

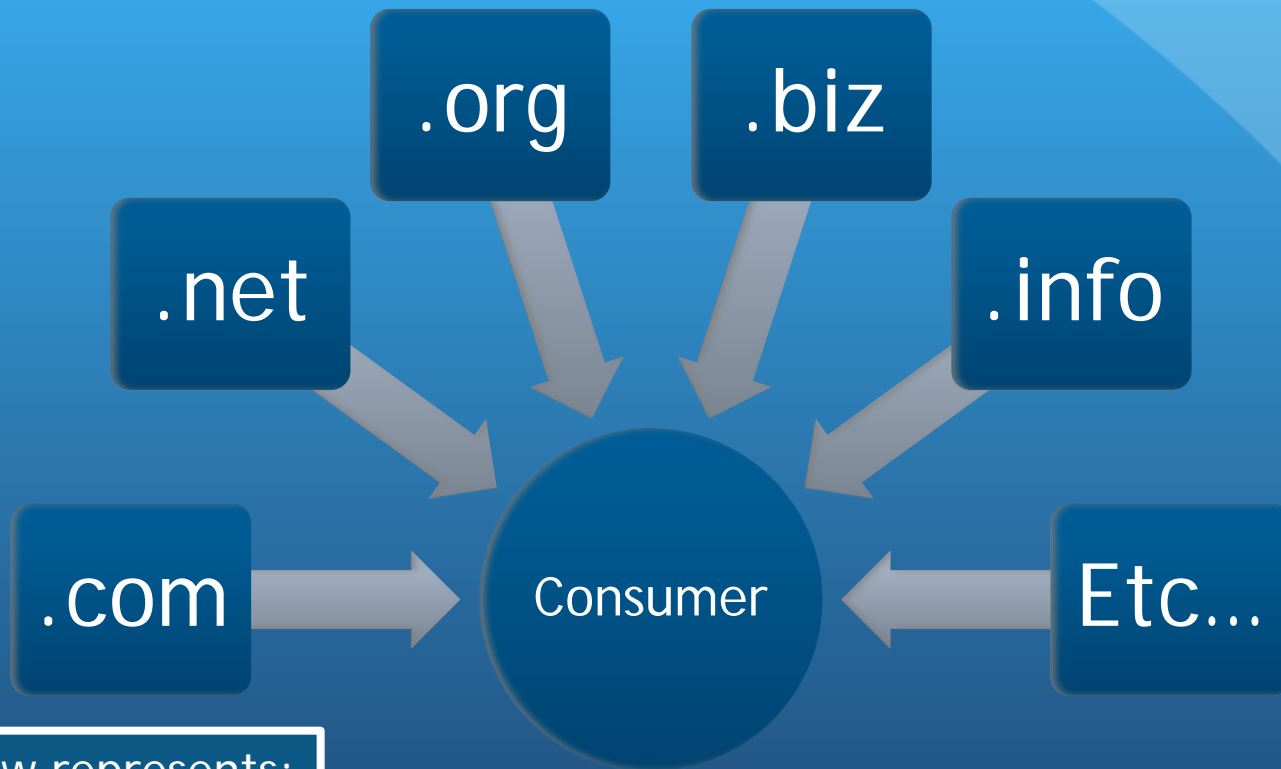
Enhanced Zone File Access

Some Background on the Issues
Submitted by Rod Rasmussen

Impetus issues for change

- Primarily scaling from data consumers' PoV
 - Hundreds of daily data file acquisitions
 - Different transfer systems
 - Security management
 - Opportunities for error
 - Hundreds of new legal/administrative projects
- Desire to keep costs and operational overhead low for new registries
 - Reduce costs for current registries too!
- Chance to improve accuracy, resiliency, and security

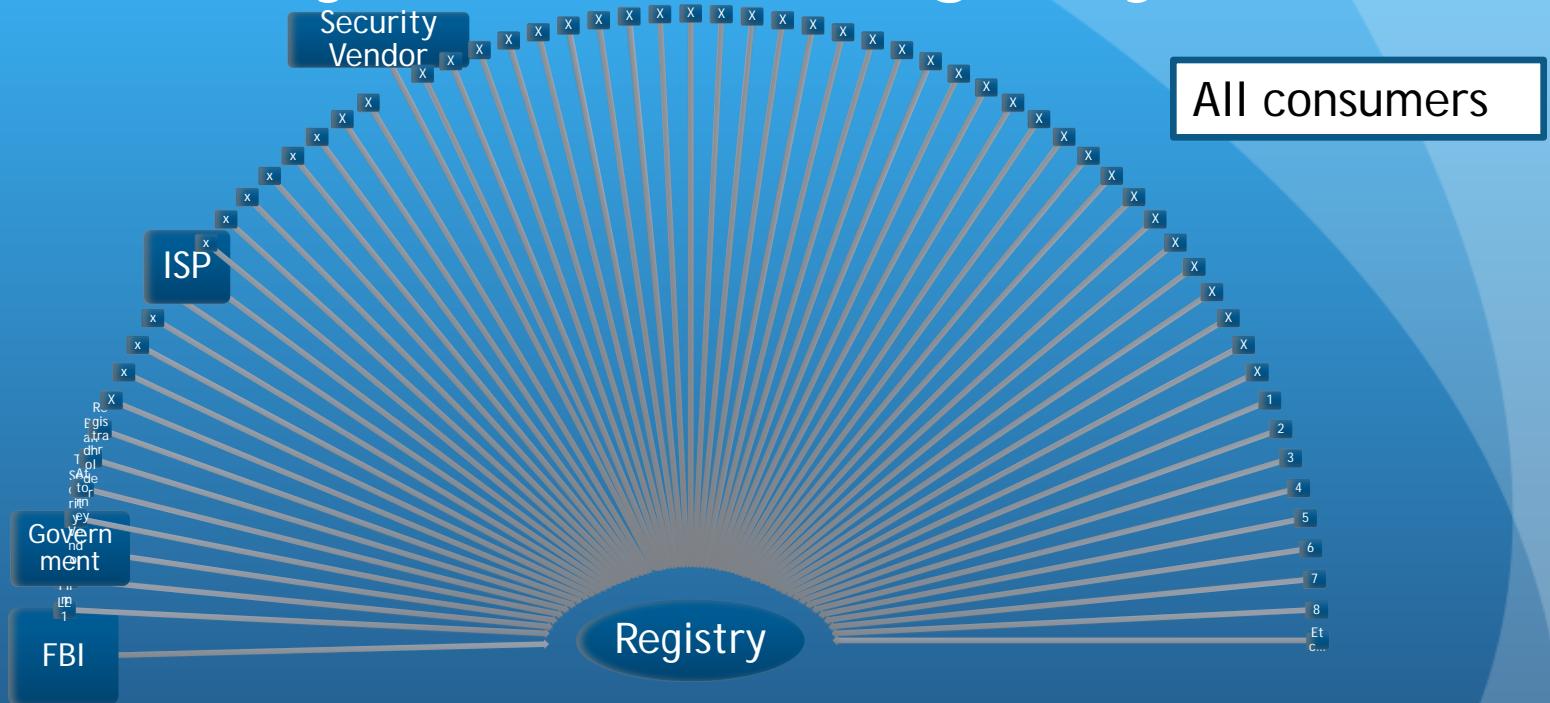
Current system PoV Consumer



Every arrow represents:

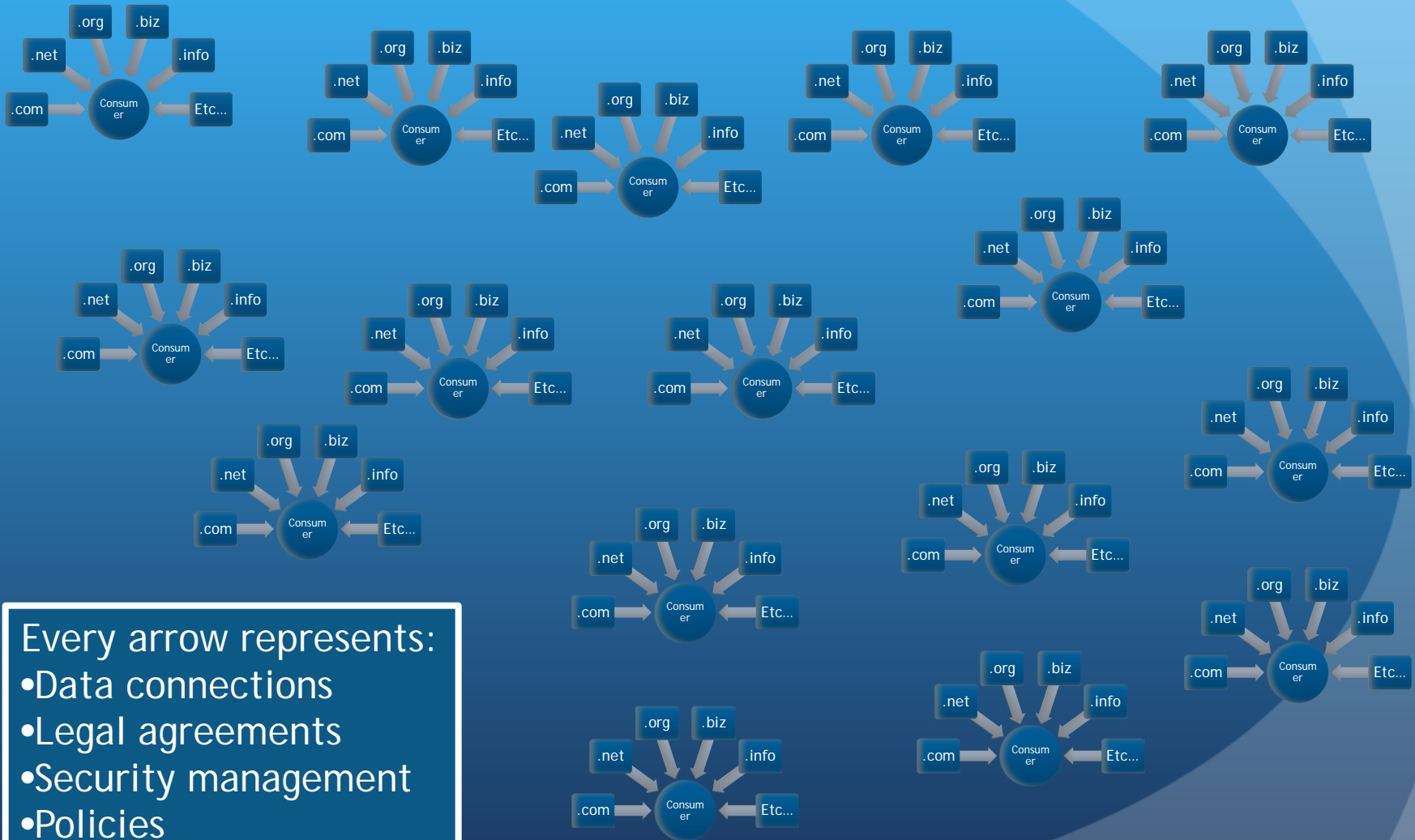
- Data connections
- Legal agreements
- Security management
- Policies

Current System PoV Registry

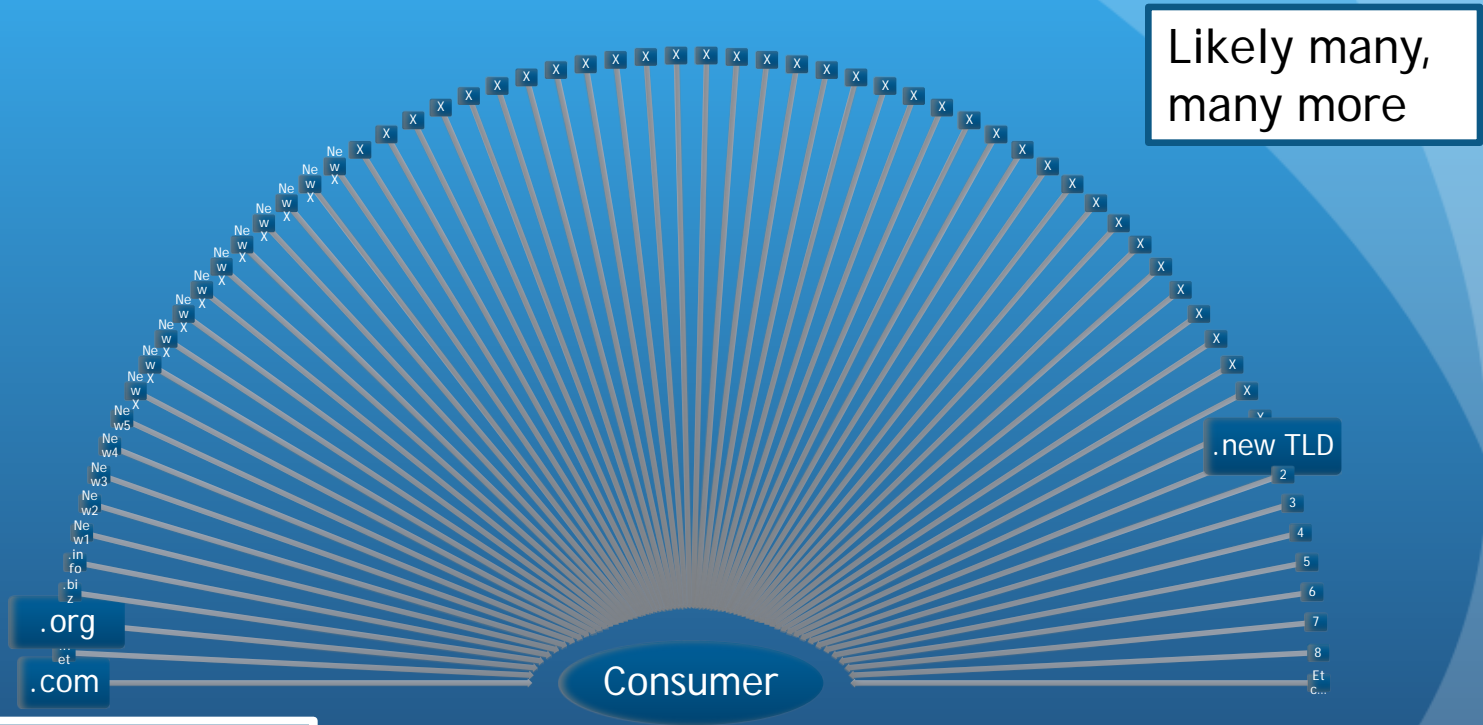


- Every arrow represents:
- Data connections
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 - Policies

Current system PoV all Consumers



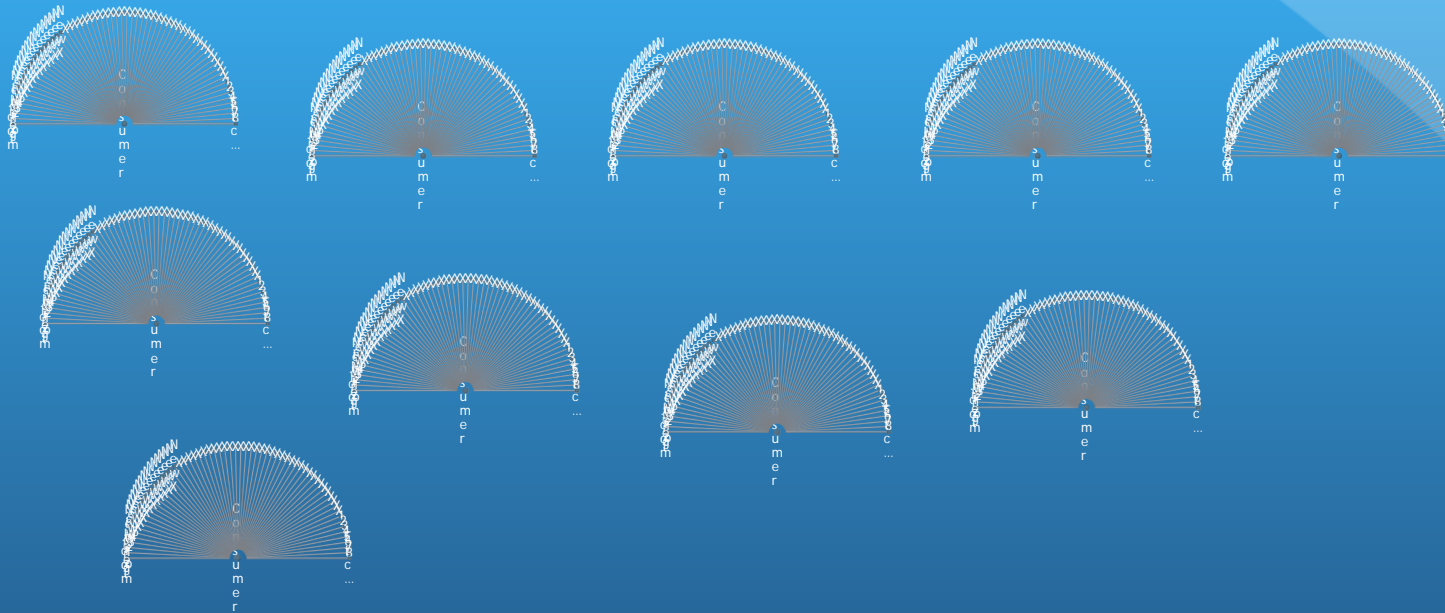
Potential Future PoV - Consumer



Every arrow represents:

- Data connections
- Legal agreements
- Security management
- Policies

Potential Future PoV All Consumers



Every arrow represents:

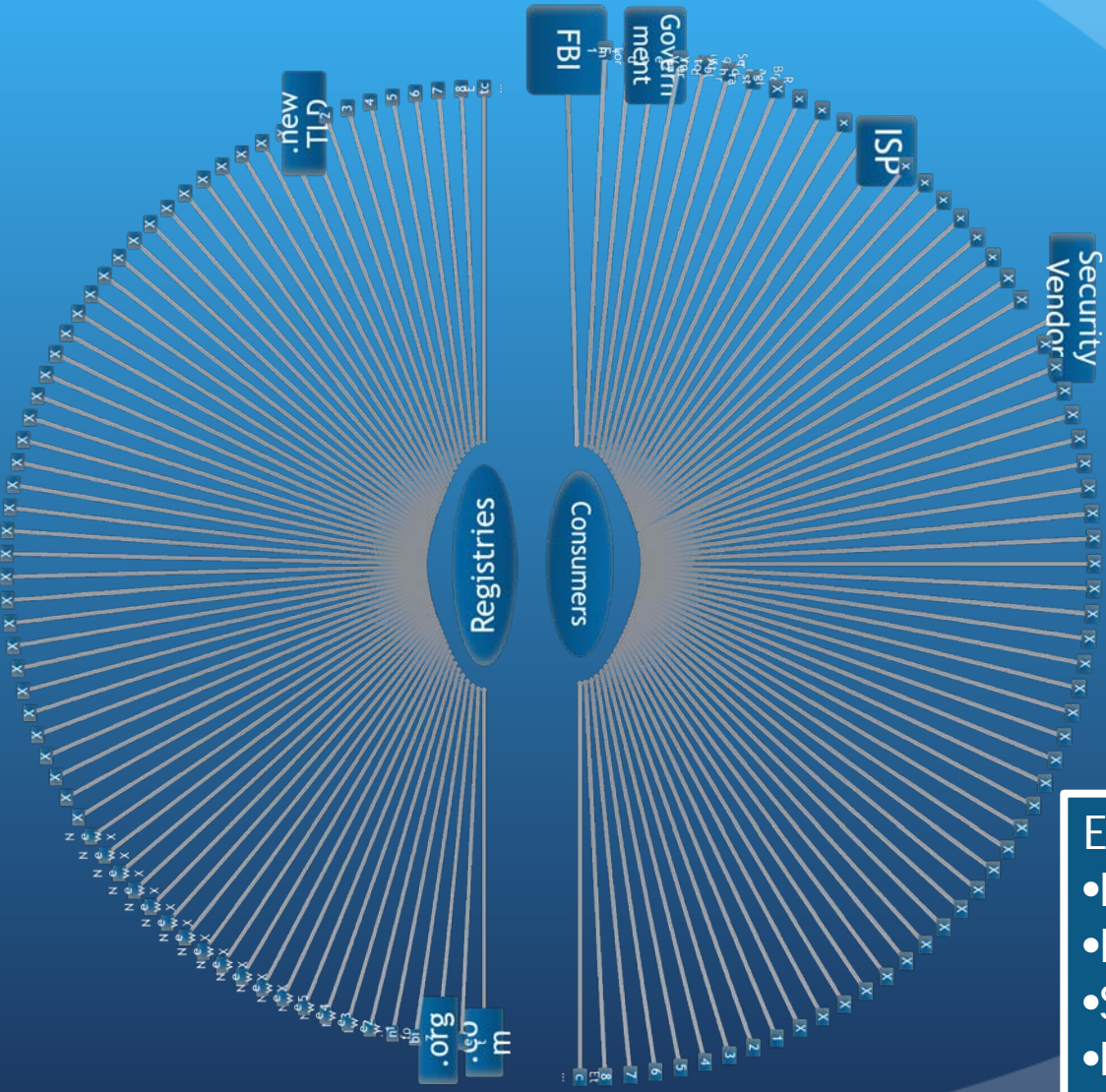
- Data connections
- Legal agreements
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- Policies

Obviously lots more but PowerPoint crashes with more of these relationship clusters

Some Potential Models

- Centralized storage
 - Registries update central operator regularly
 - Consumers securely log in to operator for updates
- Proxy system
 - Consumers authenticate through central operator
 - Secure connection made to registry
- Many models possible - goal is to get solution that works for everyone!

Simplifying the Zone Access Model



Every arrow represents:

- Data connections
- Legal agreements
- Security management
- Policies

Potential Models: PoV Consumer

Proxy/Consolidator/
?



Consumer

Every arrow represents:

- Data connections
- Legal agreements
- Security management
- Policies

Potential Models: PoV Registry

Proxy/Consolidator/
?



Registry

Every arrow represents:

- Data connections
- Legal agreements
- Security management
- Policies

Concerns and Issues

- Security - Making it really work
- Enforcement of policies including data use
- Resiliency/Stability
- Registry visibility to/into data users
- Others?