

mlxsw devlink support

This document describes the devlink features implemented by the `mlxsw` device driver.

Parameters

Generic parameters implemented

Name	Mode
<code>fw_load_policy</code>	<code>driverinit</code>

The `mlxsw` driver also implements the following driver-specific parameters.

Driver-specific parameters implemented

Name	Type	Mode	Description
<code>acl_region_rehash_interval</code>	<code>u32</code>	<code>runtime</code>	Sets an interval for periodic ACL region rehashes. The value is specified in milliseconds, with a minimum of 3000. The value of 0 disables periodic work entirely. The first rehash will be run immediately after the value is set.

The `mlxsw` driver supports reloading via `DEVLINK_CMD_RELOAD`

Info versions

The `mlxsw` driver reports the following versions

devlink info versions implemented

Name	Type	Description
<code>hw.revision</code>	<code>fixed</code>	The hardware revision for this board
<code>fw.psid</code>	<code>fixed</code>	Firmware PSID
<code>fw.version</code>	<code>running</code>	Three digit firmware version

Driver-specific Traps

List of Driver-specific Traps Registered by `mlxsw`

Name	Type	Description
<code>irif_disabled</code>	<code>drop</code>	Traps packets that the device decided to drop because they need to be routed from a disabled router interface (RIF). This can happen during RIF dismantle, when the RIF is first disabled before being removed completely
<code>erif_disabled</code>	<code>drop</code>	Traps packets that the device decided to drop because they need to be routed through a disabled router interface (RIF). This can happen during RIF dismantle, when the RIF is first disabled before being removed completely