

# FreeEMS Serial Protocol - FreeEMS Vanilla

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## Foreword

This document is based on and assumes knowledge of the FreeEMS Serial Protocol - Core document.

The purpose of this document is to define the application functionality and payload data formats for communicating with FreeEMS Vanilla. Not all devices will support all functions, either because they have limited functionality (a display device for example), or because the software versions may differ. Where logging/debug facilities are available, the payload type of unrecognised packets should be noted before discarding them.

# Payload Type Definitions

Payload ID functions and descriptions :

ID	Name	Type	Size	Description And Format

ID : Payload ID number which uniquely identifies the purpose and format of the data contained in the payload.

Name : Brief purpose of this payload type.

Type Key :

- Request - A message sent from a tuning device or similar to an embedded device or similar. Typically PC > EMS
- Response - The reply to a request from an embedded device or similar to a tuning device or similar. Typically EMS > PC
- Command - A message sent from a tuning device or similar to an embedded device or similar. Typically PC > EMS
- Assertion - A message sent from an embedded device or similar to a tuning device or similar. Typically EMS > PC

Size : Payload size is in bytes from end of header to beginning of checksum.

Description And Format : The purpose of this particular payload type and how the data is laid out.

Note :

This table is currently incomplete and definitely liable to be extended in subsequent versions.