

ICOM Voice Recorder Protokol

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Supported device types and versions

The ICOM Voice Recorder protocol is intended for recording digital audio communication of ICOM repeaters (in AMBE2+ format). From the ICOM side, recording is supported for repeaters UC-FR5300 in multisite trunking mode, with firmware *Revision 1.50 (NXDN)Beta*.

In the configuration of the system master repeater in the settings in the "Recording" section, it is necessary to configure "Recording Server IP Address" to the address of the computer with the D2000 KOM process and "Recording Server Port" to the UDP port number where the D2000 KOM process will listen. Subsequently, all repeaters will start sending copies of UDP packets with sound to the specified address and port.

ICOM UC-FR5300 Web Settings Revision 1.50 (NXDN)Beta

Trunk System Settings - Recording

Forward voice packets to recording server ☐ Disable ☒ Enable

Recording Server IP Address

Recording Server Port (10000 - 65535)

WRITE

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Communication line configuration

Category of communication line:

- **TCP/IP-UDP**

Set the *Host* parameter to the IP address entered in the UC-FR5300 repeater configuration, or you can enter the address *ALL* or *** if the D2000 KOM process should listen on all available network interfaces.

Set the *Port* parameter to the UDP port number specified in the repeater configuration.

Backup server parameters are not used.

Note: if the computer with the D2000 KOM process contains an active firewall, it is necessary to allow incoming UDP packets to the configured IP address and port

Communication station configuration

- Communication protocol *ICOM Voice Recorder*.
- The station address is not configured.

Station protocol parameters

The following station protocol parameters can be specified:

Full Name	Description	Unit	Default value
Work Path	The working directory in which recordings are made. A symbolic constant #APPDIR# can be used to specify the application directory, e.g. #APPDIR#/my_work	-	#APPDIR#/ic om/work
Done Path	Directory to which closed recordings are moved. A symbolic constant #APPDIR# can be used to specify the application directory, e.g. #APPDIR#/my_done	-	#APPDIR#/ic om/done
Recording Timeout	Waiting for recording to close. If this timeout expires and no more recording data has been received during it, the recording file is closed and moved to the Done Path directory.	sec. mss	3.000
Full Debug	Enabling detailed debugs about receiving and analyzing data.	YES /NO	NO

I/O tag configuration

Possible value types of I/O tag: **Txtl**, **Ci**.

The I/O tags can be configured on the station according to the following table:

Value type	I/O tag address	New value	Description
Txtl	IP_ADDR	New recording	The IP address of the sending repeater
Ci	SRC_SYSCODE	New recording	Stores the System Code of the sender (1-16382)
Ci	SRC_SITECODE	New recording	Stores the transmitters' Site Code (1-250)
Ci	SRC_PREFIXID	New recording	Stores the Prefix ID of the transmitter (1-30)
Ci	SRC_UNIT_ID	New recording	Stores the Unit ID of the transmitter (1-2000)
Ci	SRC_RPTR_NO	New recording	Stores the transmitter's Repeater No. (1-30)
Ci	DST_SYSCODE	New recording	Stores the System Code of the destination (1-16382)
Ci	DST_SITECODE	New recording	Stores the Site Code of the destination (1-250)
Ci	DST_PREFIXID	New recording	Stores the Prefix ID of the destination (1-30)
Ci	DST_UNIT_ID	New recording	Stores the Unit/Group ID of the destination (1-2000,2047)
Ci	CALL_TYPE	New recording	Call type (1-group call, 4-individual call)
Txtl	FILE_READY	End of recording	The name of the closed file in the Done Path directory
Txtl	ERROR	Error occurrence	Fatal error processing UDP packet, the packet is dropped
Txtl	WARNING	Warning occurrence	Minor error while processing UDP packet, processing continues

Literature

Changes and modifications

Document revisions

- Ver. 1.0 - September 9th, 2022 - Document creation.



Related pages:

[Communication protocols](#)