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**RECORD OF CHANGES**

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| 1.1 | May 28, 2019 | Updated section #2 and #3.1 | Praveena SS | Vijay Durai |  |

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# System Overview

## Purpose Of This Document

This document is a project specific user guide and release notes for use by Vivint automation development projects. It provides guidance/instructions which is intended to assist the relevant stakeholder.

## Description

This Is a generic test automation framework developed by GlobalEdge in Python v2.7. This framework is used to validate feature/functionalities, KPI, throughput, Performance, regression and sanity tests of Vivint’s Wi-Fi products such as display panels and cameras.

This document serves as a both user guide and release notes.

As a user guide, this document briefs about SmartLab automation test bed, system requirements, setup configuration and execution.

As a release notes, this document details about test automation framework releases including release version, supported features, limitations and JIRA status.

## Regression Automation Testbed

<TODO>

## Source Code Directory structure

<TODO>

## System Requirements

<TODO>

# Configuration and execution Procedure

## Test bed preparation

<TODO>

## Download and Install Automation Framework

Download the camera automation repo for the respective release from the Bitbucket repository. Refer section #3.1 for the specific release.

## Regression Automation Testbed Configuration

Regression automation testbed configuration id carried out via .ini format. All .ini configurations are found at /VivintSmartHome/Config/RegressionAutomation/ path.

Latest working .ini files is embedded below,



## Test Scripts

All test suites are found in /VivintSmartHome/TestSuite/RegressionAutomation/ path

## Execution

Follow the below steps to execute the test suites,

* 1. Change directory to tests/ path

# cd /VivintSmartHome/TestSuite/RegressionAutomation/

* 1. Execute the below command to run the single test case

# nosetests -c <ini\_filename\_with\_path> --nocapture <TestSuite\_Name>

Example:

#sudo python regression\_all.py

## PASS/FAIL Criteria

PASS

‘OK’ keyword is observed in terminal logs, after the completion of the test suite execution.

FAIL

‘FAILED (errors=1, failures=1)’ keyword is observed in terminal logs, after the completion of the test suite execution.

Sample logs (both pass and fail) are embedded below for the reference,

# Releases

Overview on automation framework versions and naming conventions.

Syntax:

***V<Major\_ Number>.<Minor\_ Number>.<Maintenance\_Number>***

***Major\_ Number*:** Changes when release includes design/architectural changes or new requirements w.r.t features/functionalities implemented.

***Minor\_ Number*:** Changes when release includes bug fixes with enhancements are implemented.

***Maintenance\_Number*:** Changes when release includes bug fixes and test suite addition.

Example:

*GES\_Vivint\_Regression\_Automation\_v1.0.****1***: maintenance number variation

*GES\_Vivint\_Regression\_Automation\_v1.1.0*: minor number variation

*GES\_Vivint\_Regression\_Automation\_v2.0.0*: major number variation

## GES\_Vivint\_Regression\_Automation\_v1.0.0

### Source code repository path

Vivint: <TODO>

GES: https://gs.globaledgesoft.com/root/VivintSmartHome/commits/RegressionAutomation

### Sprint/Release summary

1. Skycontrol Panel handling libraries enhancements
2. Camera handling libraries enhancements
3. Live streaming support for camera
4. Created .ini config files for each of the camera Ping, DBC, HD400 and HD300
5. Developed library for reading configs form .ini files
6. Developed sanity test suite and following test cases are covered.

GES\_Vivint\_SAN\_0001, GES\_Vivint\_SAN\_0002, GES\_Vivint\_SAN\_0003, GES\_Vivint\_SAN\_0004

1. Sanity testing

### Unit Test Logs

Find the below embedded unit test logs

<TODO>

### Sanity Test

Covered sanity tests for DBC, HD300, HD400 and Ping with SC panel. Logs are embedded below.



### Automation Test coverage

Embedded test report below,



### Limitations/Known Issues

* Sniffer server need to start manually in sniffer machine.
* INFR-3616: Prior to automation, panel host module login to be required by manually.

### JIRA Status

|  |  |
| --- | --- |
| **Task Tickets** | |
| **JIRA ID** | **Status** |
| AUTO-6170 | Closed |
| AUTO-6167 | Closed |
| AUTO-6169 | Closed |
| AUTO-6168 | Closed |
| AUTO-6173 | Closed |
| AUTO-6174 | Closed |
| AUTO-6172 | Closed |
| AUTO-6171 | Closed |
| AUTO-6176 | Closed |
| AUTO-6175 | Closed |

|  |  |
| --- | --- |
| **Device Tickets** | |
| **JIRA ID** | **Status** |
| INFR-3616 | New |

### Static code analyzer reports

Pylint tool is used as static code analyzer. Report is embedded below.



# ACRONYMS AND ABBREVIATIONS

AP Access Points/Wi-Fi Routers

APC American Power Conversion

DBC Doorbell Camera

DUT Device Under Test

DVR Digital Video Recorder

GES Global Edge Software

IP IPv4 Address

MAC Medium Access Control

NA Not Applicable

Pylint Python static code analyzer

RPI Raspberry Pi

SSID Service Set Identifier

UUID Universally unique identifier

# Annexure

# Contact

Contact below automation developers for any automation related queries.

|  |  |
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