



Connecticut Interoperable Communications Executive Committee

ADOPTED TECHNICAL STANDARD

SUBJECT: INTEROPERABLE CONVENTIONAL CHANNEL GATEWAY

ISSUE/REVISION DATE: Adopted February 16, 2016

BACKGROUND: A Conventional Channel Gateway (CCGW) has been installed at each primary Public Safety Answering Point (PSAP) in the State. This device allows for the connection of an audio resource at the PSAP to the Statewide Project 25 Network. This device improves interoperability by leveraging the use of existing resources (i.e., fiber-optic cable and CTS microwave system) to allow connectivity of these devices.

PURPOSE: The purpose of this document is to standardize connections to this device statewide.

STANDARD: The Conventional Channel Gateway (CCGW) is a device that allows for up to at least four (4) analog resources to be connected to the Statewide P25 Interoperability Network.

In order to effectively manage this resource, standardized connections must be used throughout the State.

Port 1: Reserved for console connection

Port 2: (available for assignment)

Port 3: (available for assignment)

Port 4: (available for assignment)

PORT 1: Console Connection: This connection will allow for basic interoperability between a local host agency's sources to any CCGW on the Statewide P25 Interoperability Network. The host agency will have the ability to patch local resources on their console to the State P25 Interoperability Network on an as needed basis. Request for an interoperable connection is made by calling the DESPP Communications Center @ 860 685-8190. For uniformity, this resource should be labeled "P25 PATCH" on the host agency console system.

PORTS 2-4: These ports are reserved for use by the local CCGW host agency to connect whatever analog resources the host may wish to make available on the network. Connections could include: a resource the host agency wishes to share, a resource the host agency needs for continuity of operation, a temporary console intercom and so on. These port shall remain disabled unless utilized in accordance with this standard.

Technical parameters are found in Appendix A.

CONNECTICUT INTEROPERABLE COMMUNICATIONS EXECUTIVE COMMITTEE
ADOPTED TECHNICAL STANDARD
INTEROPERABLE CONVENTIONAL CHANNEL GATEWAY

RECOMMENDED FOR ADOPTION:




Chairman, Connecticut Interoperable Communications Executive Committee

3/17/16
Date



Statewide Interoperability Coordinator

3/18/16
Date

APPROVED:


Deputy Commissioner
Division of Emergency Services and Homeland Security
Department of Emergency Services and Public Protection

21 MAR 16
Date

Connecticut Interoperable Communications Executive Committee

ADOPTED TECHNICAL STANDARD:

INTEROPERABLE CONVENTIONAL CHANNEL GATEWAY

APPENDIX A

TECHNICAL PARAMETERS

AUDIO:

Audio levels should be set:

TRANSMIT: "Average" audio should be set for -10dbm.

RECEIVE: "Average" audio should be set for -10dbm.

E/M LEADS:

Connection to either the "E" or "M" lead is to be through engineered circuits only.

NETWORK INTERFACE:

Please reference the diagram labeled "PSAP SITE, PB 1, CCGW #1 INPUT"

"RX AUDIO" is audio from the P25 network. "TX AUDIO" is audio to the P25 network.

CONNECTICUT STATE POLICE

SITE: PSAP REVISION DATE: 3/21/2013
 BLOCK: PB 1
 BLOCK NAME: CCGW #1 INPUT

CCGW, PORT 1, PIN 1	- RX AUDIO (+) PB 1 D 26 R	w/bl	1
CCGW, PORT 1, PIN 2	- RX AUDIO (-) PB 1 D 1 R	bl/w	2
CCGW, PORT 1, PIN 3	- E-LEAD PB 1 D 27 C	w/o	3
CCGW, PORT 1, PIN 4	- TX AUDIO (-) PB 1 D 2 T	o/w	4
CCGW, PORT 1, PIN 5	- TX AUDIO (+) PB 1 D 28 T	w/g	5
CCGW, PORT 1, PIN 6	- SIGNAL GROUND PB 1 D 3 C	g/w	6
CCGW, PORT 1, PIN 7	- M-LEAD PB 1 D 29 C	w/br	7
CCGW, PORT 1, PIN 8	- SIGNAL BATTERY PB 1 D 4 C	br/w	8
CCGW, PORT 2, PIN 1	- RX AUDIO (+) PB 1 D 30 R	w/s	9
CCGW, PORT 2, PIN 2	- RX AUDIO (-) PB 1 D 5 R	s/w	10
CCGW, PORT 2, PIN 3	- E-LEAD PB 1 D 31 C	r/bl	11
CCGW, PORT 2, PIN 4	- TX AUDIO (-) PB 1 D 6 T	bl/r	12
CCGW, PORT 2, PIN 5	- TX AUDIO (+) PB 1 D 32 T	r/o	13
CCGW, PORT 2, PIN 6	- SIGNAL GROUND PB 1 D 7 C	o/r	14
CCGW, PORT 2, PIN 7	- M-LEAD PB 1 D 33 C	r/g	15
CCGW, PORT 2, PIN 8	- SIGNAL BATTERY PB 1 D 8 C	g/r	16
CCGW, PORT 3, PIN 1	- RX AUDIO (+) PB 1 D 34 R	r/br	17
CCGW, PORT 3, PIN 2	- RX AUDIO (-) PB 1 D 9 R	br/r	18
CCGW, PORT 3, PIN 3	- E-LEAD PB 1 D 35 C	r/s	19
CCGW, PORT 3, PIN 4	- TX AUDIO (-) PB 1 D 10 T	s/r	20
CCGW, PORT 3, PIN 5	- TX AUDIO (+) PB 1 D 36 T	bk/bl	21
CCGW, PORT 3, PIN 6	- SIGNAL GROUND PB 1 D 11 C	bl/bk	22
CCGW, PORT 3, PIN 7	- M-LEAD PB 1 D 37 C	bk/o	23
CCGW, PORT 3, PIN 8	- SIGNAL BATTERY PB 1 D 12 C	o/bk	24
CCGW, PORT 4, PIN 1	- RX AUDIO (+) PB 1 D 38 R	bk/g	25
CCGW, PORT 4, PIN 2	- RX AUDIO (-) PB 1 D 13 R	g/bk	26
CCGW, PORT 4, PIN 3	- E-LEAD PB 1 D 39 C	bk/br	27
CCGW, PORT 4, PIN 4	- TX AUDIO (-) PB 1 D 14 T	br/bk	28
CCGW, PORT 4, PIN 5	- TX AUDIO (+) PB 1 D 40 T	bk/s	29
CCGW, PORT 4, PIN 6	- SIGNAL GROUND PB 1 D 15 C	s/bk	30
CCGW, PORT 4, PIN 7	- M-LEAD PB 1 D 41 C	y/bl	31
CCGW, PORT 4, PIN 8	- SIGNAL BATTERY	bl/y	32
		y/o	33
		o/y	34
		y/g	35
		g/y	36
		y/br	37
		br/y	38
		y/s	39
		s/y	40
		v/bl	41
		bl/v	42
		v/o	43
		o/v	44
		v/g	45
		g/v	46
		v/br	47
		br/v	48
		v/s	49
		s/v	50

PSAP SITE
 PB 1 BLOCK
 CCGW INPUT BLOCK NAME

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ORIGIN	DATE	DRAWN	DATE
TM	03/25/2013	TM	04/01/2013
DWG: PSAP CCGW		SHEET: 1 of 1	
TITLE: SITE: PSAP 1 3/21/2013 BLOCK: PB 1 BLOCK NAME: CCGW #1 INPUT			

