

Operations

Operations are high level categorizations of information manipulation functions that have similar implications for the more specific requirements for the Deployable Components that will implement the Operations.

Specifics

Operational groupings of functions consist of specifics of create, store, transmit, or manipulate data.

Create

1. UI Input: Authenticated Editing Service
2. Sensor: Non human input from a device
 - a. Attached hardware devices
 - b. Time
3. Transact: One or more inputs are used to create a new output.

Store

4. Store: Persist in non volatile ways as either of:
 - a. A system of record
 - b. An operational cache
 - c. What are the model details for a decomposition of data storage at the same level of understanding that the model has for data transmission?

Transmit

5. Publish: Send data on a transport
 - a. Relay it to multiple other component transports.
6. Receive: Receive data on a transport

Manipulate

7. Enrich (denormalize): Change representation to dereference identifiers (such as foreign keys or pointer) to include data with direct semantic meaning to users.
8. Reduce (Normalize): Change representation to keep only references to data with direct semantic meaning to users
9. analyze data to discover common referential data
10. Change its representation:
 - i. encrypt it
 - ii. decrypt it

- iii. Change encoding (e. g. Amongst UTF strings, ASCII, EBCDIC, binary,, etc)
 - b. Filter it
 - i. By record
 - ii. By field
 - iii. By combination of record and field
 - c. Inflate it (colate)
- 11. Change state or mode or context for interpretation of subsequent data.

Output

- 12. UI Viewer: Authenticated Reporting Service
- 13. Control: Non human manipulation of an environment or device state.