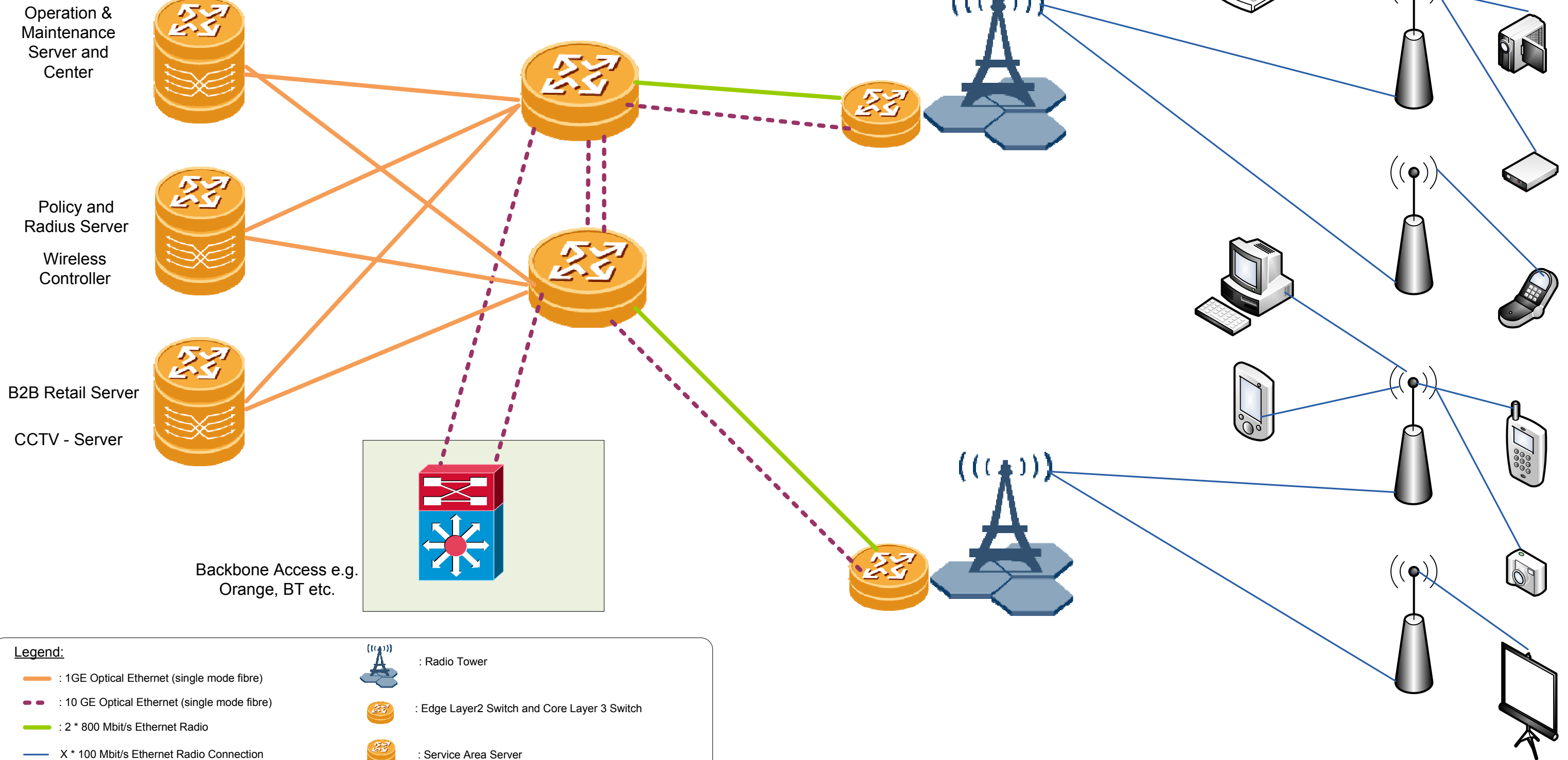


## Service Area





## Core Network

## Edge Network

## Access Network



**Legend:**

-  : 1GE Optical Ethernet (single mode fibre)
-  : 10 GE Optical Ethernet (single mode fibre)
-  : 2 \* 800 Mbit/s Ethernet Radio
-  : X \* 100 Mbit/s Ethernet Radio Connection



: Radio Repeater



: Radio Tower



: Edge Layer2 Switch and Core Layer 3 Switch



: Service Area Server



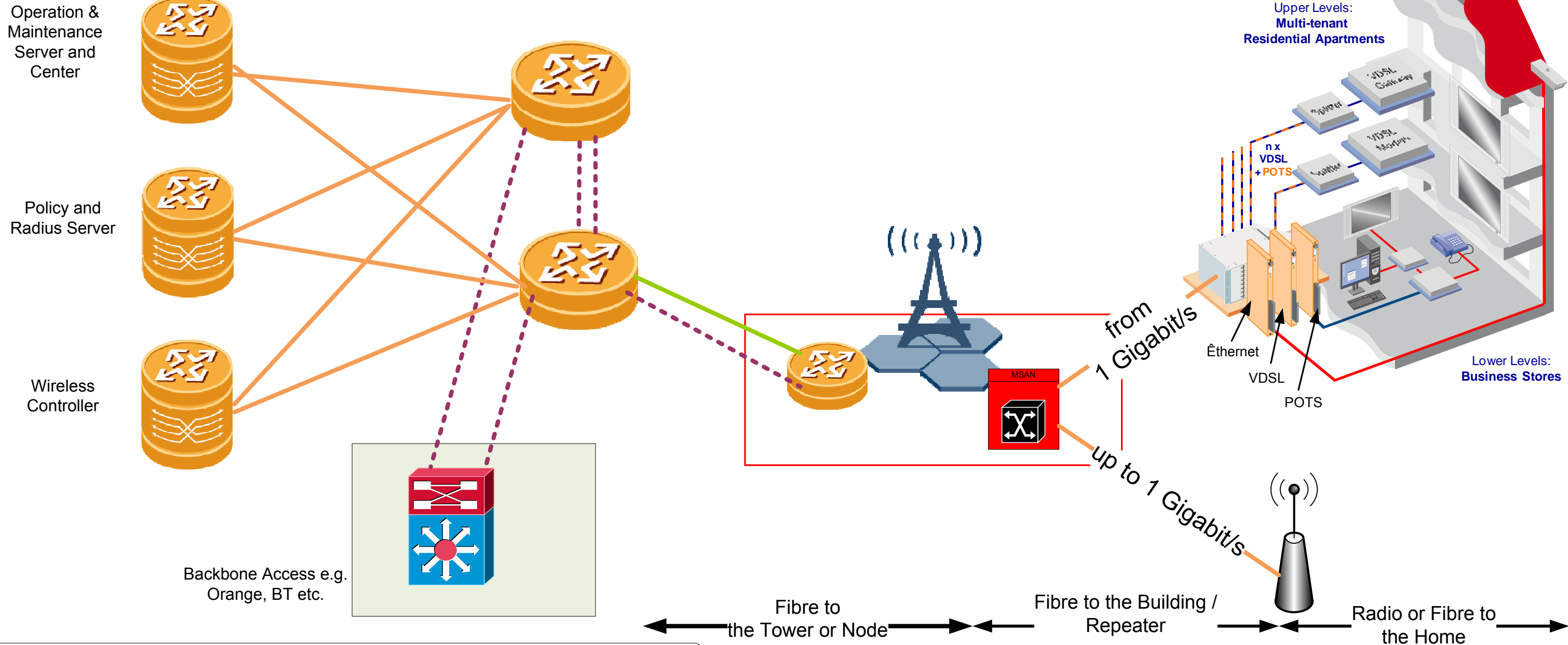
: External Core Layer3 Switch

## Service Area





## Core Network




## Edge Network

## Access Network



**Legend:**

-  : 1GE Optical (single mode fibre)
-  : 10 GE Optical (single mode fibre)
-  : 2 \* 800 Mbit/s Radio
-  : X \* 100 Mbit/s Radio Connection

-  : Radio Tower
-  : Edge Layer2 Switch and Core Layer 3 Switch
-  : Service Area Server

-  : MSAN – Multi Service Access Node
-  : External Core Layer3 Switch
-  : Radio Repeater

## B2B Retail Solution

- Service fulfillment,
- Service assurance
- customer support

for

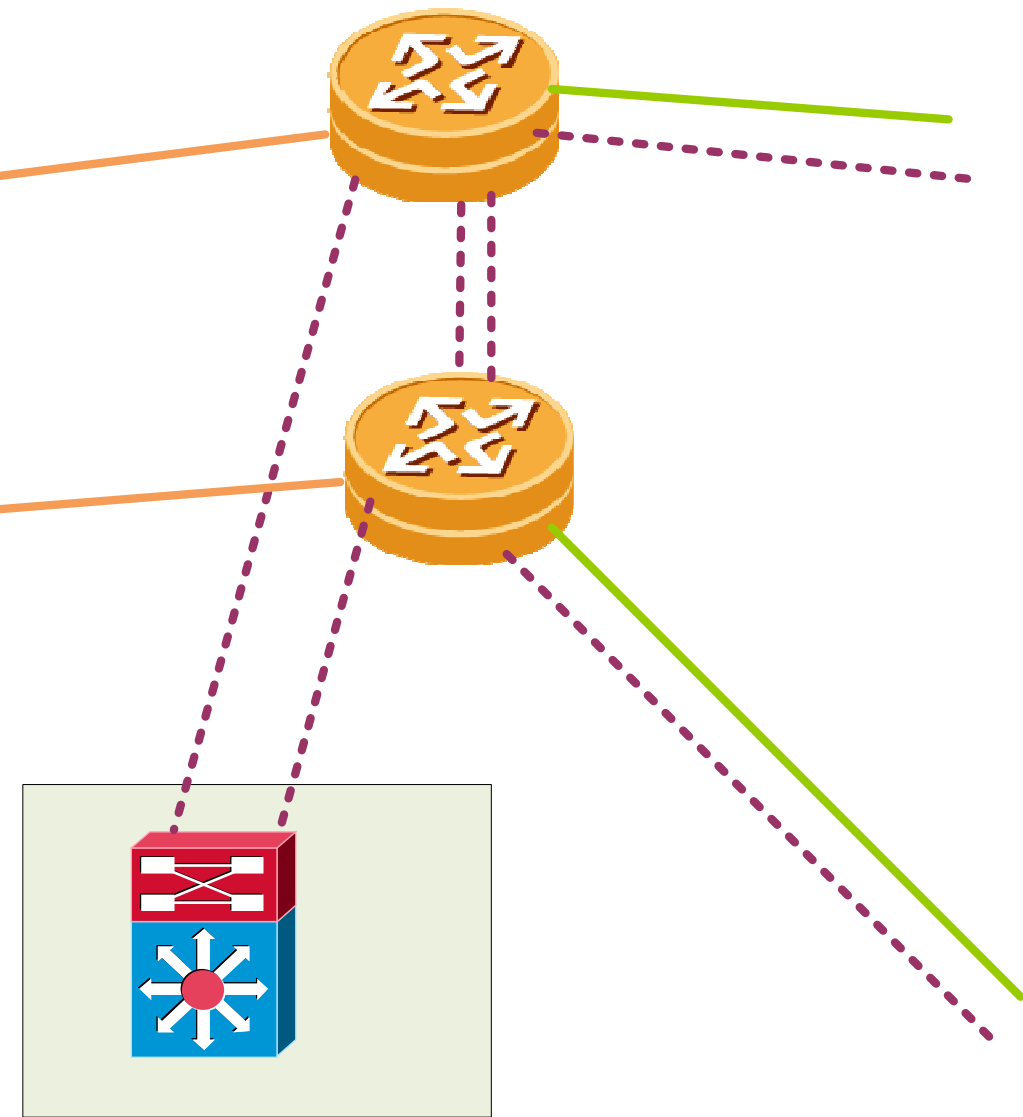
- Resource Planning,
- Ticket Management
- Billing
- SLA Statistics,
- Hardware Inventory Register
- Network Troubleshooting
- End to End Solution
- Self Provisioning Service Monitoring

B2B Retail Server



## Service Area

## Core Network



Backbone Access e.g.  
Orange, BT etc.

### Legend:

- : 1GE Optical (single mode fibre)
- : 10 GE Optical (single mode fibre)
- : 2 \* 800 Mbit/s Radio
- : X \* 100 Mbit/s Radio Connection



: Radio Repeater



: Radio Tower



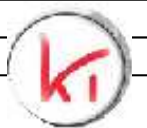
: Edge Layer2 Switch and Core Layer 3 Switch



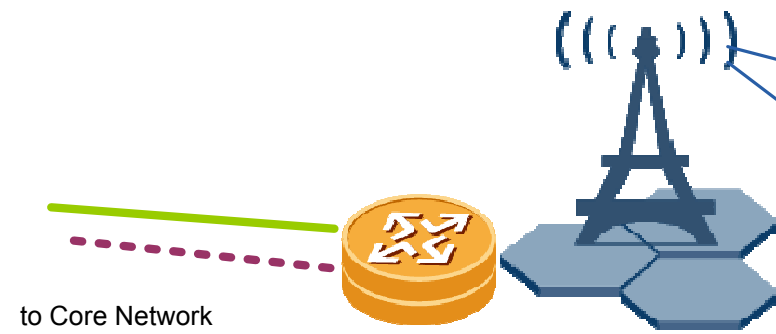
: Service Area Server



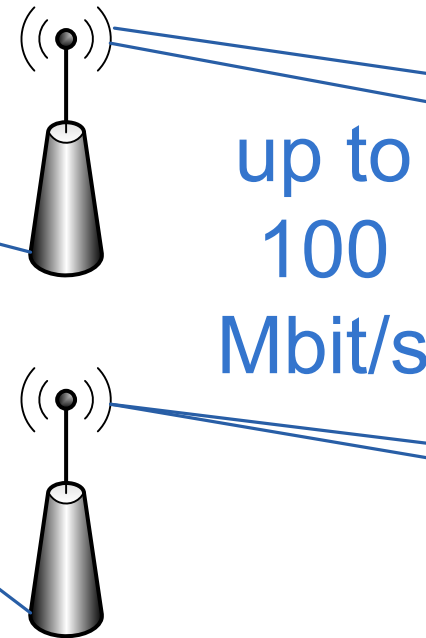
: External Core Layer3 Switch



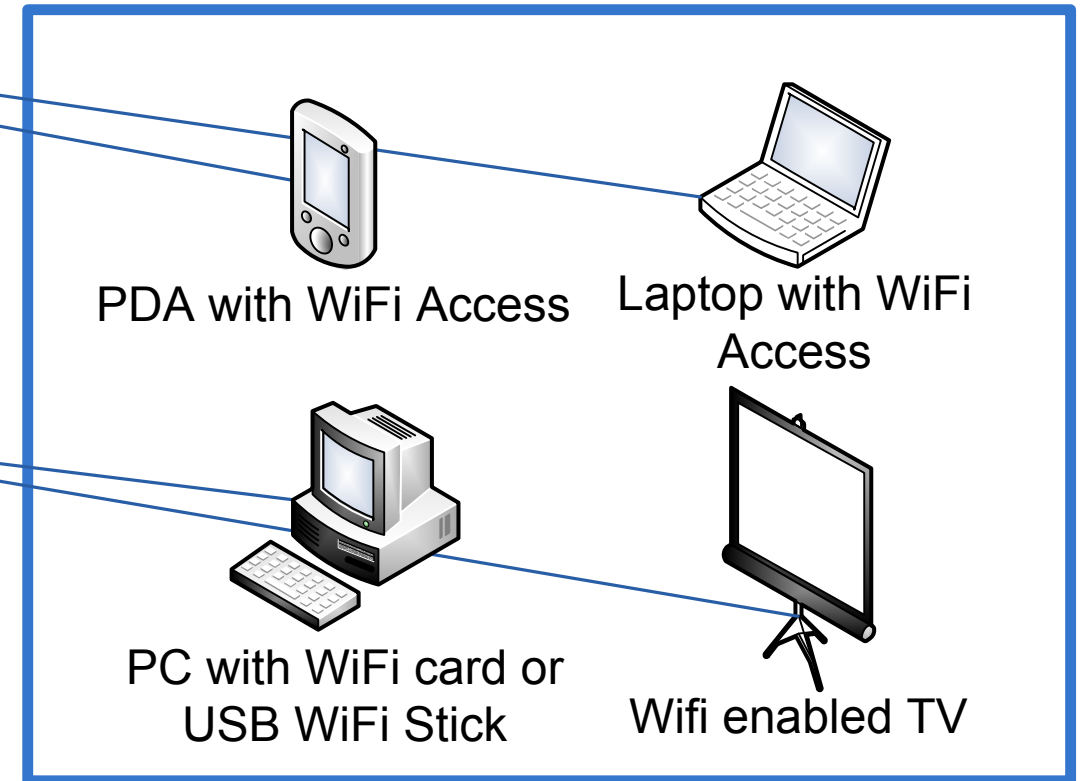
## Edge Network



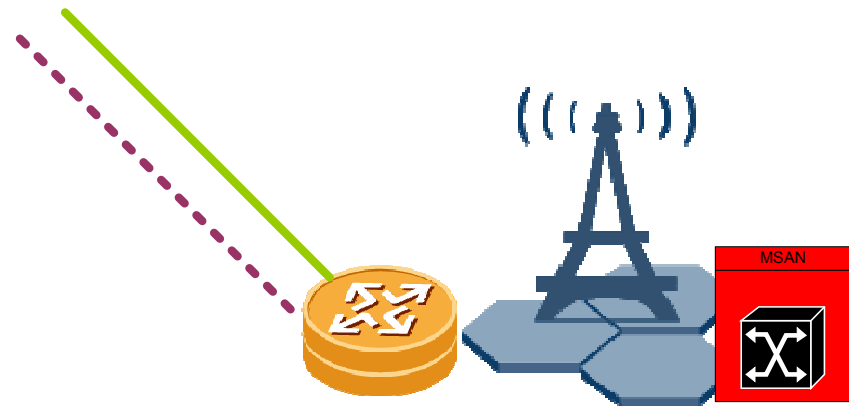
## Access Network



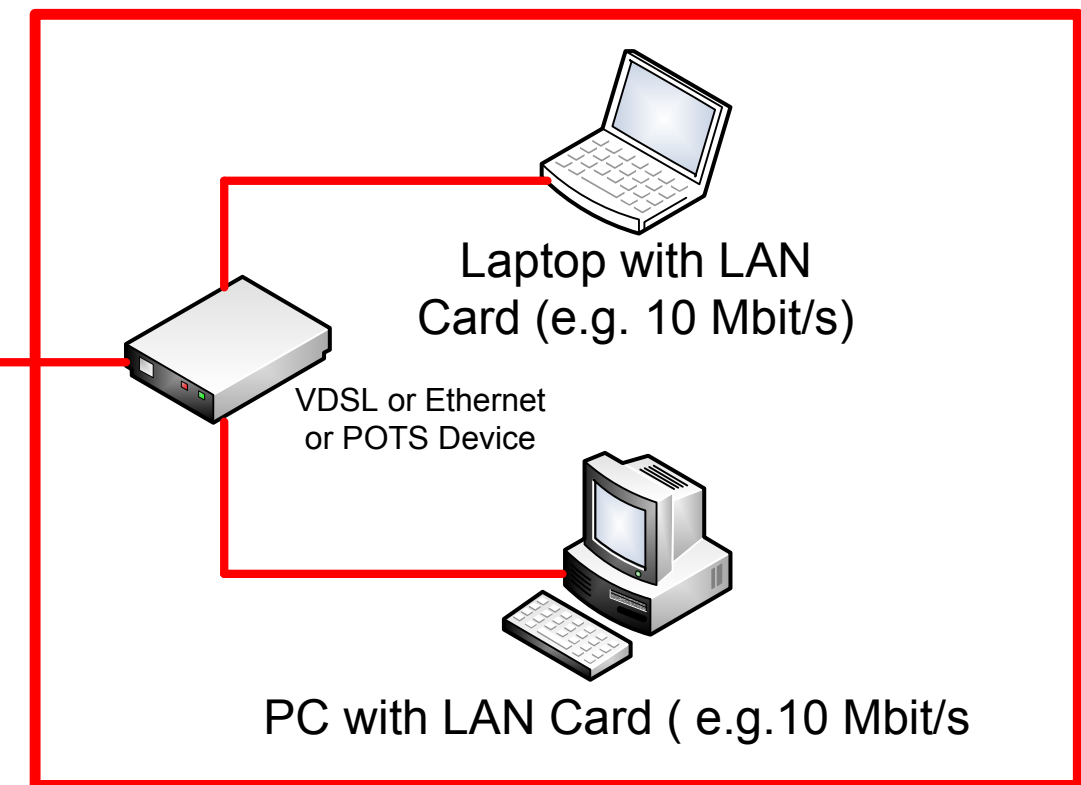
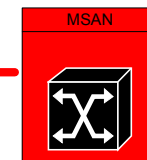
## Home Office Usage



to Core Network



from 100 Mbit/s to  
1 Gbit/s and higher



### Legend:

- : 1GE Optical (single mode fibre)
- : 10 GE Optical (single mode fibre)
- : 2 \* 800 Mbit/s Radio
- : X \* 100 Mbit/s Radio Connection



: Radio Repeater



: Radio Tower



: Edge Layer2 Switch and Core Layer 3 Switch

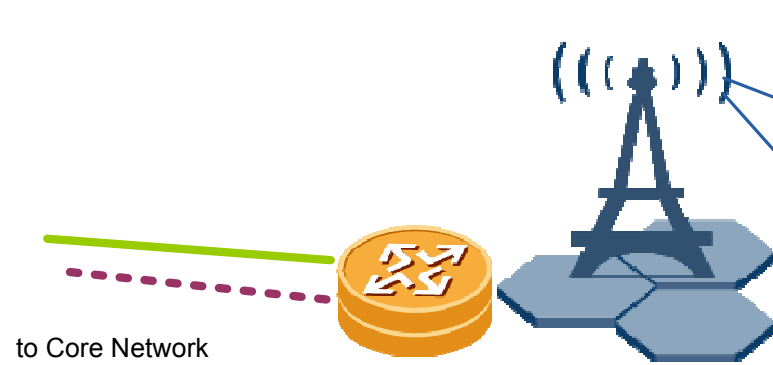


: Service Area Server



: MSAN – Multi Service Access Node

## Edge Network

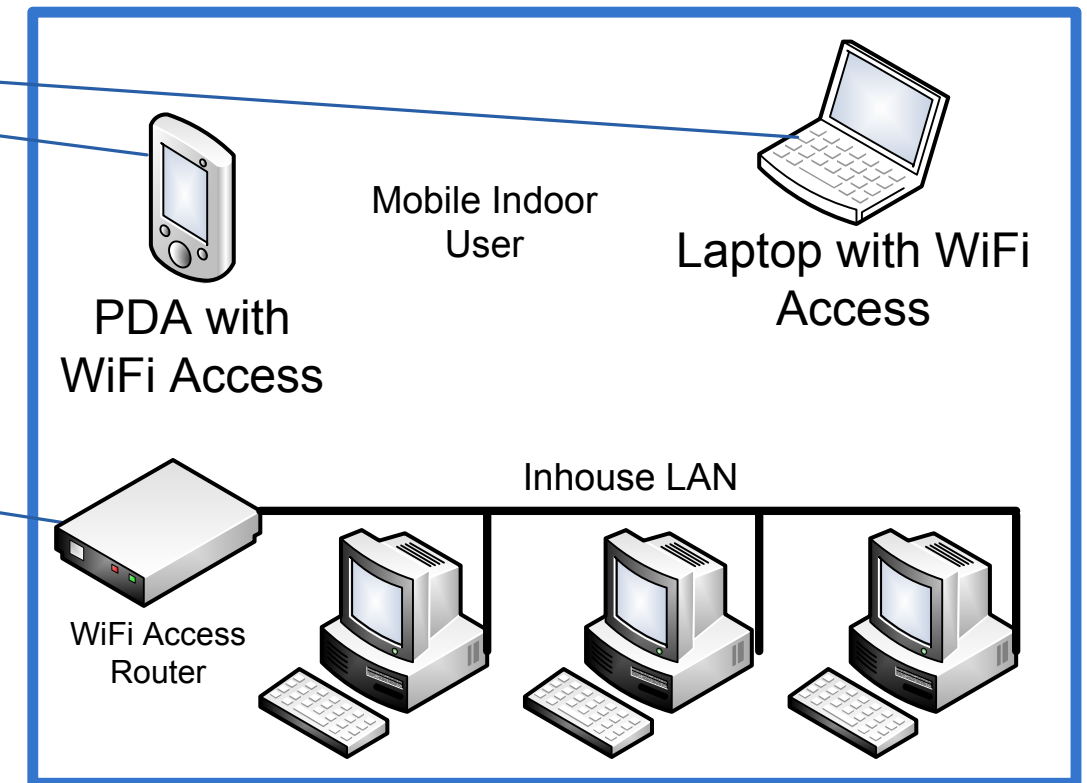


## Dedicated Access Connection

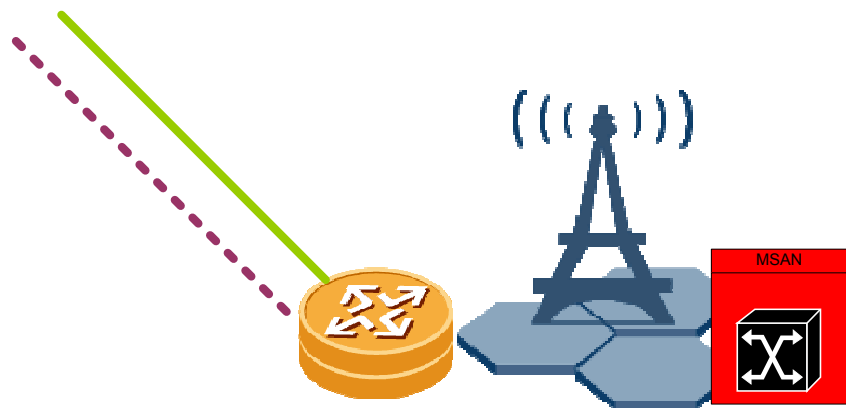


up to 50  
Mbit/s  
symmetrical

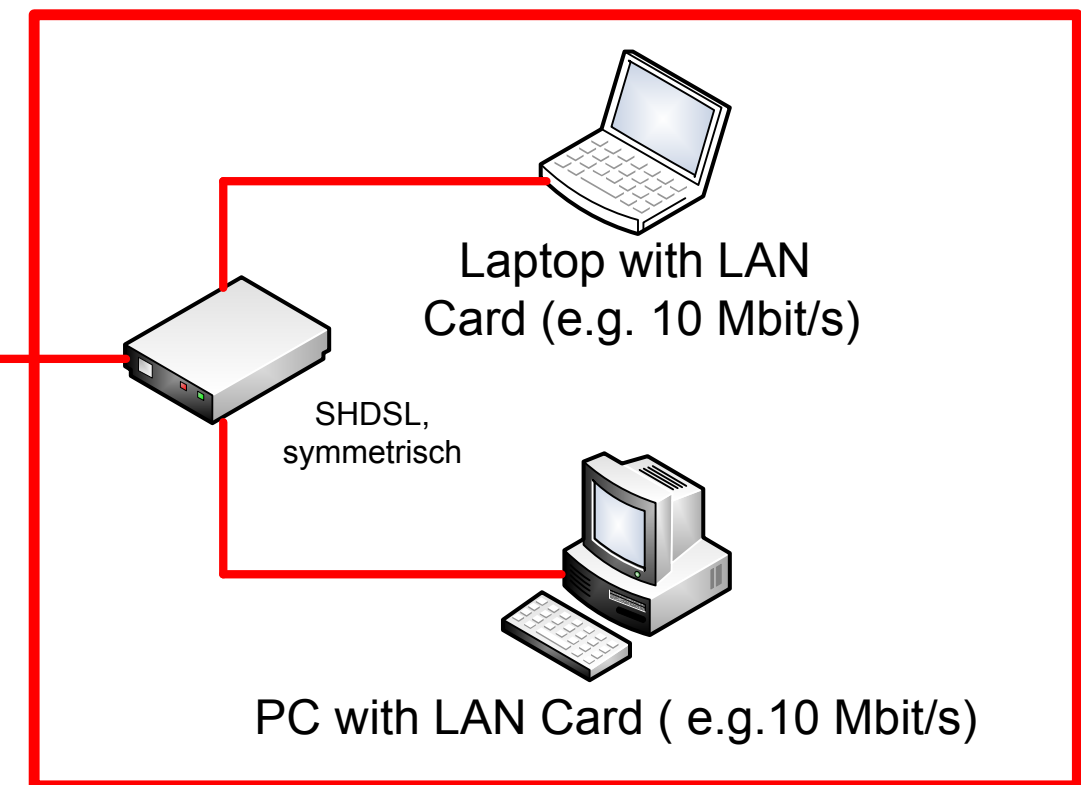
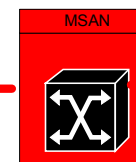
## Enterprise Usage








to Core Network



from 100 Mbit/s to  
1 Gbit/s and higher  
symmetrical  
Access via MSAN



### Legend:

-  : 1GE Optical (single mode fibre)
-  : 10 GE Optical (single mode fibre)
-  : 2 \* 800 Mbit/s Radio
-  : X \* 100 Mbit/s Radio Connection
-  : Radio Repeater



: Radio Tower



: Edge Layer2 Switch and Core Layer 3 Switch



: Service Area Server



: MSAN – Multi Service Access Node

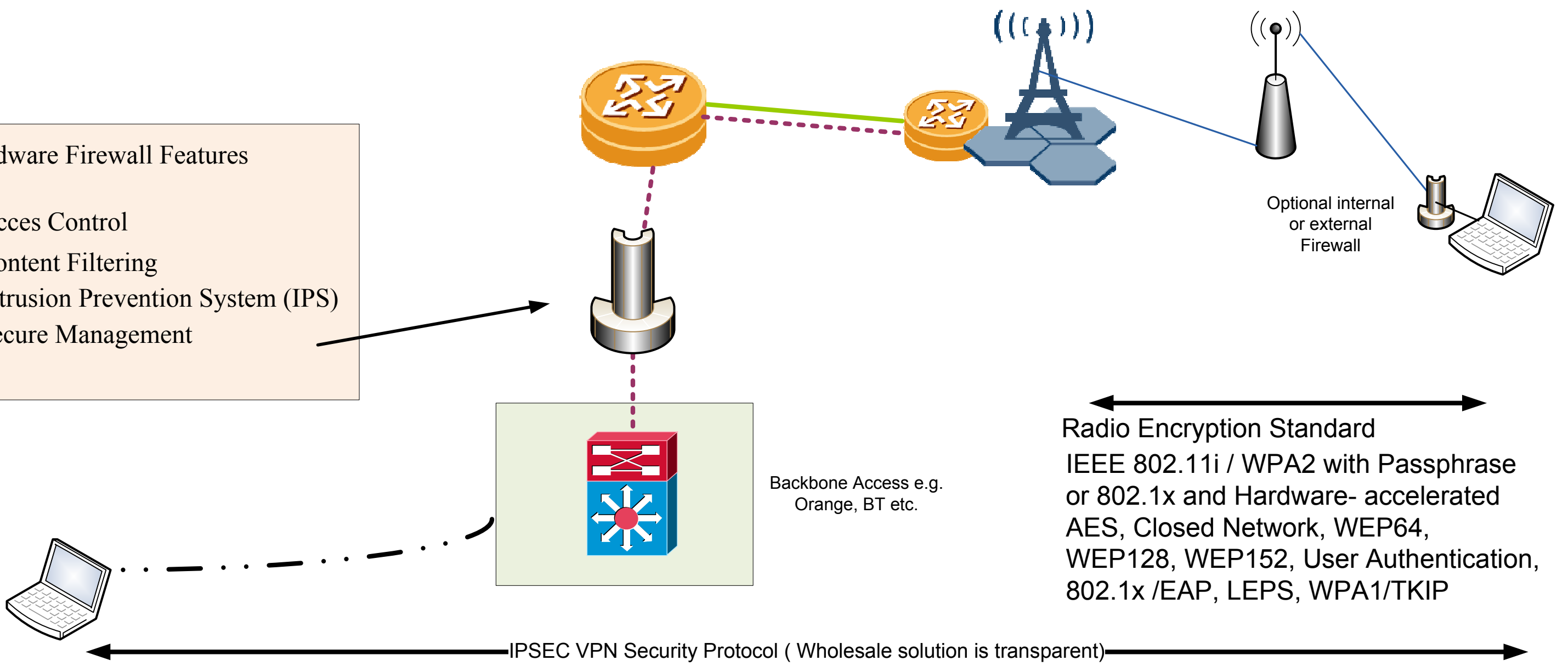
# Hardware Firewall

# Core Network

# Edge Network

# Access Network

- Hardware Firewall Features**
- Acces Control
  - Content Filtering
  - Intrusion Prevention System (IPS)
  - Secure Management



**Legend:**

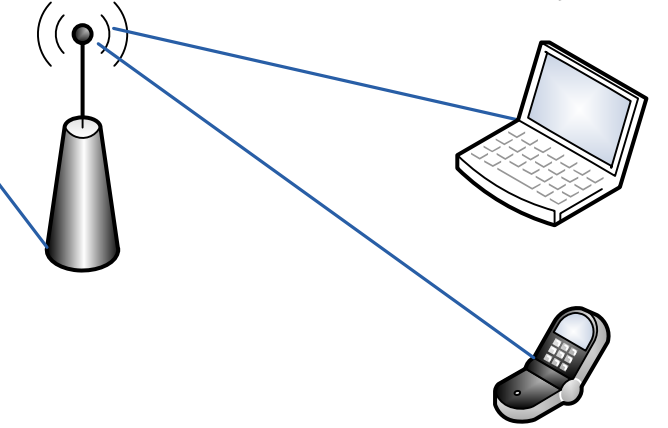
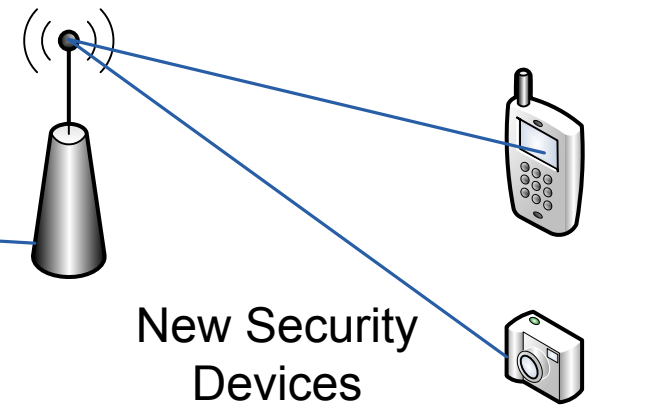
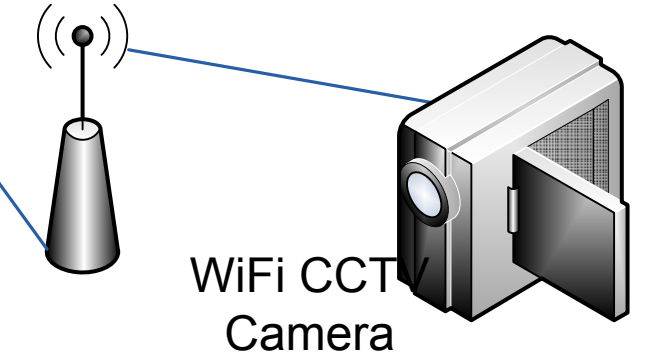
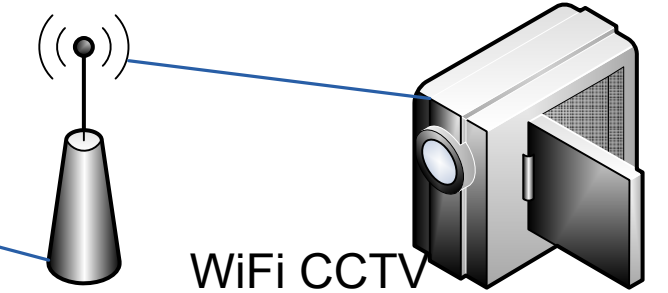
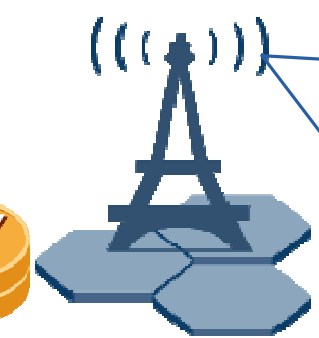
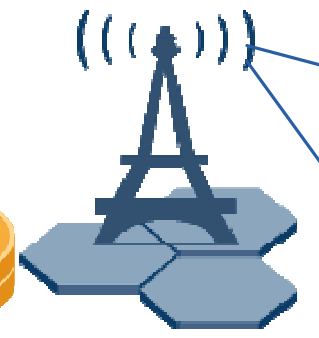
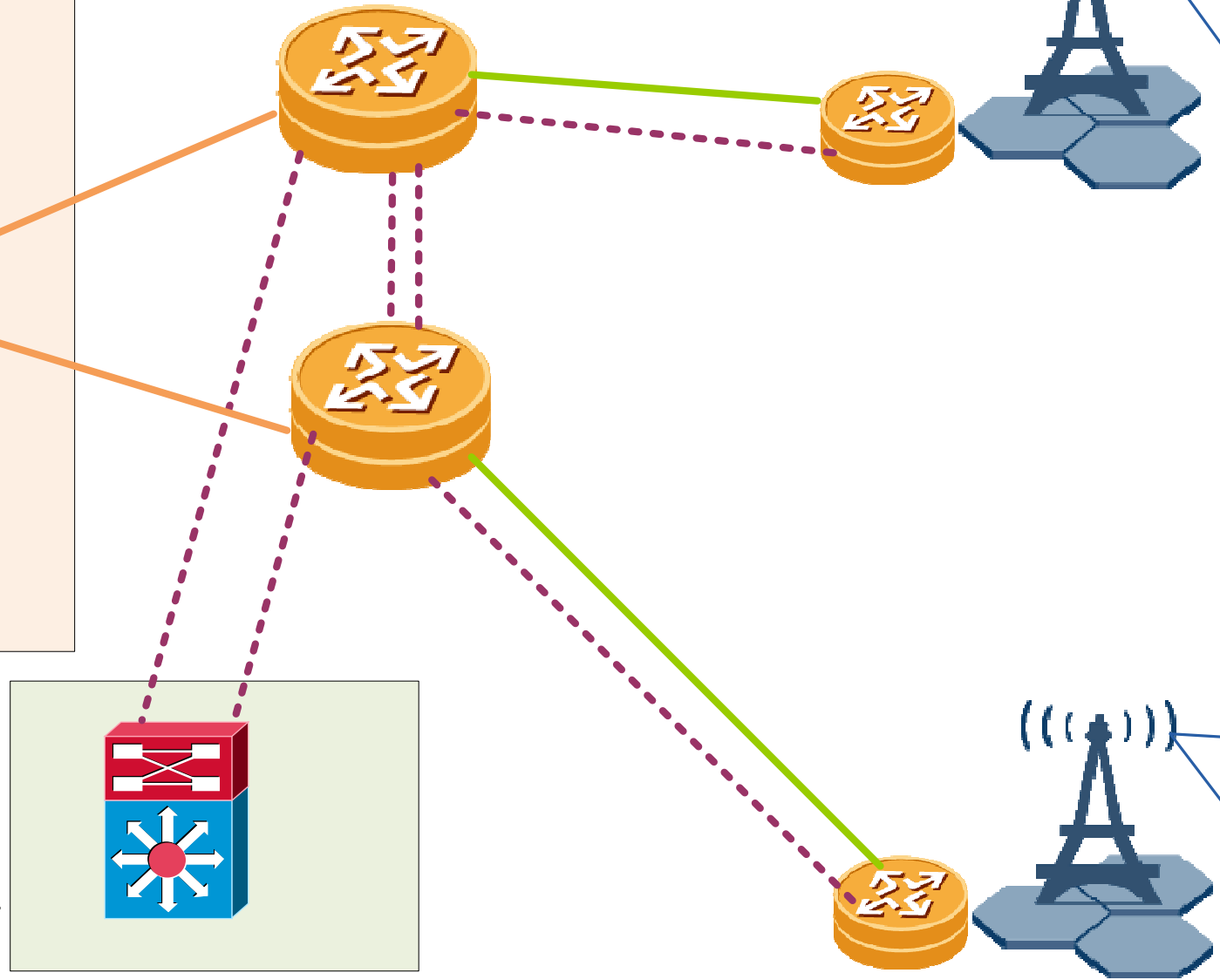
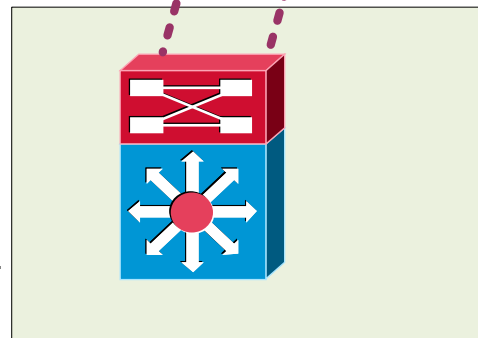
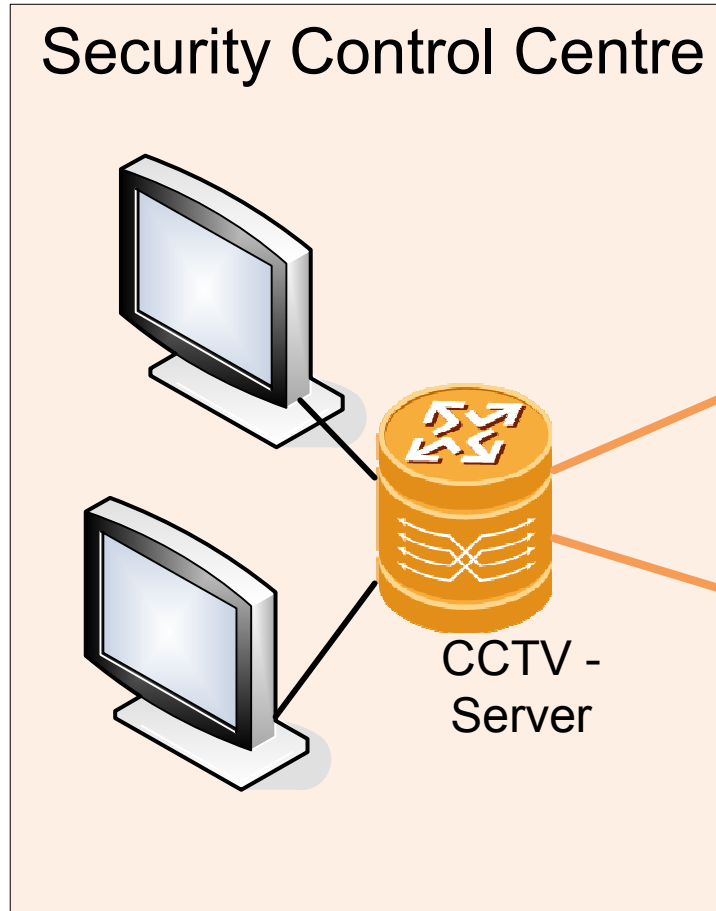
- Orange line: 1GE Optical (single mode fibre)
- Purple line: 10 GE Optical (single mode fibre)
- Green line: 2 \* 800 Mbit/s Radio
- Blue line: X \* 100 Mbit/s Radio Connection
- Radio tower icon: Radio Tower
- Switch icon: Edge Layer2 Switch and Core Layer 3 Switch
- Server icon: Service Area Server
- Switch icon: External Core Layer3 Switch
- Radio repeater icon: Radio Repeater

## Service Area

## Core Network

## Edge Network

## Access Network



**Legend:**

- : 1GE Optical (single mode fibre)
- : 10 GE Optical (single mode fibre)
- : 2 \* 800 Mbit/s Radio
- : X \* 100 Mbit/s Radio Connection



: Radio Repeater



: Radio Tower



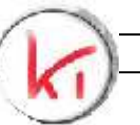
: Edge Layer2 Switch and Core Layer 3 Switch



: Service Area Server



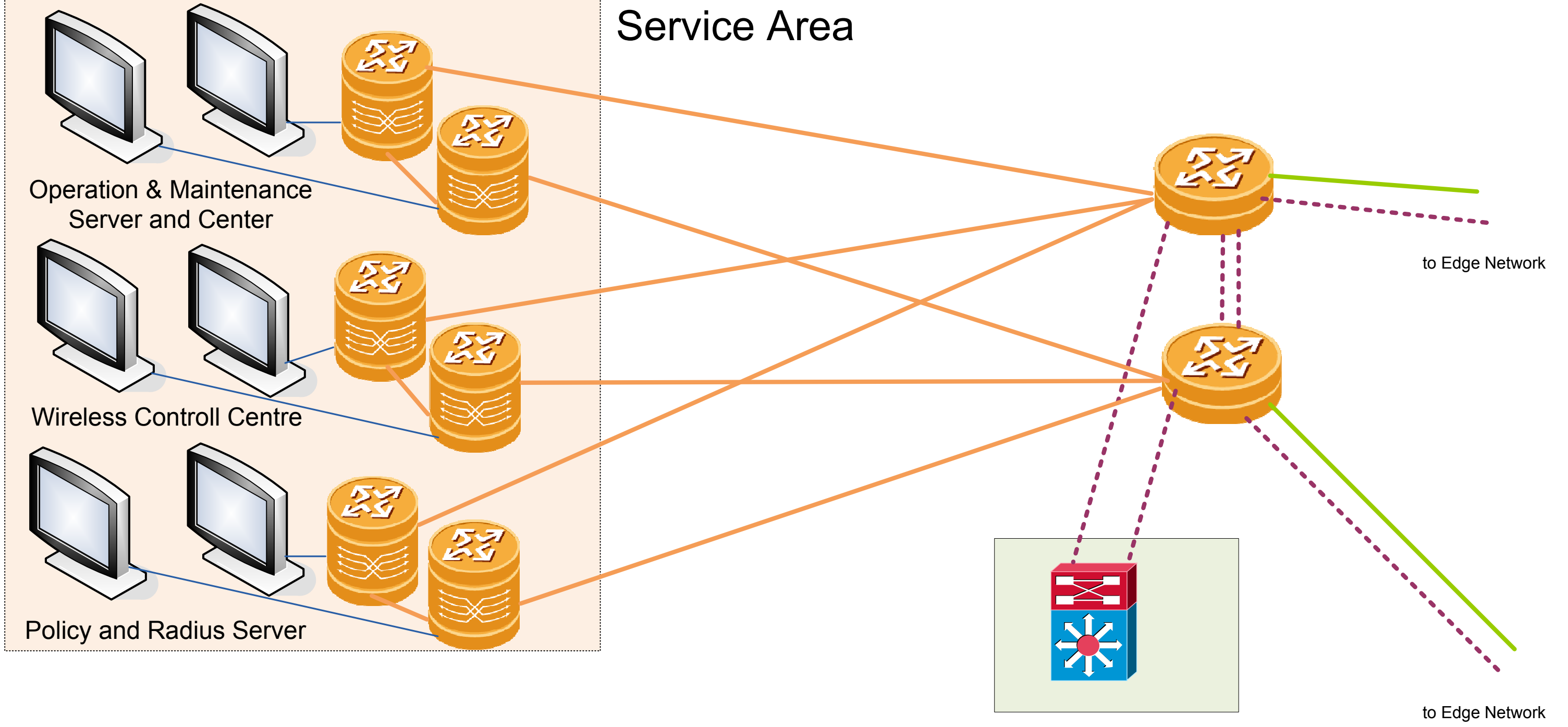
: External Core Layer3 Switch








### Network Operation and Control Centre





### Service Area

### Core Network



**Legend:**

-  : 1GE Optical (single mode fibre)
-  : 10 GE Optical (single mode fibre)
-  : 2 \* 800 Mbit/s Radio
-  : Monitor Connection
-  : Radio Repeater

-  : Radio Tower
-  : Edge Layer2 Switch and Core Layer 3 Switch
-  : Service Area Server
-  : External Core Layer3 Switch

Backbone Access e.g.  
Orange, BT etc.

