

### **Background and Opportunity**



Turnover £67 m

Total Assets **£182m** 

• Following successful evaluation of GUARDIAN® in Q1 2019, this large, NE based, housing group chose to implement the technology across their full portfolio of sheltered housing units. The customer wanted to utilise the data collected by GUARDIAN® to understand usage profile of each asset. Their goal is to provide an enhanced Legionnaire compliance management, reduce operating costs and remove the risk of human error.

- The basic measurement and compliance service provided by GUARDIAN® technology is price competitive with manual measurement methods. The added value gained from real time data analysis, however, will deliver a significant competitive advantage via provision a materially improved service to residents, along with reduced operational costs.
- GUARDIAN® was installed across all facilities in Q3 2019 and was providing valuable data and insights to enable a high quality of compliance management within the organisation. Tenants were no longer required to be inconvenienced by visits for manual measurement.
- When lockdown was imposed as a result of Covid 19 outbreak, the organisation suffered no interruption of compliance management as GUARDIAN® continued to supply valuable insights and maintain temperature measurement regime.
- Additionally throughout lockdown GUARDIAN® has enabled flushing regimes to be tracked and managed, alerted to significant change of user profiles and highlighted critical maintenance issues, ensuring that rapid resolution is possible by the organisation.

### **Old Capability**

- Engineer required to manually measure water temperatures on monthly basis.
- Compliance management would have been interrupted during Covid 19 lockdown as no access to flats was allowed.
- No visibility of performance, condition and actual use profile of hot and cold water systems.
- No possibility of verifying whether flushing is carried out or not.
- Human intervention can be prone to error.

### **New Capability via Plexus Innovation**

- GUARDIAN® digital remote measurement devices installed and operate automatically in real time.
- Data fed remotely to cloud based platform. Data stored electronically and alerts can be user configured.
- Visibility and profiling of water system performance and usage, along with tracking of flushing regimes.
- Human intervention for measurement and reporting is removed, along with risk of error and missed visits.
- Real time compliance tracking. Over 500,000 measurements per year.

#### **Outcomes**

- Legionnaire compliance visits cost reduced by 67%.
- Uninterrupted Compliance management throughout Covid 19 lockdown..
- Flushing regimes accurately tracked, enabling missed events to be rapidly identified and managed.
- Identified several critical boiler issues, enabling informed maintenance decisions and effective resolution.
- Enabled effective cross function coordination via identification of significant changes to user profile.



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#### **Flushing Regime Tracking**

Enables tracking of flushing to ensure carried out as scheduled

■ Events

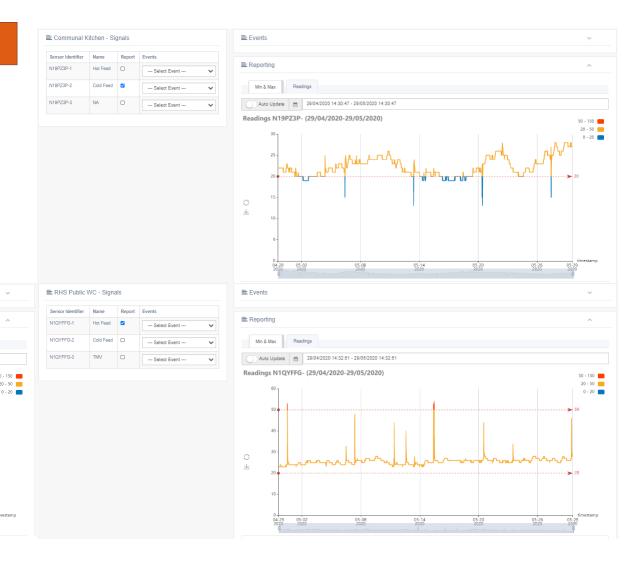
■ Reporting

Min & Max Readings

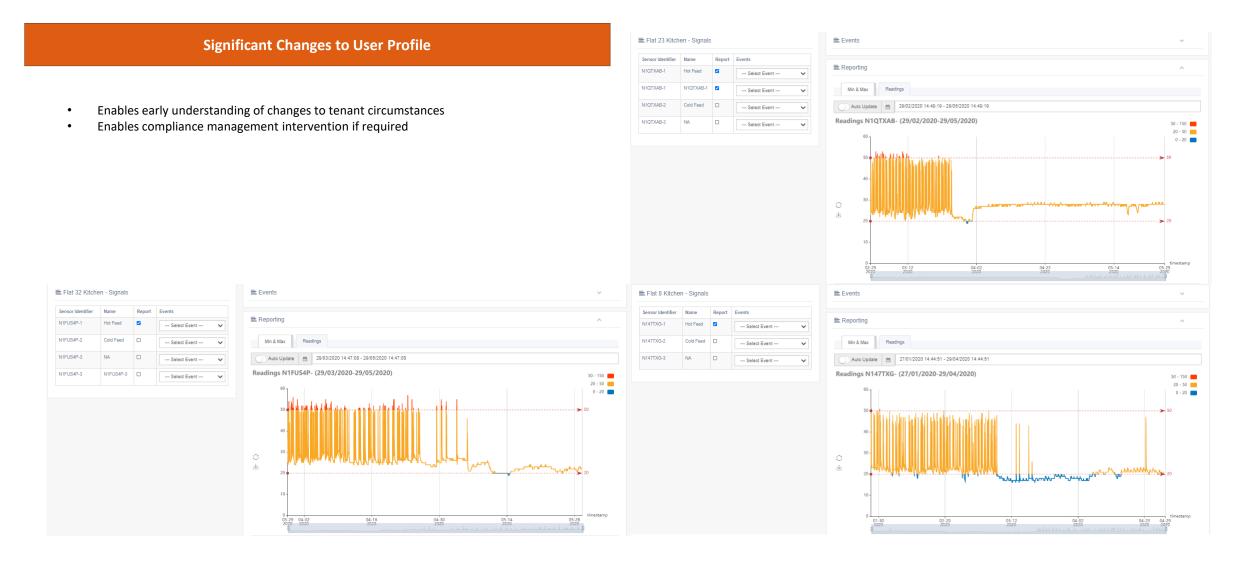
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■ Ground Floor Sluice - Signals

 Confirms whether flushing is carried correctly and enables management intervention if not









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### **Maintenance and Operational Issues Identified**

Provides early indication of potential issue to be resolved

HWS 01 (L) - Signals

Enables faults and maintenance to be tracked and documented

■ Events

■ Reporting

--- Select Event --

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• Issues highlighted include potential undersized boiler, faulty thermostat and multiple losses of hot water feed

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