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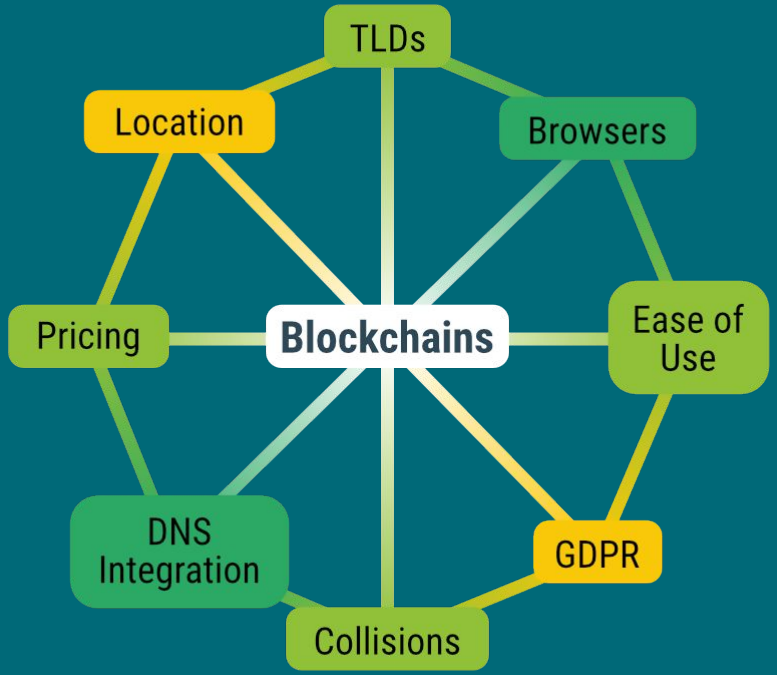
Blockchain Provider Mapping and Risk Analysis

Current and Upcoming Research

Nathan Alan

Blockchain Provider Mapping

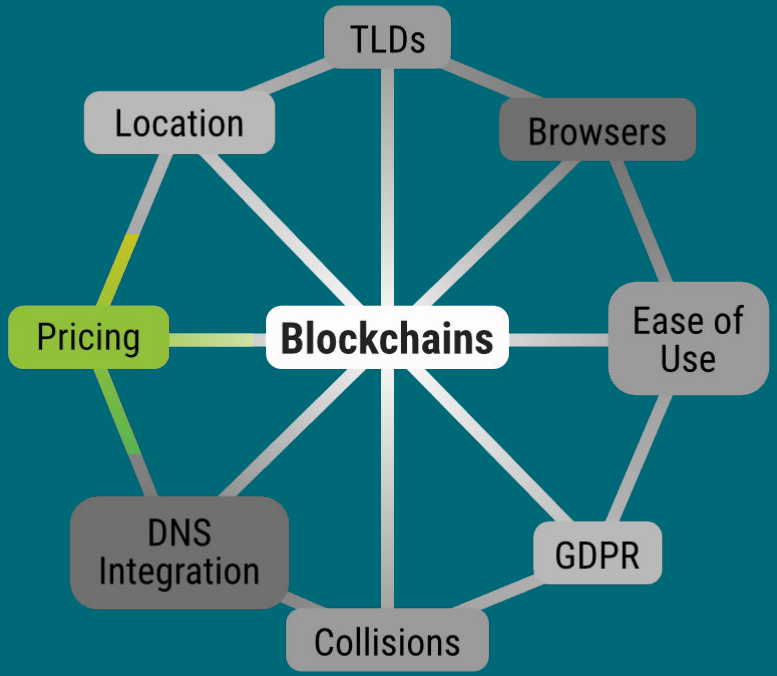
Data gathering for 30 blockchain providers, across 18 factors



Blockchain Provider Mapping

Pricing

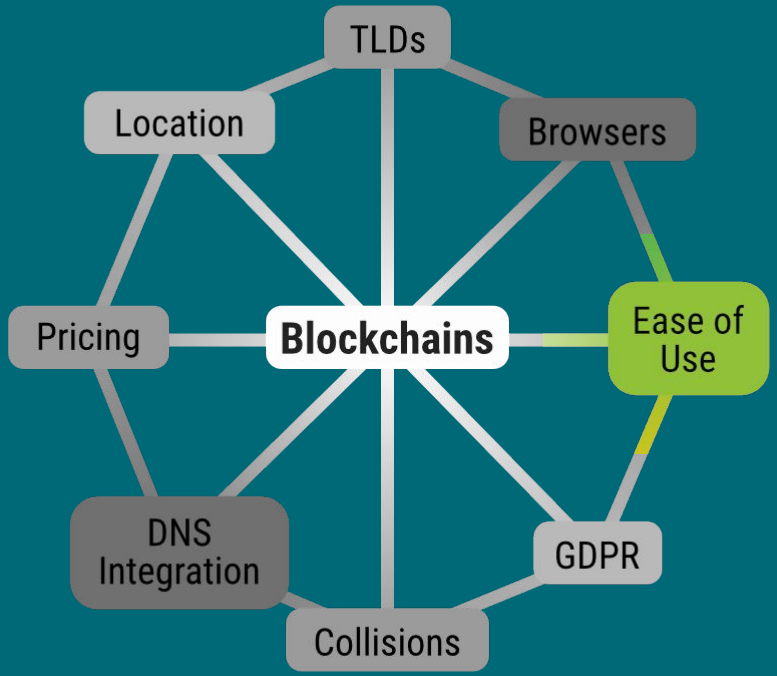
- $2 - $100s
- Various factors to consider:
  - Registration cost
  - Renewal cost
  - Gas fees



Blockchain Provider Mapping

Ease of Use

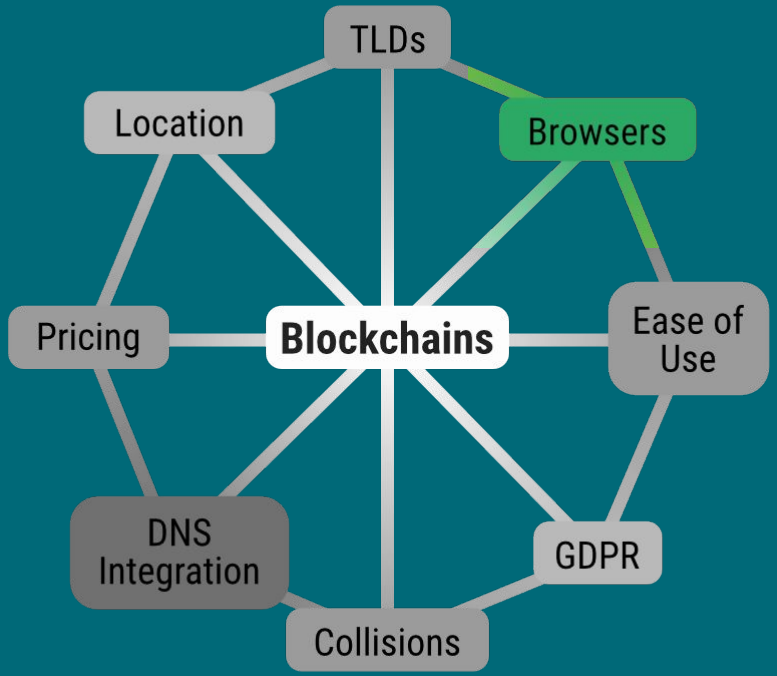
- **High barrier to entry** for registering identifiers
  - Blockchain wallet
  - Corporate cards blocked
- Few have a registration process as easy as the **DNS**



Blockchain Provider Mapping

Browsers

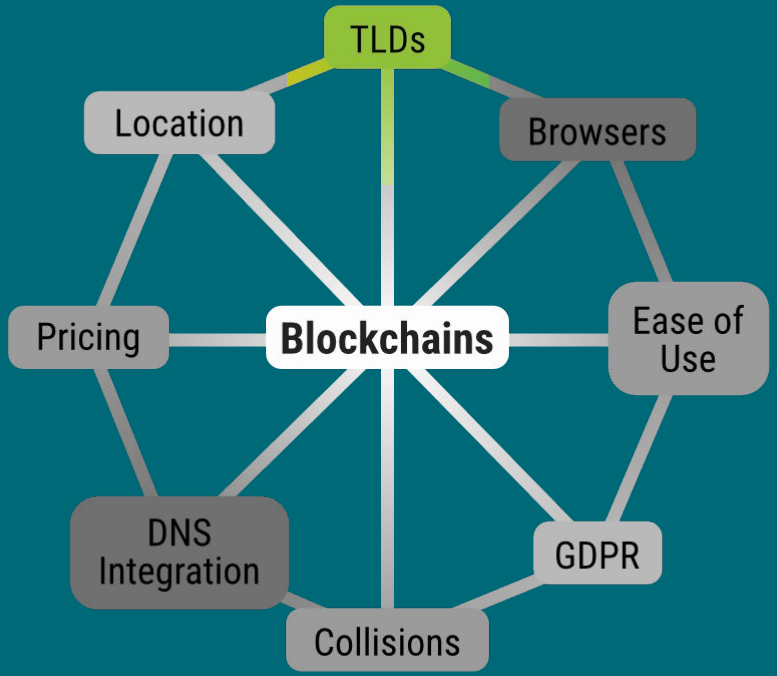
- Very little default support
- **Plugins** are available to support compatibility
- Most common browsers supported: **Opera, Brave**



Blockchain Provider Mapping

TLDs

- 1000s TLDs available
- Some existing **collisions** with DNS
- Potential for more collisions in next **gTLD** round



Risk Assessment Metrics

How will we measure the risk associated with a blockchain provider?

Risk Assessment Metrics

Are there corresponding abuse reports in the DNS?

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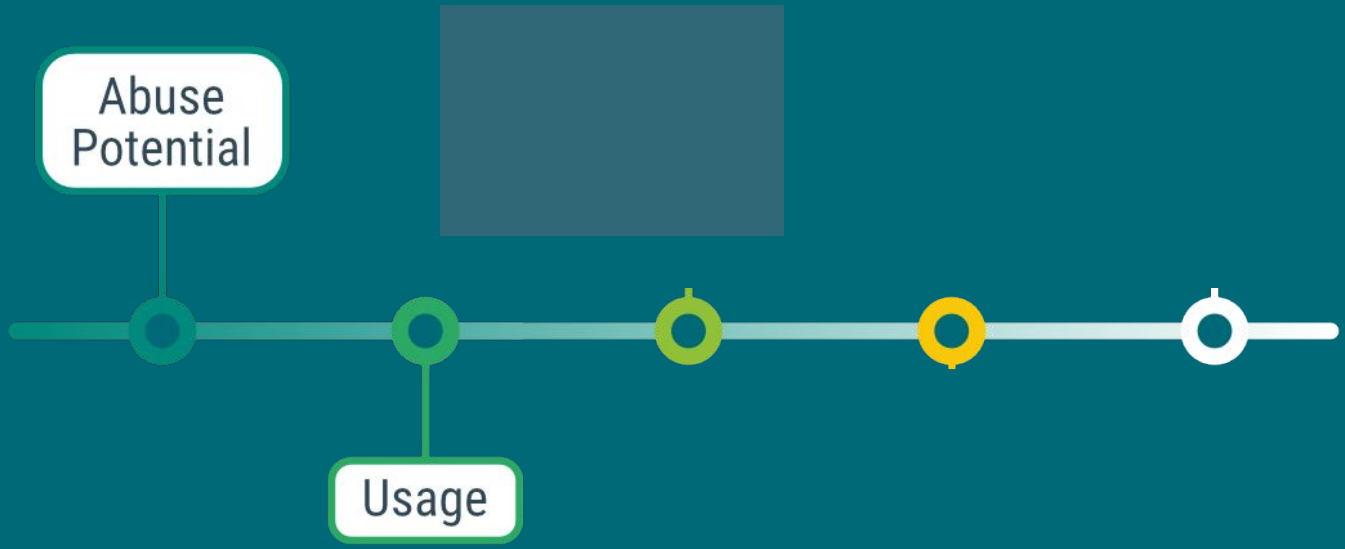
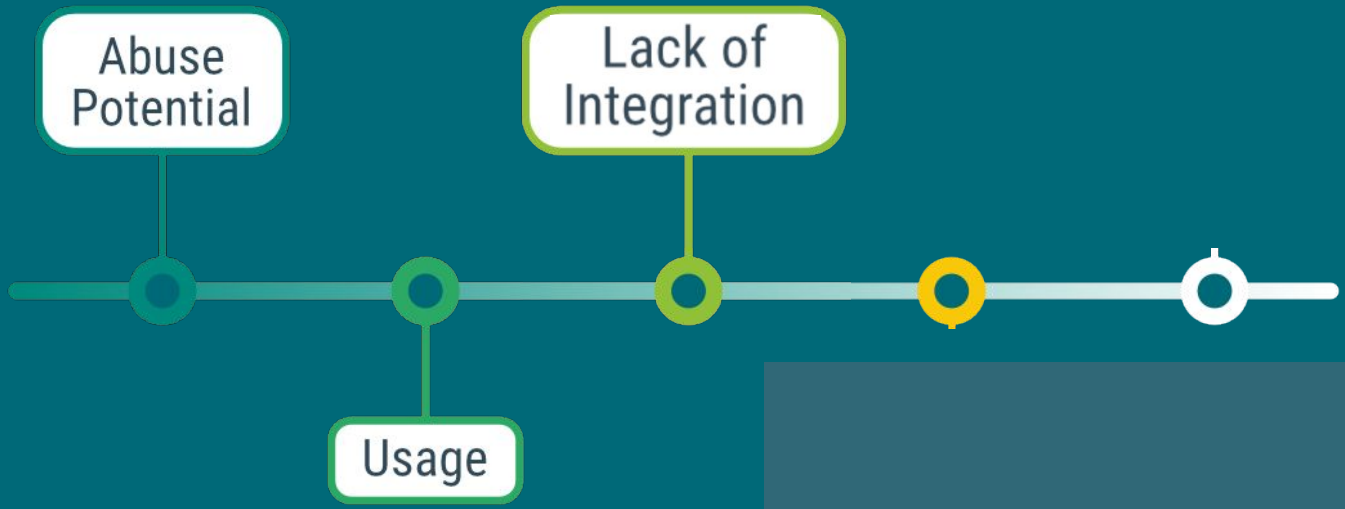
Risk Assessment Metrics



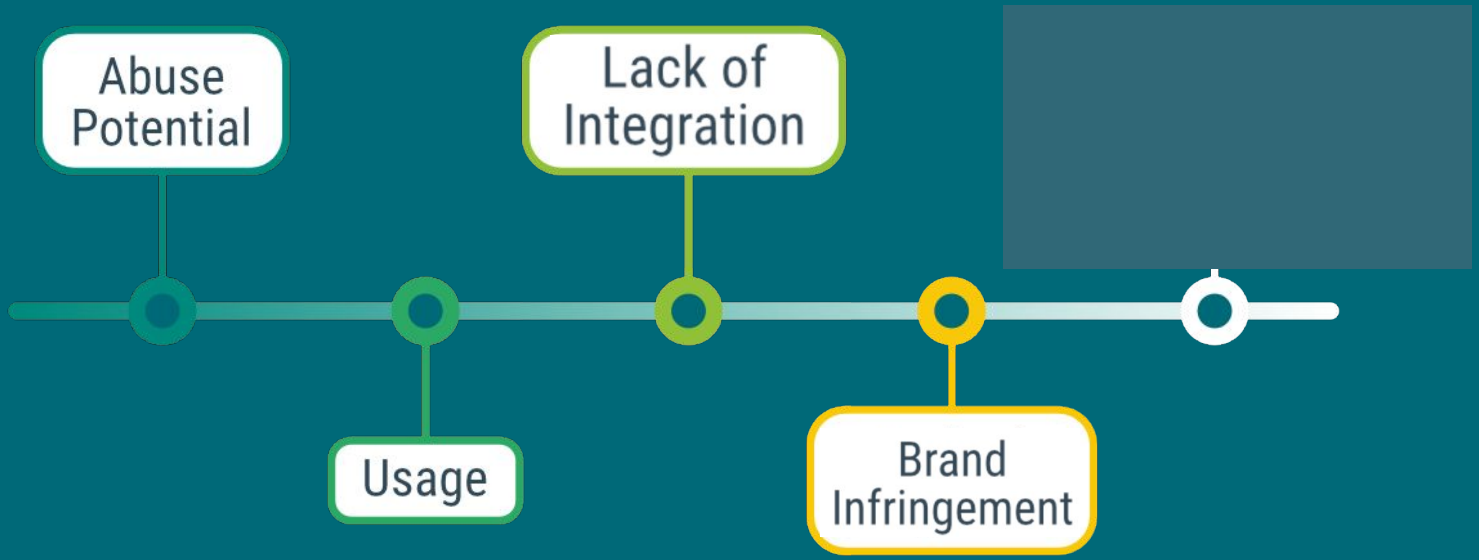
What services does this provider offer for using the identifier?

Risk Assessment Metrics



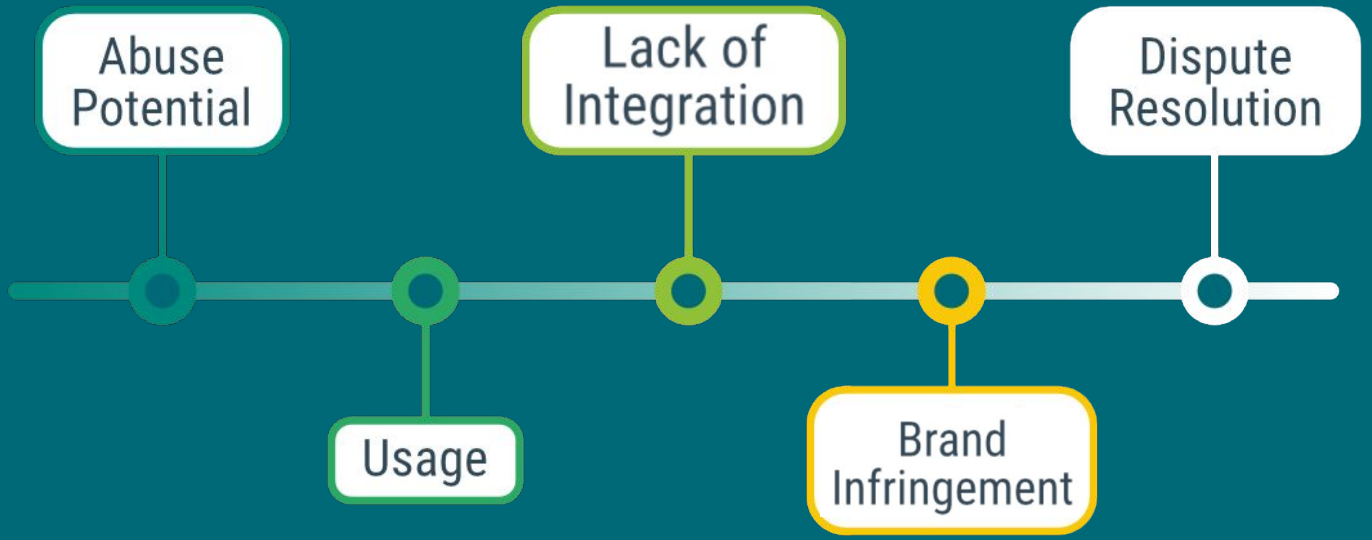
Does the provider offer integration with DNS?

Risk Assessment Metrics



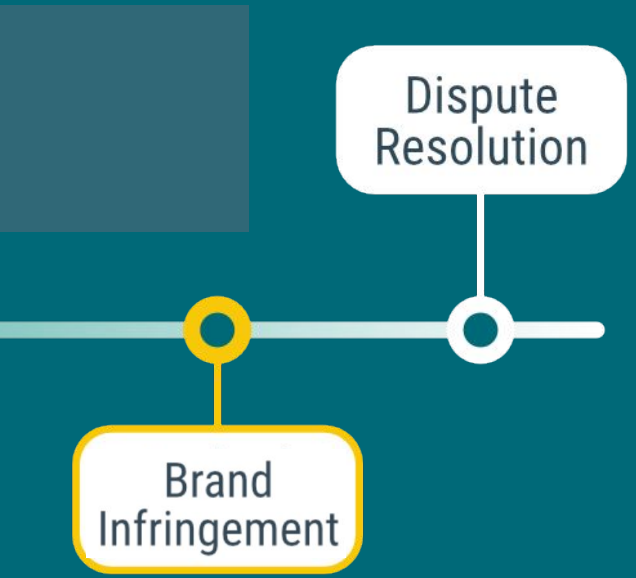
Does the provider block registrations that contain existing trademarks?

Risk Assessment Metrics



Are there any mechanisms for trademark holders to dispute registrations?

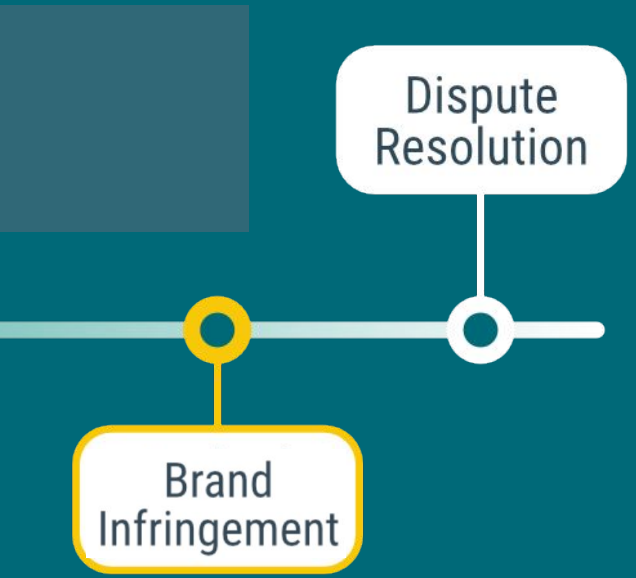
IP Challenges



- Some providers reserve certain words/brands for trademark holders to claim.
- Variations on these words/brands can be registered though.

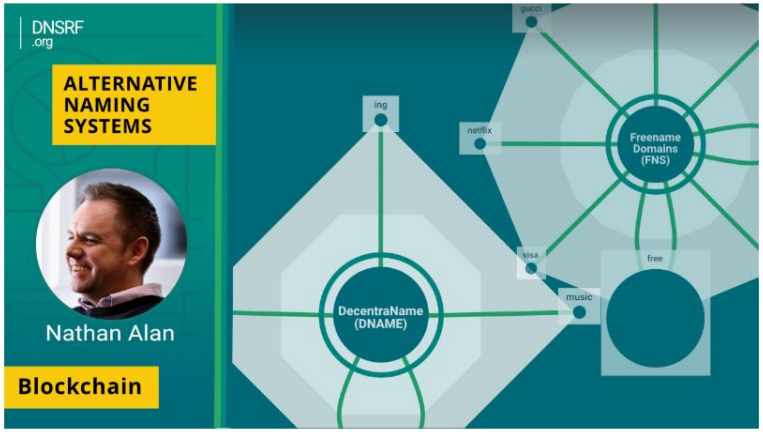
aigoogle.blockchain	blockchain
googlequantum.crypto	crypto
google🧡.eth	eth
googleindex.eth	eth

IP Challenges



- **No UDRP** support for Blockchain registrations*
  - All changes to a blockchain identifier need to be initiated by the owner
  - Dispute resolution processes will likely need to be implemented natively by the provider

Further Details



By Nathan Alan >

The idea of using blockchain technology to create online addresses for websites has moved from theoretical to real in recent years.

The operator of France's .fr registry, AFNIC, funded DNSRF to look into what this may mean in terms of how these new addresses interact with the traditional domain name system (DNS).

By developing a system that sits outside the traditional DNS overseen by ICANN, there is a risk that the same words will end up being used by different organisations, sending people off to different websites in unpredictable ways.

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