

# Features

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# 1 Features

**Obsolete** - This page has obsolete information that is likely no longer relevant and will be deleted.

Allstar/app\_rpt is a complete repeater (or simplex node) controller with VoIP linking and more features than most repeater controllers.

- Asterisk/app\_rpt can run on many single board computers including the Raspberry Pi or as a Virtual Machine in a data center.
- Multiple repeaters (nodes) may be interfaced at one site while only running one instance of Asterisk/app\_rpt on one computer.
- Ad-hoc connectivity. Any node can connect with any other node.
- Any number of nodes can connect to a node (subject to bandwidth limitations) forming a hub.
- Voting and simulcast over IP networks with Allstar Radio Thin Client Module (RTCM).
- All of the security features in Asterisk are at your disposal (Public/Private keys, IP address filtering)
- No central authority for authorizing connections. You are free to use our Allstar Link, or set up a your own completely isolated network of systems.
- Registration-based authentication method for Allstar nodes to handle Internet connections with dynamic IP addresses
- The ability to remotely execute a DTMF command on any node from any other node.
- Multiple hardware interfaces supported including the Quad Radio PCI card (EOL), the CM1x (USB), WM5102 (RPi), TLV320 (RPi) and RTCM.
- MDC-1200<sup>1</sup> support and integration
- Audio Filters<sup>2</sup> - Optional filters for making the audio wider on both the lower and upper frequency limit.
- Autopatch, and Reverse Autopatch over traditional landlines or through a VoIP service provider. VOX-based or full duplex.
- VHF/UHF remote base operation using the TM-271A, Kenwood TMG-707A, Motorola Syntor X and others.
- HF remote base operation using the Yeasu FT-897 or ICOM IC-706 all-mode radios.
- Secure remote base access using individual user logins to prevent unauthorized access.
- Interoperability with Echolink, DMR and D-Star also possible.
- Control and access to the radio via telephone dialup.
- SIP and/or IAX for soft phone access to nodes.

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1 <https://wiki.allstarlink.org/wiki/MDC-1200>

2 [https://wiki.allstarlink.org/wiki/Audio\\_Filters](https://wiki.allstarlink.org/wiki/Audio_Filters)

- iaxRPT soft dispatch console for Windows. Android IAXRPT for Android phones and tablets.
- Facilities to integrate with existing addressable full duplex RF linked systems.

## 1.1 Contributors

- N8EI<sup>3</sup>
- This page was last edited on 24 October 2024, at 12:39.

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<sup>3</sup> <https://wiki.allstarlink.org/index.php?title=User:N8EI&action=edit&redlink=1>

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Version 3, 29 June 2007

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