

Pycc Protokoll Specification 0.1

Christoph Sterz

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1 Preface

The pycc protocol is used to send messages and commands between the various pycc clients. It provides a simple way to format given byte-strings to package- and client-information and the actual message.

2 Specification

2.1 New connection and protocol handshake

A connection has 3 statuses:

- **new:** Connection is new and not even received by the connection partner.
- **init:** Connection is established but needs to be configured.
- **open:** Connection is established.

Example **new** Socket Packet:

$$PYCC \mid [versions] \mid PyCC - Node$$

- Protocol begins with *PYCC*
- Single Protocol parts are seperated by pipes *|*
- *[versions]* contains the protocol-versions (comma seperated) used for this connection.
- *PyCC - Node* describes additional information about the sender (not imprtant).

When the socket receives a package formatted that way it sends a packacke of the same format. (*PYCC|[version]|PyCC - Node*) Finally an *OK, [version]* Message is sent back to confirm the Connection.

2.2 Message Specification

Example:

$$A[comHandle] : [Message]$$

Where:

- **First Letter:** indicates the type of message
 - A:** is a Request Message
 - O:** is the Answer to that Request
 - E:** is the Error message raised
- **[comHandle]** is a number indicating the connection count Client has odd counts, Server evens.
- **:Message** A Message preceded by : .

3 Exceptions

If a protocol format *does not* provide the features that are demanded in the specification a `ProtocolException` is raised. May be useful sometime.