On new con: Phase 1

Client simply connects via a Net-Sochet

Client Jends: REQ > SERVERS

RES > {1; < 1P\_1>; 2: < 1P\_2} (\_

Samstag, 14. November 2020

19:36

Ping-Kalient sends Pings to all Servers (20 Ping/7 per sec. Client:

Transmitting Sample Data:

Clients submit all their

Ping-Data to the Main-Serves

Climbs:

SENDS EO. ICMAIN\_SERER DPS=]. 1: [C1)]; 7: [CV]}

ACK (

Get possible Matches:

Reques- Modiches from the Server Lobased on the already transferred

Results Finding new Clients

Chient.

REQ > MATCH

Not available

> CMD> STANDBY

Register meastrement.

Main-Server registers Chient 1

On Chient I for measurements

Main-Sever: REG><1P\_Cl1>

Ping Madch!

TClient pings the match 20 times.

2 times per sec. (up to)

Chient 1-2 Chient 2

PING if regished PONG

elso Disconnect!

Transmithing Data Z;

Client 1 transmiths new

Aata-points to Main-Server

Chief 1: SEND 3 + 1000

IP-Locator Package-Planung Seite 7

Hold & Wait Milient stands by and requests Matel every 5 sec. Chert 1: Wait Phase 4 LURY Second: Client 1: LIFE ->

## Message Definition

Sonntag, 15. November 2020

are composed the same msgs After extracting UDP's One of: SACK, EUS REQ, RES, PING, CONG, (END, REG, LIFE 4

for each Client anique: 1 Byte Padraze-lass can be identified · initialized with 0 · In crep ented with every sent package

> INTS PAYLOAD optional! Gnot all CMDs need payload Depending on the command this can differ a let

payhoad:

() A(h: Acknowledge) Payload contains the code of the success ful message ERR: Error -> Payload consists of a.) The wessage causing the evor (id) b.) Either one or a lit of pre-defined error-REQ: Request -> Payload contains. is oldnested to aswer RES: Response which is not ACK or ERR Lo first byte of the payload: msg-id PING: Ping-Packet-> no payload PONG: Response to PING -> payload = PING's msg-id SEND: Sending un requested date Co payload can be custom REG: Registr Client for PING-evaluation Lipayload is the IP of MR other Client!

21FE: A packet without payload indicating that a vailing Chief ist Aill alive