World Firsts

66 World Firsts

5G Edge Transmission 20 30 6

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

2007: 12 Feb

3G: First network capability 14.4Mbps download speed

2006 - 2010

7 Mar

4G: Hybrid 1800MHz LTE 850MHz HSPA

27 Sep

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

2011

31 Jul

4G: First LTE Advanced (LTE-A) commercial trial 4G Carrier Aggregation

28 Oct 4G: First LTE

live network

Broadcast (LTE-B) on

16 Sep

9 Nov

22 Dec

2014

4G: First 600Mbps

commercial device

production network

4G: First demo 4x4

4G: First 1Gbps

MIMO Telstra

Ericssson &

Qualcomm

11 May

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

12 May

12 May

Transmission:

1117km from

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

World's longest 200G link:

Melbourne - Sydney

2016

22 Dec

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

6 Nov

30 Jan

upload

28 Feb

4G: First launch of

LTE network 150Mbps

4G: First LTE broadcast

enabled PTT call by

Telstra & Qualcomm

Ericsson Motorola

Telstra commercial Gigabit

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)

2020

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

2024

5G: Fastest downlink speed (9.4Gbps) in a commercial network (5G StandAlone)

6 Feb

24 Jan

5G: 516 Mbps uplink 5G SA in a live commercial network

2025

2007: 12 Feb

3G: First 200km cell range commercial broadband network

2008: 3 Apr

3G: First MSC-S blade switch architecture

2008: 10 Jun

3G: Direct tunnel in mobile packet core

2009: 16 Feb

3G: First 21Mbps and fastest network **Guinness World Record**

2009:1 Dec

3G: First trial group radio solution for Emergency Ser-

2009: 17 Dec

3G: First Dual Carrier HSDPA Plus 42 Mbps

26 Feb

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

2012

2013

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

4G: First 450Mbps production network capability

24 Nov

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

20 Jan

17 Sep

network

19 Sep

4G: First network 2Gbps

commercial production

4G: First longest range narrowband NB-IoT data

connection up to 100km

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

2015

5G: First enabled wifi hotspot precinct Gold Coast 28 Mar

28 Mar

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

5G: First connected car 5G

mmWave 26GHz

2017

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

3 Jun

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

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

24 Jan

5G: Telstra deploys **Ericsson Private 5G for Enter**prise

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

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

28 Feb

5G: First longest

2023

call (3.6GHz)

mid-band cell range

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

13 Feb

2022

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

19 Feb

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 custom

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

25 Oct

5G: rApp deployed in a live commercial network (EACC - Ericsson Automated **Configuration Consistency**)

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

Transmission: 1.6Tbps single optical channel over 700km

12 Feb

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

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

V19