

Transformers are one of the most important equipment in power network. Because of, the large number of transformers distributed over a wide area in power electric systems, the data acquisition and condition monitoring is an important issue.

Transformers have a long service life if they are operated under good and rated conditions. However, their life is significantly reduced if they are overloaded, resulting in unexpected failures and loss of supply to a large number of customers thus effecting system reliability. Overloading and ineffective cooling of transformers are the major causes of failure in distribution transformers. Most power companies use Supervisory Control and Data Acquisition (SCADA) system for online monitoring of power transformers but extending the SCADA system for online monitoring of transformers is an expensive proposition. Transformers are currently monitored manually where a person periodically visits a transformer site for maintenance and records parameter of importance. This type of monitoring cannot provide information about occasional overloads and overheating of transformer oil and windings. All these factors can significantly reduce transformer life. Our system is designed based upon online monitoring of key Operational parameters of transformers can provide useful Information about the health of transformers which will help the utilities to Optimally use their transformers and keep the asset in operation for a longer Period. This system will help us to identify problems before any catastrophic Failure, thus resulting in a long life service for transformers.

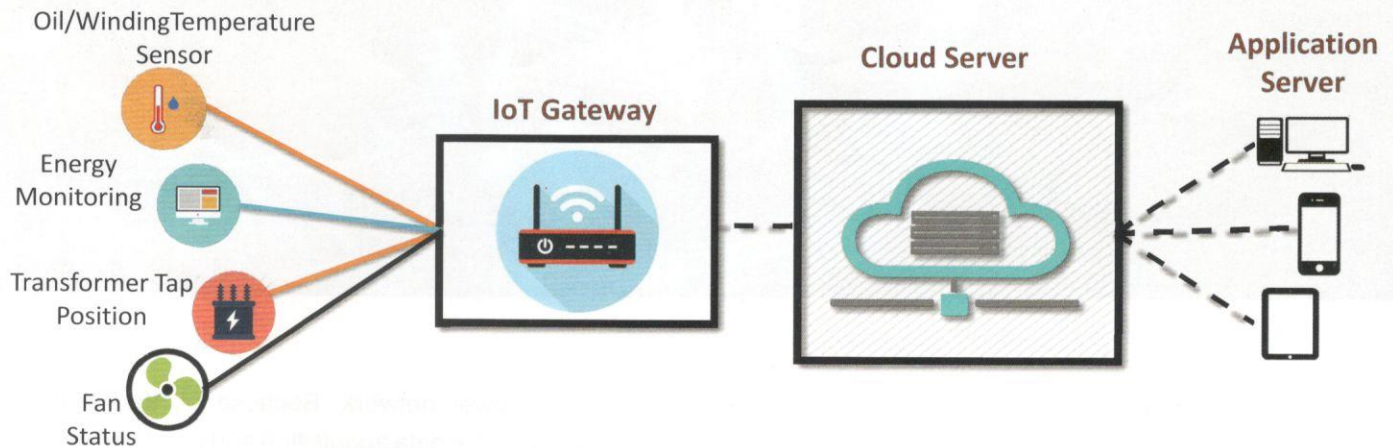
## OUR OFFERING

Digital Reach provides complete IoT gateway / controllers from data acquisition, transmission (3G/LTE/Wi-Fi) and computing in order to help our customers use intelligent systems using our extensive resources. Customers can focus on their smart applications with minimal system integration effort. Our solution offerings & services are fully compatible with most of the applications and provide all the components customers need for building an intelligent system.

## FEATURES

- Advanced detection of abnormal conditions
- Provides 24/7 access to current operational data, trends, alarm history and messaging from a central location or remotely
- Flexible, scalable architecture by using IoT gateway
- Easily installed on new or legacy transformers from any manufacturer.

# TRANSFORMER MONITORING



## BENEFITS

- Reporting on power quality values recorded at the transformer.
- Reporting of transformer loading including individual phases.
- Reporting against recorded temperatures at the transformer.
- Real-time alarms for power outage, power quality parameters and other critical alerts including alerts from third party equipment like WTI, OTI, OLTC.

## ABOUT US

Digital Reach is an IoT based solution company. We are experts in combining technical knowledge and insights from our extensive experience in the field to create Internet of Things (IoT) solutions, with our strong focus on innovation and integration with customer domain expertise. We create monitoring and control products and solutions that improve processes and services for our customers.

With our expertise is in embedded hardware development, embedded software development, system integration and project execution, in everything we do, we apply our values of respect and honesty through a commitment to teamwork and a high degree of responsibility to our customers, not only to satisfy but also to exceed our customer's expectations.