Feedback Paper

Notizbuch: BA HSR

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Quell-URL: http://docs.behat.org/en/v2.5/guides/1.gherkin.html

Requirements

• Formalize requirements? Cumumber/gherkin style?

Are the use cases meant to be this?

General

- "Streamline" terms
 - "cluster" only for HA cluster
 - ° "subtree" only for DIM subtree
 - "subsystem"/"subnode" only for system topology
 - ° "client" only for system clients, not subnodes
 - o maybe there are some more
- Protocol desing: Describe exact message flows and rules, use "unprotocol" style of Hintjens?
 - http://zguide.zeromq.org/page:all#toc196
- "Owner-node" of DIM objects: In a subnode setup it must defined which node is the "owner" of each DIM object.
 - o defines where a suppression is actually executed
 - o defines precedence while DIM syncronization
 - o presumably more things...
- DIM subsets/partition/subtree (define a term!): part of the DIM. Examples:
 - o objects owned by R
 - objects owned by \$1
 - o objects owned by R+S1
 - objects owned by R+S2
- See some more comments in PDF

Subnodes

- DIM sync: Root node needs to get a snapshot from subsystems too! So snapshots flow in both directions
- Complete DIM on subnode vs. DIM partition on subnodes: Implement whats easier first.
- Mulitlevel HA (Figure 6.3): Why no KVPUB flow?
 - A subnode needs to know a change of "global parameters". Example: User password change.
- Focus on DIM sync first, persistence sync later

HA

- Who is the "client" of Binary Star in our setup?
 - o If it's the superordinate system, we don't have to distinguish between single level HA and multi level HA. It's the same then.
- Why no dedicated link between HA nodes?
 - Hintjens proposed exactly this: http://zguide.zeromq.org/page:all#Preventing-Split-Brain-Syndrome
- Keep OPC UA HA concepts in mind. They should be implementable on the basis developed during this thesis.
- Keep peer in sync? DIM and persistent data? It's a requirement (formulate it!) that users should see as much persisted data (eventjournals, timeseries, parameters) as possible after failover.
 - o Can this be combined with binary star?
 - Very similar to supernode/subnode setup
- Describe scenarios (more detailed) we are robust against and which we are not (e.g. can lead to split brain).

Security

• Explain CURVE (server/client) to me