

# NETWORK SERVICES AT MESSUKESKUS



## Wireless network

- Public Wi-Fi
  - Messukeskus (5GHz 802.11.a/n/ac)
  - Messukeskus2.4GHz (2.4GHz 802.11g/n)
- Available at exhibition halls, congress centre, entrances, restaurants
- Ideal for typical internet usage such as browsing websites, email etc.
- Not recommended for points of sales devices and business critical usage

## Wireless network facts

- Over 200 wireless access points covering all areas
- Speed up to 120 Mbit/s in ideal conditions (no interferences, short distance to access point, uniform device distribution)
- Maximum capacity approximately 20 000 concurrent Wi-Fi users
- Recommended Wi-Fi band is 5GHz (for more reliable connection)
- 2.4GHz Wi-Fi band could be crowded and network congestion may occur. Please check your device support for 5GHz Wi-Fi.

## Wired internet connections

- Speed 100/100 Mbit/s
- Network cabling CAT6 / RJ45 connectors
- Special services
  - Public IP addresses, QoS (Quality of Service), Virtual LAN across venue
- Wired network services are supplied and invoiced by Suomen Videoviestintä SVV OY

## Technical details of wireless network

Wireless network devices  
Cisco Access Points 3600 and 3700 series  
Controller Cisco 5520 HA  
Controller Cisco 5508 HA

### Permanent access points located as following:

Hall 1: 7 AP  
Hall 2: 6 AP  
Hall 3: 23 AP  
Hall 4: 8 AP  
Hall 5: 20 AP  
Hall 6: 45 AP  
Hall 7: 33 AP  
Other areas: 25 AP  
Congress centre: 40 AP

## Network infrastructure

- Access Switches Cisco 2960X
- Distribution Switches Cisco 3750ME
- Core Switches Cisco 6506 VSS
- Firewall Cisco ASA 5520 redundant
- DHCP Server redundant
- Access-Distribution-Core speed is 1Gb/s

## Questions? Please contact

[svv.myynti@messukeskus.com](mailto:svv.myynti@messukeskus.com)



# FREQUENTLY ASKED QUESTIONS

## Do I need wired or wireless connection?

Wireless network is enough for typical tasks such as web browsing, email, social media. Wired connection is recommended if you use internet connection for point of sales devices, business critical tasks or video streaming.

## Can I use my own switch/router to share wired connection?

You are allowed to share wired connection to multiple wired devices at your own stand area. If you bring your own switch/router, please turn off wireless features. Sharing connection to other exhibition stands is prohibited. Messukeskus staff has rights to unplug devices that cause problems to Messukeskus network.

## I have ordered wired internet connection. Can I use my own wireless router to create own Wi-Fi?

Not without permission, because it may cause crowded channels and network congestion. If you need own wireless network, please contact first [svv.myynti@messukeskus.com](mailto:svv.myynti@messukeskus.com) and describe your wireless network needs.

## What is the speed of fixed internet connection?

100/100Mbps (download/upload)

## Does Messukeskus wireless network support AppleTV, Google Chromecast, wireless printer or other wireless equipment?

No. Traffic between devices is restricted due to security policies. If you plan to use AppleTV, Google Chromecast, wireless printer etc., please contact first [svv.myynti@messukeskus.com](mailto:svv.myynti@messukeskus.com)

## Which smartphones and tablets support 5GHz?

**Here is a small (not complete) list of smartphones that support 5GHz:**

Apple iPhone 5, 5c, 5S, 6, 6S

BlackBerry Q10, Z10, Z30, Bold 9790

Google Nexus 4 and 5

HTC One, One X, One Mini, One SV, Windows Phone 8x, DROID DNA

LG G2, LG Optimus L5 II, LG Optimus G Pro, LG Optimus G, G3, G4

Motorola Razr 1, Razr HD, DROID Razr M, Droid Razr HD  
Nokia Lumia 925, 520, 620, 810, 820, 822, 920, 928  
Samsung Galaxy S4, SIII, SIII mini, Activ S, Galaxy Note, Galaxy Note II, Galaxy Nexus  
Sony Xperia Z, Z1, SP, T  
Samsung Galaxy Alpha, S5 and S6  
Huawei Honor 6 and 7  
Google Nexus 6

## Which Tablets support 5 GHz?

**Here is a small current selection:**

Amazon Kindle Fire HD, HDX 8.9

iPad (2, 3, 4th Gen), iPad Air, iPad Air 2, Apple iPad Mini (1, 2, 3, 4th Gen)

Google Nexus 10

Microsoft Surface Pro, Surface Pro 2, Surface RT

Samsung Galaxy Tab 3 10.1, Galaxy Note 8, Galaxy Note 10.1

Please check your device capabilities at the device manufacturer manual.

## Which computers support 5GHz?

Both on an Apple Mac as well as on a Windows PC, it is possible to find out whether a 5GHz adapter is installed.

### Apple Mac

Press the Apple logo at the top left and select "About This Mac"

Click "More Info..."

Click "System Report..."

Select the Wi-Fi option, and make sure 802.11a is listed at 'Supported PHY modes'.

### Windows 7/8

Enter the search box and type "cmd" to open a command window

Enter the following command: "netsh wlan show drivers".

Please make sure 802.11a is listed under 'Radio types supported'.