

Requirement Statement: Auditing Functionality for Diameter

draft-bodin-dime-auditing-reqs-00.txt

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Background for request

- Diameter is included in the work of other standards organizations
 - e.g. 3GPP, ITU-T
 - e.g. ETSI TISPAN service policy decision function (SPDF)
- and has become a key protocol in these and other architectures.
- Use includes setting and maintaining both hard and soft state.
 - There is often a need to query for information on active sessions for backup or synchronization purposes.

Use Hard State situations

- Failover without replication
 - client nodes need a mechanism to audit their server for active sessions,
 - e.g. If diameter client node crashes, its backup needs to audit the server node for active sessions.
 - Needed for termination
- Failover with replication
 - Replication of data over several database instances done asynchronously to keep response times low.
 - Risk of getting out of sync and of having incorrect replication

Use in Soft State situations

- After the refresh timeouts have expired the system can use auditing to get back in sync
 - e.g if a delayed refresh arrives after a session has already been deleted this could prevent requiring both systems to start from zero

Note: this requirement was not included in -00 but will be added to draft -01

Proposal

- Since auditing function is useful if not, in fact, necessary
 - Add auditing as work item to the Dime charter
 - Review and verify requirements/use cases
 - Make changes/augment protocol to support auditing functionality
 - Coordinate with other SDOs on requirements and functionality
- Build on existing work
 - draft-calhoun-diameter-res-mgmt-08.txt (expired) provides a 2 step solution.
 - Good starting point

thank you