Integration of DNS Domain Names into Application Environments: Motivations and Considerations

Swapneel Sheth, Andrew Kaizer, Bryan Newbold, Nick Johnson
ssheth@verisign.com, akaizer@verisign.com,
bnewbold@blueskyweb.xyz, nick@ens.domains

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What are DNS integrations?

- DNS integration:
  - How a DNS domain name is enabled for use as an identifier in an application environment
- Responsible DNS integration:
  - Takes into account qualities and considerations that provide a consistent user experience and extends the security, stability, and resiliency of the global DNS
- Example integrations presented at DINR 2024 Workshop:
  - Bluesky's social handles
  - ENS's DNSSEC-based integration
  - Microsoft's GitHub
- IETF Draft's goal is to guide applications towards providing responsible DNS integrations

Outline of draft-sheth-dns-integration-00

- Motivations to use DNS domain names in integrations:
  - Global Consistency
  - Stability
  - Flexibility
  - Verifiability
  - Reputation and Brand

- Challenges to consider in DNS domain name integrations:
  - Domain Name Lifecycle
  - Domain Control Validation
  - Completeness
  - Protocol Evolution
  - Identifier Attribution
  - DNS Providers

Next Steps

- Please review the draft and provide feedback
  - Feel free to find us this week
  - Or send us an email during or after IETF

- Working towards adoption by a working group after feedback - is DNSOP the right working group?