



ETSI NEW INTERNET FORUM

12 October 2018

Introduction

ETSI New Internet Forum



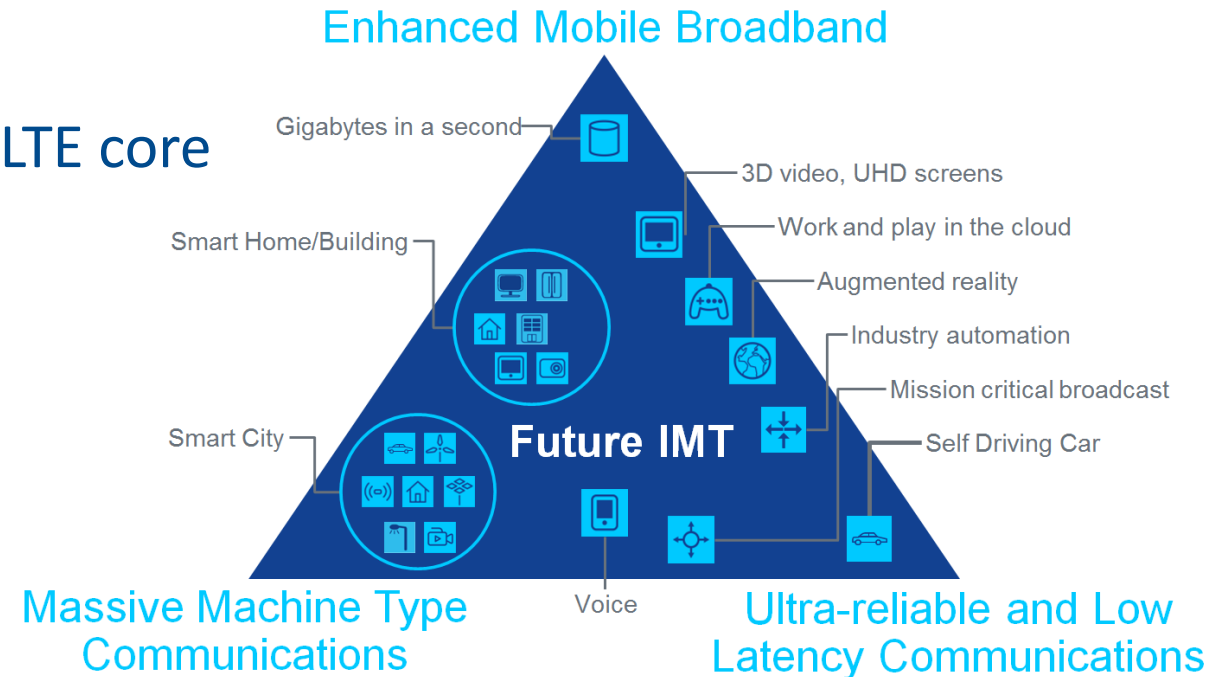
- An open platform for users and operators to explore
 -))) technical issues with the current network technologies
 -))) the capabilities of new protocols
 -))) a more powerful and intelligent network that can support more future application scenarios.
 -))) emerging technology requirements from different market segments
 -))) where the next generation protocols should significantly simplify solutions



- Industry Specification Group for Next Generation Protocols

- Vision:

-))) fix operators' problems with IP-based LTE core
-))) more application bits/s/Hz
-))) support new services proposed for 5G



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- 1: Network Challenges and Requirements for Future Applications
- 2: Innovation in Network Architecture
 - » Moving on from the steam age: packet forwarding for the 21st century
 - » Next Generation Networks: Requirements and Research Directions
 - » Towards Intent-based Networking: a High-level Northbound Interface for SDN
- 3: Emerging Network Technologies
 - » Managing the Security of IoT Devices out of your Control
 - » Analysis of Securing IP Prefix Allocation and Delegation with Blockchain
 - » Panel: The New Internet: How do we get there?

1: Network Challenges and Requirements for Future Applications



- New applications (Vehicular networks, tactile networks, industrial networks, holography, remote surgery, etc.) pose many challenges and requirements to the network, such as:
 - » massive connections
 - » ultra-high bandwidth
 - » deterministic
 - » ultra-low latency
 - » inherent security
 - » etc

1: Network Challenges and Requirements for Future Applications



- Defining requirements, challenges and technologies
 -))) for next generation collaboration and entertainment applications
 -))) Filip De Turck | Ghent University
- When is the best time to start talking about "N+1"G
 -))) A view on the driving forces
 -))) Ning Wang | University of Surrey
- Factory Infrastructure Monitoring and Supervision
 -))) Karoly Farkas | NETvisor