



GPONIF Commands

Revision History

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CPE-AN1200-R	07/17/14	Initial release

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About This Document

Purpose and Audience

This Application Note documents the GPONIF Library API and user commands.

It is intended for software engineers.

Acronyms and Abbreviations

In most cases, acronyms and abbreviations are defined on first use.

For a comprehensive list of acronyms and other terms used in Broadcom documents, go to:

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GPONIF Library API

int gponif_init(void);

- Open the socket to ENet driver.
- Returns 0 on success; a negative value on failure.

void gponif_close(void);

- Close the socket.

int gponif_create(char *ifname);

- Create a GPON virtual interface.
- Inputs: ifname = the name for the GPON interface. If not specified, a name of gponXX will be assigned, where XX is the next available number.
- Returns 0 on success; a negative value on failure.
- The max number of GPON virtual interfaces is limited to 32.

int gponif_remgem(char *ifname, unsigned int gem_map);

- Remove one or more gem ids from the interface.
- Returns 0 on success; a negative value on failure.
- This API is retained only to provide backward compatibility with the BCM6816.
- Customers who are integrating the BCM6818 are recommended to use the gponif_remgemidx() function.

int gponif_addgem(char *ifname, unsigned int gem_map);

- Add one or more gem ids to the interface.
- Returns 0 on success; a negative value on failure.
- This API is retained only to provide backward compatibility with the BCM6816.
- Customers who are integrating the BCM6818 are recommended to use the gponif_addgemidx() function.

int gponif_remgemidx(char *ifname, unsigned int gemidx);

- Remove gem idx from the interface.
- Returns 0 on success; a negative value on failure.

int gponif_addgemidx(char *ifname, unsigned int gemidx);

- Add gem idx to the interface.
- Returns 0 on success; a negative value on failure.

int gponif_setmcastgem(unsigned int gem_id);

- Set multicast gem id to the interface.
- Returns 0 on success; a negative value on failure.

int gponif_get_ifname(const unsigned int gem, char *ifname);

- Get the name of the interface that contains the gem id.
- Returns 0 on success; a negative value on failure.

int gponif_get_number_of_gems(const char *ifname, unsigned int *gem_num);

- Get the number of gems that belong to the given interface.
- Returns 0 on success; a negative value on failure.

int gponif_show(char *ifname);

- Show the GPON interface details.
- Returns 0 on success; a negative value on failure.

int gponif_show_all(void);

- Show the details of all GPON interfaces.
- Returns 0 on success; a negative value on failure.

int gponif_delete(char *ifname);

- Delete the given GPON interface.
- Returns 0 on success; a negative value on failure.

int gponif_delete_all(void);

- Delete all GPON interfaces.
- Returns 0 on success; a negative value on failure.

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