IoT Quality and Testing Services

Apart from designing and manufacturing of the IoT devices, testing services also carries equal importance. Beacon provides a variety of testing services under IoT Quality and Testing Services. The testing methodologies includes Lab tests, Simulation tests, variety of testing tools etc.

Device – Cloud Interaction Interface:

The IoT devices will be interacting with the cloud by transmitting and receiving data. The data encounter will be tested in many ways for better quality conformance and assurance.

Cloud – User Interaction Interface:

The user interface is the point where the end users will be in touch with the system and make use of it. The success of the IOT technology lies in this interface as the user experience the service if the connectivity and service are seamless.

Testing Types:

Usability Testing:

The embedded device, web applications, apps etc. will be tested whether the entities works as per the user expectation and usability standards. Also the perception of the users may vary from user to user. The different scenarios of usability testing will be undergone.

Compatibility Testing:

The creation of an environment to test a real-time IoT implementation is a challenge. Various devices, sensors, protocols or combinations of these would result in complexity in normal testing. Compatibility testing involving a combination of these entities and provide a normative result; also ensures compatible issues will be highlighted.

Load Testing:

System Crash, slow response time, abnormal system behavior etc. will be tested in this category. This includes the number of IoT devices connected, number of users connected with the server/cloud, data communication traffic between IoT units – Server/cloud - users etc.

Scalability Testing:

A virtual environment by means of similations will be created for scalability of the units as well as users.

Field Testing:

The real time testing of the Iot devices by deploying them in the actual working condition/ environment**.**