Module Data Sheet – Pronghorn Platform

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**Document Revision History**

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| **Version** | **Modified by** | **Date** | **Changes** |
| 0.1 | F. Padit | 2017-03-16 | Initial Version. |
| 0.2 | F.Padit | 2017-05-10 | Added Sikuli core technoloy |
| 0.3 | F.Padit | 2017-05-17 | Added Features, Communication Modules, System Requirements, Configuration |
|  |  |  |  |

# Introduction

Pronghorn Platform is a dedicated environment for QA testing that supports browser and desktop application testing.

Modules:

* pronghorn-common
* pronghorn-engine
* pronghorn-message
* pronghorn-model
* pronghorn-mq-client
* pronghorn-wrapper
* pronghorn-ws
* pronghorn-ws-client

Technology:

* Selenium
* Sikuli
* RabbitMQ
* MongoDB
* VMware
* Java

# Features

* Image recognition
* DOM selector
* Screenshot
* Report Generation
* Data repository
* Data validation
* Queuing system
* Platform virtualization
* Test Case repository
* Micro service achitecture
* Horizontal scalability

# Known Issues/ Limitations

* N/A

# Roadmap

* Create Pronghorn Platform
* Integration to Delivery pipeline
* QA Platform as a service

# Communication with Modules

* Pronghorn-WS (RESTful)
* Pronghorn-Wrapper

# Deployment

* N/A

## 6.1 Prerequisites

* N/A

## 6.2 System Requirements

* Platform: Windows 7,8,10
* Java 1.8
* RabbitMQ server 3.6.8
* MongoDB server 3.4
* Vmware Workstation 12 Player

## 6.3 Installation and Usage

* N/A

## 6.4 Configuration

* **Required Configuration**
  + On IE 7 or higher on Windows Vista or Windows 7, you must set the Protected Mode settings for each zone to be the same value. The value can be on or off, as long as it is the same for every zone. To set the Protected Mode settings, choose "Internet Options..." from the Tools menu, and click on the Security tab. For each zone, there will be a check box at the bottom of the tab labeled "Enable Protected Mode".
  + Additionally, "Enhanced Protected Mode" must be disabled for IE 10 and higher. This option is found in the Advanced tab of the Internet Options dialog.
  + The browser zoom level must be set to 100% so that the native mouse events can be set to the correct coordinates.
  + For IE 11 only, you will need to set a registry entry on the target computer so that the driver can maintain a connection to the instance of Internet Explorer it creates. For 32-bit Windows installations, the key you must examine in the registry editor is HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Internet Explorer\Main\FeatureControl\FEATURE\_BFCACHE. For 64-bit Windows installations, the key is HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Internet Explorer\Main\FeatureControl\FEATURE\_BFCACHE. Please note that the FEATURE\_BFCACHE subkey may or may not be present, and should be created if it is not present. **Important:** Inside this key, create a DWORD value named iexplore.exe with the value of 0.
* Logging
  + Log4J configuration: {project folder}/conf/log4j.properties

## 6.5 Database Access

* MongoDB

## 6.6 Logging

* **Log4j**
  + Visit <https://logging.apache.org/log4j/> for documentation

## 6.7 Troubleshooting

## 6.8 Getting Started Information

**Source Code:** <https://github.com/faustp/pronghorn-platform>