"ni" names

draft-farrell-decade-ni
draft-hallambaker-decade-ni-params

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Synopsis

- Presented draft-farrell-ni in decade at IETF-81

- Independent discussion in websec WG on draft-hallambaker-digesturi

- Agreed to merge efforts & propose in decade
  - Then did that.

- Delta from draft-farrell-ni:
  - Lost intentional names & pathname
  - Added extensbility mechanism via query string
  - Added nice .well-known HTTP mapping idea (PHB)

- If you got all that and are happy with it – then do your mail or snooze!

Basic Idea/Scheme

- ni names specify a way to include a hash output in a URI
  - Allows but doesn't force, name-data integrity
  - Should enable a lot of things
- "base" draft defines:
  - URI type: niname ="ni://" [authority] "/" alg ";" val ["?" query]
  - How to map to/from HTTP URIs via .well-known
- Examples:
  - ni:///sha-256;B_K97zTtFuOhug27fke4_Zgc4Myz4b_lZNgsQjy6fkc
  - ni://example.com/sha-256;B_K97zTtFuOhug27fke4_Zgc4Myz4b_lZNgsQjy6fkc
  - http://example.com/.well-known/ni/sha-256/
    B_K97zTtFuOhug27fke4_Zgc4Myz4b_lZNgsQjy6fkc

Parameters Draft

- "params" draft defines optional, "advanced" stuff
  - Truncated hashes
  - Dynamic content handling
  - Content type
  - Additional locators
  - Decryption key
- Intent is that whatever gets rough consensus as being generally useful would go in base, other stuff in params
  - But strong preference amongst authors to do both at once, even if most consumers of this only want to depend on base draft

That's it!

- Propose decade WG adopt these as work items whenever appropriate in your schedule/re-charter process

- Various of us are working on implementations, more on that as it gets done