

The documentation about communication protocol

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Contents

1 Design Specification

1.1 Key-Value-Store-Protocol

1.1.1 Introduction and Overview

This document specifies the Key-Value-Store-Protocol (KVSP). The protocol allows a client to store key-value pairs on a server. Stored values can be retrieved by their keys. All messages are transferred via a TCP socket. The server listens for incoming connections on such a socket. Clients connect to the server to interact with it.

1.1.2 Data Types

All messages consist of values. Each value has one of the following data types:

Data Type	Description
uint8	unsigned 8 bit integer
uint32	unsigned 32 bit integer
String	see below
Enumeration	see below

Note: All values are transmitted in network byte order (big-endian).

1.2 Enumerations

They are transferred as uint8 values.

MessageType	
Name	Value
Unknown	0
Connect	1
Accept	2
Error	3
Store	4
Load	5
Value	6

Error	
Name	Value
ConnectMessageExcepted	0
KeyNotFound	1

2 Sequence Diagram

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