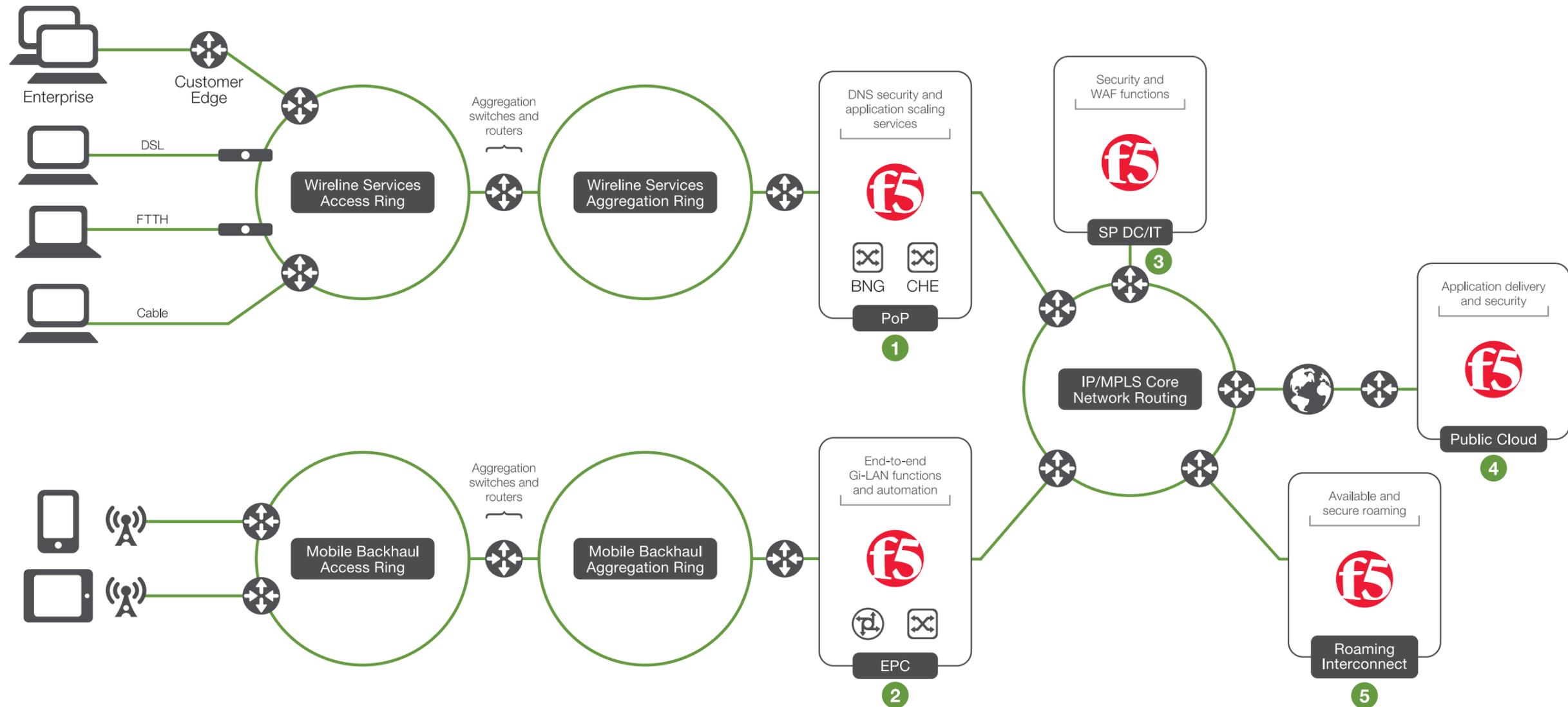


The 5G Evolution | Today's 3G and 4G Network



1. Point-of-presence/broadband network gateway/cable head end

Physical and virtual functions for secure application delivery, and scalable, secure video solutions. Includes DNS, DPI, and firewall solutions.

2. Evolved packet core

Physical and virtual functions for traffic management and secure application delivery. Includes DNS, DDoS mitigation, IoT Firewall, CG NAT and IP and video optimization solutions.

3. Data center/IT

Secure mission-critical apps and policy enforcement to integrate with policy and charging rules functions. Virtual L4–L7 services and load balancing scale and optimize in-house service provider applications.

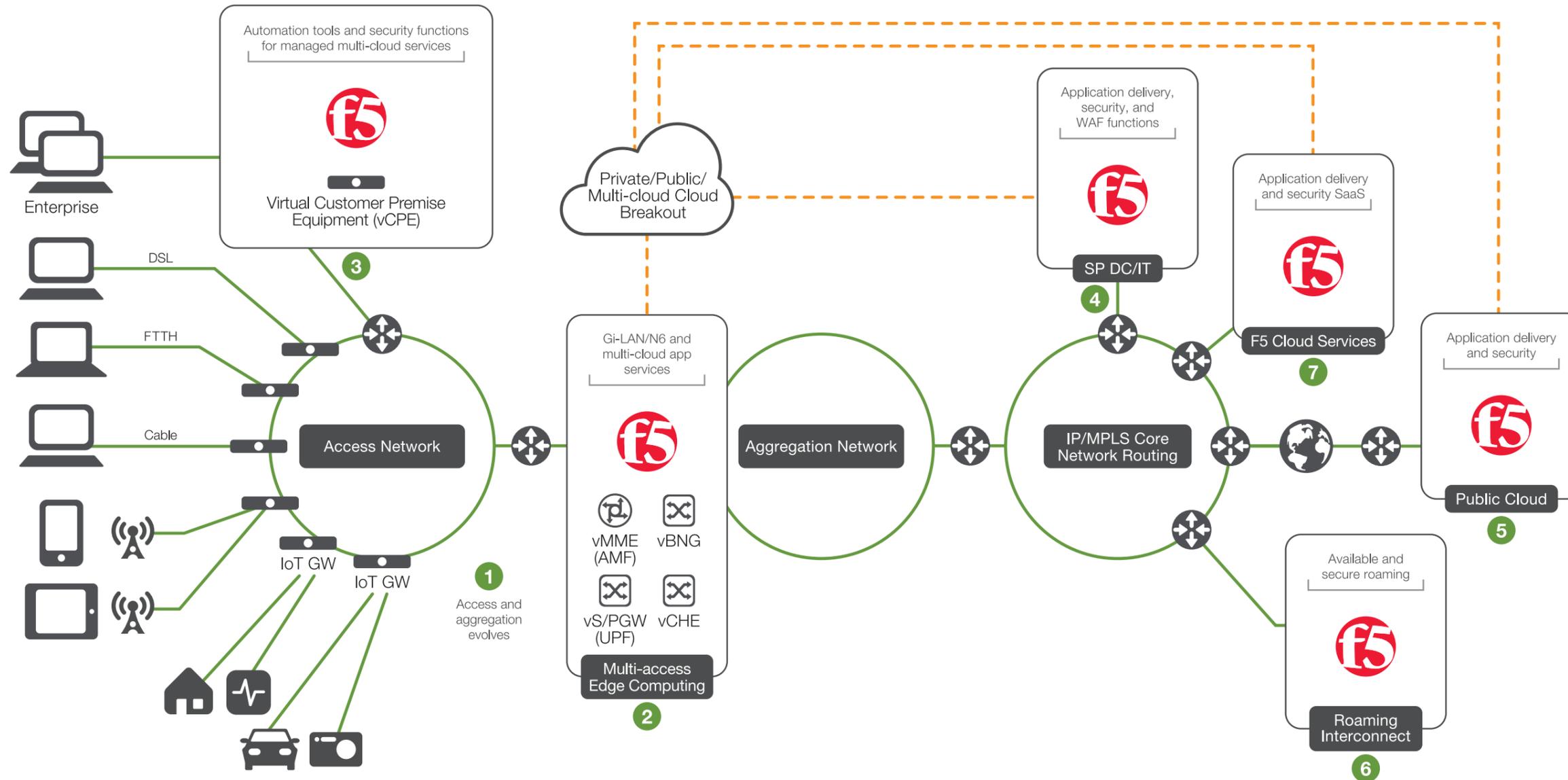
4. Public cloud

Scale and secure public cloud applications with web application firewall and app delivery services.

5. Roaming interconnect

Signaling and signaling security solutions such as Diameter, DNS, SIP, and GTP.

The 5G Evolution | The Next 5 Years—F5 Enabling Applications



1. Access and aggregation evolves

Network convergence fuses wireline and mobile backhaul access and aggregation networks. Demand for new, highly scalable, cloud-ready and secure application services as functions are virtualized/containerized. Service providers migrate their functions to commercial-off-the-shelf products.

2. vPoP/vEPC/multi-access edge computing

Applications move closer to the edge. Virtual/containerized functions scale, accelerate, secure, and enhance the end-user experience and reduce application latency.

3. Managed and cloud services enabled by private or public multi-cloud

Service providers can deploy managed services closer to their subscribers—necessary for latency-sensitive and bandwidth-intensive applications.

4. Data center/IT

Secure mission critical applications and policy enforcement functions. Load balancing to scale and optimize in-house service provider applications

5. Public cloud

Public cloud applications at scale and with security protections from web application firewall and app delivery services.

6. Roaming interconnect

Signaling and signaling security solutions such as Diameter/HTTP2, DNS, SIP, and GTP.

7. F5 Cloud Services

F5 Cloud Services is a set of enterprise-grade SaaS services for security and application delivery that are optimized for cloud-native apps and microservices. Includes Global Server Load Balancing (GSLB) and DNS as a service.

