World Firsts



62 World Firsts

5G Edge Transmission 20 5

2006: 6 Oct

3G: First Common Core GSM & WCDMA MSC voice and **SGSN** data traffic

2006: 6 Oct

3G: Network launch largest 850MHz **WCDMA** network

capability 14.4Mbps download speed

7 Mar

27 Sep **4G: First combined** core network for 2G, **3G, 4G EPC**

4G: Hybrid 1800MHz

LTE 850MHz HSPA

2007: 12 Feb

3G: First network

2006 - 2010

3G: First 200km cell range commercial broadband network

2008: 3 Apr

switch architecture

mobile packet core

2009: 16 Feb

3G: First 21Mbps and fastest network

2009: 1 Dec

3G: First trial group radio solution for Emergency Services

2009: 17 Dec

3G: First Dual Carrier HSDPA Plus 42 Mbps

16 Sep

4G: First 1Gbps production network 12 May

Carrier Aggregation

4G: First LTE Broadcast (LTE-B) on live network

2013

31 Jul

28 Oct

4G: First LTE

Advanced (LTE-A)

commercial trial 4G

4G: First 600Mbps commercial device

9 Nov

22 Dec 4G: First demo 4x4

2014

MIMO Telstra **Ericssson &** Qualcomm

11 May

Transmission: Telstra deploys longest 100G optical terrestrial route **Perth - Sydney**

12 May

Transmission: Guiness World Record title for world's longest unregenerated terrestrial link over 10 000km

Transmission: World's longest 200G link: 1117km from **Melbourne - Sydney**

2016

30 Jan

4G: First launch of Telstra commercial Gigabit LTE network 150Mbps upload

28 Feb

4G: First LTE broadcast enabled PTT call by **Ericsson Motorola Telstra & Qualcomm**

22 Dec

4G: First trial Multicast **Operation on Demand** (MooD) on LTE

6 Nov

5G: First data call 26GHz mmWave on production network

2018

13 Dec

5G: First DSS data call using **Oppo 5G smartphone**

18 Dec

5G: Ericsson and Telstra achieve world first milestone by implementing industry's first live Cloud-Native Container based Evolved Packet Core for 4G and 5G services

20 Jan

5G: First 5Gbps speed record on mmWave using 5G **Carrier Aggregation (CA)**

28 Jun

5G: First longest low-band cell range call (850MHz)

16 Dec

5G: First highest uplink data speed (~1 Gbps) in a commercial network

28 Feb

5G: First longest mid-band cell range call (3.6GHz)

2024

2007: 12 Feb

3G: First MSC-S blade

2008: 10 Jun

3G: Direct tunnel in

Guinness World Record

26 Feb

2011

4G: First deployment Evolved **Packet Gateway** (EPG) on SSR 8020

2012

24 Jan 4G: First data call with APT700 700MHz

3 Feb

4G: First LTE broadcast trial at Stadium MCG T20 Game

15 Feb

4G: First 300Mbps commercial device in **4G production network**

15 May

4G: First 450Mbps production network capability

24 Nov

4G: First 450Mbps production network e2e 4G data call **Qualcomm LTE** modem

20 Jan

17 Sep

19 Sep

4G: First network

4G: First longest

tion up to 100km

range narrowband

NB-IoT data connec-

2Gbps commercial

production network

2015

Transmission: Telstra, Ericsson and **Ciena demonstrate** world first secure encryption solution

28 Mar 5G: First connected car 5G mmWave 26GHz

8 May

28 Mar

5G: First eSports professional gaming over 5G @ 5GIC Southport

2017

5G: First enabled wifi

hotspot precinct

Gold Coast

16 Jul

5G: First end to end 5G **Non-Standalone NSA** 3GPP data call @ 5GIC **Gold Coast**

5 Dec

5G: First connection with a commercial device in sub 6GHz (3.6GHz)

3 Mar

5G: Cisco and Telstra complete world's first 5G call over packetized fronthaul network

2019

14 Jul

5G: Telstra launches world first suite of enterprise-grade 5G solutions Cradlepoint

27 Feb

4G: First LTE 200km cell range capability on a commercial mobile broadband network

3 Jun

4G: First longest range narrowband NB-IoT data connection extended to 120km

24 Jan

2020

5G: Telstra deploys Ericsson Private 5G for Enterprise

2021

28 Feb

5G: Fastest downlink speed (5.9Gbps) in a commercial network (5G Standalone)

31 Aug

5G: Telstra & Ericsson deploy fully automated 5G network slicing in a commercial network

6 Dec

5G: eCPRI and packetised fronthaul solution in a commercial network

8 Dec

5G: Fastest downlink speed (7.3Gbps) in a commercial network (5G Standalone)

9 Feb

5G: 5G core efficiency - AMD high density processors 49% less power consumption

2023

13 Feb

5G: 340 Mbps Uplink. 5G SA sub 6 GHz 240 and 140 MHz Data channel in a live commercial network 19 Feb

2022

5G: Hybrid network resiliency trial. Nokia's IP Multimedia subsystem (IMS) on Amazon Web Services (AWS)

26 Feb

5G: 5G slicing proof-of-value engine. Deliver committed performance levels for enterprise customers

20 Jun

5G: Longest 5G Stand Alone (SA) voice call at ~100km (99.8km)

22 Jul

5G: World first traffic steering of multiple network slices (URSP)

14 Aug

5G: 4th Gen Radio Access Network (RAN) compute

21 Oct

5G: 447 Mbps Uplink 5G SA in a live commercial network

12 Feb

Edge: Device Edge. Red Hat-Adtran collaboration. Single node openshift bare metal on NTU

19 Feb

Transmission: King Island 116 km microwave link (9.8 Gbps - 99.99% availability)