

# pmg2ceof

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## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
1.1	Changelog . . . . .	2
1.1.1	v0.1.1 to v0.1.2 . . . . .	2
1.1.2	v0.1 to v0.1.1 . . . . .	2
1.1.3	v0.1 . . . . .	2
<b>2</b>	<b>Commands</b>	<b>2</b>
2.1	Pmg commands . . . . .	3
2.1.1	0000: Register pmg . . . . .	3
2.2	Ceof commands . . . . .	3
2.2.1	1099: Exit . . . . .	3
2.2.2	1300: Add peer . . . . .	3
2.2.3	1301: Get peer fingerprint . . . . .	4
2.2.4	1302: Rename peer . . . . .	4
2.2.5	1303: Get address of peer . . . . .	4
2.2.6	1304: Add address to peer . . . . .	5
2.2.7	1305: Remove address from peer . . . . .	5
2.2.8	1306: Update peer fingerprint . . . . .	5
2.2.9	1307: Remove peer . . . . .	5

# 1 Introduction

This document specifies the commands send from **pmg** to and from **ceof**<sup>1</sup> to the **pmg**.

## 1.1 Changelog

### 1.1.1 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’”

### 1.1.2 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’”

### 1.1.3 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:

- **0**: **pmg** messages
  - **00**: **pmg** (de-)initialisation
  - **01**: **pmg** success messages

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<sup>1</sup>the central EOF-1 application

- **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 ”02”. 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 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 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

- a 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