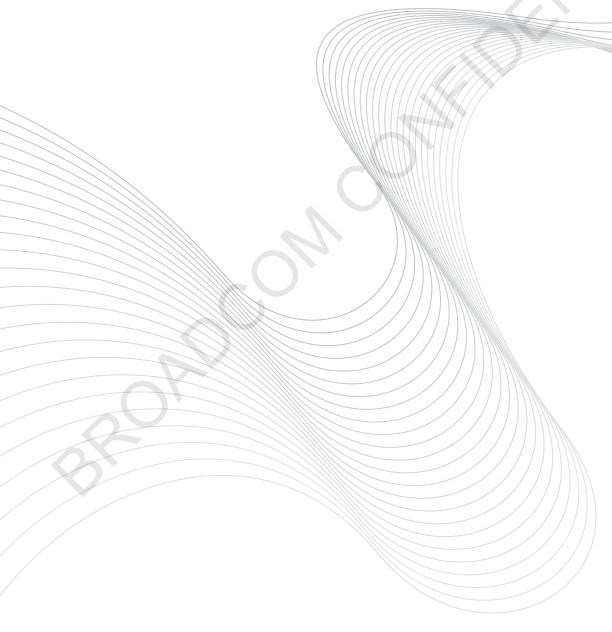


# **GPONIF Commands**



# **Revision History**

Revision	Date	Change Description
CPE-AN1200-R	07/17/14	Initial release

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CPE Application Note About This Document

#### **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: http://www.broadcom.com/press/glossary.php.

# **Technical Support**

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CPE Application Note GPONIF Library API

# **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 gemldx);

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

### int gponif\_addgemidx(char \*ifname, unsigned int gemldx);

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

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**CPE Application Note GPONIF Library API** 

#### 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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