

NTT DATA Azure Digital Twins: Leveraging the virtual world to drive real-world improvements

Empower your business with real-time monitoring and analysis of physical assets using digital twins

Introduction

Are you looking for a better way to drive sustainability throughout your organization? Do you struggle with operational efficiency within your organizations? Are you looking for way to leverage the latest “digital twins” technology to help with real-time monitoring and analysis of your physical assets? If you answered yes to any of these questions, then look no further. The NTT DATA Azure Digital Twins solution drives sustainability and operational efficiency goals across the enterprise.

By leveraging the power of Microsoft Azure and specifically the Digital Twins capabilities, this solution allows users to stream sensor data from physical devices and then convert it into a digital rendering. With this solution, users can conduct analysis on the data populating into the digital twins...allowing you to observe and derive patterns from the data and then make key business decisions much more effectively than ever.

Main Features and Benefits

Features include:

- Connect assets, including IoT devices, to business systems using Azure IoT Hub, Logic Apps, and REST APIs
- Graph-based execution environment to bring your digital twins to life with 2 dimensional and 3 dimensional renderings
- An open modeling language for creating customized domain models for any connected environment
- Output twin change events to Azure Data Explorer, Azure Synapse Analytics, Event Hubs, and other downstream services

Benefits include:

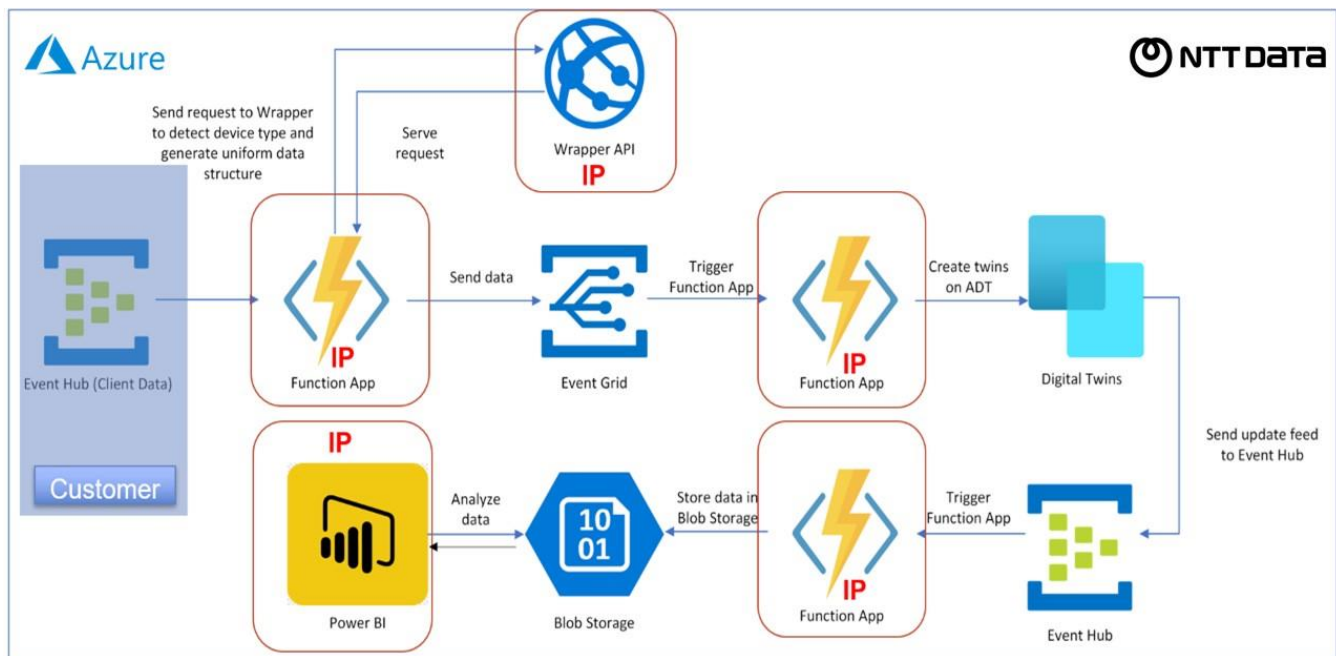
- Drive sustainability and operational efficiency goals across the enterprise
- Easily view actionable insights into total sustainability value operational efficiency gains opportunities
- Reduce silos of information throughout the organization leading to benefits from predictive and preventative maintenance, better supply chain forecasting, and improved asset performance.
- Leverage data from IoT sensors and business systems to build IoT spatial intelligence
- Utilizes machine learning with advanced simulations and modeling for better visibility and recommendations

NTT DATA Azure Digital Twins

Microsoft Technology includes:

- Azure Event Hub
- Azure Function Apps
- Azure App Service
- Azure Event Grid
- Azure Digital Twins
- Azure Blob Storage
- Power BI

Architecture



If you are looking for a solution that allows you to drive sustainability & operational efficiency goals across your entire enterprise, then look no further...the NTT DATA Azure Digital Twins solution is what you need.

Summary

The NTT DATA Azure Digital Twins Solution, leveraging the power of Microsoft Azure, allows you to build digital models of an organization's key physical assets. You can easily model and create digital representations of the most important assets. This enhanced monitoring and analysis of your organization's assets lets you better understand the past, monitor the present, and more effectively predict the future.

If you are interested in learning more about this or other solutions, please visit our website at www.nttdata.com.