- Application access data
    - the descriptors defined per gateway
    - these data are available for all users in the gateway
    - frequently retrieved (eg: when scheduling and a data transfer or a job submission occurs)
    - considered as a one time configuration but may have modifications from time to time

- private Workflow template data
    - per user workflow catalog
    - size of a workflow is not constant
    - frequently saved and retrieved only when users are testing their workflows
    - considered as one time configuration but may have modifications more frequently than "Application access data"

- published workflow data
    - per gateway per project workflow catalog
    - size of a workflow is not constant
    - frequently retrieved once in production
    - considered as a one time configuration but may have modifications from time to time

- user data
    - defined per user per gateway
    - considered as a one time configuration but may have modifications from time to time
    - might have frequent retrieval, but less frequent updates
    - Will contain user related data such as,
        - groups belonged to
        - access permissions for projects
        - access permissions for applications
        - access permissions for experiment data

- User Group data
    - set of groups defined per gateway
    - considered as a one time configuration but may have modifications from time to time
    - might have frequent use
    - will contain
        - access permissions for projects
        - access permissions for applications
        - access permissions for experiment data

- Project data
    - will be defined per gateway
    - no of projects will grow slow with time
    - a project will harbour multiple experiments and multiple published workflows
    - will contain
        - access permissions for applications

- User Workspace data
    - This will contain users,
        - private workflow catalog
        - references to experiment which the user is the owner

- Experiment data
    - defined per project (experiment id globally unique throughout the system)
    - grows rapidly over time
    - size is of the data of an experiment is not constant
    - frequent addition of data
    - frequent updates of certain parts of an existing experiment data structure until completion/termination/failure
    - summary of each experiment data will be frequently retrieved
    - Complete experiment data structure will have non-linear data persistence needs
        - eg:
            - statuses of will frequently change down the experiment data structure,
            - depending upon middleware resource availability gfac jobs may be retried predefined number of times
            - application level data persistence (such as application-level statuses) is undefined and will be based on user/gateway preference

- Configuration data
    - defined per Airavata deployment
    - eg: server urls, server configurations
    - frequently retrieved if load-balancing and fault tolerance is implemented