

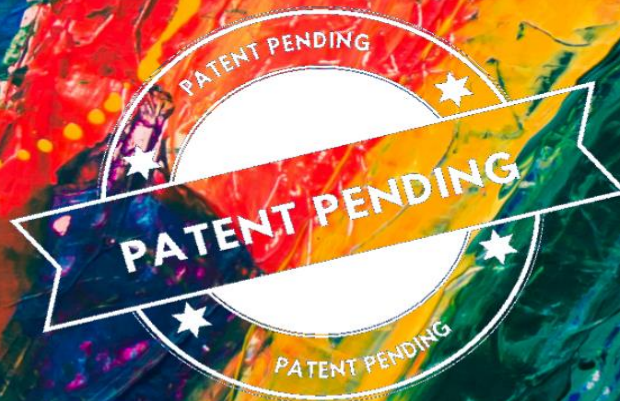
A NEW INTERNET ARCHITECTURE  
AND DATA COMMUNICATION TECHNOLOGY

*The End of the TCP Latency Struggling*

# HTTP-SS

# 5G

# FACT SHEET



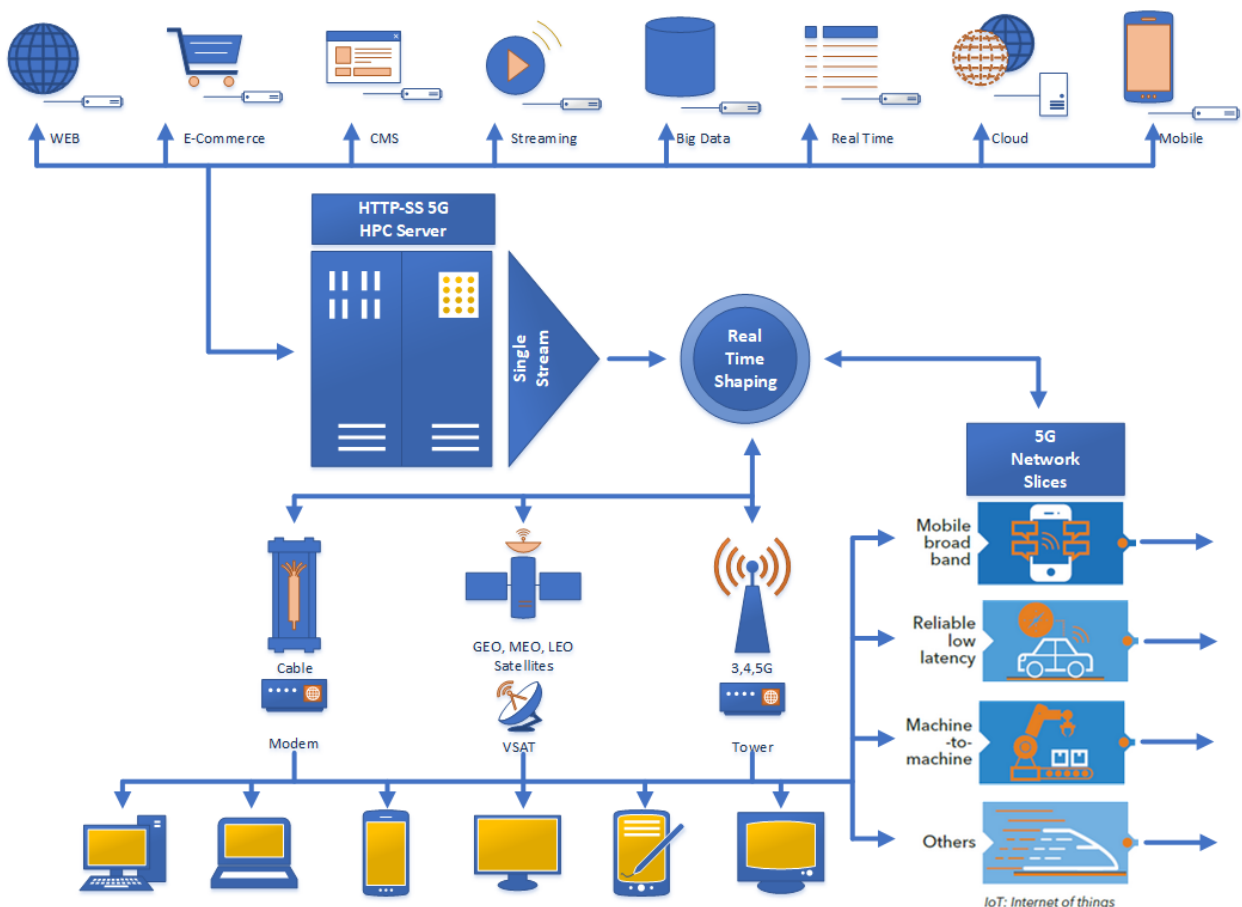
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## What is HTTP-SS 5G

**HTTP-SS 5G** consists of **High-Performance Computing (HPC) Servers** and **lightweight Clients** for all OS Platforms, Routers, Gateways and Modems.

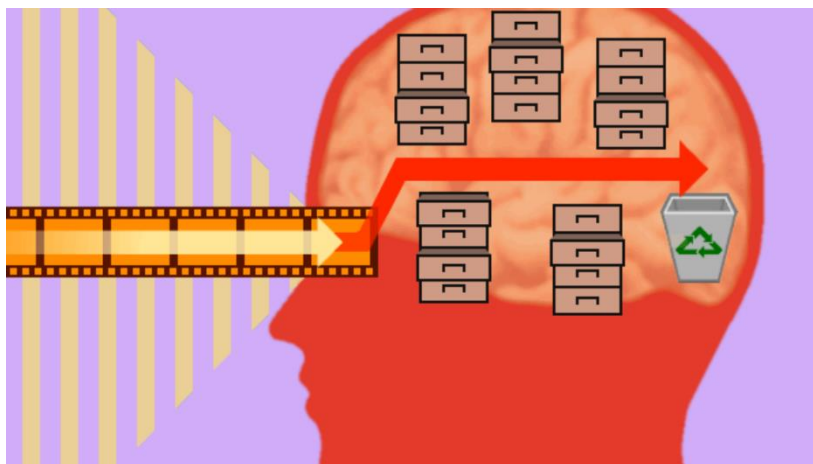
- The **HTTP-SS 5G Server** processes and transmits **URL/TCP Data Requests** from **WEB Browsers, Mobile Applications** and all other **TCP Clients** **securely** only with **1 Round Trip**
- All **Bandwidth** and **Performance destroying Protocol Handshakes** on short and long Distances are eliminated and at the same time a **secure Data Delivery** is guaranteed.
- **TCP Latency Issue** is **solved**.
  - ✓ No Matter of **RTT = 50 ms or 1 000 ms** and above
- **Huge Data Transmission Saving** by **AI Basic Elements**
  - ✓ **90 % less Data** for static and up to **50 %** for dynamic WEB Contents and up to **30 %** of any other TCP Data will be transmitted and therefor only a fractional of Bandwidth is needed to provide a similar performance as you would expect within a high Broadband Connection.



- **100 % redundant free Smart Push** of all WEB Objects by using **AI** Basic and **new server-side Process Chains**.
- **100 % compatible** to all common **Internet Standards** like IPv6/TCP/TLS/http and all other encapsulated TCP using Protocols.
- **100 % secure** Hack proof Data Transmission by **keyless 2 Level symmetric Encryption**.
- **100 % transparent System Integration**
  - ✓ **No upgrade** of Servers and End User Devices
  - ✓ **No upgrade** of active Network Elements
  - ✓ **Automatic HTTP-SS 5G Routing** by **Proxy Auto-Configuration (PAC) Java Scripts** and the **Web Proxy Auto-Discovery Protocol (WPAD) Technology**
- **100 % Availability** through **Smart Fallback** to **State of the Art** Feature
- **Insensitive** against longer **Connection Interruptions**
- **Dynamic Realtime Bandwidth Shaping** through **own Linux Kernel**
  - ✓ **Floating** Bandwidth Assignment
  - ✓ **Fixed** Bandwidth Assignment
  - ✓ **Max available** Bandwidth Assignment
  - ✓ **Smart Ceiling** Bandwidth Assignment
  - ✓ **Fully Latency free** by using hashing Feature for direct Rule Addressing
- Integrated **Network Slicing** Feature to support the new Generation of **5G Mobile Networks** for:
  - ✓ **eMBB** - Enhanced mobile Broadband Access in Dense Areas
  - ✓ **s-VCC** - Small-Volume, critical Communications
  - ✓ **h-VCC** - High-Volume, critical Communications
  - ✓ **eRTC** - Extreme real-time Communications
  - ✓ **mIoT** - Massive Internet of Things

## What is not HTTP-SS 5G

- **No Spoofing Techniques on Protocol Layers** or well-known common used Methods are used to achieve these results like:
  - ✓ **No TCP Spoofing**
  - ✓ **No Performance Enhancing Proxies (PEPs)**
  - ✓ **No Enhanced TCP Send and Receive Buffer Techniques**
  - ✓ **No Kinds of Network Accelerators**
  - ✓ **No Caching and Compression Features**
  - ✓ **No HTTP Header Compression**
  - ✓ **No Hardware intensive Bit Caching Systems**
  - ✓ **No new TCP by UDP**
  - ✓ **No additional RFC TCP Suggestions for Improvements**



- HTTP-SS 5G **does not implement** an **own non Standard Protocol**
  - ✓ Moreover a **new Payload Structure** is used to follow the multiplexed Single Stream Data Transmission Requirements and all server- and client side Processes follow strictly all used Internet Standard Protocols
- HTTP-SS 5G **is not** somekind of a **Proxy Caching Server**
  - ✓ Although Elements of a Forward Caching Proxies will be used, they do not play a crucial role in achieving these Results.