ADAM Local / Remote Trunking
Setup Procedure

trunking.doc 10-9-00

The following procedure is for initial general set up of trunks in an ADAM system. Specific usage, cascading, fixing may be applied later by referring to the CStrunk User Manual.

Use Trunk Master firmware ver 7.2.5A (U9=ed01, U13=5402) or later **Do not use ver 7.2.7**.
Use CStrunk ver 7.2.1 or later.

Communication Port Setup

Run CStrunk from true DOS. This application **will not** run under Windows' DOS shell.

When you first run CStrunk, you will have to set the baud rate to 19.2K baud for communication with the Trunking Master Controller. You may also have to change the CStrunk COM port setting. CStrunk uses COM1 as the default port for communication with the Trunking Master Controller, with COM2 as the only alternate choice. (If your mouse is connected to COM1, it will not work when you start CStrunk.) To setup the COM port:

To change either the baud rate or the comm port setting, select the desired item, then press the SPACE BAR. (Or click on the desired item with the left mouse button.)

If selecting baud rate other than 19.2k, dip switches on octal UART (FC9589-IOU) in the Trunk Master Controller must be set accordingly. See dip switch table.

To activate the changes, press the ESCAPE key. (Or click on either item with the right mouse button.) After a few moments, the message "Uploading data" should appear in the lower-left corner of the CStrunk screen, and "On-line" should appear in the lower-right side of the screen. If this does not happen, the cable may be incorrectly wired. See cable wiring for further information.

Note: If you are using a mouse, you must exit CStrunk and restart the program to re-initialize the mouse. Press- the F2 key to open the File menu on the menu bar. Use the DOWN arrow key to select "Exit to DOS". Then, press the ENTER key. When you restart CStrunk, the mouse should be operational.

Check that both "File" and "Mode" are indicating "on-line". If not, recheck baud rate, comm port setting, and communication cable between PC and the Trunk Master for correct pin-out. (see diagram)

Assigning Trunked Intercom Names

Go to "Intercoms", then "Names" and create names for each of the intercoms used in the trunked system.

Next go to "Intercoms", then "Setup" and set the baud rate for each local intercom named to 38.4k. Remote intercoms must be set **only** to 9600. This sets the communication data rate for each intercom system connected to the Trunk Master.

Note: ADAM Master Controller cards must have dip switch 4 of S1 set to off for 38.4k baud. Also, note that newer versions of ADAM intercoms determine the ADAM-to-TM by selecting or clearing "Allow for remote trunk master" on the Options tab of the intercom reconfiguration dialog.

Now document actual hardware port numbers that the named computers are connected to on the Trunk Master Controller.

From the "Master" menu, select "Activate Chgs".

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Defining Trunks

From the “Trunks” menu, select “Defs for All” and select the first block of 50 trunk lines.

You can begin to configure a trunk by positioning the cursor in the "Port" column. You can then use the pick lists at the right side of the screen to select a port. The selected port will automatically be entered in the "Port" column, and the intercom system name will be entered in the "Intercom" column.

"Defining Trunks": If you have just defined an intercom, and you try to define trunks for it, CStrunk won't have any alphas for that matrix. You should go to Status / Intercom, and wait for the intercom to come up to date (e.g. report "OK ADAM"); then select Master / Open On-Line to refresh the alphas.

There will be two “Intercom” entries (one above the other) for each end of the trunk, as well as a corresponding port specific to each intercom named.

Repeat the same procedure for trunks 2 – x.

Next, under “file”, select “Set All Chg Flags” then go to “Master” and select “Activate Chgs”. This cannot be done on-line. This only applicable when editing a file.

For each intercom configured, allow space for about 20 spare trunks between each block of assigned trunks for future expansion.

Telebyte Converter

Connect T1+ and T1- from the ICP-97-TMX to the appropriate RS485 terminals on the Telebyte converter.

DTE / DCE switch may have to changed to enable data communication.

Master Controller Comm Port Connector Assignments

Trunked Matrices 1-8
(bottom card)

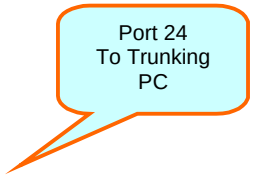
CONN	PIN +	PIN-	GND	COMM #	TYPE
J5	27	2	3	1	RS422
J5	30	5	28	2	RS422
J5	32	7	8	3	RS422
J5	35	10	33	4	RS422
J5	37	12	13	5	RS422
J5	40	15	38	6	RS422
J5	42	17	18	7	RS422
J5	45	20	43	8	RS422

Trunked Matrices 9-16
(middle card)

CONN	PIN +	PIN-	GND	COMM #	TYPE
J4	27	2	3	9	RS422
J4	30	5	28	10	RS422
J4	32	7	8	11	RS422
J4	35	10	33	12	RS422
J4	37	12	13	13	RS422
J4	40	15	38	14	RS422
J4	42	17	18	15	RS422
J4	45	20	43	16	RS422

Trunked Matrices 17-24
(top card)

CONN	PIN +	PIN-	GND	COMM #	TYPE
J3	27	2	3	17	RS422
J3	30	5	28	18	RS422
J3	32	7	8	19	RS422
J3	35	10	33	20	RS422
J3	37	12	13	21	RS422
J3	40	15	38	22	RS422
J3	46	21	22	23	RS232C



J3	49	23	48	24	RS232C

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Comm 23 / 24 Baud Rate Setting

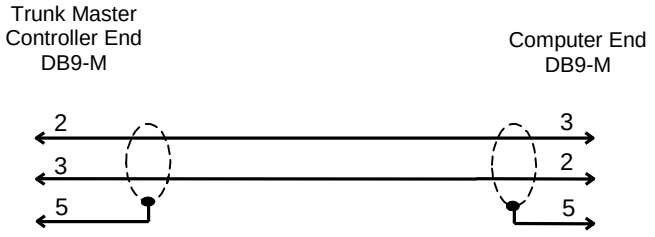
There are three (3) octal UART boards (FC-9589-IOU) stacked in the TM-9589 Trunk Master Controller. The bottom board is where the baud rate between the PC and Trunk Master are set. The factory default is 19.2kb. This setting may be changed to 38.8 for newer computers supporting faster communications by setting the dip switches on the bottom board as follows:

SW-1 on J5 BOARD

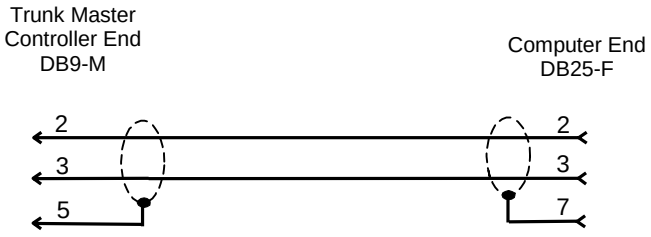
	COMM24			COMM23		
	Switch	**A**	**B**	**Switch**	**C**	**D**
* BAUD RATE	38.4	⇩	⇩	38.4	⇩	⇩
	19.2	⇩	⇧	19.2	⇩	⇧
	9600	⇧	⇩	9600	⇧	⇩
	2400	⇧	⇧	2400	⇧	⇧

⇧ = open
⇩ = closed

PC to Trunk Master Cable Pin-Out



9 Pin to 9 Pin



9 Pin to 25 Pin