[Email address]

**CDRL: A009 Scientific and Technical Reports**

Internal Testing and Evaluation/Interim Results

Contact No: N6600117C2001

Prepared by: Next Century Corporation

2701 Technology Drive Suite 100

Annapolis Junction, MD 20701

SAVIOR Test Readiness Plan

Version 2, January 2019

# Introduction

Once the SAVIOR system is deployed (see the SAVIOR Deployment Information document), the following tests can be run to ensure its correct operation.

# User-Facing Tests

This section describes tests of components that are meant to be accessed by users and administrators.

## Desktop

To test the Desktop, follow the instructions in the User Information document. The following features should work:

* Logging in with a valid username/password
* Virtues showing in the Desktop window
* A menu of applications for each Virtue
* Starting a Linux application
* Starting a Windows application

Note that it may take several minutes to launch the first application in each Virtue.

## Admin Workbench

You should be able to view the Admin Workbench in a web browser and view information about users, applications, virtual machines, and Virtues, as described in the Administrator Information document.

# Internal Component Tests

This section describes tests of components that normally do not need direct user interaction. These tests are probably unnecessary if all user-facing tests passed. These components are part of the SAVIOR ecosystem, which are not specific to a particular Virtue and run at all times when the SAVIOR system is functioning.

## Virtue Manager

You can browse the Virtue Manager REST API with a web browser or a command line tool such as curl or httpie. Depending on the security settings, you may need to log in (via post /login) and save the returned JSESSIONID cookie before taking other actions.

Example paths to show the Virtue Manager is functioning include:

* /user/virtue/template - shows all Virtue Templates
* /admin/applications - list all applications

For more API information, see the Systems Interface Specification document.

## Sensor API

The sensor API can be queried directly. For example, to see the sensor registration and deregistration with curl:

curl <http://sensing-api.savior.internal:17141/api/v1/sensors/all/inspect>

Or, to see the sensor logs:

curl http://sensing-api.savior.internal:17141/api/v1/sensors/all/stream?follow=true&filter\_level=debug