

**RESOLUTION
ROCK COUNTY BOARD OF SUPERVISORS**

Kathren Sukus
INITIATED BY



Kathren Sukus, Director
DRAFTED BY

Public Safety and Justice
SUBMITTED BY

May 11, 2021
DATE DRAFTED

AUTHORIZATION FOR CIELO MICROWAVE RADIO UPDATES

- 1 **WHEREAS**, the 911 Communications Center is responsible for the continuous operation of the public safety radio
- 2 system infrastructure in Rock County; and,
- 3
- 4 **WHEREAS**, the existing Cielo microwave radios for the public safety radio system are thirteen years old and
- 5 require equipment updates; and,
- 6
- 7 **WHEREAS**, the links between County A tower to the Rock County SO tower & County A tower to the Beloit
- 8 Memorial Hospital tower will be updated this year; and,
- 9
- 10 **WHEREAS**, General Communications, Inc. of Madison, Wisconsin is the maintenance provider for the Rock
- 11 County public safety radio system infrastructure and an authorized Cielo reseller and service provider for our area;
- 12 and,
- 13
- 14 **WHEREAS**, total cost for equipment, tower climbing and labor for this project is \$28,870; and,
- 15
- 16 **WHEREAS**, this project was budgeted and approved for 2021; and,
- 17
- 18 **NOW, THEREFORE, BE IT RESOLVED** by the Rock County Board of Supervisors duly assembled this
- 19 27th day of May, 2021 that a contract be awarded to General Communications, Inc. of
- 20 Madison, Wisconsin, in the amount of \$28,870 to coordinate and implement this project.

Respectfully submitted,

Public Safety and Justice Committee

/s/Mary Beaver
Mary Beaver, Chair

/s/Brian Knudson
Brian Knudson, Vice Chair

/s/Ronald Bomkamp
Ronald Bomkamp

/s/Danette Rynes
Danette Rynes

/s/Jacob Taylor
Jacob Taylor

LEGAL NOTE:

The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. In addition, sec. 59.52(29), Wis. Stats., requires the project to be let to the lowest responsible bidder. General Communications is the sole source provider for Cielo.

s/Richard Greenlee

Richard Greenlee
Corporation Counsel

FISCAL NOTE:

This project was included in the 2021 budget and is being funded by sale tax revenue.

/s/Sherry Oja

Sherry Oja
Finance Director

ADMINISTRATIVE NOTE:

Recommended.

/s/Josh Smith

Josh Smith
County Administrator

EXECUTIVE SUMMARY

Microwave radio links are the backhaul of the Rock County public safety radio system. The microwaves provide a network connection to the various tower sites that allows the radio equipment to be connected together vs. having T1 lines or costly fiber connections. Therefore they are an important part of the current radio system infrastructure.

The Communications Center has six Cielo microwave radio units that are thirteen years old and in need of updating. We will be updating two this year:

- County A to Sheriff's Office link
- County A to Beloit Memorial Hospital link

The four remaining Cielo units located at Beloit Mill Street, Clinton, Edgerton and Milton will be placed in the Communications Center's 2022 budget for updating.

General Communications is the current public safety radio system maintenance provider and Cielo service provider. The total cost of the upgrade, tower work and installation labor is \$28,870 for both units. This project was budgeted for in the Communications Center's 2021 budget and the funds are available.



May 6, 2021

Rock County Communications
3636 N County Highway F
Janesville, WI 53545

RE: Two Microwave path hardware Updates

The following is our quote to update two microwave path one from the County A tower to sheriff's Department tower the other from the County A tower to Beloit Memorial Hospital.

Rock County 911 Update Two Cielo Microwave Paths

Qty	Description	Price	Ext Price
4	SkyLink CG2X GigE Wideband Enabled IDU (Payload Capacity Key Required)	\$1,550.00	\$6,200.00
4	SkyLink CG2X IDU Initial Payload Capacity: Up to 100 Mbps	\$575.00	\$2,300.00
2	External 16 E1/T1 Multiplexer for SkyLink CG2X IDU	\$1,137.50	\$2,275.00
2	Fiber Patch Cables: Duplex, Multi-Mode 62.5/125, 1 meters (Note 2)	\$35.00	\$70.00
4	SFP Optical Module, 1.25 Gbps, Multi-Mode/850nm, supports interconnection up to 500 meters (Note 1)	\$131.25	\$525.00
1	ODU: 18G Wideband, T-R 1560, SP+, Band C, Tx Low (17700 - 18140 MHz), WR	\$3,062.50	\$3,062.50
1	ODU: 18G Wideband, T-R 1560, SP+, Band C, Tx High (19260 - 19700 MHz), WR	\$3,062.50	\$3,062.50
1	ODU: 11G Wideband, T-R 490, SP+, Band A, Tx Low (10700 - 10890 MHz), WR	\$3,062.50	\$3,062.50
1	ODU: 11G Wideband, T-R 490, SP+, Band A, Tx High (11200 - 11390 MHz), WR	\$3,062.50	\$3,062.50
4	-48 VDC/120 Watts supply, 110 VAC input, DIN rail mount, 3' AC cord & 6' DC hook up wire	\$112.50	\$450.00
16	Tower Labor	\$150.00	\$2,400.00
16	Gencomm Labor	\$150.00	\$2,400.00
		Total	28,870.00

Note 1 SFP modules required is 2 per terminal.

Note 2 Fiber cable required for connection between the IDU and EMMI Module

If you have any questions, please email rwestgard@gencomm.com or call 608-310-7127.

Sincerely,

Rich Westgard

Rich Westgard
Service Manager

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Madison, WI 53719
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4.D.2(5)



10 May, 2021

Subject: Authorized Dealer and Reseller

Cielo Networks has certified General Communications (GenComm), located at 2880 Commerce Drive, Madison, WI 53719 as a Value Added Reseller and dealer for Cielo Networks, Inc. products. Additionally, General Communications (GenComm) is the only authorized reseller of Cielo Network products located in Wisconsin. Gencomm has teamed up with Cielo Networks to support the Rock County Microwave Network over the past 10 plus years. Gencomm personnel are also qualified installers and technicians for all Cielo Networks microwave products.

Please feel free to contact me if there are any questions concerning General Communications certifications.

Respectfully,

Sale Lilly

Director of Marketing
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