

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

If you use 2N® Indoor Touch 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 in the local network:

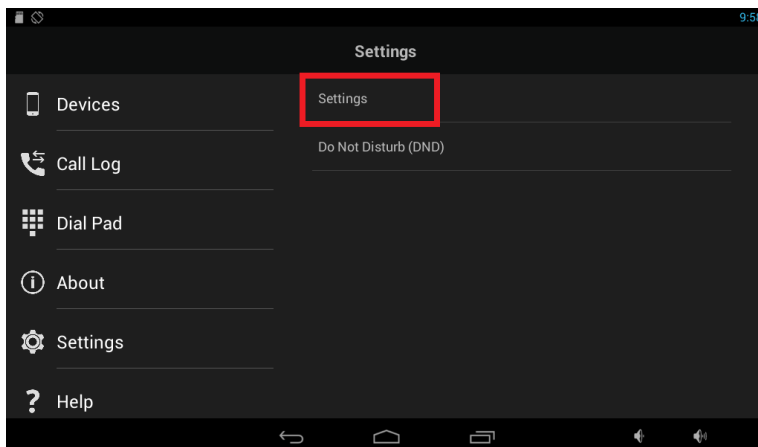
1. Unicast (suitable for up to 3pcs of 2N® Indoor Touch)
 - + easy to setup - factory default value, works smoothly over Wi-Fi, no need for smart active network parts (eg. managed switch, advanced Wi-Fi access point etc.)
 - limitation of up to 3 devices to simultaneously watch the stream from the 2N®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

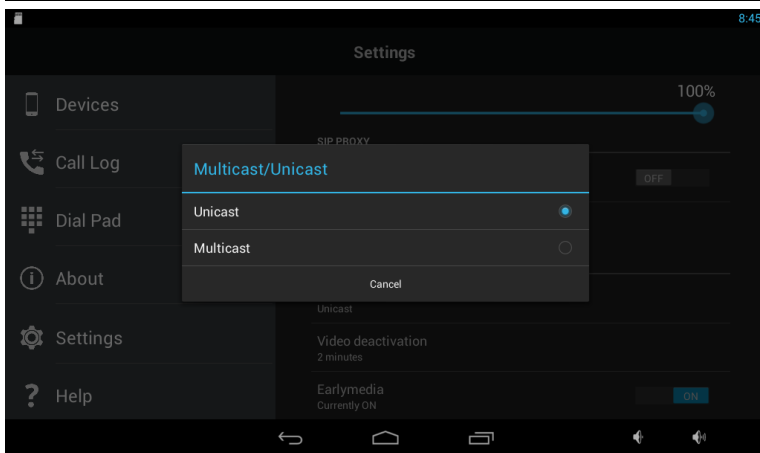
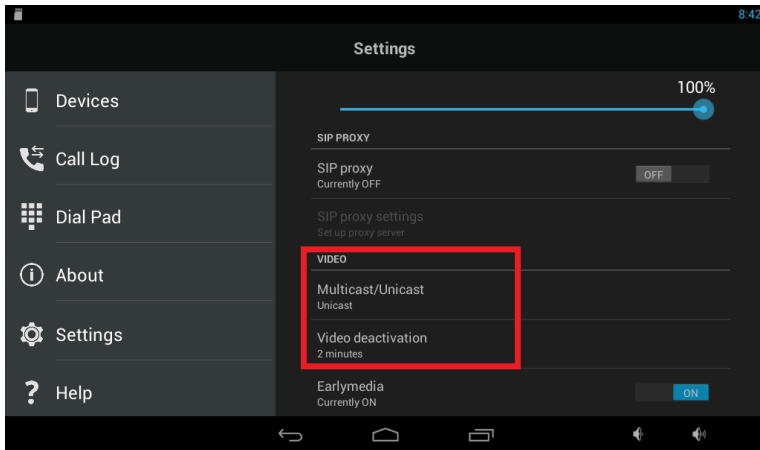
Multicast network requirements:

- 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.

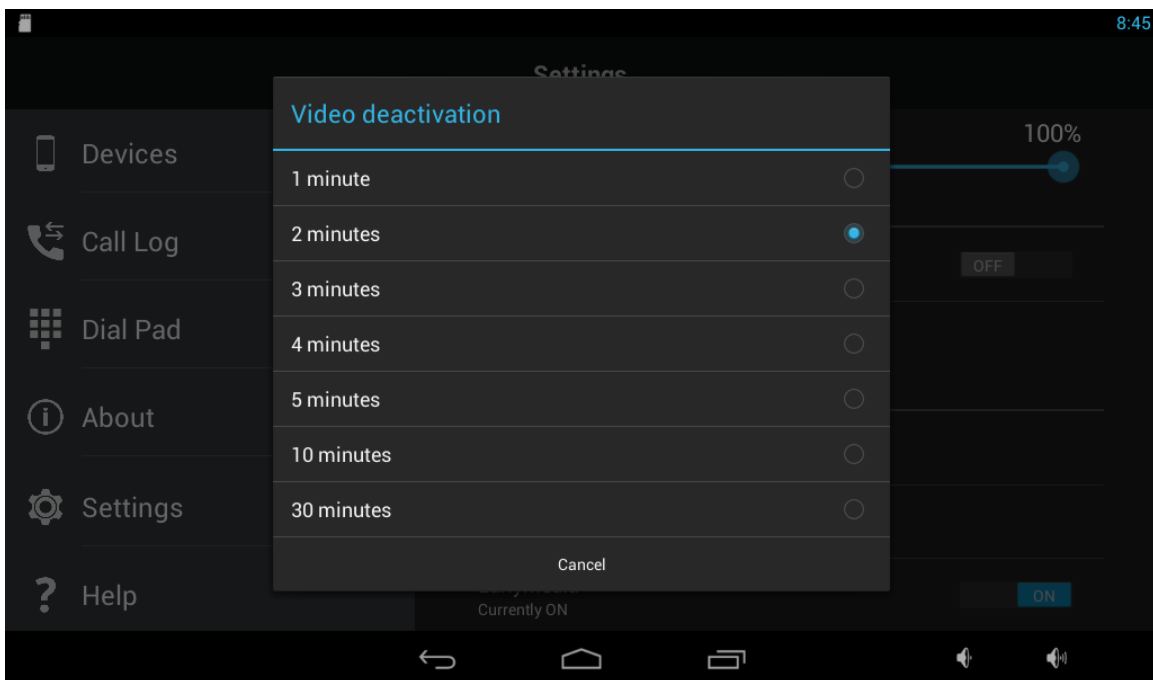
How to set 2N® Indoor Touch?

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 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.



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 |

Services

- Phone >
- Streaming
- Onvif
- E-mail
- Mobile Key
- Automation
- HTTP API

SIP 1

SIP 2

Calls

Audio

Video

2N Indoor Units

General Settings >

Video Parameters >

Video Resolution

Video Framerate

Video Quality

Multicast group

50

60

70

80

85

90

95

Connected Devices >

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 |

Services

- Phone
- Streaming >
- Onvif
- E-Mail
- Automation

RTSP

JPEG

Multicast

InformaCast

FTP

JPEG Snapshots Download >

JPEG Compression Level

50

60

70

80

85

90

95

SNOM Phone Support >

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