



2N® Indoor Touch 2.0 - How to deal with the Unicast x Multicast settings?



If you use 2N® Indoor Touch 2.0 as an answering unit for 2N® IP Intercom in the local network, the video stream from the 2N® IP Intercom can be received over the unicast or multicast communication. This guide briefly summarizes when and how to use one of these options, however for a detailed explanation see please the corresponding FAQ with the complete [Network requirements](#).

There are two ways how the video stream from the 2N® IP Intercoms can be received by the 2N® Indoor Touch 2.0 in the local network:

1. Unicast (suitable for up to 3 pcs of 2N® Indoor Touch 2.0)

-  easy to setup - factory default value, works smoothly over Wi-Fi, no need for smart active network parts (eg. managed switch, advanced Wi-Fi access point etc.)
-  limitation of up to 3 devices to simultaneously watch the stream from the 2N® IP Intercom, no audio listen in (audio preview)

2. Multicast (suitable for 3+ pcs of 2N® Indoor Touch 2.0)

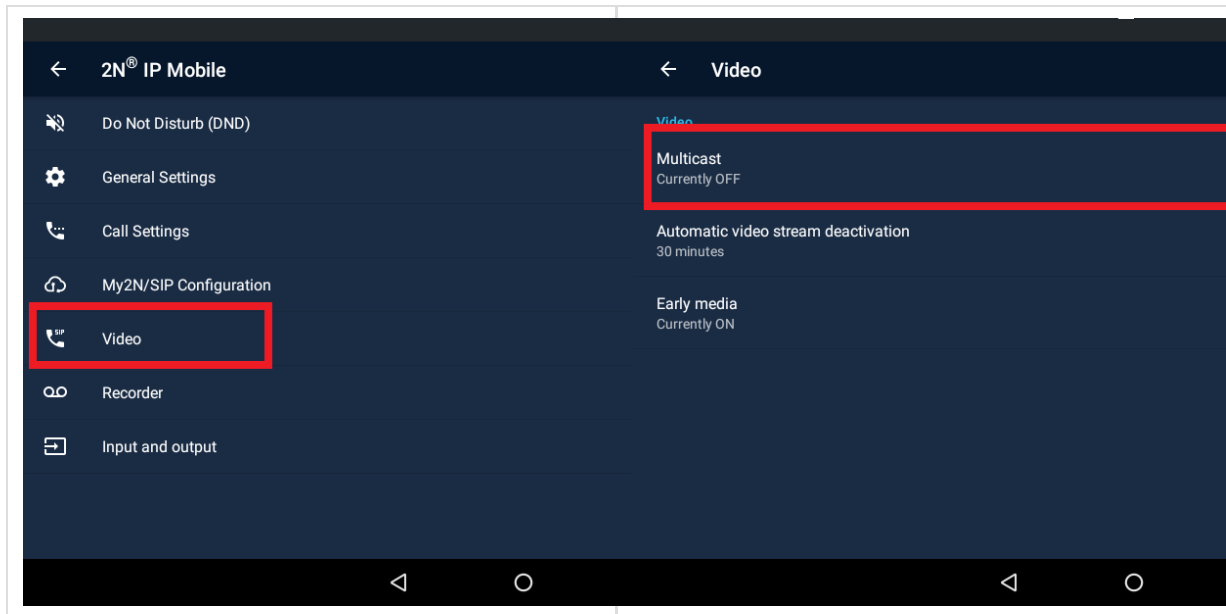
-  unlimited devices to watch the video stream from 2N® IP intercom, audio listen in (audio preview), optimised network bandwidth usage
-  smart active network parts with multicast support required (especially for Wi-Fi)

Multicast network requirements:

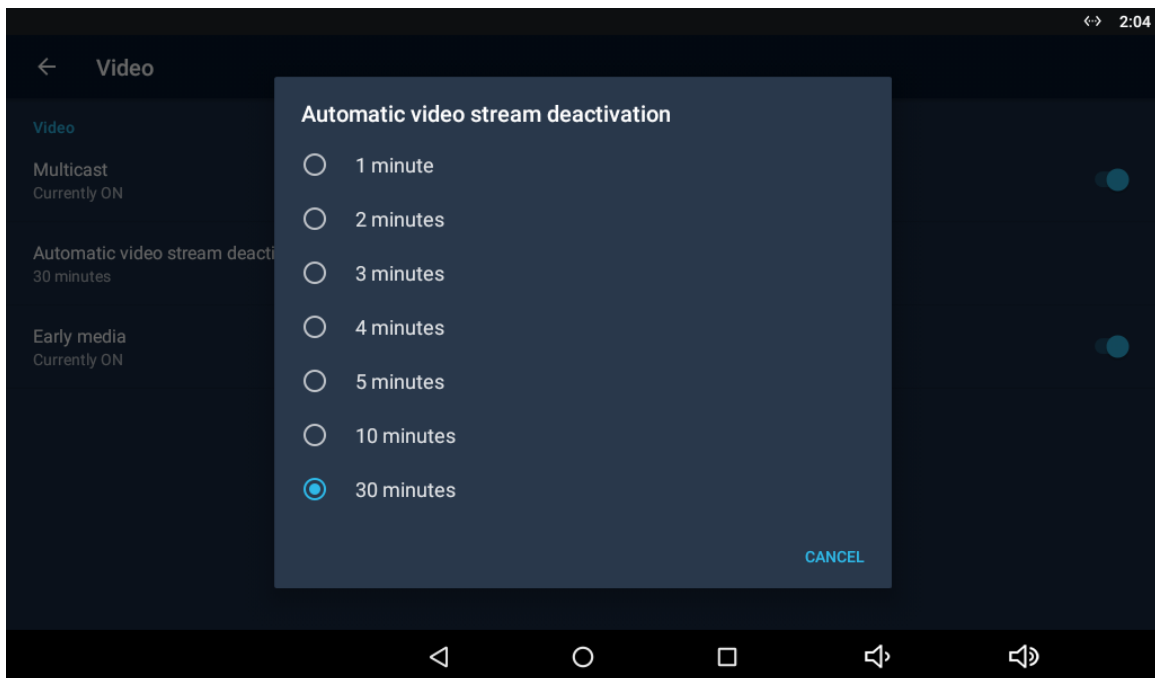
- LAN - a smart managed switch with the IGMP Snooping support to avoid overloading of the switch/network throughput.
- Wi-Fi - access point with the multicast helper feature support (alternative names eg.: Wi-Fi multicast, Multicast Routing across Wi-Fi etc.), which can translate the multicast stream to a unicast stream and increase the transfer rate.

How to set 2N® Indoor Touch 2.0?

The configuration of video parameters can be found in the "Settings" section of the 2N® IP Mobile application. Go to the section "Settings - Video" in order to adjust the parameters (the factory default value is Unicast), see the pictures below.



There is also an adjustable timeout for the video deactivation in a range of 1 - 30 minutes (the factory default value is 2 minutes). The 2N® IP Mobile application stops receiving of the Unicast/Multicast stream after exceeding of this timeout, see the picture below.



It is recommended to use a reasonably low value of the timeout in order to save the overall network bandwidth.

For further details how to set the 2N® Indoor Touch 2.0 and 2N® IP Intercom see please this FAQ: [2N® Indoor Touch - How to setup call from/to 2N® IP Intercom?](#)



Note

In order to perform correctly, all components are required to be interconnected over appropriate Ethernet/Wi-Fi network parts as described in this FAQ: [Network requirements - What LAN/Wi-Fi](#)

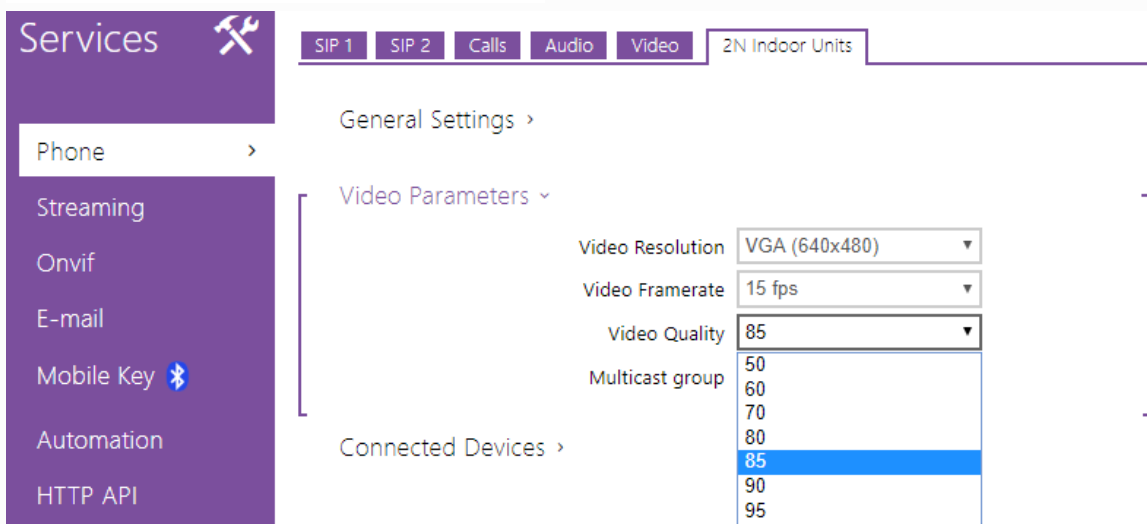
infrastructure do I need?.

It is high recommended to use a physically dedicated LAN or a virtually dedicated VLAN with corresponding parameters. Insufficiently dimensed network infrastructure and active network parts may cause an overload of the network communication such as packets loss or delays with a direct impact on the communication smoothness.

i Unicast x Multicast video preview bandwidth
Standardised testing picture being streamed from 2N® IP Verso intercom to the 2N® IP Mobile application.

Multicast (VGA 640x480/15 fps)

Video quality	Bandwidth [Mb/s]
50	6,9
60	7,3
70	8,2
80	9,1
85 (default)	10,0
90	11,6
95	14,2



Unicast

JPEG Compression Level	Bandwidth [Mb/s]
50	1,9
60	2,7
70	3,2
80	3,9
85 (default)	4,4
90	5,5
95	5,9

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RTSP | **JPEG** | Multicast | InformaCast | FTP

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JPEG Compression Level

- 50
- 60
- 70
- 80
- 85**
- 90
- 95

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Door & Security Intercoms (Official Website 2N)