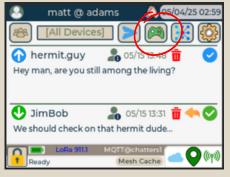
## Using Commands in Blackout Comms



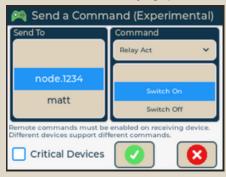
This is an **experimental** feature in Blackout Comms, which allows you to interact with other devices in your cluster. **Commands are only supported in cluster mode.** This forces asymmetric encryption, ECDSA, and chain of trust protection to ensure commands are only issued by trusted devices.

#### **Touch the Command Button**



#### Select a Device & Command

Devices will have varying options





#### **Security and Delivery**

All commands are sent as on-cluster direct messages. This means commands have the following protections:

- Asymmetric Encryption
- ECSDA Digital Signatures
- · Frequency Hopping
- Signed delivery confirmation
- Direct and mesh capable



#### **Growing Set of Supported Sensors / Actors**

Expect to see more developments in this area. The options for commands will vary, based on the capabilities of any device you select.

Currently all devices support a base set of commands and configurations (unless disabled).

Additionally, links/nodes can be modified/built to support relay switching and proximity sensing.

#### **How Commands are Organized**

Query	Retrieve information from a remote device
Config	Adjust a configuration of the remote device
Act	Cause something to happen on the remote device

# Reminder: This is experimental and could be dangerous if misused or if bugs are present!

- Use these features at your own risk
- Do not rely these features for personal safety (such as detecting intruders)
- Do not attempt to build supported devices if you are not familiar with safely building electronics
- You are responsible for your own safety (and the safety of others around)
- Commands may arrive more than once under certain circumstances!



## **Blackout Comms Commands**

Visit <u>chatters.io</u> or <u>offgridcomms.club</u> for relay node assembly instructions

Reminder: This is experimental and could be dangerous if misused or if bugs are present!

### **Basic**

Supported on all devices (unless user-disabled)

Query	
Report Uptime	Report time since last reboot
Report Neighbors	Send list of devices currently within LoRa range
Report Battery	Send battery charge level
Show Path to Me	Show optimal mesh path from the selected device to yours

Config	
Enable/Disable GNSS	Whether to use and share location (GPS)
Enable/Disable Time Cast	Whether to cast time on center frequency
Enable/Disable Mesh	Whether to broadcast pings and participate in mesh
Enable/Disable Display	Whether to power the display (off can save battery)
Update Time Zone	Push your current Time Zone to the selected device
Update DST	Enable/Disable daylight savings on selected device
Wipe Device!	Factory resets selected device (only root can send)
Enable/Disable Time Lock	Ignore GPS and other external time sources

Proximity Sensing		
Query		
Last Motion	Report last motion sensed	
Config		
Notify of Motion	Broadcast message if presence sensed	
Relay/Notify Off	Turn off automatic notifications/ relay triggering	
Reset: 5 Min	After presence sensed, suppress notify for 5 min	
Reset: 10 Min	After presence sensed, suppress notify for 10 min	
Reset: 30 Min	After presence sensed, suppress notify for 30 min	
Motion!= Relay	Disable presence-triggered relay (if enabled)	
Act		
Motion == Relay	Close relay for 5 seconds when presence sensed	

