



**BUTLER REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM
800 MHz ADVISORY BOARD MEETING MINUTES**

January 27, 2022

LOCATION Butler County EOC

Meeting called to order by Chief Jones, Co-Chair at 1:32 PM.

BOARD MEMBERS					
Communications Representatives	Sheriff's Office	Capt. M. Franke	P	Commissioners	Ms. J. Boyko P
	Fire Chief's Assn.	Chief M. Mercer	P	Chiefs of Police Assn.	Chief J. Jones P
	Engineer's	Mr. S. Bressler	A		
	West Chester	Director D. Dick	P	Butler County	Lt. T. Langmeyer P
	Hamilton	Capt. T. Chenoweth	P	Oxford	Chief J. Detherage P
	Middletown	Major E. Crank	A	Fairfield	Manager J. Meyer P
	Trenton	Lt. D. Rosenfelder	P	Monroe	Mgr. M. McKinney P

ACTING BOARD

MEMBERS

**APPROVAL OF
MINUTES**

Motion to accept the minutes from the meeting on September 30, 2021: 1st. Dir. D. Dick
2nd. Chief J. Detherage **PASSED**

BRICS SYSTEM UPDATES

- Capt. Franke
 - 2021 Statistics- 9.2 million PTTs recorded on system
 - Motorola Depot
 - New radios and radios on End Of Life resulting in less radio repairs
 - Financial- \$221 in outstanding invoices currently
 - Battery procurement issues
 - BCRTA live with AVTEC console and new APX series radios
 - Desire to include RTA on tabletop Drill in the future per Capt. Franke
 - 2022 system upgrades-
 - Radio Aliases- BRICS will send inventory with alias and location prior to scheduling bi-annual maintenance. Radios must have a vehicle or person assigned and the alias must match the assignment.
 - XT Series end of life/ Authentication

SECRETARY UPDATES

- Tyler Blair, Secretary
 - No report

COMMITTEE REPORTS

- **PSAP**, Dir. D. Dick
 - N/A
- **LE**, Chief Jones
 - Took back comments on 09Law-16 for pursuit.
Tabletop to be considered in relation to handling of pursuits.
- **FIRE**, Chief Mercer
 - N/A
- **PLAIN TALK**,
 - N/A
- **SUBSCRIBER FUNDING/ STRATEGIC PLANNING**, Chief Mercer
 - N/A
- **HOSPITAL/HEMS**,
 - Still looking for a committee chair per Capt. Franke.

OLD BUSINESS

- Formalize BDA Policy. Motion by Dir. D. Dick to adopt the BDA Policy. Second by Chief J. Detherage

Vote - Franke YES, Boyko YES, Bressler ABSENT, JONES YES, Mercer YES, Dick YES, Langmeyer YES, Chenoweth YES, Detherage YES, Crank ABSENT, Meyer YES, Rosenfelder YES, McKinney YES.
MOTION CARRIED

NEW BUSINESS

- N/A

GOOD OF THE ORDER

- N/A
- The next meeting is March 24, 2022

Adjournment - Motion by Chief M. Mercer to close the meeting at 2:25 PM.

Respectfully Submitted,

Tyler Blair,
Secretary

Butler County Sheriff's Office
Technical Services Division
BRICS Support Unit



BRICS

Butler Regional Interoperable
Communications System

800MHz Advisory Board
January 27, 2022



Agenda

- Statistics
- Motorola Depot
- Financial Update
- Battery backorder/update
- BCRTA Radio/Avtec Console Purchase
- 2022 PM Schedule
- Radio Alias Discussion
- XT Series Radios
- System Updates
- Unication G4
- Secretary Report
- Committee Reports
- Old Business
- New Business
- Good of the Order
- Meeting Schedule

Statistics

2022 Jan-June

Radio PTTs

January

February

March

April

May

June

2022 July-September

Radio PTTs

July

August

September

October

November

December

2021 Jan-June

Radio PTTs

January 716,838

February 683,328

March 822,926

April 772,665

May 804,965

June 800,367

2021 July-September

Radio PTTs

July 795,894

August 839,841

September 772,067

October 787,742

November 719,031

December 714,124

2021

■ PTTs – 9,229,788

2020

■ PTTs – 8,786,996

2019

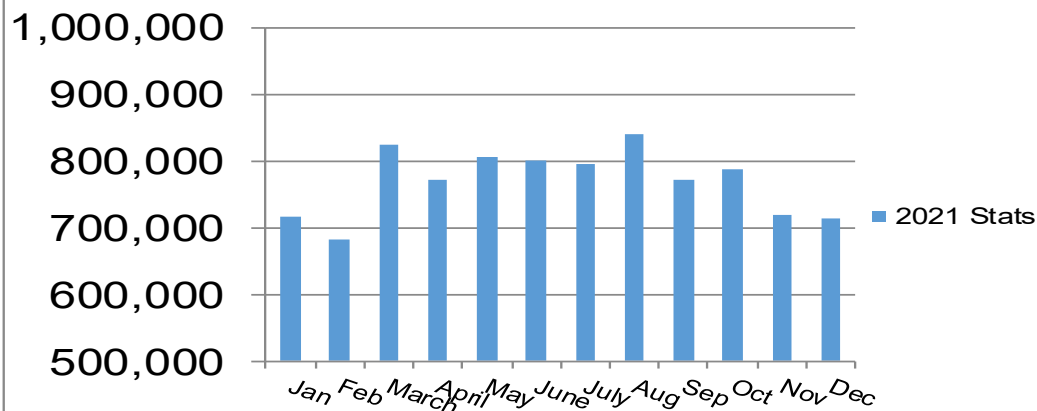
■ PTTs – 10,744,215

2018

■ PTTs – 10,895,204

- 3578 IDs in system
- 410 Talkgroups
- 10 Dispatch console sites
- 7 PSAPS
 - 4 Primary
 - 3 Secondary
- 7 Telephone sites
- 20 Channels

2021 Stats



Radio Repair - Motorola Depot

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Total Depot/Swap
Total Depot Repair - 2022														
Total Depot Repair - 2021	4	0	4	0	2	1	2	2	0	2	2	2	21	29
Total Radio Swap - 2021	0	1	0	0	0	0	0	1	3	2	1	0	8	
Total Depot Repair - 2020	3	2	2	0	0	1	0	1	0	5	1	2	17	43
Total Radio Swap - 2020	1	1	3	3	2	2	2	6	4	2	0	0	26	
Total Depot Repair - 2019	0	1	1	0	1	0	0	0	1	4	0	2	10	23
Total Radio Swap - 2019	0	1	2	0	1	0	2	0	3	1	1	2	13	
Total Depot Repair - 2018	9	2	9	1	2	0	3	2	0	0	2	2	32	70
Total Radio Swap - 2018					5	5	0	7	5	4	7	5	38	
Total Depot Repair - 2017	3	5	2	1	5	2	2	9	6	4	7	1	47	
Total Depot Repair - 2016	5	2	4	3	2	20	9	5	11	20	10	1	92	
Total Depot Repair - 2015	3	9	2	9	3	9	7	9	9	5	2	4	71	
Total Depot Repair - 2014	3	2	1	7	8	4	9	11	6	3	3	2	59	
Total Depot Repair - 2013	2	1	2	1	4	1	9	3	3	1	2	1	30	

Financial Update

8:53 AM
01/27/22

Butler County Sheriff's Office Overdue Invoices As of January 27, 2022

	Type	Date	Num	P. O. #	Terms	Due Date	Aging	Open Balance
Hamilton City Util 300009								
	Purchase	11/23/2021	5475		30 Days	12/23/2021	35	95.00
	Purchase	11/23/2021	5476		30 Days	12/23/2021	35	51.50
Total Hamilton City Util 300009								146.50
Mercy Hospital Fairfield 300024								
	2021 Annual Maint	07/19/2021	5335		30 Days	08/18/2021	162	75.00
Total Mercy Hospital Fairfield 300024								75.00
Total Overdue								221.50

January 27, 2022

APX6000 XE Battery



IMPRES™2 Li-Ion Battery 3100 mAh, IP68, HAZLOC, -20C

ITEM # PMNN4547A

Backordered | Item(s) expected to ship: 17-February-2022



IMPRES™2 Li-Ion Battery 3400 mAh, IP68, HAZLOC, -20C

ITEM # PMNN4504A

Backordered | Item(s) expected to ship: 17-February-2022



BCRTA System Update

- Replaced XT Series radios with APX Models
- AVTEC Console



Bi-Annual System Upgrade

- Motorola System
2021 Updates
 - Currently scheduled
May of 2022



Radio Alias Discussion



XT Series

- Atrium Ed
- BC EMA
- Cincinnati State
- College Corner FD
- Community First
- Kettering – Hamilton ED
- Mercy Fairfield ED
- Metro Parks (partial)
- Middletown PW
- Morgan Twp FD
- Morgan Twp PW
- New Miami FD
- Oxford FD
- Oxford PW
- Oxford Twp PD
- Oxford Twp PW
- Reily Twp FD (partial)
- Ross Twp FD
- Ross Twp PD
- Seven Mile FD
- Seven Mile PD (partial)
- St. Clair Squad
- UC Health WC ED



System Updates

- Motorola Authentication
 - TSB distributed to agencies
- XT Series End of BRICS Repairs

Unication G4 Pagers

- Total of 207 G4 receivers on our system
 - All department using G4s in combination with Minitors that 9COM dispatches for.
- 34 G4s added in 2021
- 24 purchased by College Corner in 2022
- 5 G4s currently on order





Secretary Report

January 27, 2022



Committee Reports

- PSAP Committee
- Law Communications Committee
- Fire Communications Committee
- Plain Language Committee
- Subscriber Funding/ Strategic Planning
- Hospital/HEMS Communications Committee



Old Business

- Finalize BDA Policy



New Business

January 27, 2022



Good Of The Order



Meeting Schedule

- Schedule:

- ☐ January

- ☐ March

- ☐ May

- ☐ July

- ☐ September






- Next meeting

- ☐ March 24, 2022 @ 1:30 PM



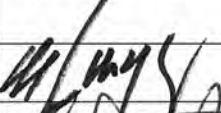


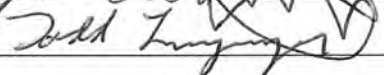

BUTLER COUNTY 800 MHZ RADIO ADVISORY BOARD

Date: January 27, 2021

Location: EOC

REPRESENTING	NAME	SIGNATURE
Sheriff's Office	Capt. M. Franke	
Commissioner's	Mr. D. Dixon	
Engineer's	Mr. S. Bressler	
Fire Chiefs Assn.	Chief M. Mercer	
Chiefs of Police Assn.	Chief J. Jones	

COMMUNICATION'S REPRESENTATIVES

Fairfield	Mgr. J. Meyer	
Hamilton	Capt. T. Chenoweth	 561
Middletown	Major E. Crank	
Monroe	Mgr. M. McKinney	
Oxford	Chief J. Detherage	
Sheriff's Office	Lt. T. Langmeyer	
Trenton	Lt. D. Rosenfelder	
West Chester	Dir. D. Dick	

[illegible]

Butler County 800 MHz Radio Communications System Bi-Directional Amplifier (BDA) Policy

This policy outlines requirements and procedures to be followed to install and use a BDA to amplify frequencies used on the Butler County 800 MHz Radio Communications system. It refers to FCC rules and the Ohio Fire Code. Any customer or vendor installing a BDA on the Butler County 800 MHz Radio Communications system should also refer to the FCC rules, Fire Codes, and local building codes to ensure compliance.

Licensee Consent is Required – Rule 90.219

- The FCC requires that non-licensees who seek to operate signal boosters must obtain the consent of the licensee[s] whose signals they intend to amplify. Consent will be provided as a Retransmission Authorization, which the FCC requires be kept on file for presentation upon request of the FCC or licensees.

FCC Signal Booster Classifications

- Class A: Designed to retransmit signals on one or more specific channels. Also known as a “channelized” BDA.
- Class B: Designed to retransmit any signals within a wide frequency band. Also known as a “wideband” BDA.

Class B Signal Booster Registration

- The FCC requires that both new and existing Class B signal boosters (wideband BDA's) be registered through the FCC Signal Booster Registration website at: www.fcc.gov/signal-boosters/registration. Any Class B signal boosters not registered after Nov. 1, 2014 will be subject to FCC enforcement action.

Signal Booster Technical Requirements

- The Signal boosters must be capable of amplifying APCO Project 25 signals.
- Signal boosters must be capable of amplifying 700 MHz Public Safety Narrowband frequencies (763-775 MHz / 793-805 MHz).
- Signal boosters must be capable of amplifying 800 MHz NPSPAC Band, 800 MHz non-NPSPAC Public Safety/BILT/Non-Cellular SMR Band, 800 MHz Expansion Band, and 800 MHz Guard Band frequencies (806-817 MHz / 851-862 MHz).
- Signal boosters must comply with all applicable fire and electrical codes.
- For all BDA's that are operating on the Butler County 800 MHz Radio Communications system, Fire Code Officials are not permitted to waive the hardening requirements or the battery backup requirements of the Fire Code.

- It is recommended to keep the number of BDA's in a close area to a minimum, to mitigate the possibility of interference.

Butler County 800 MHz Radio Communications System BDA Recommendation

- Butler County recommends Class B BDAs that cover the 700 & 800 MHz frequency bands listed above under Technical Requirements. Once installed, a Class B BDA does not have to be re-programmed or re-configured whenever frequencies are added or changed on the Public Safety radio system on which it operates.

Section 510 of the Ohio Fire Code requires fire code officials to be capable of providing, upon request, specific technical information and requirements pertaining to their emergency responder communications system. The BRICS Office is the repository for this information for all its members. Local fire authorities may request this technical information by emailing to: radiohelp@butlersheriff.org

Additionally, following are the Five Steps to obtain licensee consent and meet FCC regulations for use of signal boosters amplifying Butler County 800 MHz Radio Communications System frequencies:

1. You may submit the [Retransmission Authorization Form](#) to request Butler County 800 MHz Radio Communications consent to use of the proposed signal booster.
2. Butler County will review the submitted form and reserves the right to request additional information regarding the proposed signal booster.
3. Upon approval of the proposed signal booster, Butler County will send the approved Retransmission Authorization form back to the applicant. Per FCC regulations, this Retransmission Authorization is required to be maintained by the signal booster operator, to be presented to an FCC representative or a licensee investigating interference.
4. For Class B signal boosters, the requestor is required to comply with FCC regulation 47CFR90.219 by registering the approved device through the FCC signal booster registration website: www.fcc.gov/signal-boosters/registration.
5. Upon successful registration, the requestor must provide the FCC Booster ID of this device to Butler County as proof of registration. This information can be emailed to radiohelp@butlersheriff.org

RETRANSMISSION AUTHORIZATION

SECTION 1: Requesting Party Information

I hereby request retransmit authorization via BDA for in-building public safety radio system coverage, according to the information below:

Requestor Name:

Requestor Email:

Phone Number:

Submittal Date:

SECTION 2: Information to be provided by Building Owner or Designee

1. Building Owner name:
2. Building Owner phone:
3. Name of Building:
4. Building Address:
5. Building Contact Name:
6. Contact Phone:
7. Contact Email:
8. Emergency Contact Name:
(Bldg Contact, NOT contractor contact)
9. Emergency Contact Phone (24h):
(Bldg Contact NOT contractor contact)
10. Location of equipment in building (floor and room):
11. Designed By:
12. Installed By:
13. Tested By:
14. BDA mfgr/model:
15. Antenna type/mfgr/model:
16. Antenna gain (dBd):
17. ERP to donor site (dBm):
18. Antenna coordinates (NAD83):
19. Antenna height above ground (feet):
20. Antenna Height Above Mean Sea Level (amsl):
21. Projected signal level at donor site (-dBm):
22. Date to be commissioned (first turned on):

PE or GROL
Number:
(required)

SECTION 2: Information to be provided by Building Owner or Designee(Continued)

23. Broadband Channelized

24. How many channels:

25. Antenna azimuth (degrees true):

26. Licensed call letters to be rebroadcast:

SECTION 3: Request for Authorization Process

1. Completed form can be emailed to radiohelp@butlersheriff.org
2. The [BRICS](#) Office will review the request and either approve or disapprove the BDA request.
3. [Butler County \(BRICS\)](#) then sends an approved and executed Retransmission Authorization form back to the applicant. If disapproved a reason will also be provided.
4. Upon completion, Class B BDAs must be registered with the FCC and the registration number forwarded to [BRICS](#).

NOTE REGARDING INITIAL ACTIVATION OF BDA SYSTEMS

Coordination with [BRICS](#) is required before a new BDA system is turned on for the first time. Customers are asked to please call the [BRICS](#) help desk at [\(513\) 785-1299](tel:5137851299) **at least one week prior** to initial system activation in order to coordinate this activity.

If at any time during or after installation, the BDA system negatively impacts the [radio](#) network, the building owner will be required to immediately turn off the malfunctioning BDA system until correct functioning is restored. For ALL BDA's that are connected to [BRICS/MARCS](#), Fire Code Officials are not permitted to waive the hardening requirements and the battery backup requirements of the standard.

SECTION 4: Signatures

A copy of this signed authorization will be kept on file at the [BRICS Office, 1810 Princeton Rd., Hamilton, OH 45011](#)

The parties have signed below as evidence of their agreement with the terms of this authorization:

Requestor Name: _____ Requestor Title: _____

Requestor Signature: _____ Date: _____

[BRICS](#) Office Use Only

Approving Authority Name: _____ Approving Authority Title: _____

Approving Authority Signature: _____ Date: _____

FCC Signal Booster Registration:
(obtained by owner and sent to
[BRICS](#))