

FreeEMS Tuning Tool Interface Overview

Built from several parts :

Textual definition document – core

Textual definition document – firmware specific

Structure types

Interface version (4 parts)

Primitives

key, length (bits or bytes?), name

UnsignedChar, 1, Integer Unsigned Char

UnsignedShort, 2, Integer Unsigned Short

UnsignedLong, 4, Integer Unsigned Long

SignedChar, 1, Integer Signed Char

SignedShort, 2, Integer Signed Short

SignedLong, 4, Integer Signed Long

Boolean, 0.125, Boolean

Character, 1, Character

Structures

key, name, size in bytes, structure definition

maintable, Main Table, 1024, {etc}

twodtableUS, 2D Table US, 64, {etc}

fixedconfig1, Fixed Configuration Data One, 1024, {etc}

structure def = list of components in order

component = prim key, translation offset, translation factor, unit, name, description, count

Packet types

Interface version

list of packets

each :

key

name

description

payload ID

request structure
reply structure

Block / location definitions

Interface version

list of blocks

each :

key

name

description

block ID

list of payload id types

list of components each of which can be a block or a structure or a primitive

Additionally, an application implementing this should :

store the settings in the standard semi raw settings format (and optionally others also)

output datalogs in the standard plain text datalog format too (and optionally others also)