

CASE STUDY

GOOGLE ODI, SYDNEY

INTEGRATION PLATFORM
DELIVERY

A FULLY CLOUD BASED
SOLUTION THAT WILL ENABLE
THE NEXT GENERATION OF
BUILDING DATA ANALYTICS

Google



THE CHALLENGE

- Google are wanting to use their advanced, cloud based AI and data processing tools to manage their buildings world wide - In Google's words they want to 'run Google, on Google'
- Google require an integrated building system to collect and send data to the Google Cloud Platform, which it can understand
- Alongside the data they require a Building Ontology that categorises and describes the relationships between the building and all connected devices in the IoT environment
- Google want to use this data to improve energy and operational efficiency, occupant comfort and productivity whilst maintaining stringent cyber security

IBMS SOLUTION

- Develop and deploy onsite gateways that can translate between traditional building technology and the Google IoT Core
- Build a Cloud environment that can integrate this data and present it in a form Google can consume for analytics
- Deploy Revata™ in the cloud and utilise its analytics and visualisation tools to empower a Facility Manager to identify opportunities for energy savings, identify operational deficiencies and pre-empt occupant comfort issues.
- Create a BRICK model that describes the building and devices physically and logically, providing contextual metadata to the device data streams

OUTCOMES

- All building data will be available in the Google Cloud Platform
- The ability to command and control devices from the Google Platform
- Google will have access to the data they need for analysis and the ability to act upon it
- By combining the integrated building systems data with the metadata from the BRICK model Google can deploy its suite of cloud tools including Diagflow software to create chat bots to query buildings using natural language
- This will enable Google to create Machine Learning algorithms to discover new ways to operate buildings more efficiently and visualise data in new ways using tools such as Cloud Datalab