CoAP Implementation Guidance

draft-kovatsch-lwig-coap-03

Kovatsch, Bergmann, Dijk, He, Bormann (Ed.)

Change History

- Merged CoAP-related guidance from several places
- Added FSMs to cover all possible exchange sequences
- Restructured document and added new sections
- Editorial text improvements

New Structure

1. Introduction

2. Protocol Implementation
   "Basics to consider"

3. Optimizations
   "Optional improvements"

4. Alternative Configurations
   "Changing defaults and recommendations"

5. References

2. Protocol Implementation

1. Client/Server Model
2. Message Processing
   1. On-the-fly Processing
   2. Internal Data Structure
3. Duplicate Rejection
4. Token Usage
   1. Tokens for Observe
   2. Tokens for Blockwise Transfers

5. Transmission States
   1. Request/Response Layer
   2. Message Layer
6. Out-of-band Information
7. Programming Model
   1. Client
   2. Server

3. Optimizations

1. Message Buffers
2. Retransmissions
3. Observable Resources
4. Blockwise Transfers
5. Deduplication with Sequential MIDs

4. Alternative Configurations

1. Transmission Parameters
    1. Static Adjustments
    2. Dynamic Adjustments
2. CoAP over IPv4

Next Step

- WG adoption?

- Contributors?
  - IPv4 experience
  - Out-of-band information
  - Alternative parameters