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Research Dossier: Telia Finland



Country

Finland

Company Name

Telia Finland Oyj

Ownership Type

Subsidiary

Ownership/Controlling Entity

Telia Company

Website

<https://www.telia.fi/>

MNC

36
91

Company Overview

Telia is the largest mobile network operator servicing in Finland. The company was founded in 1998 then as Sonera, however has a history dating as far back as 1917 as state-run Suomen Lennätinlaitos. The privatisation process first began in 1993, when it became the state run enterprise Telecom Finland Oy (Tele), and again in 1998 when partially privatised to become Sonera Oy. In November 1999 the company listed 22% of its shareholding on the Helsinki Stock Exchange, increasing to 47.2% over the next two years. In March 2002 Sonera announced a merger with fellow Nordic telecoms company Telia, becoming TeliaSonera AB in March 2003, and the Finnish mobile network operator becoming TeliaSonera Finland Oyj. In March 2017 TeliaSonera was rebranded to Telia. Telia Finland is a wholly owned subsidiary of Telia Company.

The company has provided 2G GSM services over 900 and 1800 MHz bands since June 1992, and

launched 3G UMTS over B1 (2100 MHz) in May 2007 and B8 (900 MHz) in June 2009. 3G services were upgraded to DC-HSPA+ in 2012. 4G LTE services were launched in November 2010 over the B7 (2600 MHz) band and complemented by B3 (1800 MHz) in August 2011. A 300 Mbps 2C CA service over B3 and B7 ([CA_3A-7A](#)) was commercially launched in 2015, and 3C CA trials adding a B20 (800 MHz) service was announced in September 2015 reaching data rates of 375 Mbps DL.

LTE-A Pro technology was demonstrated in December 2016 with data rates up to 640 Mbps achieved. The company has been awarded 10 MHz of paired 700 MHz spectrum, however is yet to deploy an LTE carrier.

Live testing of NB-IoT and eMTC (Cat-M1) was announced in November 2017, with commercial activation confirmed in March 2018.

Telia Finland 5G

Telia announced the activation of a pre-commercial 5G network in September 2018, operating over the n78 (3500 MHz) band. The network initially used test frequencies issued by the Finnish Communications Regulatory Authority, with full commercial operation possible after securing frequencies 3410 to 3540 MHz in the country's October 2018 5G spectrum auction.

▼ 3G UMTS Network Information

Details on UMTS network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Launch Date 2007-05 Status Active

UMTS Band Packet Data Status

[B1 \(2100 MHz\)](#) [DC-HSPA+](#) Active

[B8 \(900 MHz\)](#) [DC-HSPA+](#) Active

▼ 4G LTE Network Information

Details on LTE network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Evolution	LTE Advanced (LTE-A)	Status	Active [Launched 2010-11]
Max. MIMO	2x2 MIMO	Max. Modulation	64QAM
Carrier Aggregation	CA_3A-7A (B3+B7) CA_3A-7A-20A (B3+B7+B20)	Features	LTE-M VoLTE

LTE Band Channel Width Status

[B3 \(1800 MHz\)](#) 20 MHz Active

[B7 \(2600 MHz\)](#) 20 MHz Active

[B20 \(800 MHz\)](#) 10 MHz Active

▼ 5G NR Network Information

Details on 5G NR network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Type	NR (Standard)	Status	Active [Launched 2018-09-05]
Max. MIMO	Massive MIMO	Max. Modulation	256QAM
Carrier Aggregation	-	Features	-

NR Band Channel Width Status

[n78 \(3500 MHz\)](#) 100 MHz Active

▼ IoT Network - eMTC (LTE Cat-M1)

Technology	eMTC (LTE Cat-M1)	Status	Trialling
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Band	-	Launch Date	-
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▼ IoT Network - NB-IoT (LTE Cat-NB1)

Technology	NB-IoT (LTE Cat-NB1)	Status	Active
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Band	B20 (800 MHz)	Launch Date	2018-03
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Document Generated on July 31, 2021 00:57

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