

pmg2ceof

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1 Introduction

This document specifies the commands send from **pmg** to and from **ceof**¹ to the **pmg**.

1.1 Changelog

1.1.1 v0.1.2 to v0.1.3

- Added name of peer to ”‘1304’”, ”‘1305’” and ”‘1306’”
- Changed protocol version to ”‘03’”

1.1.2 v0.1.1 to v0.1.2

- ”‘1300’” expanded: Now also passing the fingerprint
- ”‘1303’” expanded: Return the next address
- Added commands ”‘1304’” to ”‘1307’”
- Changed protocol version to ”‘02’”

1.1.3 v0.1 to v0.1.1

- Removed support for ”‘0001’”
 - No need to deregister on crash, **ceof** will restart you anyway.
- Changed protocol version to ”‘01’”

1.1.4 v0.1

- Initial release

2 Commands

All commands are send as 4-Byte ASCII digits (for instance ”‘0012’”). There is no transfer of binary numbers between **ceof** and **pmg**. All answers and all numbers are ASCII-numbers. We **pmg commands** always begin with **0** (”‘0042’” for instance), **answers** or **notifications** from **ceof** begin with **1** (”‘1023’” for instance). After each command follows individual data. The second byte indicates the type of message:

¹the central EOF-1 application

- **0: pmg** messages
 - **00: pmg** (de-)initialisation
 - **01: pmg** success messages
 - **02: pmg** error messages
- **1: ceof** messages
 - **10: ceof** (de-)initialisation
 - **11: ceof** success messages
 - **12: ceof** error messages
 - **13: ceof** peer messages

2.1 Pmg commands

2.1.1 0000: Register pmg

After the "0000" **pmg** directly appends two ASCII digits containing the version of the client to ceof protocol it speaks. This specification uses version "03". Answers from ceof:

- **1100:** success, you are connected
- **1200:** version not supported

2.2 Ceof commands

2.2.1 1099: Exit

Answers from **pmg**:

- **0199:** Exiting
- **0223:** strange error (results in being killed -9)

2.2.2 1300: Add peer

After the **1300** follows

- a 128 byte "fixed length string" containing the peer name
- a 128 byte "fixed length string" containing the peer address
- a 40 byte "fixed length string" containing the peer fingerprint

Answers from **pmg**:

- **0100**: peer added
- **0223**: strange error

2.2.3 1301: Get peer fingerprint

After the **1301** follows

- 128 byte "fixed length string" containing the name of the peer

Answers from **pmg**:

- **0100**: success: fingerprint follows
 - 40 byte "fixed length string" containing the fingerprint
- **0200**: unknown peer
- **0223**: strange error

2.2.4 1302: Rename peer

After the **1302** follows

- 128 byte "fixed length string" containing the old name of the peer
- 128 byte "fixed length string" containing the new name of the peer

Answers from **pmg**:

- **0101**: success
- **0223**: strange error

2.2.5 1303: Get address of peer

After the **1303** follows

- 128 byte "fixed length string" containing the name of the peer

Answers from **pmg**:

- **0102**: success
 - 128 byte "fixed length string" containing the address

- **0200:** unknown peer
- **0223:** strange error

Pmg MUST keep state of the last sent address. **Pmg** MUST return the next address it knows of the peer. If there is only one address, it is the next address.

2.2.6 1304: Add address to peer

After the **1304** follows

- 128 byte "fixed length string" containing the name of the peer
- 128 byte "fixed length string" containing an address to add

Answers from **pmg**:

- **0104:** success
- **0223:** strange error

2.2.7 1305: Remove address from peer

After the command follows

- 128 byte "fixed length string" containing the name of the peer
- 128 byte "fixed length string" containing the address to remove

Answers from **pmg**:

- **0105:** success
- **0205:** Cannot remove, because it is the last known address
- **0223:** strange error

2.2.8 1306: Update peer fingerprint

After the command follows

- 128 byte "fixed length string" containing the name of the peer
- 40 byte "fixed length string" containing the new peer fingerprint

Answers from **pmg**:

- **0106:** success
- **0223:** strange error

2.2.9 1307: Remove peer

After the **1307** follows

- 128 byte "fixed length string" containing the name of the peer

Answers from **pmg**:

- **0107**: success, peer removed
- **0200**: unknown peer
- **0223**: strange error