



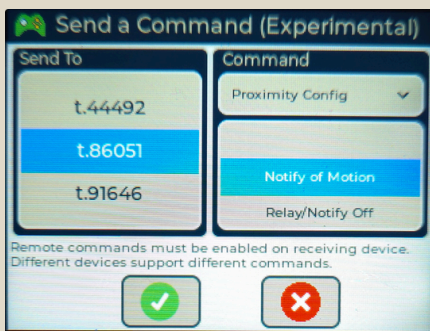
Using Commands in ChatterBox

This is an **experimental** feature in ChatterBox, 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

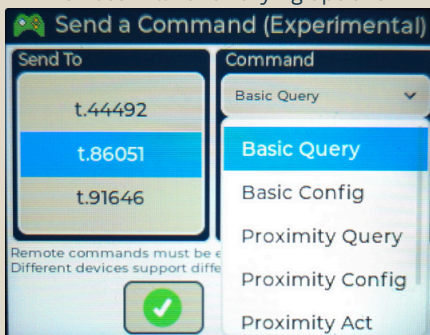


Select a *Device*

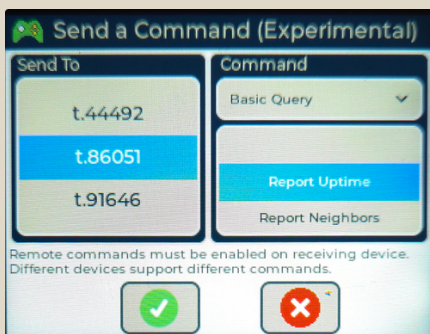


Choose a *Command Type*

Devices will have varying options



Choose a *Command* & Send It



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, 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!**




ChatterBox Commands


Visit chatters.io or offgridcomms.club for relay node assembly instructions

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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 |


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 |

Relay Switching

|  Act | |
|---|----------------------------|
| Switch 5 Sec | Closes relay for 5 seconds |
| Switch On | Closes relay (turns on) |
| Switch Off | Opens relay (turns off) |

