

ASSET MONITORING

for a Solar Estate Installation Company



Service: IoT

OVERVIEW

The customer operates a Solar farm which is of 10 MW generation capacity. The solar estate has large ground mounted arrays of PV (photo voltaic) panels. DC current generated from the PV is fed to micro inverter. Inverter converts DC current into AC. For harmonic tuning, a transformer is used. From the transformer, power is transported to Grid through the switch gear.

CHALLENGES



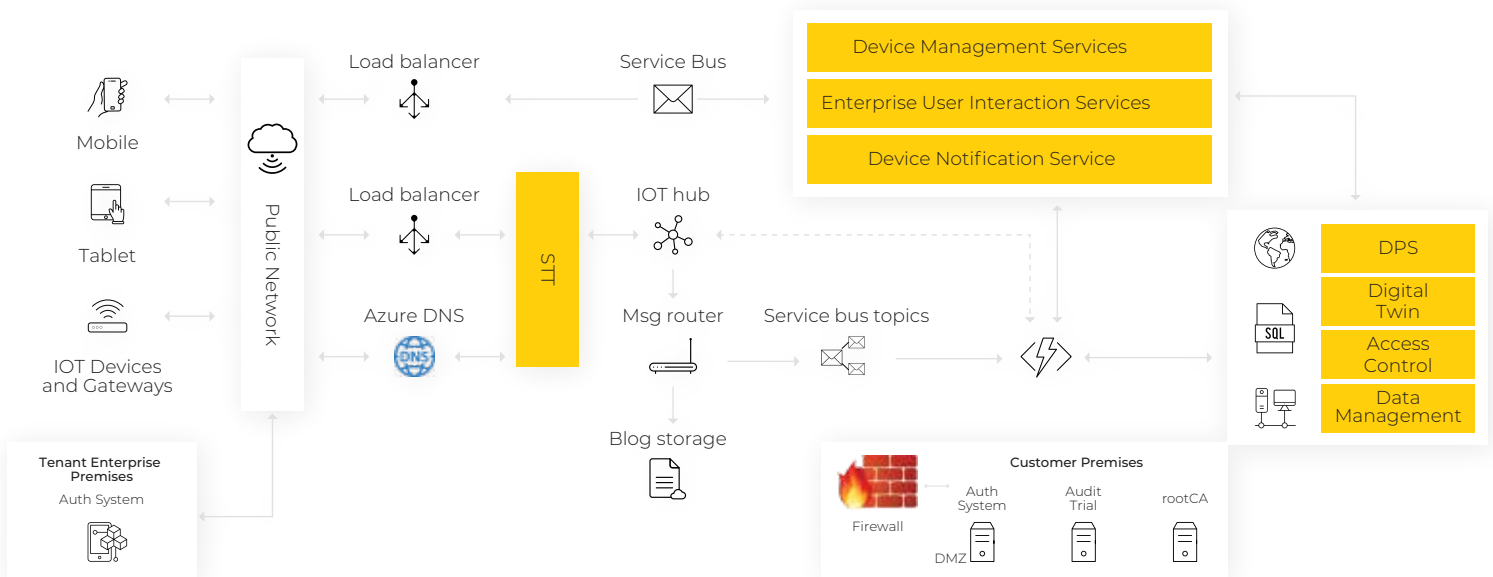
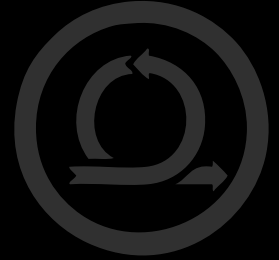
Need for a Real time monitoring system to monitor the life cycle states of Photo Voltaic panels, Inverters and Switchgear



Need to monitor farm wide environmental characteristics

SOLUTION

- 1 ACL Digital delivered complete insights into the solar estate component's health and preventive maintenance recommendation
- 2 ACL Digital leveraged Azure PaaS (Azure Platform as a Service) components in the development as much as possible to shorten the development cycle



OUTCOMES

- Real time insights into problems with a specific panel rather than seeing a decrease in overall performance of the farm
- Predictive analytics to help the Solar Farm managers prepare the power grid for future power consumption



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