iRWIn Proposed Alternatives – Description
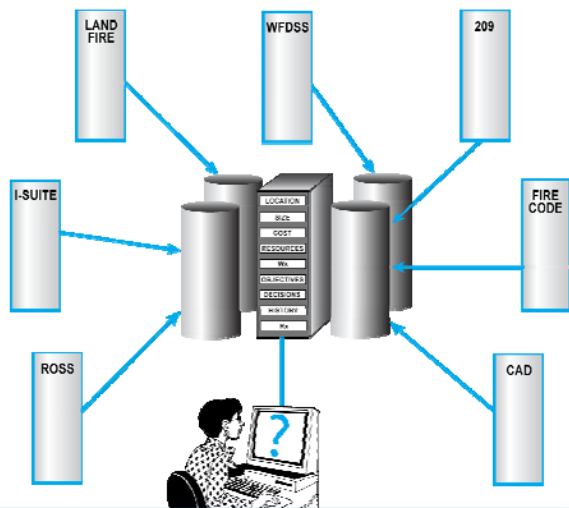

Current Situation

Wildland fire information is entered, updated, stored, and queried in separate systems. Multiple answers to fire information questions possible.

Privileged users:

- log on to each application separately
- data is manually entered into each application separately
- updates to data elements entered into each application separately
- data is stored separately in each system
- queries are made manually to each application separately

General user/Manager:

- does not have direct access to data; privileged users must provide info

Data Warehouse

Wildland fire information is entered and updated in separate systems. Periodically, data is copied from the separate systems to the data warehouse where it is stored and can be queried in a single location. Single answers to fire information questions.
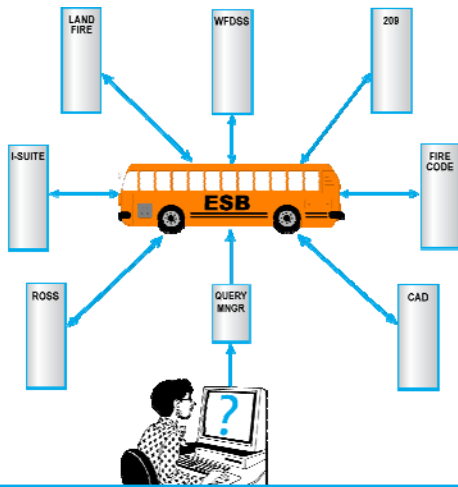
Privileged users:

- log on to each application separately
- data is manually entered into each application separately
- updates to data elements entered into each application separately
- queries are can be made to each application separately or in a single location

General user/Manager:

- queries can be made to a single location
- data latency - dependent upon frequency of periodic data updates

Federated Query with ESB

Wildland fire information is entered into individual systems and is automatically provided/available to other systems. Updates in separate systems. Data is stored in separate systems but can be queried in a single location. Single, authoritative answers to fire information questions.
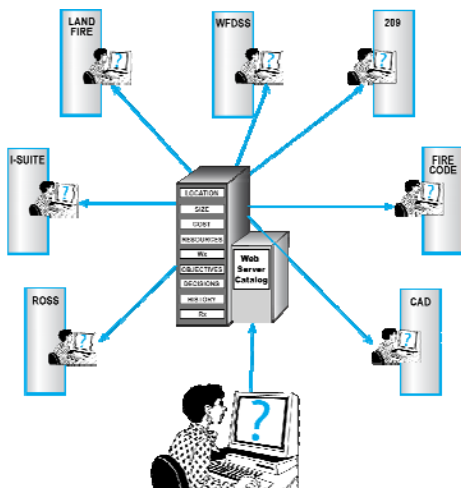
Privileged users:

- log on to each application separately
- data is manually entered into an authoritative application and then can be automatically available to other systems/applications
- updates to data elements entered into the authoritative application can be automatically available to other systems/applications
- queries are can be made to each application separately or in a single location
- single sign-on possible (one login/pwd)

General user/Manager:

- queries can be made to a single location which will retrieve information from the authoritative data source/system of record
- data latency - available as soon as info is available

Web Services

Wildland fire information is entered, updated, and stored in separate systems. Multiple answers to fire information questions possible. Individual systems publish a list of data elements (Web Services) that are available for query. Multiple users send multiple queries to multiple systems without any coordination from a single Query Manager.

Privileged users:

- log on to each application separately
- data is manually entered into each application separately
- updates to data elements entered into each application separately
- data is stored separately in each system
- queries are made manually to each application separately

General user/Manager:

- catalog of data is presented to user
- queries can be made to a single location (Web Server Catalog)