

**Partner: Crestron Electronics, Inc**  
**Model: C2N-IADS - CNXTA**  
**Device Type: Intercom**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	C2N-IADS Phone Interface v5.1
<b>CATEGORY:</b>	Intercom
<b>VERSION:</b>	5.1
<b>SUMMARY:</b>	Allows phone system to interface with the C2N-IADS intercom routing
<b>GENERAL NOTES:</b>	<p>This macro will work with the Crestron C2N-IADS and CNXTA telephone card. It will allow for intercom communications between an analog phone line (or extension) and touch panels, C2N-IIF Door Stations, audio sources and 2 "talk Only" outputs. The phone will be able to place a call to a room, group of rooms, audio output or listen to an audio source. If the phone system is included in a group (such as a door station call), the door station will be able to be answered by a phone extension.</p> <p>This module interacts with the following modules for a complete system:</p> <p><i>Must be used with C2N-IADS_C2N-IIF Interconnect Module v5.1.</i></p> <p>Multiple C2N-IADS Room Control v5.1 modules</p> <p>Multiple C2N-IIF Door Station v5.1</p> <p>C2N-IADS_C2N-IVDS Interface v5.1</p> <p>C2N-IADS Group Setup v5.1</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	C2N-IADS, CNXTA, 2-Series Processor

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**CONTROL:**

DTMF_X_DETECT (1 – 0, *, #) AUDIO_PATCH_ON_F OFF_HOOK_F DEVICE_READY	D	Inputs from the CNXTA card
DOOR_BELL	D	This input should be connected to the 'DoorBellBtn' output of the C2N-IIF device symbol. Use an 'or' if the phone system is to be able to answer more than one door station.
DOOR_BELL_PLAYING	D	This input should be connected to the 'WAV_Playing' output of the C2N-IIF device symbol. Use an 'or' if the phone system is to be able to answer more than one door station.
FROM_CONTROL_MODULE\$	S	Serial string from the required C2N-IADS_C2N-IIF Interconnect Module v4.

**FEEDBACK:**

ROOM_CALLED_IN_PRIV	D	This output will pulse if the called room is in privacy.
ROOM_CALLED_IN_DND	D	This output will pulse if the called room is in Do-Not-Disturb.
ROOM_CALLED_BUSY	D	This output will pulse if the called room is already in a call.
GROUP_CALLED_BUSY	D	This output will pulse if the selected group is already in use.
[SOURCE_FOR_ROOM_X] (1 – 22)	A	Analog value routed to the matching input on the C2N-IADS.
[SOURCE_FOR_OUTPUT_X] (23 – 24)	A	Analog value routed to the matching input on the C2N-IADS.
PHONE_ENABLE LINE_ENABLE AUDIO_PATCH_ON ON_HOOK PLAY	D	Routed to the corresponding inputs on the CNXTA card.
PHONE_MESSAGE_NUMBER	A	<p>Analog feedback to the 'phone_message_number' on the CNXTA card. The pre-programmed messages are set up as:</p> <ul style="list-style-type: none"> <li>1 – Room called is in privacy.</li> <li>2 – Room called is in Do Not Disturb.</li> <li>3 – That selection is busy</li> <li>4 – Welcome message (plays when the line connects)</li> <li>6 – Door Bell</li> <li>8 – Called/DND – This room was called while in 'Do-Not-Disturb'</li> </ul>

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PHONE_MESSAGE_VOLUME	A	Analog feedback to the 'phone_message_volume' on the CNXTA card.
TO_CONTROL_MODULE\$	S	Serial string to the required C2N-IADS_C2N-IIF Interconnect Module v4.

**PARAMETER:**

PHONE MESSAGE VOLUME	Percent	The volume level for the CNXTA.
ROOM X EXTENSION (1 – 21, 23, 24) INPUT X EXTENSION (23 – 30) GROUP X EXTENSION (1-5)	3 Digit Decimal	Select the extension number for each area that the phone system can call. NOTE: There is no 'ROOM 22 EXTENSION'. The phone system is room 22. Valid extension numbers are from 100d to 999d.

**TESTING:**

OPS USED FOR TESTING:	3.154_0322
SIMPL WINDOWS USED FOR TESTING:	2.07.24
CRES DB USED FOR TESTING:	18.0.8
SYMBOL LIBRARY USED FOR TESTING:	381
SAMPLE PROGRAM:	Crestron Intercom System Demo v5.1

REVISION HISTORY:	<p>V5.1 Version number change. No code change to this module.</p> <p>V5 Changed string parsing routine to improve speed and reliability.</p> <p>V4 Moved logic that was inside the folder 'Phone System Page' in the previous versions into the module since it is required for proper operation. Added the necessary inputs and outputs to accommodate the new logic</p>
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