# IAB Architectural and Policy Considerations for OPES

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#### The IAB document on OPES:

- It is a recommendation to the IESG.
- their work. individuals working on OPES have to address the issues in the draft in If the IESG accepts an OPES charter referring to the IAB draft, then the
- should be addressed The IAB draft does not have answers, it mostly describes issues that
- argue that the issues have been addressed, and this will be considered when a document comes up for IESG Last Call. Somewhat like "Security Considerations": the WG has to convincing

## Related past work in the IETF:

- Related Degradations RFC 3135: Performance Enhancing Proxies Intended to Mitigate Link-
- Mobile Hosts, Scalability, and Other Implications of Using PEPs. Security Implications, Fate Sharing, End-to-end Reliability, End-to-end Failure Diagnostics, Asymmetric Routing, RFC 3135 has sections on:
- and circumstances where end-to-end mechanisms providing similar pertormance enhancements are not available." "we believe that ... PEPs should be used only in specific environments
- of the end user ... ' "the choice of employing PEP functionality should be under the control

- one of the application-layer end-hosts (that is, either the content provider or the client). must require that the use of any OPES service be explicitly authorized by (2.1) One-party consent: An OPES framework standardized in the IETF
- in the IETF, the OPES intermediary must be explicitly addressed at the IP layer by the end user. (2.2) **IP-layer communications**: For an OPES framework standardized

- intermediaries that are deemed inappropriate by the content provider. (3.1) Notification: The overall OPES framework needs to assist content providers in detecting and responding to client-centric actions by OPES
- to identify imperfect or compromised intermediaries. in detecting the behavior of OPES intermediaries, potentially allowing them (3.2) **Notification**: The overall OPES framework should assist end users

able from the content provider, the OPES architecture must not prevent users from retrieving this "non-OPES" version from the content provider. (3.3) Non-blocking: If there exists a "non-OPES" version of content avail-

- these services as being applied to the result of URI resolution, not as URI resolution itself (4.1) **URI resolution**: OPES documentation must be clear in describing
- on inter- and intra-document reference validity. (4.2) Reference validity: All proposed services must define their impact
- as ad hoc fixes plication addressing architecture extensions, but must not be undertaken considerations may be reviewed as potential requirements for Internet ap-(4.3) Any services that cannot be achieved while respecting the above two

for end users to determine the privacy policies of OPES intermediaries. (5.1) **Privacy**: The overall OPES framework must provide for mechanisms

the OPES WG, or even in the IETF.] [This does not mean that the mechanisms for this would be developed in

### The IAB Plenary on Thursday

A more general discussion of the architectural issues.