

draft-ietf-core-dynlink

IETF 110 CoRE

# Dynlink developments

- Current draft is at version -13
- Continuing to incorporating feedback received for updates, corrections and clarifications

# Editorial Changes

- Separation of Conditional Attributes into Conditional Notification Attributes and Conditional Control Attributes

Attribute	Parameter	Value
Greater Than	gt	xs:decimal
Less Than	lt	xs:decimal
Change Step	st	xs:decimal (>0)
Notification Band	band	xs:boolean
Edge	edge	xs:boolean

Table 1: Conditional Notification Attributes

Attribute	Parameter	Value
Minimum Period (s)	pmin	xs:decimal (>0)
Maximum Period (s)	pmax	xs:decimal (>0)
Minimum Evaluation Period (s)	epmin	xs:decimal (>0)
Maximum Evaluation Period (s)	epmax	xs:decimal (>0)
Confirmable Notification	con	xs:boolean

Table 2: Conditional Control Attributes

# ”Edge” conditional notification attribute

- Boolean attribute to indicate interest for receiving notifications of either the falling edge or the rising edge transition of a boolean resource state.
- When the value of the Edge attribute is 0, the server notifies the client each time a resource state changes from True to False.
- When the value of the Edge attribute is 1, the server notifies the client each time a resource state changes from False to True.

# ”Con” Conditional control attribute

- Boolean attribute
- When present with a value of 1 in a query, the con attribute indicates a notification **MUST** be confirmable
- When present with a value of 0 in a query, the con attribute indicates a notification can be confirmable or non-confirmable

# Question to WG

- Right now, "band" and "con" are defined to have Boolean type values
- Do we need to specify these query parameters as (key, value) pairs or is it enough to just to include these parameters into a query component as just values?

Berners-Lee, et al.

Standards Track

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RFC 3986

URI Generic Syntax

January 2005

query = \*( pchar / "/" / "?" )

# Implementation Considerations

- `pmin == pmax` now enabled, to allow the server to send notifications to clients at every  $N$  seconds
- Implementation considerations provides text that this is performed as a best effort service from the server

# Changes being made from -13 to -latest

- Impact on behaviour from the possible presence of (multiple) proxies is still on TODO list
- More examples to be included in the appendices
- Section 3.3 contains reference code for server processing of Conditional Attributes
  - Include also a state machine to describe server-side processing, for example with epmin and epmax



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Thank you!