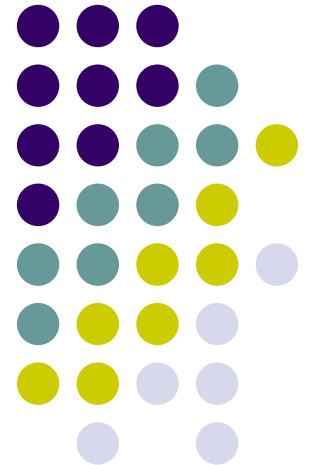


# Road To Revenue

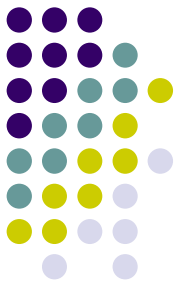
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**Junaid Islam**

Applications Director  
NAv6TF / IPv6 Forum

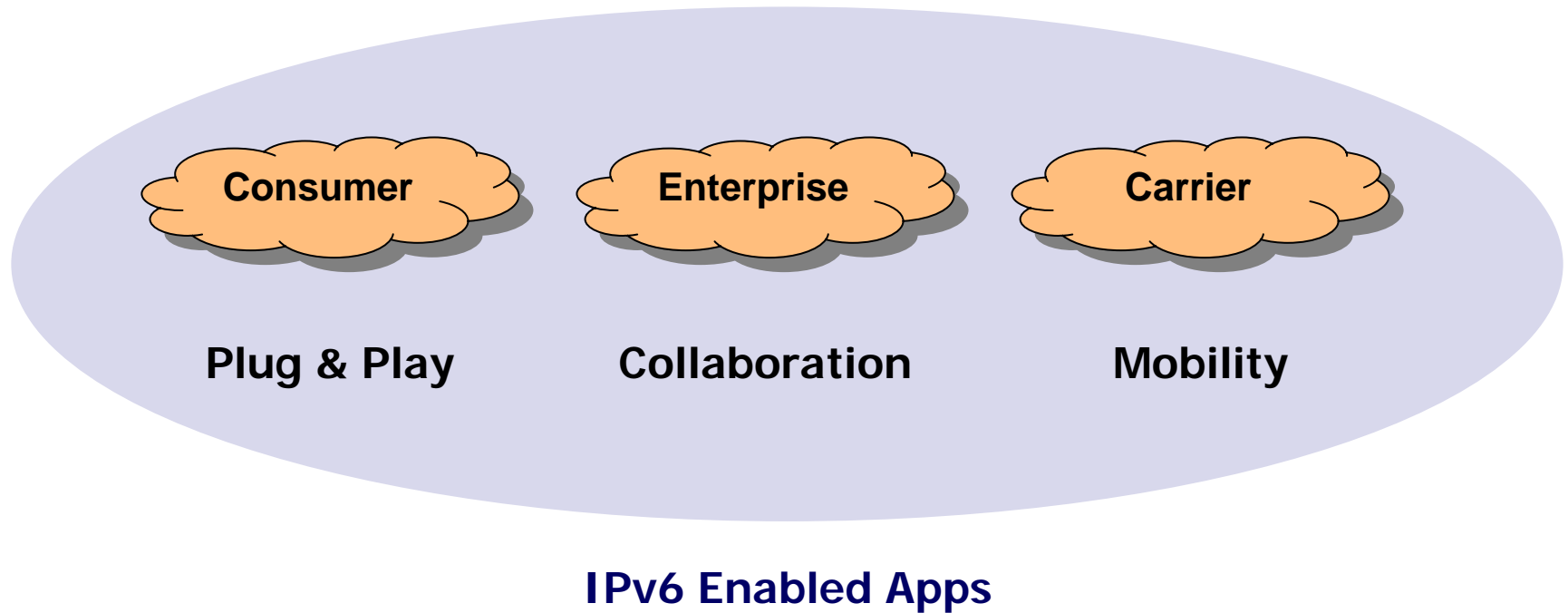


# Agenda

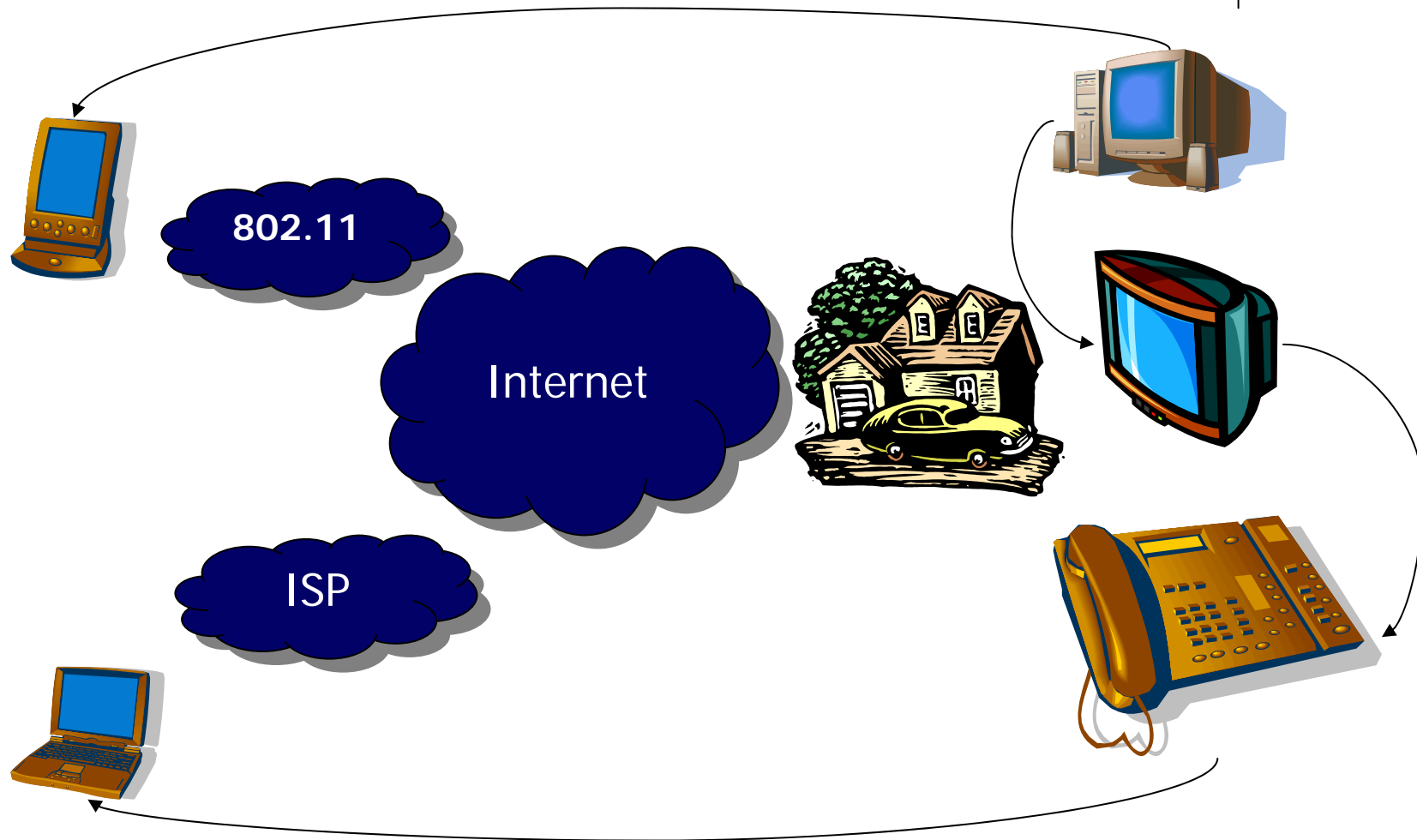
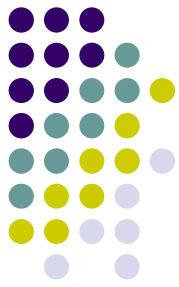


- Why is v6 important
- WiFi Case Study
- A look Forward

# The 100,000 Foot View



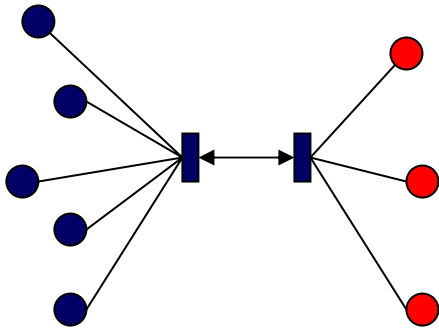
# Consumer interest...ad hoc appliance connectivity



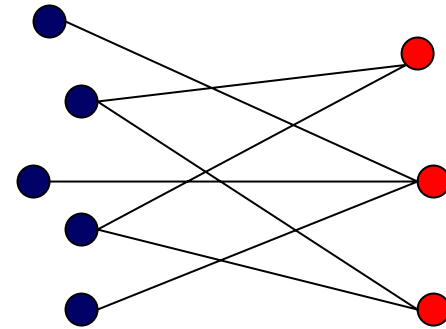
# Computing interest...secure collaboration



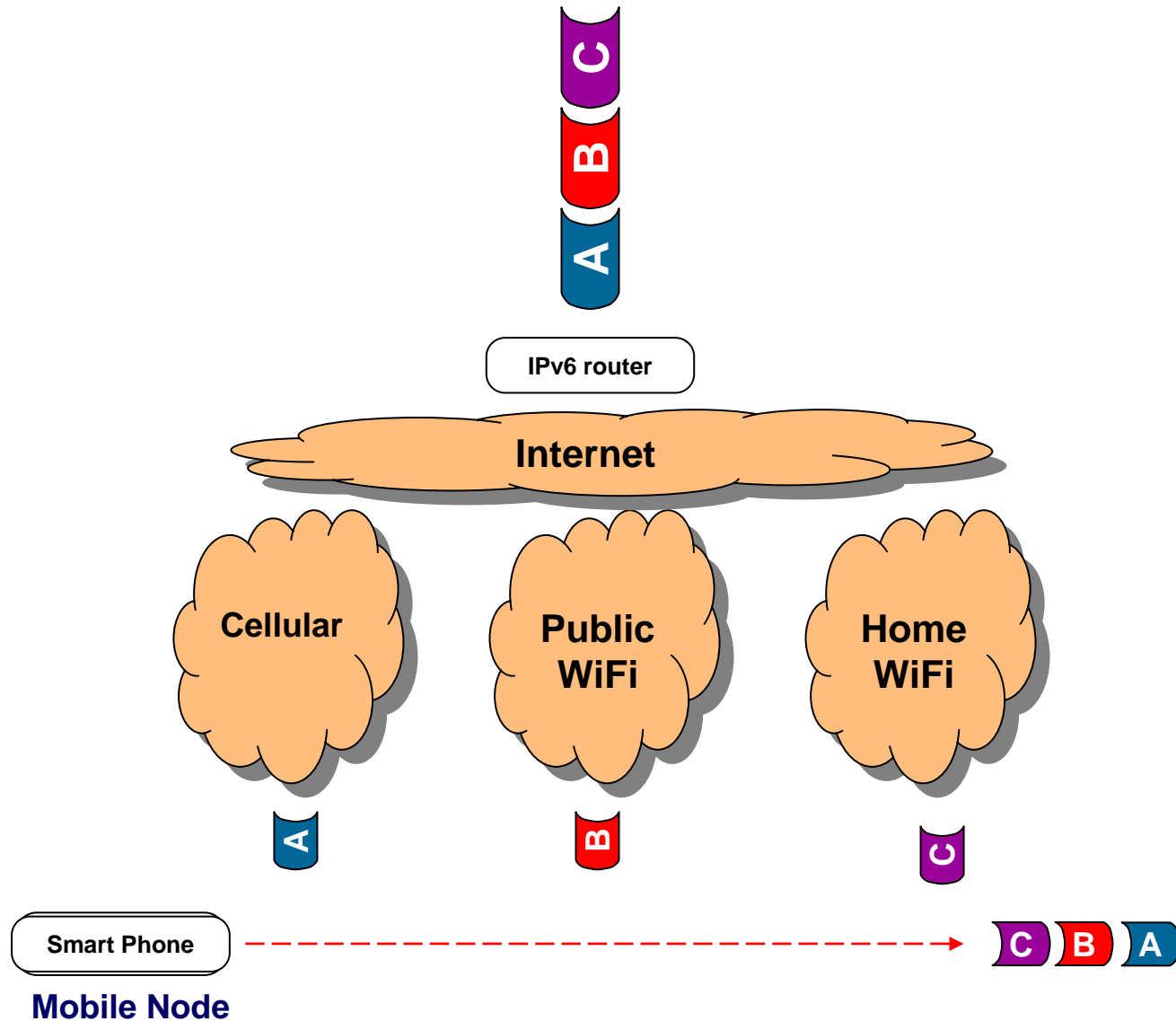
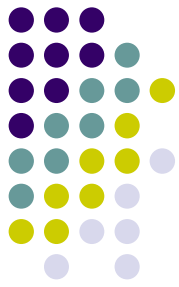
IPv4



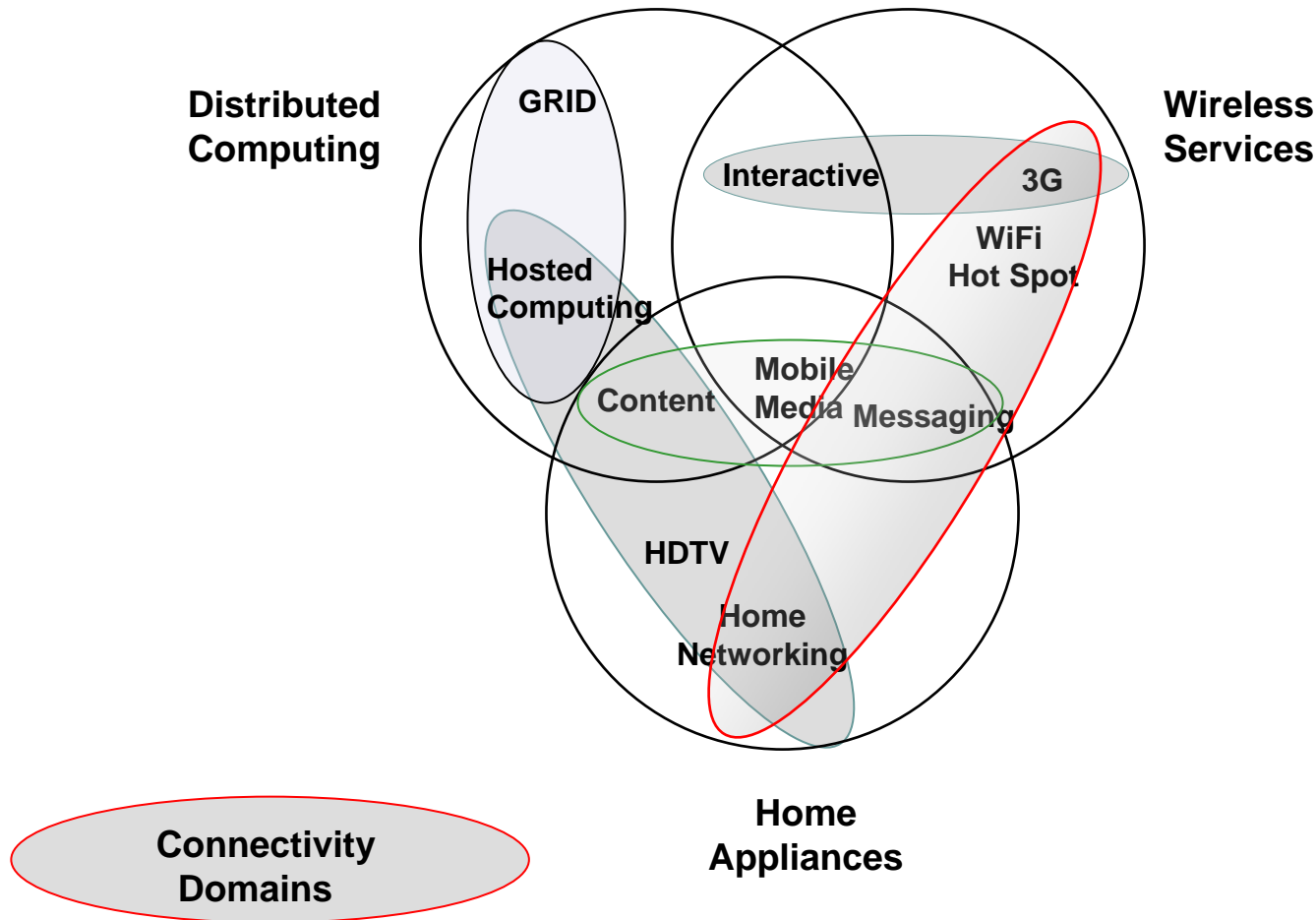
IPv6



# Carrier Interest...mobility



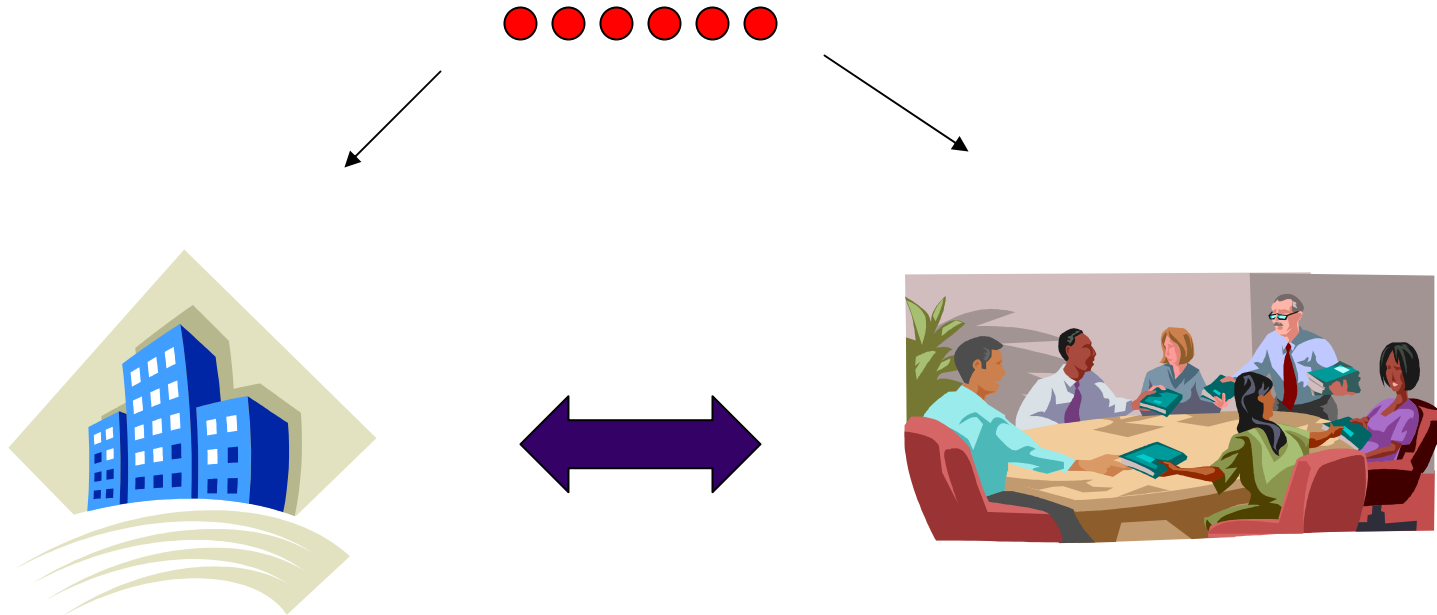
# Home Connectivity = Global Connectivity





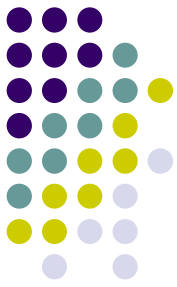
**Isn't everything that v6 does feasible in v4?**

**Yes – but v6 enables dramatically improves functionality while lowering cost & complexity!**



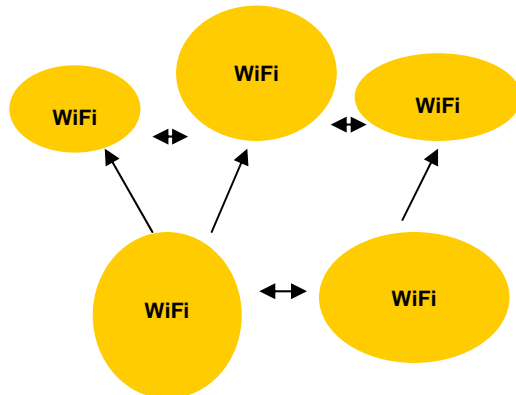
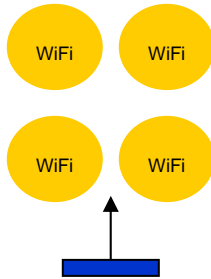


# Agenda



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# Home WiFi Connectivity



yesterday

**1**

1<sup>st</sup> generation AP were stand alone devices

today

**2**

2<sup>nd</sup> generation AP introduce a common controller for security & routing

tomorrow

**3**

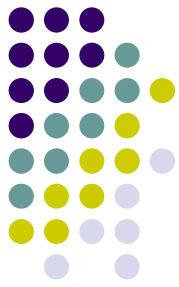
3<sup>rd</sup> generation AP's have network intelligence, security and mobility

# Issues for WiFi based appliances today



- Provisioning Access Points & Appliances
  - Desire for auto configuring, self healing, meshed network topology
- Appliance authentication
  - Web log-in OK for Enterprise but not for Internet Appliances
- Global mobility
  - Dropped connections bad for multimedia services

# IPv6 WiFi



Instant connectivity

- Network discovery & Auto configuration
- Smart radios & wireless backhaul

**Ad hoc** **secure** **mobility**

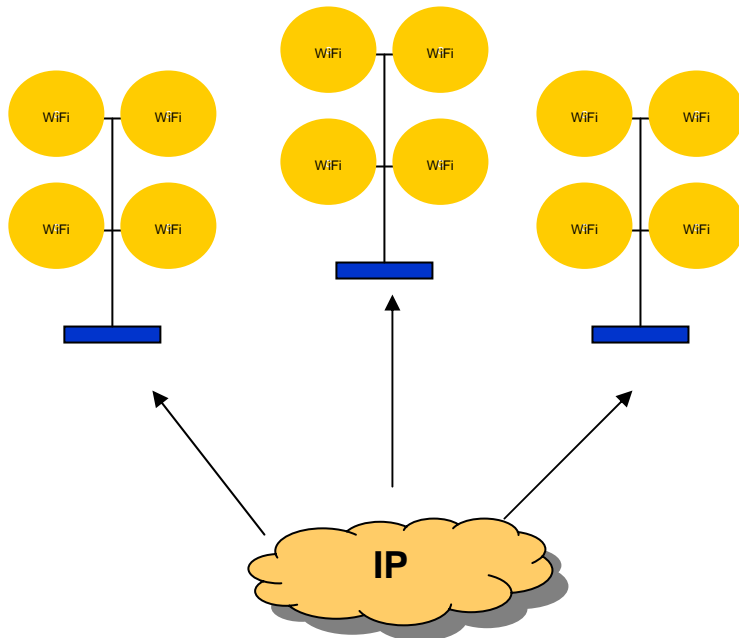
Over the air & network level security  
- 802.11i + Peer to peer connectivity

Seamless roaming from home to hot spot  
- VLAN switching + Mobile IPv6

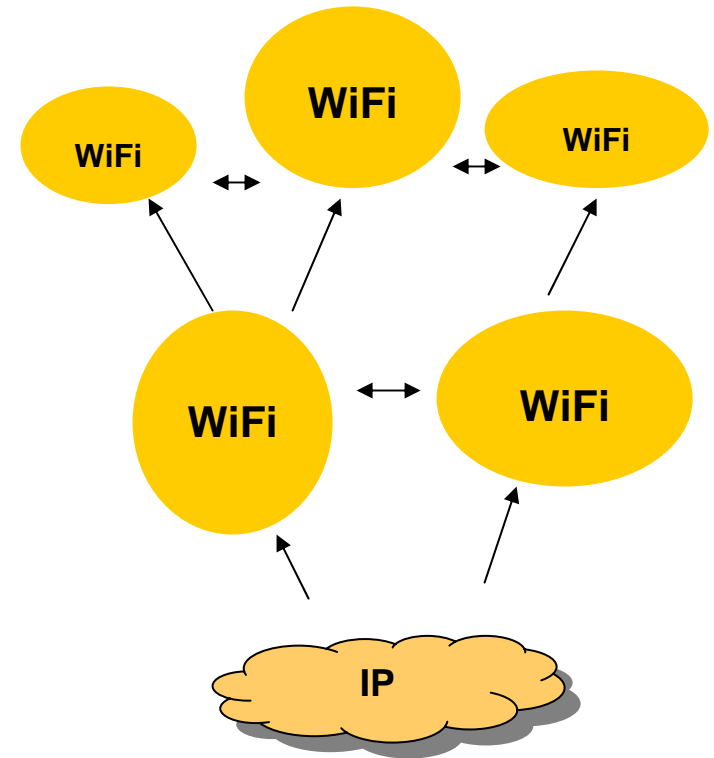
# IPv6 Access Point Provisioning



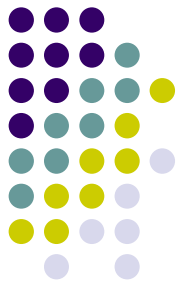
## Today



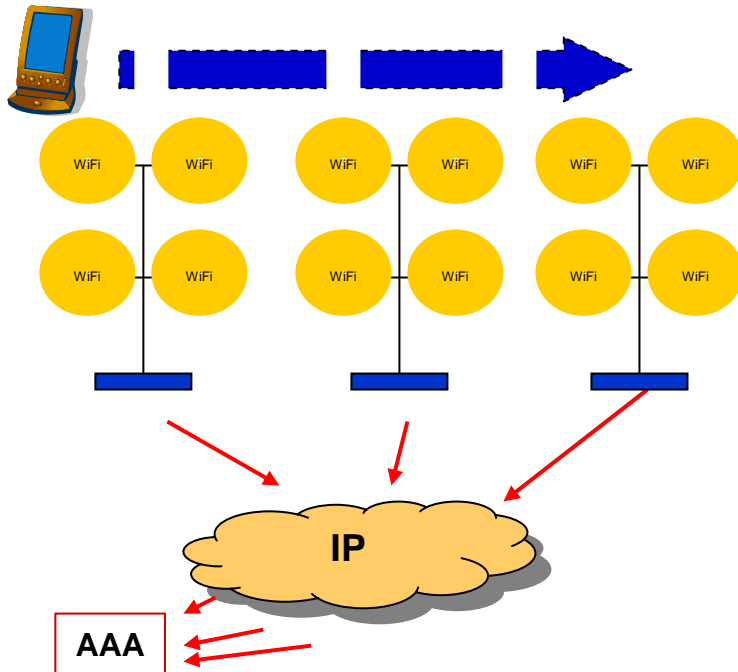
## IPv6



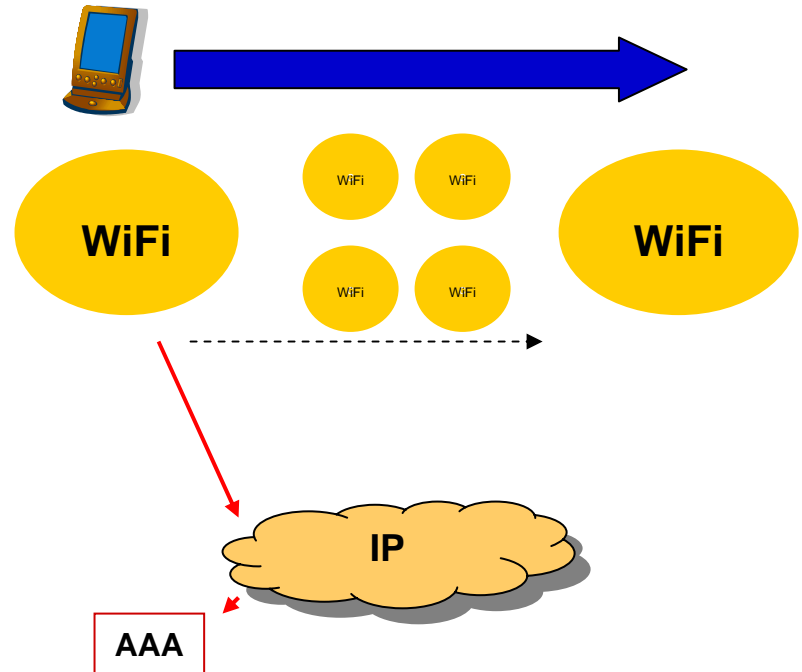
# IPv6 User Mobility



## Today



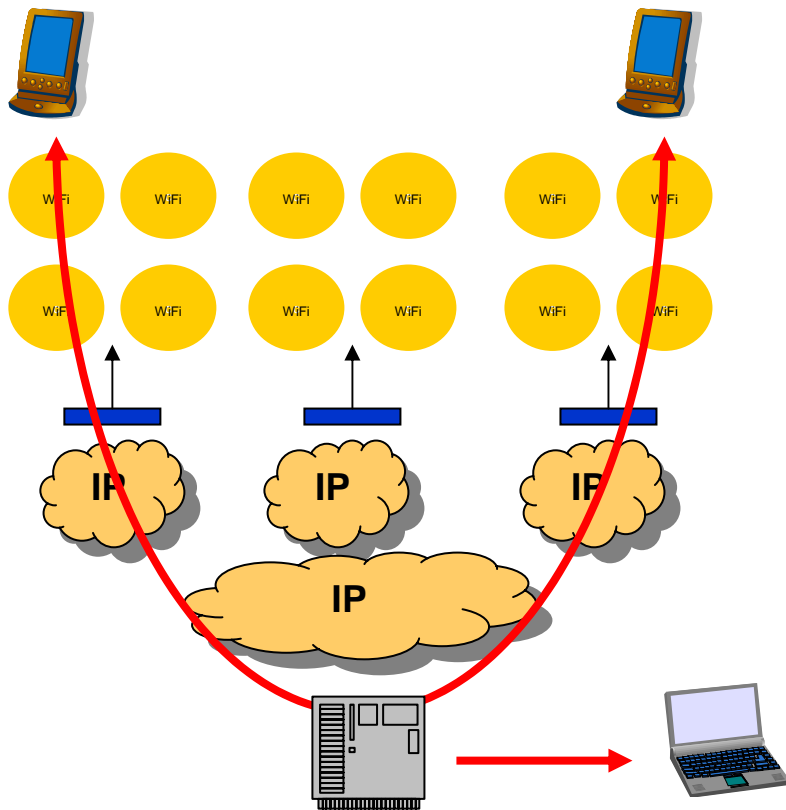
## IPv6



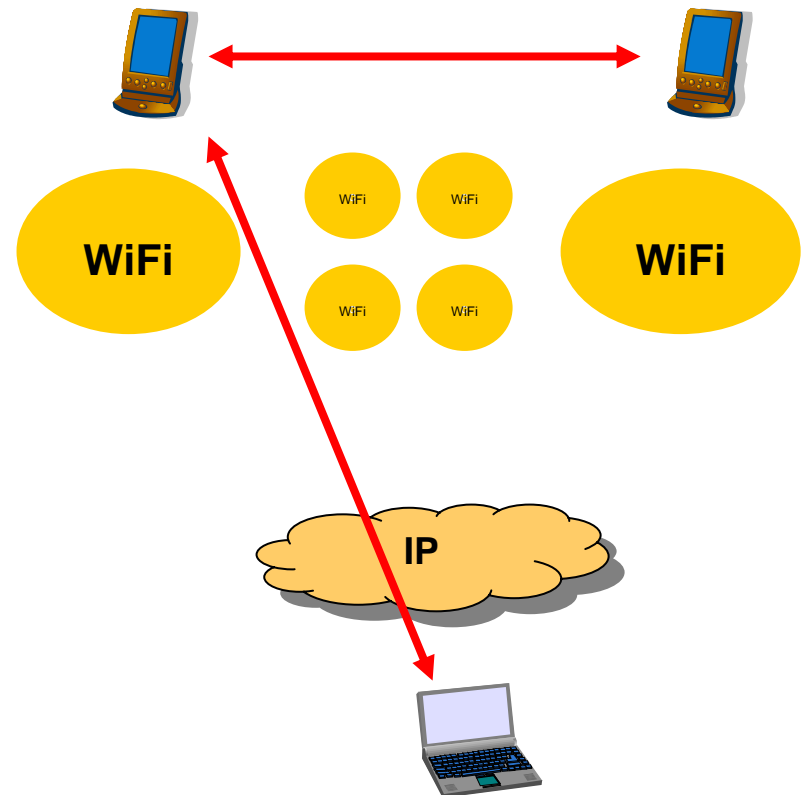
# IPv6 Peer to peer connectivity



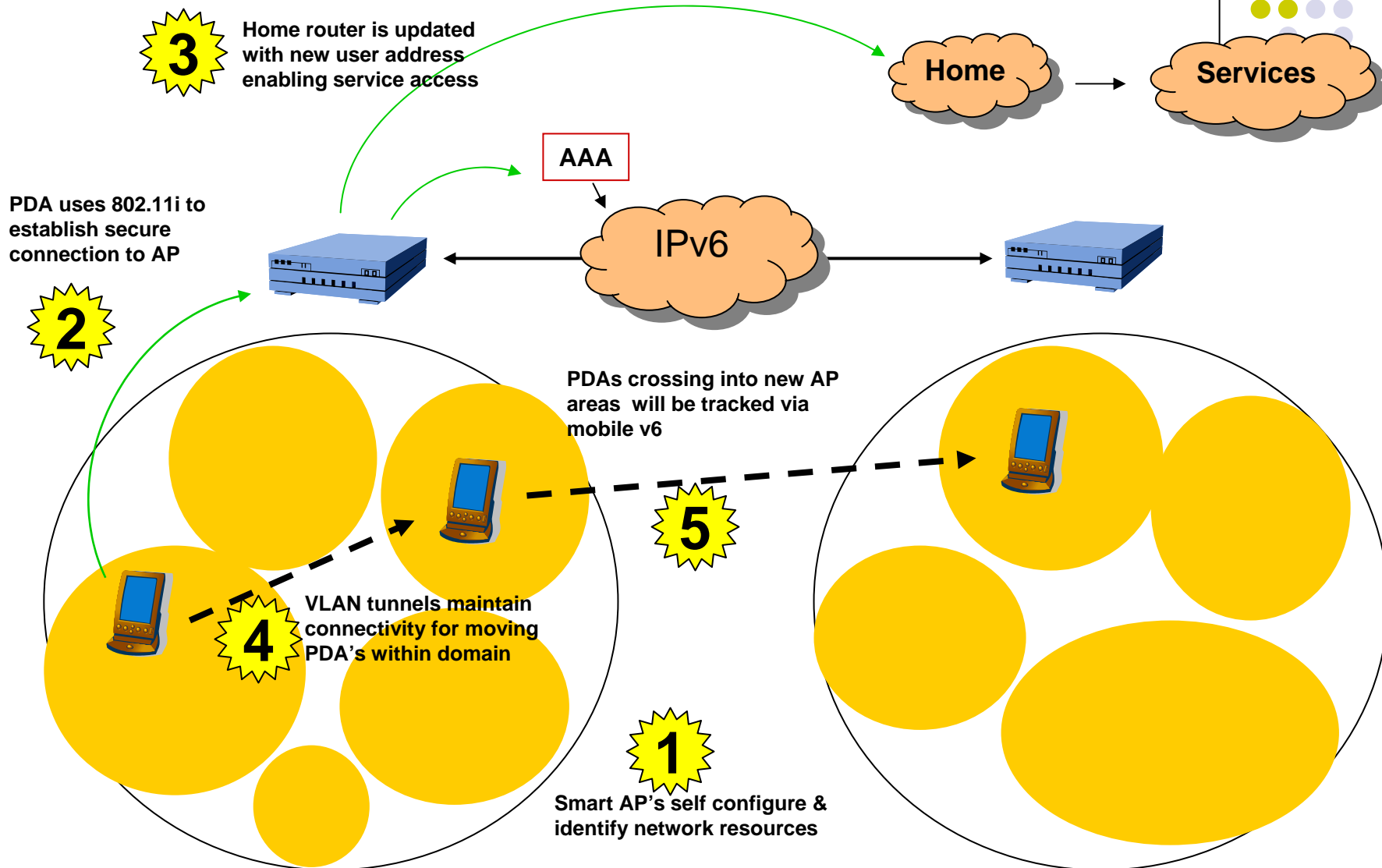
## Today



## IPv6

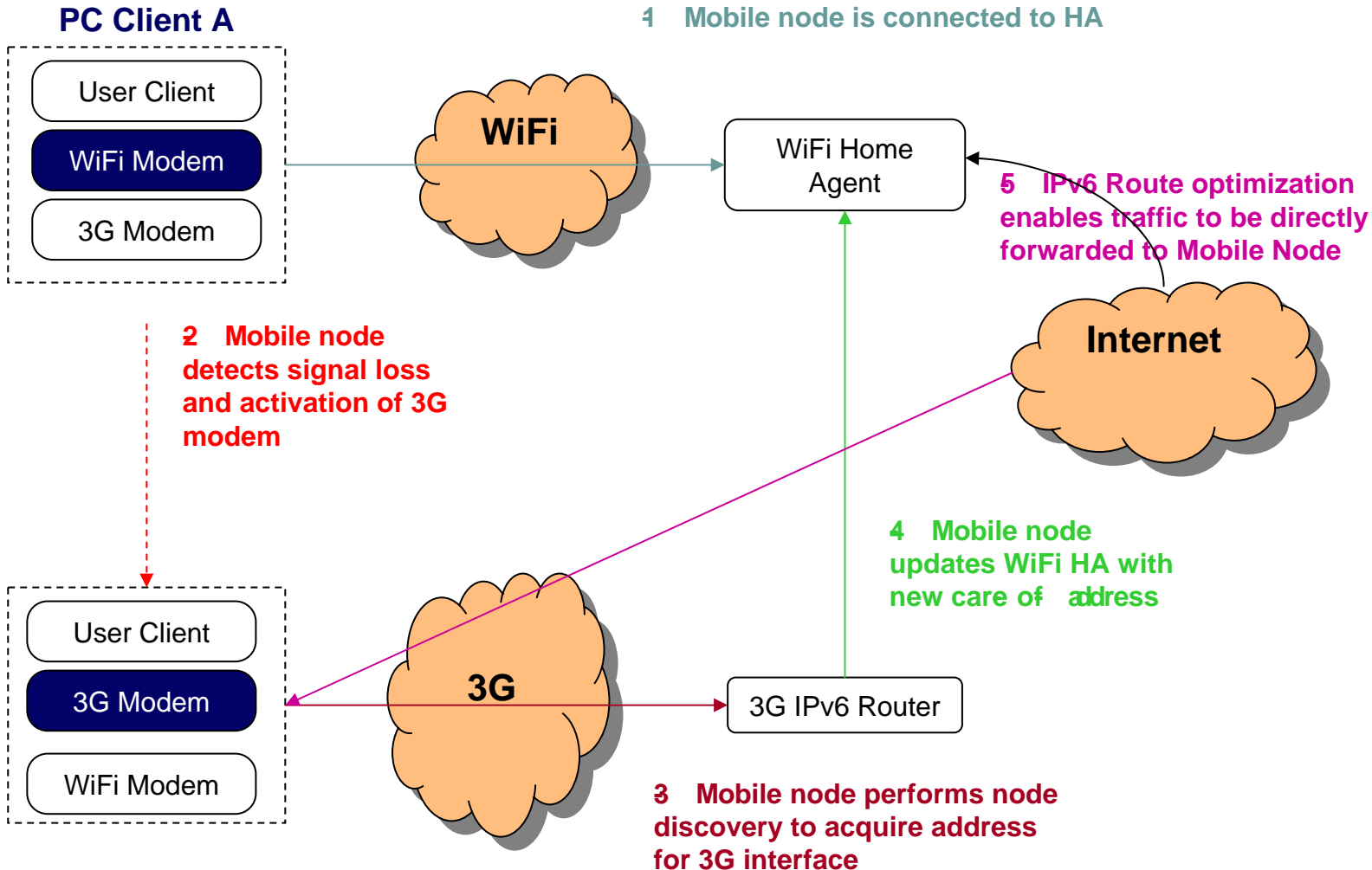


# 3<sup>rd</sup> generation WiFi in action

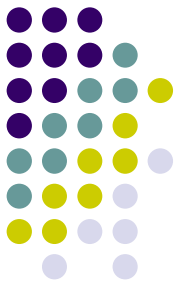




# PAN to WAN Roaming Application



# Agenda



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# IPv6 Natural Convergence Protocol

