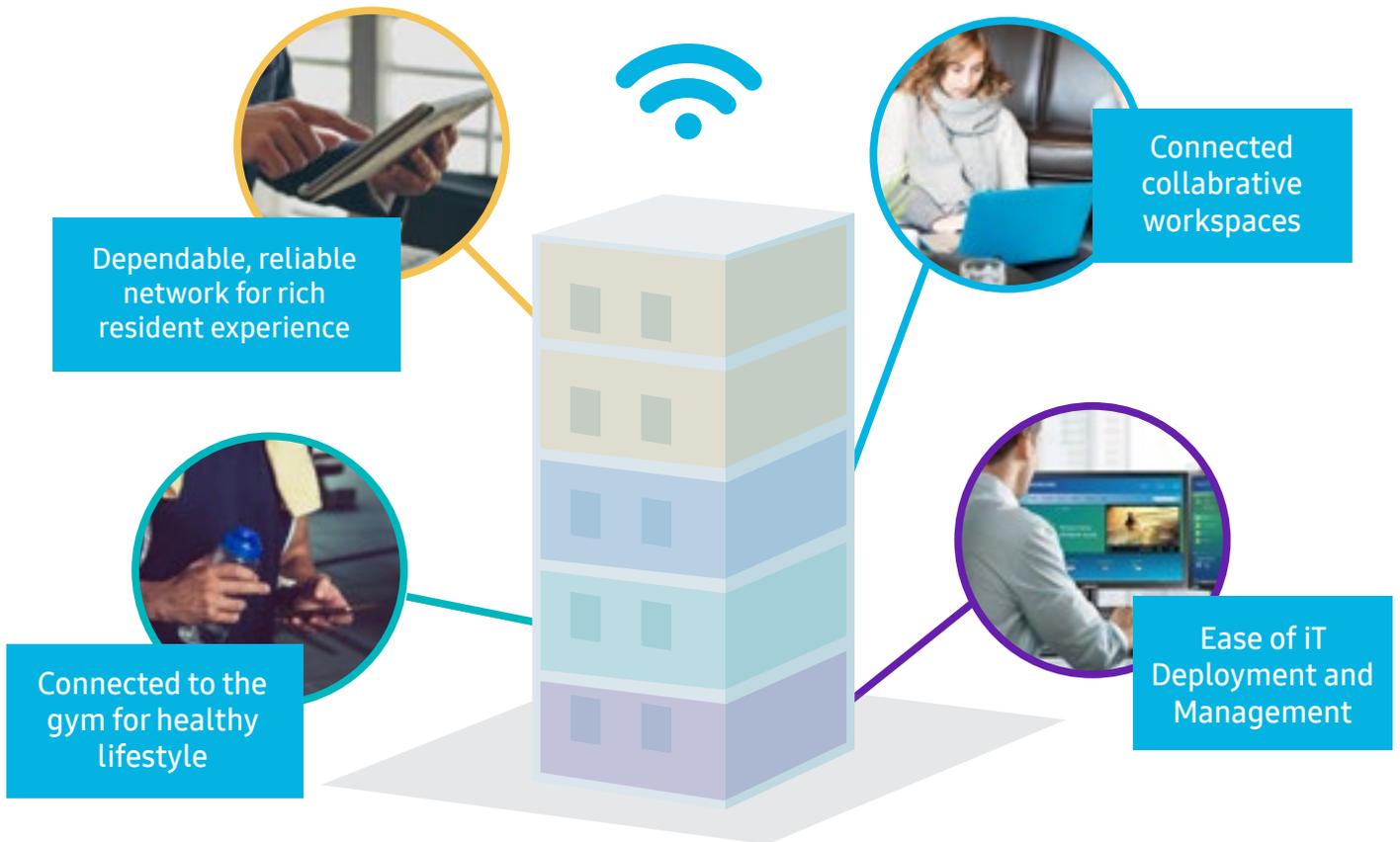
Micro-segmentation Solution for MDU Networks

The Technology

The Samsung Axis virtual Residential Gateway (vRG) solution solves many complexities for MDU operators and IT managers and empowers them to deliver a secure, simple and scalable managed Wi-Fi service. This allows them to seamlessly deploy a separate micro-segmented network for each tenant in a completely self-service manner through a single SSID. This technology is the ultimate solution for deploying a unified WLAN infrastructure in apartment buildings, condominium complexes, student dormitories and other forms of medium-to high-density housing.

The vRG Creates a Personal Network Area that is Independent of Physical Space

The Samsung solution creates a personal network for each resident by micro-segmenting Wi-Fi access. This unique solution lets residents carry their connected experiences with them, as the end-user LAN can extend beyond units to areas such as the pool, gym, lobby and so on. Simply speaking, the residents can play their Xbox and PlayStation from anywhere in the building without worrying about Wi-Fi network security and bandwidth challenges



Centrally Orchestrated Secure Private Wi-Fi and Smart Devices

Enhancing the MDU Brand through Provisioning a Highly Secured and Efficient Wi-Fi Network



Having a separate micro-segmented network for each tenant provides unparalleled flexibility, functionality and security. Apart from instant provision and on-boarding, each tenant can access their own devices, while ensuring that their devices are securely fragmented and isolated, so no other tenant can access them. Furthermore, this ensures that tenants are unable to see each other's traffic, even at the packet level. The network operator defines a single WLAN that broadcasts a single SSID across the property, enabling residents to enjoy the connected experiences of their home from anywhere in the MDU premises. All this is done while providing ease of granular policy management for MDU operators through a central management system.



Self-Service Device Management

The centralized manager maintains database tables that associate the vRG, tenants and devices. Management of the mapping between devices and tenant vRG is entirely self-service with zero operator intervention. The tenant uses a browser to access the tenant portal when a wireless printer, game console, NAS server or any other headless device needs to be added or removed. Devices with integrated browsers will be redirected to the portal when they first connect to the network.

The Samsung Axis micro-segmentation solution provides a secured and dedicated personalized area wireless network with centralized management and intelligence, while providing a seamless and homogenous environment for all Samsung products within the MDU and the tenant unit.

SAMSUNG AXIS Home Settings Profile Billing Usage Logout

Welcome

Device and Session Allocation

10 sessions
10 sessions

Manage Devices

You have 10 managed devices that may be used to capture network events.

Add Device

You may specify a device to act as a different device or a modified device such as a server to gain access. Enter the device's hardware identifier (HWID) address in the form and click the Add button below.

HWID Address:

[See how to use HWID address](#)

You may specify a device to act as a different device or a modified device such as a server to gain access. Enter the device's hardware identifier (HWID) address in the form and click the Add button below.

You currently have 10 active devices being used to capture network events.

Active Devices: [Expand All](#) | [Collapse All](#)

Xbox One (24.0a.0b.03.0a) [Not Forwarded]

Device Info

Name:

HW address:
 Hardware:
 Name:
 HW:
 HWID:

Device Port Forwarding

Name	External Port	Internal Port	Protocol	Device
xbox-874	874	10.0.0.100	TCP_UDP	Xbox One
Microsoft Server	8080	10.0.0.100	TCP_UDP	Xbox One

Resolved HWID

HWID:
 HW address:

DJ-H8PPhgysqyqzqz (10.0.0.1.00.10.00)

Bed Frame (00.06.96.51.0a.0a)
 Neon Switch (7c.5b.8a.eb.78.87) [Not Forwarded]
 Gray Switch (04.03.06.77.08.0a)
 Sony 65" TV Bedroom (04.0a.0a.10.0a.0a)
 Smart Plug Fan (00.07.0f.0d.71.01)
 Smart Watch (04.0b.0a.02.7a.7a)
 Pwd (3c.37.43.0e.0c.7d)
 Smart Plug Ther's Cage (00.07.0f.0d.94.9b)
 Smart Switch Garage (00.07.0f.0d.9b.0b)
 FireTV (10.aa.00.19.ad.0a)
 Win10 Tower (08.2c.4a.8d.03.0a)
 Minecraft Server (00.0c.29.3a.08.77) [Not Forwarded]

Inactive Devices: [Expand All](#) | [Collapse All](#)

The following devices have been registered to your network, but are not currently seen on your network.

Orange Kindle (1a.02.45.18.7e.47)
 DJ-H8mp13-WF (ac.3c.30.02.75.0a.0b)
 DJ-H8mp13-WF (a4.5e.80.0c.45.0f)
 Xbox One X (0e.04.9f.0a.0e.1a) [Not Forwarded]
 PS4 Pro WF (0e.04.9f.0a.0e.1a)

Port Forwarding

Currently managed devices: 10 (10 / 10) [Not Forwarded]

Name	External Port	Internal Port	Protocol	Device
test	3389-3389	10.0.0.100	TCP_UDP	Xbox One
xbox-874	874	10.0.0.100	TCP_UDP	Xbox One
xbox-874	8080	10.0.0.100	TCP_UDP	Microsoft Server
xbox-874	8080	10.0.0.100	TCP_UDP	Xbox One X

xbox-49947 Port Forward Utilization

xbox-3074 Port Forward Utilization

test Port Forward Utilization

microsoft Port Forward Utilization

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Welcome

Network Reports

Top Data Consumers

IP	Bytes
10.0.0.100	1000000
10.0.0.101	500000
10.0.0.102	250000
10.0.0.103	125000
10.0.0.104	62500

Top Connection Consumers

IP	Connections
10.0.0.100	1000
10.0.0.101	500
10.0.0.102	250
10.0.0.103	125
10.0.0.104	62

Top Destination Ports

Port	Bytes
80	1000000
443	500000
8080	250000
8081	125000
8082	62500

Application Usage by Port

TCP Services:

UDP Services:

Event Trigger

Triggered Events:

Transient Groups:

Hourly Utilization

Bytes per Second

Daily Utilization

Bytes per Day

Daily Logins

Logins per Day

Connections

Connections per Hour

xbox-49947 Port Forward Utilization

xbox-3074 Port Forward Utilization

test Port Forward Utilization

microsoft Port Forward Utilization

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