# TARTABIT
## IOT BRIDGE

&

# mono
## things to life...
### powered by Meritech

# Microsoft Azure

# Enabling NBIOT / LWM2M to Microsoft IoT Central Demonstration of Value Delivered In Minutes

## Featuring Meritech MonoZ Dev Boards and new Tartabit IOT Bridge Low Code Solution Templates

# Channel Partner Success:



## monoZero BG96
### with Quectel BG96 Modem

Working with the leading providers of IoT hardware creates an endless number of opportunities to help customers get to market quicker and with less headaches. Meritech provide NBIOT Development Kit with a stackable rapid prototyping platform to innovators and adopters helping them achieve rapid development of IoT enabled products and services. Tartabit IoT Bridge allows the Meritech's monoZ NBIOT and LTE-M offerings to be quickly integrate to Microsoft Azure IoT Service domain enabling our common customers to get solutions to market faster.

## Developer Friendly

Low-code development eliminates the need to hire individuals with deep IoT knowledge to be successful.

Easy to use tools leveraging a templatized approach allowing developers to go fast and get it right the first time yet flexible enough for customization

Well Documented and Standards Based.

## Business Ready

Save development time and expense in addition to achieving a reduction in the solution's data plan requirements. Customers see a typical LWM2M data profile reduction up to 70%

LWM2M enables improved power consumption which increases device battery lifecycle and reduced truck roll costs.

Lower operational costs and faster time to revenue will yield a better ROI.
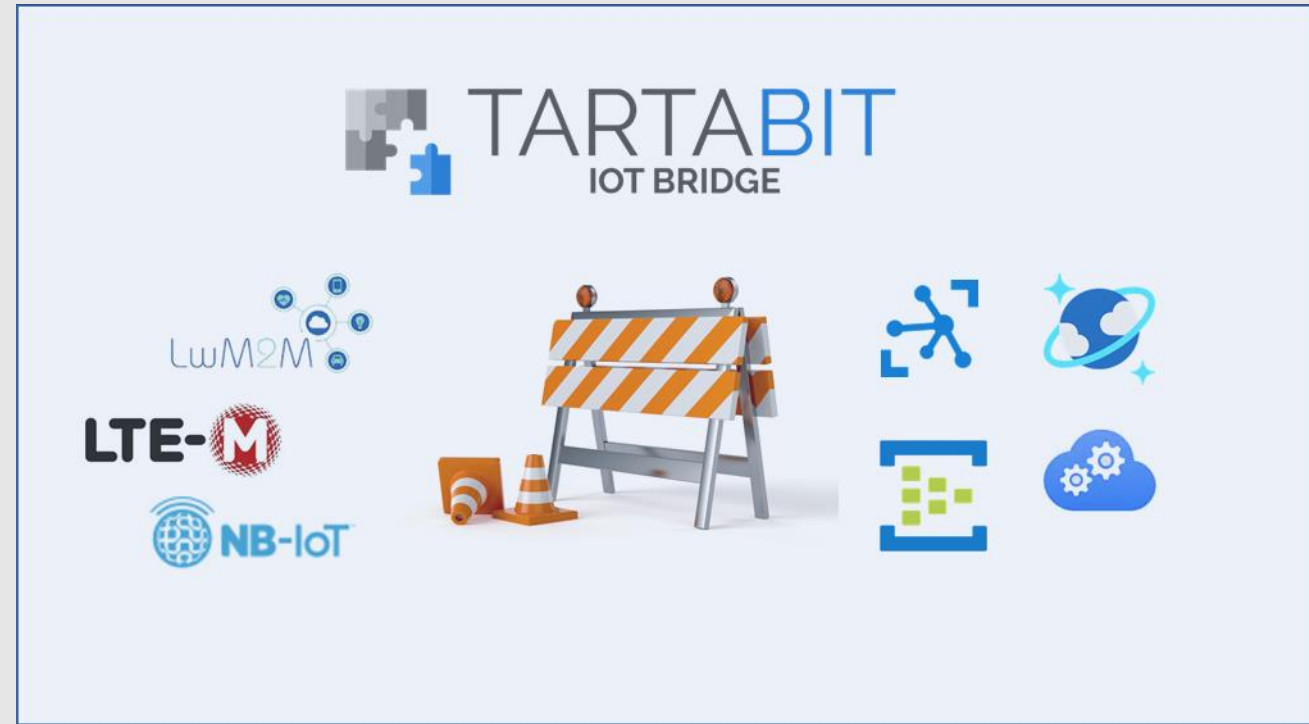
## Win Win Win

Innovators achieve a faster time to Microsoft onboarding and synergies with Microsoft Marketplace GTM.

Meritech realizes a quicker time to customer success when customers utilize IoT Bridge as apposed to a Do-It-Yourself implementation.

Microsoft gains a standard onboarding model for the large number of Meritech customers.

# New IoT Device and Network Technologies bring cost savings as well as integration challenges.

In the cellular space, LPWAN optimized transports like LWM2M can reduce network traffic and likewise the cost of your SIM data plan by over 70% enabling many use cases that were previously impossible due to cost constraints. The challenge however is that the protocols are not cloud ready and require unique handling. Doing it wrong means larger than needed data plans and shorter than desired battery life.



## CHALLENGES

Volumes of LPWA-LTE devices will pass other LTE devices in 2022. Mapping of LWM2M to Azure is not a natural fit and require specialized technologies and solutions to integrate these device into standard hyperscale cloud systems. The challenge is to decrease data plans costs, increase device battery life and get to market faster.

## IDEAL SOLUTION

Reduce data plan costs, increase device battery life and gain robust IoT device context using modern IoT communication protocol standards. Tartabit IoT Bridge is the easiest to use, buy and deploy LPWAN Cloud Gateway Service available to enable next generation IoT device data with Azure Deployments.
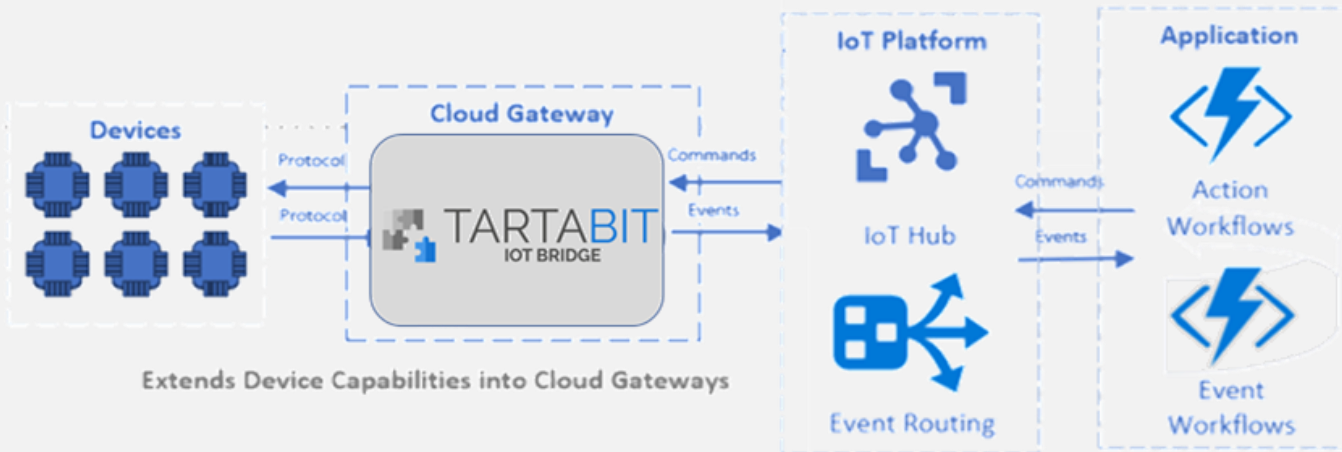
## DESIRED OUTCOMES

TARTABIT IoT Bridge is all about making seamless data delivery from LPWAN devices to Azure IoT services quick and easy.
IoT Bridge allows device context and data enrichment with the use of low-code developer friendly services.

# TARTABIT

## IOT BRIDGE

Providing a cloud gateway service making integration between LPWAN devices and Microsoft Azure IOT cloud services easier than ever. Leverage decades of experience in IoT platform services to accelerate your product innovation and delivery. IoT Bridge was built by IoT Developers for IoT Developers.

### Easy-to-Use: Low-code approach

A low-code approach to solving some of the most critical IoT deployment challenges. Utilizing the easy-to-use solution templates, you can accomplish the most complex and valuable integration tasks. Bringing IoT data into your Azure Application Environment quickly and easily.

### Native IoT Data Integration into Azure

IoT Bridge brings home critical data from the worlds most used IoT Protocols and Networks. IoT Bridge manages the integration of devices operating on licensed Low Power Wide Area Networks directly into your Azure IoT application development environment.
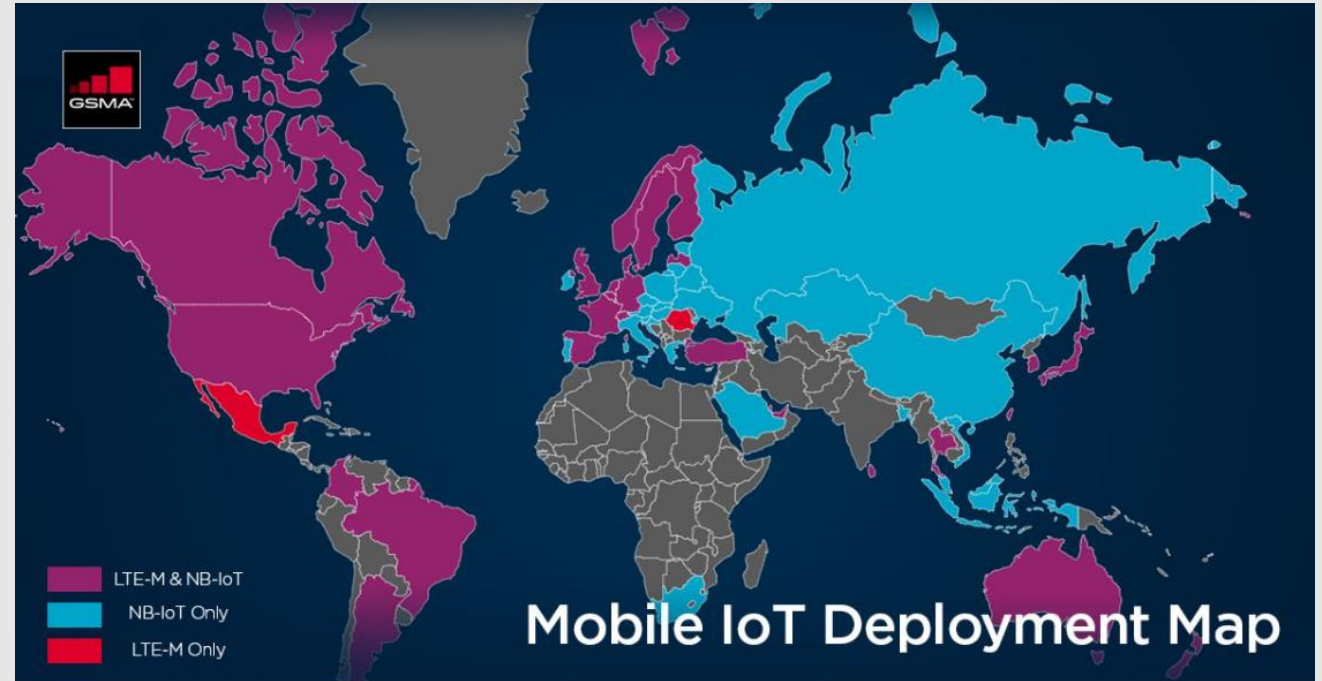
### Developer and Business Friendly

Tartabit IoT Bridge allows any developer to quickly integrate disparate LPWAN data into your Azure environment. Leverage the application developer skills you have on staff without the need to hire a team that understands LPWAN. Get to market quicker while spending more time focusing on creating application value not solving integration complexities.

# Growing importance of LPWA-LTE

## Global LPWA-LTE roll-out is positioned to enable meaningful IoT solution advantages

Industry Standard LWM2M for LPWA-LTE Devices

- Radically Decrease IoT Data Plan Expense

- Increase IoT Device Battery Life

- Enriched IoT Device Management

- Richer IoT Connectivity Context



GSMA

LTE-M & NB-IoT
NB-IoT Only
LTE-M Only

Mobile IoT Deployment Map

**TARTABIT** IOT BRIDGE    *Enabling Better IoT Solutions*

REDUCED
DATA
COSTS

INCREASED
BATTERY
LIFE

REDUCED
TRUCK
ROLLS

BETTER
BUSINESS
CASES

# TARTABIT IOT BRIDGE + Microsoft Azure IoT

IoT Enabled Solutions can be intimidating to many OEM service providers or Enterprise Clients. New protocols, different technologies and multiple networks can make any new IoT project seem daunting. Don't worry, Tartabit IoT Bridge is designed to make the IoT onboarding and data ingestion into IoT Azure as seamless as possible saving you time, money and developer frustration.



## Save Time and Money

Leverage modern LWM2M and CoAP IoT device protocols and Tartabit IoT Bridge service to reduce the total costs of deployment through data plan savings and reduction in time to market. Quickly integrate with the developer centric IoT Bridge service moving the workload quickly into Microsoft Azure IoT services.

## Leverage the Azure IoT Ecosystem

Microsoft provides world class application development environments and solution hosting resources. Tartabit IoT Bridge allows your developer community work on creating value in the Azure service environment. Our goal is to move your device data quickly and seamlessly into your development and operational comfort zone.

## No IoT expertise needed

Built by a team with decades of IoT experience we made the service simple for anyone to use with predefined integration templates and a low-code methodology. This means that because of our IoT experience you can use the IoT Bridge service to accomplish some of the most advanced onboarding and data ingestion challenges without the need to hire IoT Industry veterans.

# Ideal Solution Bundle

**TARTABIT**
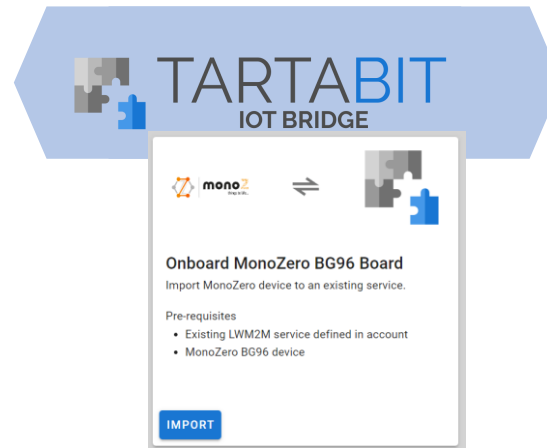**IOT BRIDGE**

## monoZ
## monoZero BG96



- **Supports LTE-M, NB-IoT and GNSS**
- **Supports Bluetooth LE and NFC**
- **Stackable GROVE Board Design**
    - **Compact and versatile design, it is stackable with add-on boards thereby making it a very powerful development board to build a wide range of M2M/IOT applications.**
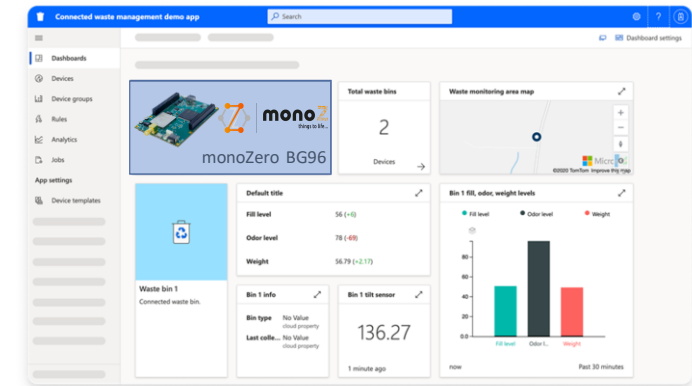
- **Nano SIM card socket provided for developer flexibility**
- **monoZ SDK for developer use - reducing time to market.**

## Tartabit
## IoT Bridge

**TARTABIT**
**IOT BRIDGE**

**Onboard MonoZero BG96 Board**
Import MonoZero device to an existing service.

**Pre-requisites**
- Existing LWM2M service defined in account
- MonoZero BG96 device

**IMPORT**

- **Provide Low Code monoZero Solution Template**
- **Provide Low Code IoT Central Solution Template**

## Microsoft
## IoT Central



- **Minutes to Value Sample Dashboard**
    - **Mapping and Breadcrumb**
    - **Current Location**

- **Time Series Graph and Dials Showing Value of LWM2M Objects**
    - **Sensors configurable with mono SDK**

**Better Together**