

# Conditional Attributes for Constrained RESTful Environments

draft-ietf-core-conditional-attributes

(<https://github.com/core-wg/conditional-attributes>)

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IETF 120 Core WG Meeting

# Current Status: Version -07

- 1 review received last week
  - > Draft being updated this week to address the review
- Early Review from the IoT Directorate given for version -06
  - > Most review comments have been addressed in version -07
  - > 2 issues will be discussed this week with reviewer, to be resolved for -08
- Feedback from IANA to clarify registration procedures for the requested Conditional Attributes registry in Section 6

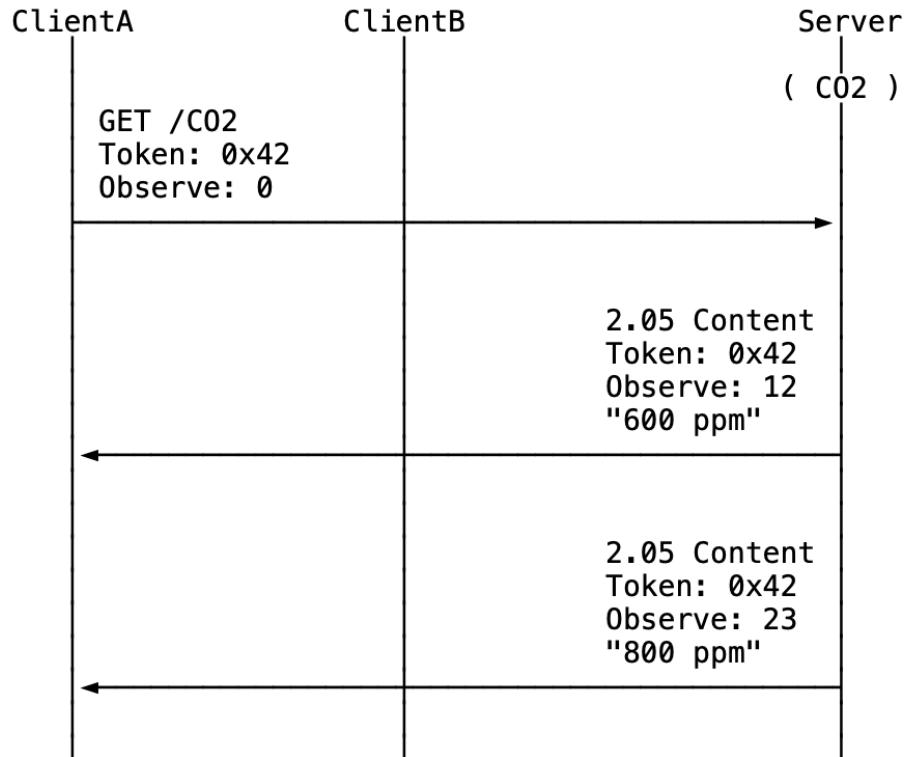
# Diff to -06: Intended Status

- Intended status changed from Informational to Standards Track
  - Based on discussions originating in IETF 116, IoTDIR early review and ML messages

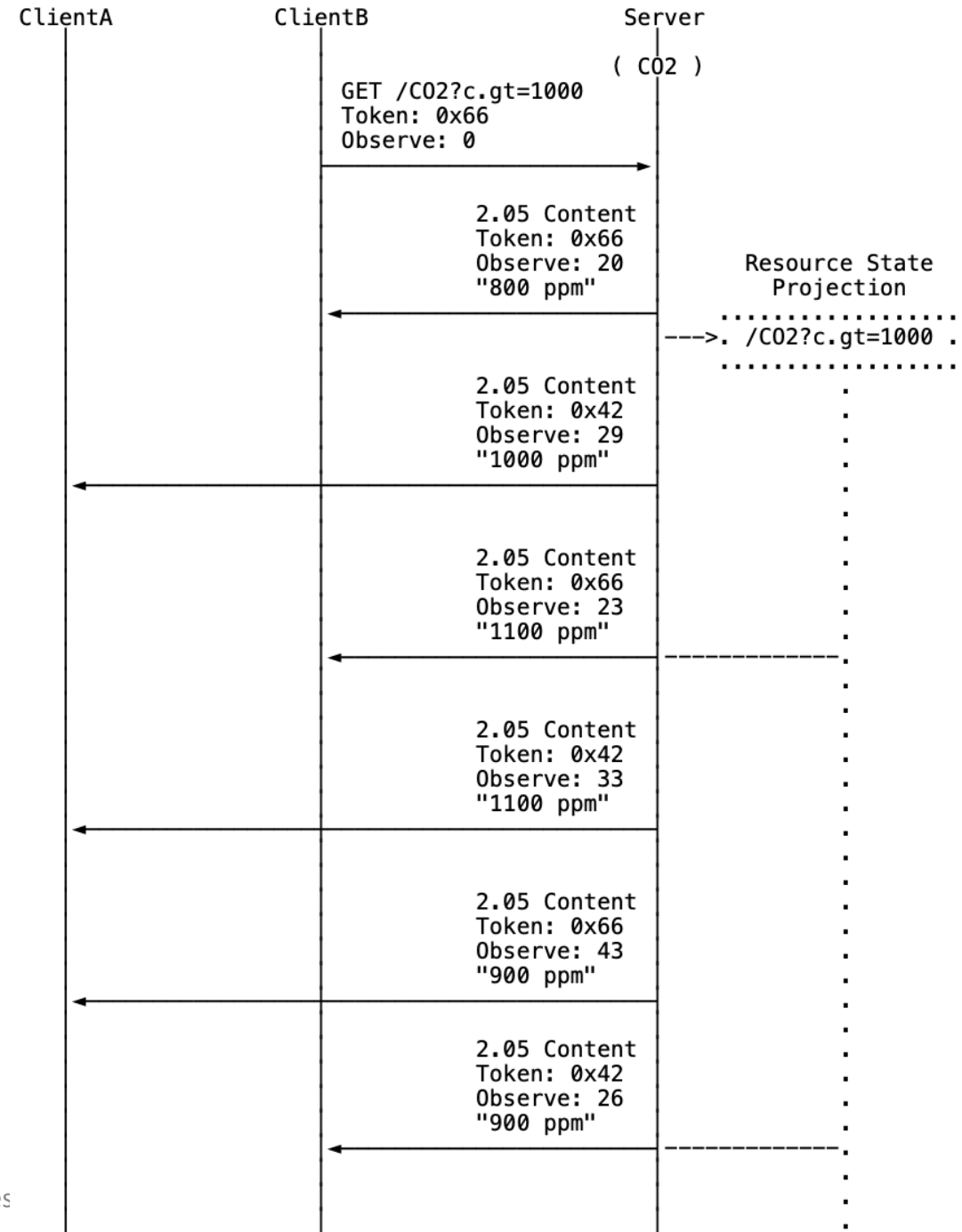
# Diff to -06: State projection

- Introduction of Resource State Projections
- Implication of using state projection with conditional attributes is this:
  - When a server receives a request containing conditional attributes from a client, the server provides a projected resource state to the client which is separate from a resource state requested without conditional attributes.

# State projection

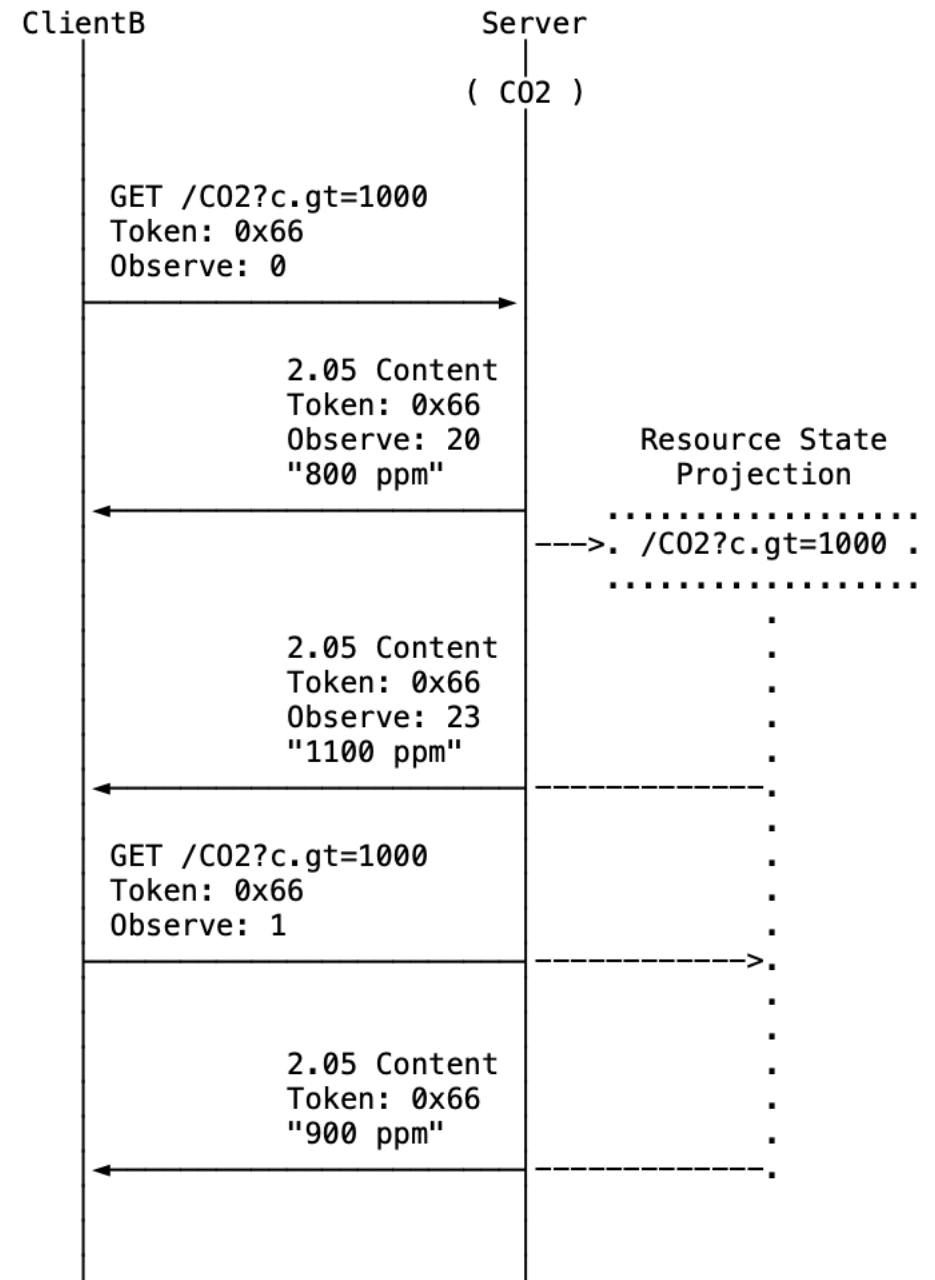


CoRE Conditional Attributes



# Diff to -06: Registration Cancellation

- From <https://mailarchive.ietf.org/arch/msg/core/vSrEc-59XQeYf3V-LoMNTJ-uPs8/>
  - How does a client cancel an existing registration?
- Solution:
  - Per RFC 7641: Client can forget and RST
  - Client can cancel with Observe Option value 1, but the URI MUST include conditional attributes



# Diff to -06: Security Considerations

- Resolved 2 issues:
  - Impact of c.pmax used for amplification attacks and mitigation steps
  - Impact of c.epmax used for resource exhaustion and mitigation steps

# Remaining Issues: "AND" vs "OR"

- From <https://mailarchive.ietf.org/arch/msg/core/vSrEc-59XQeYf3V-LoMNTJ-uPs8/>
  - Multiple conditional attributes in a query component have their relationship as "AND".
  - Is it possible to have multiple conditional attributes with "OR" relationships
- Resolution
  - If an "OR" relationship is desired, the client can register several registrations independently on the resource being observed, with each registration containing different conditional attributes.
- Comments on this? (And should this be expressly stated in the document?)



# Conditional Attributes for Constrained RESTful Environments

Thank you!