Technical Design for the Network Connectivity and Disk Space checker

# Functional Requirements

The Registration client application should verify the network connectivity for all the external calls before proceeding. This will help the system to identify whether the application is offline or online. This will be called as the initial checker before communicate to the external systems.

The Disk space checker will verify the configurable disk space availability in the local system to store the packet of individual registration details.

The target users are

* Client application, which will use to verify the network connectivity to communicate any external API communication.
* Client application, which will use to verify the minimum configured disk space to save the registration information of the individual known as packet.

The key non-functional requirements are

* Timeout: Should verify the network connectivity with the stipulated time which is configured as timeout for the request.

# Technical Approach

The key solution considerations are -

* Create ***RegistrationAppHealthCheckUtil*** for below operation:
  + Network connectivity checker
  + Disk Space checker
* This should be a singleton class and the operation methods should be static.
* Provide API.
* This class loads the required configuration from property file and validate against it.
* Handle exceptions in using custom Exception handler and provide proper response alert to the end user [which is going to use the registration client].

Apply the below common criteria

* Audit
* Log
* Java Documentation
* Junit

**Configuration:**

|  |  |
| --- | --- |
| **Property Key and Value** | **Purpose of the property** |
| DISK\_SPACE=2GB |  |
| ONLINE\_CONNECT\_URL=https://<otp> |  |
| ONLINE\_CONNECT\_URL\_TIMEOUT=10sec |  |
| ONLINE\_CONNECT\_URL\_JKS=<> |  |

Class Diagram:

<https://github.com/mosip/mosip/blob/DEV/design/registration/_images/_class_diagram/registration-networkconnectivity-classDiagram.png>

Sequence Diagram:

**NA**

1. This should be call as an initial call for all the external calls.