IBM Internet of Things Foundation for Bluemix

Except as noted below the terms of the IBM Bluemix Service Description or Terms of Use, as applicable, apply.

1. **Cloud Service Description**

   IBM Internet of Things Foundation (IoT Foundation) is a fully managed, multi-tenant, cloud hosted service. Capabilities include:
   
   - Connection of a wide spectrum of devices
   - Use of the industry standard MQTT protocol for device connectivity
   - Device registration and management
   - Ability for devices and applications to produce and consume events in near-real-time
   - Built in Time Series Historian for IoT data storage
   - Fully managed multi-tenant cloud service hosted on IBM SoftLayer
   - Compose with Bluemix for IoT application development and deployment

2. **Entitlement and Billing Information**

   2.1 **Tiers**

      Usage of IBM Internet of Things Foundation is provided by tier – Bronze, Silver and Gold. Each tier has a base allocation of Active Devices, Traffic and Historian Storage which is included in the charge for the tier, and may be increased by acquiring additional Devices, Traffic and Historian Storage entitlements when the tier is selected. For each tier there is a free allocation of active devices, Traffic, and Historian Storage. This allocation is currently 20 Devices, 100MB of data, and 1GB of storage. Exceeding this allowance will result in activation of the selected tier and the associated charges.

   2.2 **Charge Metrics**

      The Cloud Service is offered in accordance with the following charge metric(s):

      a. **Access**: Access is the right to use the Cloud Service.

      b. **Instance**: An Instance is access to a specific configuration of the Cloud Service. Client will be charged for each Instance of the Cloud Service that is deployed during the billing period.

      c. **Average Daily Client Device**: A Client Device is a single user computing device or special purpose sensor or telemetry device that requests the execution of or receives for execution a set of commands, procedures, or applications from or provides data to another computer system that is typically referred to as a server or is otherwise managed by the server. Multiple Client Devices may share access to a common server. A Client Device may have some processing capability or be programmable to allow a user to do work. The Daily Client Device count is the number of unique Client Devices that run, provide data to, use services provided by, or otherwise access the Cloud Service during that day. Client will be charged for the average of the Daily Client Device counts for each month of the billing period.

      d. **Gigabyte-Month**: A Gigabyte is 2 to the 30th power bytes. Client will be charged for the average number of Gigabytes used, stored, or configured in the Cloud Service during each month during the billing period rounded up to the next Gigabyte.

      e. **Megabyte Transmitted**: A Megabyte is 2 to the 20th power bytes. Client will be charged for each full or partial Megabyte of data transmitted to and from the Cloud Service.

3. **Safe Harbor Framework**

   The Cloud Service does not comply with the US-EU and US-Swiss Safe Harbor Frameworks.

4. **Encrypted Communication**

   The Cloud Service supports encryption of communication between devices/applications and the Cloud Service. To support a wide range of low-powered devices in the market, which may not perform (or do not routinely perform) encryption, the Cloud Service also offers support for unencrypted communication...
between devices/applications and the Cloud Service. IBM recommends wherever possible the use of encrypted communication. Client agrees to hold IBM harmless from its damages and against any third party claim arising out of or relating to Client choosing to use unencrypted or insecure communication between devices/applications and the Cloud Service.