

# BGP Use Cases

## Contents

- [What is implemented/supported in ODL BGP](#)
- [How to configure ODL BGP](#)
  - [How to configure and use BGP segment routing](#)
  - [How to configure and use BGP Flows Specification](#)
  - [How to configure TCP-MD5 password for BGP](#)
- [How to view BGP data](#)
- [How to inject my routes and propagate them to the network](#)
- [I want to write a new extension to BGP](#)
- [I want to know how RFC<number> is implemented in ODL](#)
- [I want to see/use BGP session statistics. I want to close BGP session manually.](#)
- [I have an issue with ...](#)

## What is implemented/supported in ODL BGP

List of every RFC or draft implemented/supported can be found in release notes for your particular release. Check [main site](#) for latest release notes.

## How to configure ODL BGP

[User guide](#) should resolve all your problems with BGP configuration.

## How to configure and use BGP segment routing

Segment routing for BGP does not require any special configuration. If you have linkstate extension configured (which you have by default), BGP-SR is configured and supported implicitly. If you want to test it, insert routes with BGP-SR tlvs to ODL or command the router to do so.

## How to configure and use BGP Flows Specification

BGP Flow specification does not require any user configuration. It is configured in ODL out-of-the-box, meaning ODL will send flowspec capability by default. If you want to test it, insert flowspec routes to ODL or command the router to do so.

## How to configure TCP-MD5 password for BGP

Here you can find a [guide](#) on how to configure TCP-MD5 in BGP.

## How to view BGP data

There are two RESTCONF pages that will show you learned BGP topology. You can learn about how to access them in this [guide](#).

## How to inject my routes and propagate them to the network

First, you need to configure special type of BGP peer - an application peer. [Here](#) is how you do it. Then you need to insert the routes, using [this input](#) as an example.

## I want to write a new extension to BGP

Currently ODL BGP has two BGP extensions implemented, *linkstate* and *flowspec*, so if you want to start creating your own, check the code for these two extensions as well as this [tutorial](#).

## I want to know how RFC<number> is implemented in ODL

[Developer guide](#) should be your start and mandatory reading if you want to know how [BGP](#) is implemented in detail.

## I want to see/use BGP session statistics. I want to close BGP session manually.

Here is a list of [statistics](#) and how to view them as well as how to manipulate with the BGP session.

## I have an issue with ...

If you encounter something that does not match provided documentation, consult [this troubleshooting site](#).