How Turk Telekom uses ONF projects
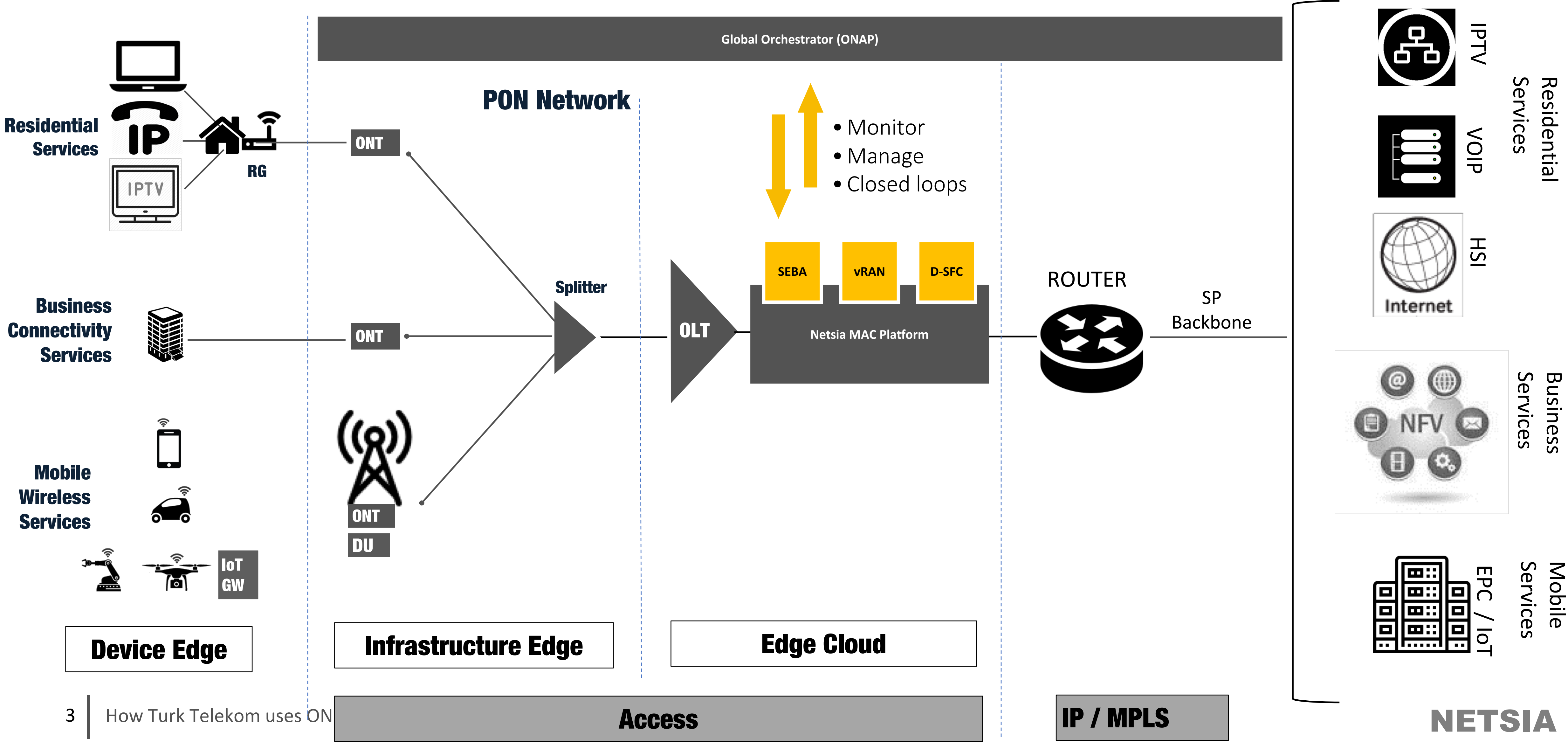
April 2019

Turk Telekom Transformation Journey - A multi-step approach

1 > **2** > **3** > **4** > **5**

Analyze
Current Network and Services

Identify
Best Services and Networks for Virtualization

Prepare
Telco grade NFVI

Build
a distributed DC architecture

Manage
with a centralized orchestrator

Türk Telekom   ARGELA   NETSIA

Turk Telekom's Transformation Big Picture

Global Orchestrator (ONAP)

PON Network

Residential Services

IP
IPTV
RG
ONT

Business Connectivity Services

ONT

Mobile Wireless Services

IoT GW

ONT
DU

Splitter

- Monitor
- Manage
- Closed loops

SEBA   vRAN   D-SFC

Netsia MAC Platform

OLT

ROUTER

SP Backbone

IPTV

VOIP

HSI

Internet

NFV

Business Services

Residential Services

Mobile Services

EPC / IoT

Device Edge

Infrastructure Edge

Edge Cloud

Access

IP / MPLS

NETSIA

Overall Roadmap

Harden SEBA → Add features → Integrate w/ ONAP → Integrate w/ OSS → Integrate vRAN → Field Trial → Go Live!

- ▶ Most important selection criteria was to create minimum impact on existing service usage
- ▶ Use cases identified as GiLAN and SEBA for first use
- ▶ vRAN and 5G will follow

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Netsia MAC Telco Edge

Multi Access & Multi Service

Joint Profile Slicing

Global Orchestration Integrated

Based on open source and white boxes
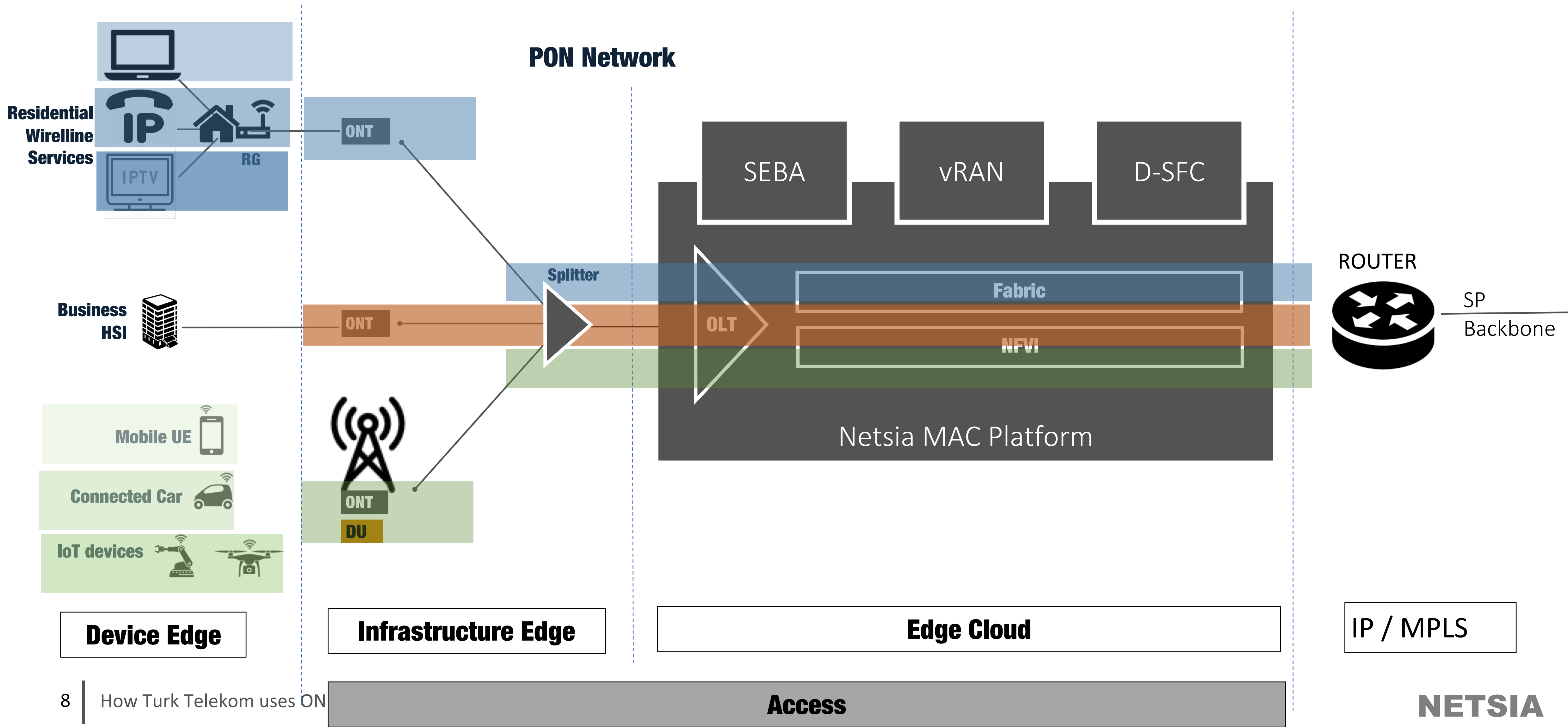
(ONF COMAC)

NETSIA

Netsia MAC is Multi Network

Fixed Network

Wifi Network

Mobile Network

Netsia MAC

IoT Network
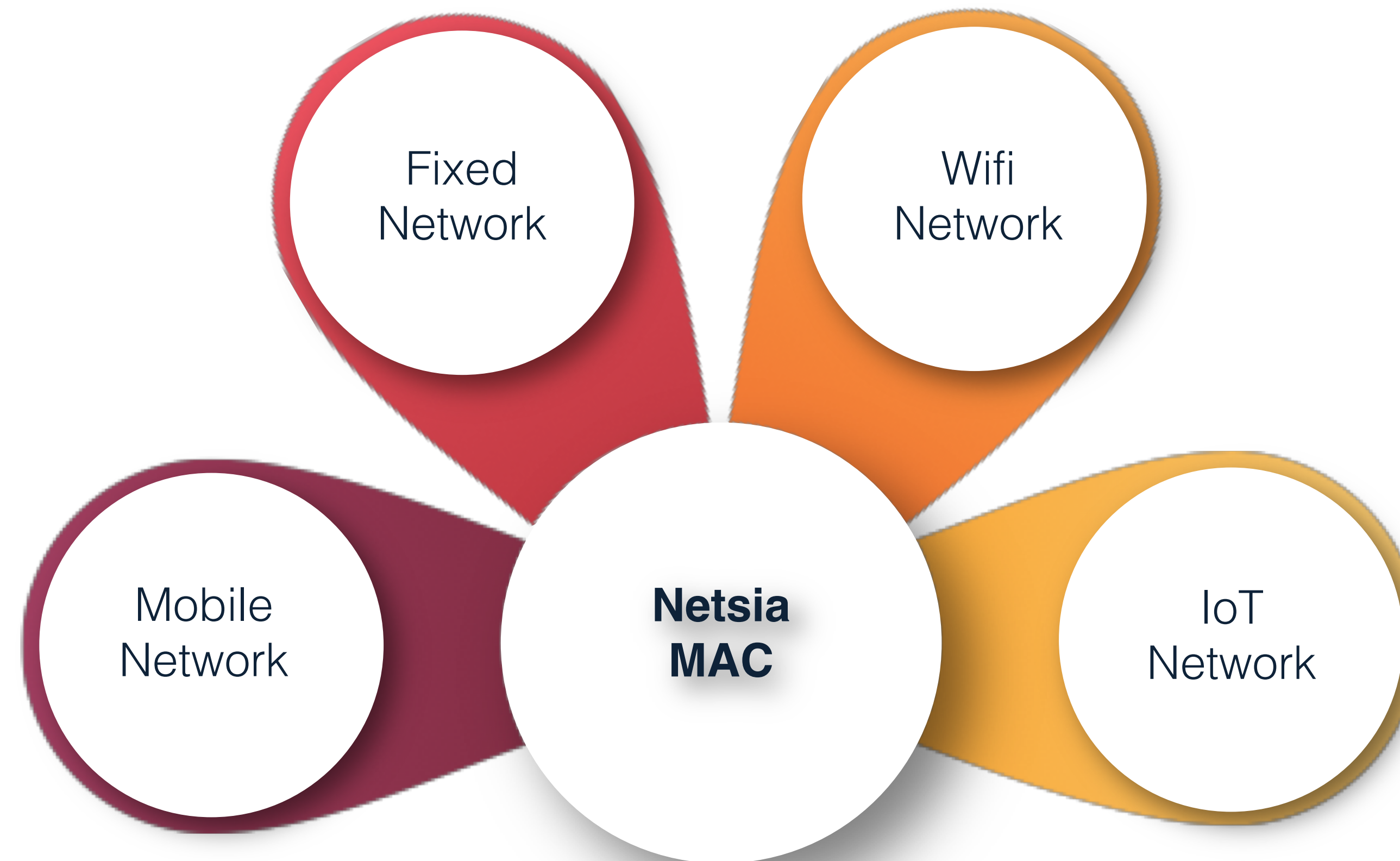
NETSIA

Netsia MAC is Multi Service

NETSIA
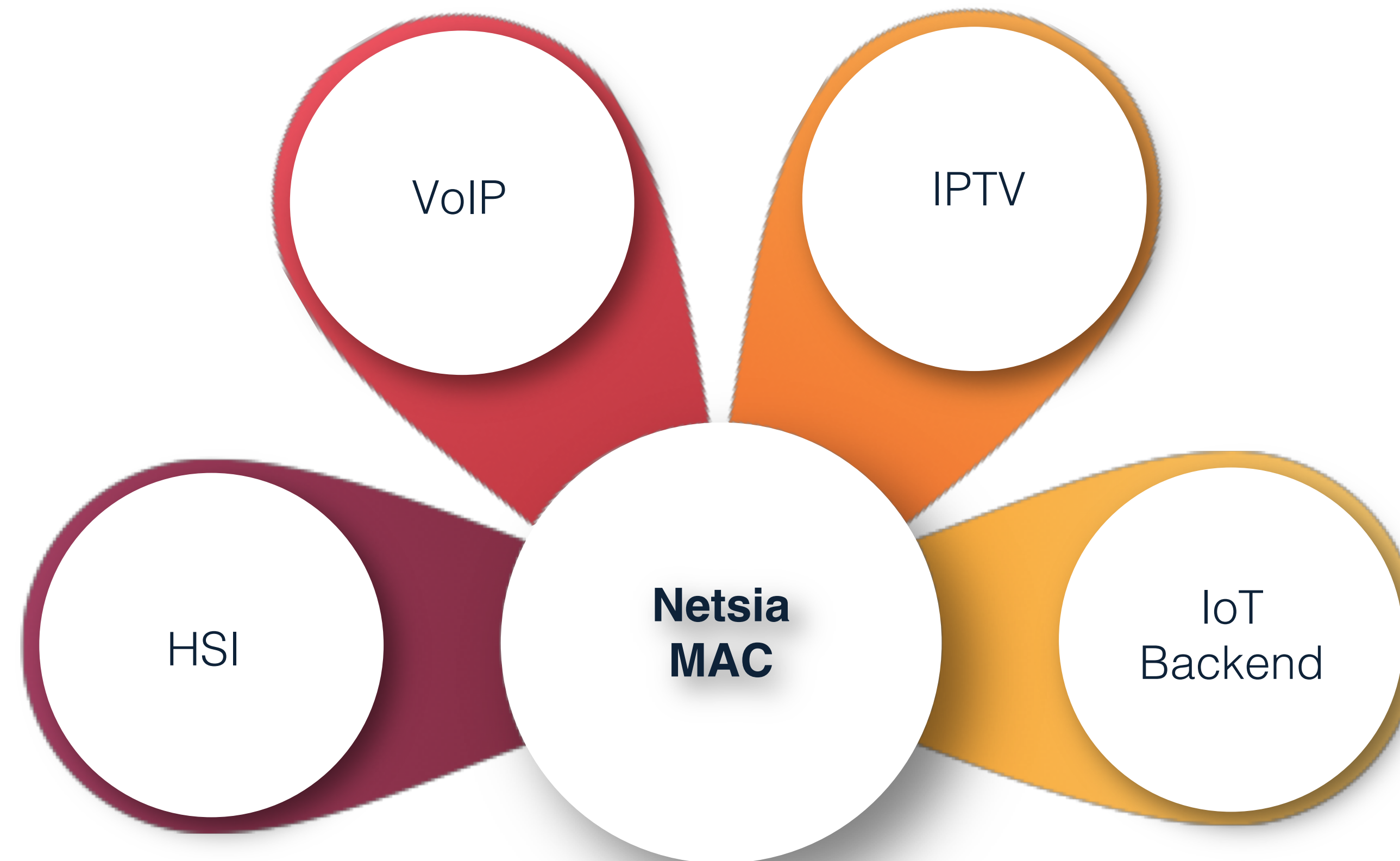
Our differentiation: Joint-Profile based Slicing (Patent Pending)

PON Network

Residential Wireline Services

IPTV

RG

ONT

Business HSI

ONT

Mobile UE

Connected Car

IoT devices

ONT

DU

Splitter

OLT

SEBA

vRAN

D-SFC

Fabric

NFVI

Netsia MAC Platform

ROUTER

SP Backbone

Device Edge

Infrastructure Edge

Edge Cloud

IP / MPLS

Access

How Turk Telekom uses ON

NETSIA

THANK YOU

Türk Telekom

ARGELA

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