Request for Comments - OIAm Vocabulary Renewal

In this document, a proposition is made for the renewal of the OIAm vocabulary. There are a number of significant changes in the new approach:

- The number of words that the vocabulary comprises is extended greatly.
- A new distinction is made between Data/Object Type names and Function names. The idea is to freely enable the combination of <Data/Object Type names> and <Function names>, as an expansion of the now known and documented combinations (e.g. 'Identity Validation'). New combinations are for example 'File Verification' or ´Session Offloading´, et cetera. Of course, combinations should be valid and meaningful, but it is up to the OIAm practitioner to choose combinations that fit the expression needed in a model.
- Not all combinations will be documented as such, the ones that are derived from earlier development cycles of the vocabulary will be retained as examples of valid combinations and the way they can be documented.

The new approach is aiming at giving more flexibility with and a broader usage of the vocabulary, while maintaining a proper degree of standardization at the same time. Below, a complete list of Data/Object Type names and Function names is presented.

Data/Object Types

Address	Identifier/pointer of/to a specific machine or recipient
Application	Sequence of instructions that a computer can interpret and execute
Block	Unit of data on a physical storage medium
Catalog	Systematically arranged directory of information
Configuration	Arrangement of settings
Dataset	Collection of similar and related data for processing
Facility	Array of equipment to afford one or more services
File	Collection of data stored as a unit with a single name
Header	Information preceding a data piece to provide the context of this data
Identity	The fact of being who or what a person or thing is, a persisting entity
Image	Exact replica of the contents of a storage medium
Key	Sequence of characters and/or digits, used by a cryptographic algorithm to encrypt or decrypt data
Message	Unit of information or data that is transmitted from one user or facility to one or more other users or facilities
Model	Reduced representation of (a number of aspects of) reality
Name	Word or phrase that refers to a specific system or file
Period	The amount of (clock)time that has been elapsed between two specific moments / time interval.
Platform	System that hosts and/or executes applications
Presentation	Display of a system or application to an end-user
Profile	Collection of settings for a (type of) user or machine
Record	Unit of data in a structured data storage facility
Rule	Formalism that is used to instruct automated systems
Session	Instance of digital interaction
Sequence	Consecutive flow of data, events or activities

Status	(Predefined) state an entity is in
Stream	Steady, time critical flow of data
Time	Measured or measurable period / moment, as indicated by a clock or calendar, expressed in (milli)seconds, minutes, hours, day, and/or years *(note the ambiguity in meaning of this term, therefore the term 'period' is recommended to express the first)*
Traffic	Exchange of data between automated systems
Transaction	Interaction between users or systems
Workflow	Order in which and with whom/what system activities are carried out
Workspace	Collection of facilities that facilitate end users to interact with the digital world

Functions

Acceleration	Increase of speed/decrease of time needed to carry out a function
Access	Enablement of entrance/usage
Accommodation	Facilitation of functions in the physical world
Aggregation	Collection into a whole
Alerting	Notification of a status that demands intervention
Archive/Archiving	Indisputable authentic preservation for future reference
Assortment	Distribution into different classes/categories
Caching	Performance improvement by buffering and provision of quick access
Calculation	Execution of mathematical operations
Casting	Real-time transmission
Classification	Systematic placement in categories
Collection	Pickup (of items specified in the data/object part)
Conditioning	Manipulation of behavior
Controlling	Command interaction
Coordination	Interoperation control
Coupling	Connection of (equal) parts
Delegation	Organization of representation
Delivery	Transfer, including its completion
Deployment	Placement in a position for utilization
Distribution	(Re)allocation to bring on or closer to the destination
Encapsulation	Application of wrapping to protect or to hide
Encryption	Protective conversion
Engine (Execution)	Execution of predefined automated tasks
Filtering	Removal of unwanted items during transit
Formatting	Prearrangement for usage
Handling	Treatment, manipulation, management
Indexing	Creation of reference (points)
Input	Digitalization (of items specified in the data/object part)
Interconnection	Linkage to bridge a distance or difference
Locking	Preservation of a state
Logging	Recording of activities/events
Lookup	Confined search operation
Multiplication	Creation of exact copy instances
Offloading	Put aside to make room (for example transferring data to a cheaper medium)
Orchestration	Arrangement of automated processes
Output	Human perceptible representation

Preservation	Conservation in the state in which/existing
Prioritization	Arrangement of right of way
Provisioning	Preparation/placement to fulfill a demand on beforehand
Purging	Removal of the unwanted/unnecessary
Queueing	Ordering for dispatch order
Reception	Admission/Intake
Recording	Registration/Transcription
Reduction	Decrease in volume
Register	Distributed retention
Replication	Creation of an exact copy of an instance
Reporting	Presentation of events/results of an automated analysis
Resolution	Substitution of one data type for another, with translation of the corresponding values
Responder	Automated response on behalf of intended recipient
Retention[1]	Storage facilitation
Retrieval	Targeted pickup
Scanning	Sweeping/probing search or digitalization operation
Selection	Assignment of preference
Shipping/Sending	Transportation engagement
Signaling	Interaction to establish communication
Snapshotting	(State) preservation
Store	Centralized retention
Tiering	Ranking (according to a predefined hierarchy)
Transfer	Movement from one place to another
Transformation	Conversion from one appearance, form, representation, state, or phase into another
Translation	Conversion from one expression, state, or phase into another
Tunneling	Shielded/abstracted transmission
Validation	Inspection on (global) accuracy/correctness
Verification	Inspection on (internal) completeness/genuineness
Versioning	Revision control/instance preservation

[1]   Might be obsolete (greyed out)