

## README: Node-RED for groov Box R2

December 9, 2016

The open-source software Node-RED is included in the GROOV-AR1 groov Box. Also included are Node-RED nodes for Opto 22 SNAP PAC controllers. A tool called Node-RED Admin helps you create and debug your Node-RED project, back it up and restore it, and administer security certificates. For information on nodes and more, see [developer.opto22.com](http://developer.opto22.com).

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### Important: Installation

Node-RED R2 comes in a groov Admin file, so you'll be updating groov Admin.

1. Log into [manage.groov.com](http://manage.groov.com) and download the Node-RED Update file for your groov Box.
2. Log into your groov Box, switch to groov Build, and choose Configure > groov Admin.
3. In the Quick Start menu, click **Update groov Admin**.  
The update process may take several minutes. Be patient and don't click away from this page until you see the success message.
4. When the success message appears, click "Click here to restart now." Wait while the Box restarts. (If you can see the Box, wait until the SYS LED stops flashing.)

NOTE: Your groov Box must be restarted for the update to take effect. While the groov Box is restarting, all of your users will be disconnected, and you will not be able to continue working in groov.

### Questions

If you have questions, see [How to Get Help](#).

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## Node-RED for groov Box R2

December 9, 2013

Improves security.

### How to Get Help

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If you have any questions about using Node-RED in the groov Box, see the [groov Box User's Guide](#) (in groov Build, choose Help > groov Box User's Guide). If you don't find the answers there, you can call, fax, or e-mail Opto 22 Product Support. Hours are Monday through Friday, 7 a.m. to 5 p.m. Pacific Time.

Phone: 800-TEK-OPTO (800-835-6786) or 951-695-3080

Fax: 951-695-3017

Email: [support@opto22.com](mailto:support@opto22.com)

Opto 22 website: [www.opto22.com](http://www.opto22.com)

When calling for technical support, be prepared to provide the following information about your system to the Product Support engineer:

- Version information for *groov* and *groov* Admin
- A description of your system equipment:
- Computer CPU type, speed, memory, and operating system
- A description of your Setup and Configuration: how it is connected, the purpose of each device, external connections, and networks
- Specific error messages or other diagnostic indications