

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

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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?