# MIMOS Internet Services of Things (Mi-MIST)

The widespread usage of smartphones and smart sensors has transformed the communication network today into a connected web of smart devices and intelligent services. MIMOS Mi-MIST provides a common Internet of Things (IoT) platform to integrate these devices and enable new services and applications for the IoT marketplace.

## Overview

MIMOS Internet Services of Things (Mi-MIST) is a middleware with integrated services to manage smart devices and sensors to enable applications in Internet of Things (IoT) solutions. This application enablement platform (AEP) integrates smart devices in a simple and standardised way to provide smart services. It facilitates IoT deployment by eliminating the complexity in integrating devices and reduces market entry barriers by reducing high application development cost and creating new context-aware IoT services.

## Features

Mi-MIST AEP features the following capabilities:

- **Broad Device and Sensor Integration**
  A device composer integrates and administers devices and sensors from different systems and brands.
- **Configurable Visualisation Dashboard**
  A widget-based tool comprising gauges, charts and panels allows accurate layout and visualisation of real-time data-driven alerts from sensors and cameras on a customisable dashboard.
- **Threshold and Action Management**
  Data thresholds and actions based on real-time data are managed through a programmable rule engine. Thresholds can be set to trigger alarms or predefined actions.
- **Multiple Protocol Support for Connectivity**
  Device connectivity is supported through MQTT and JSON/HTTP standards and is extendable to support other protocols.
- **Statistical Reporting Tool**
  Data from sensors can be visualised through statistical reporting to provide insights for process improvement.

## Technology Benefits

The main impacts of Mi-MIST are:

- **Simplified Sensor and Device Connectivity**
  The interconnectivity of sensors and smart devices is done through non-complex integration to produce new IoT solutions.
- **Assisted Application Development**
  The development of applications and solutions is facilitated by Mi-MIST dashboard tools and service APIs.
- **Scalable and Cost-Efficient Infrastructure**
  A common infrastructure provides public and private cloud scalability based on demand while reducing OPEX costs.
- **Reliable and Available Services**
  A full-fledged cloud model provides 24x7 monitoring and alerts which is also integrable with fail-safe data stores.
- **Accelerated Marketplace Deployment**
  Non-complex integration of third party devices and sensors and a customisable visualisation dashboard allows faster deployment for applications in smart cities, smart agriculture, smart transport, healthcare and more.

## Technology Summary

### Mi-MIST

A common application enablement platform (AEP) with integrated services to manage and interconnect smart devices and sensors for simplified development of applications and enablement of IoT solutions**.**

**Industries**: Smart City, Smart Agriculture, Smart Transport, Healthcare

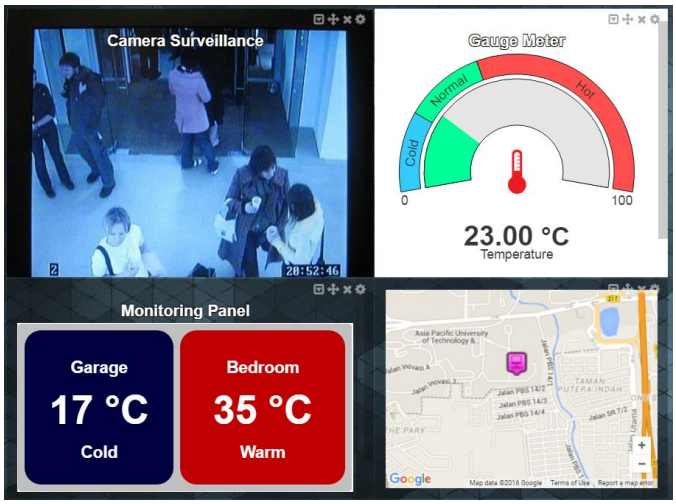
### Features

Mi-MIST offers both application developers and service providers an IoT middleware through the following features:

- Broad device and sensor integration
- Configurable visualisation dashboard
- Threshold and action management
- Multiple protocol support for connectivity
- Statistical reporting tool

### Technology Benefits

- Simplified sensor and device connectivity
- Assisted application development
- Scalable and cost-efficient infrastructure
- Reliable and available services
- Accelerated marketplace deployment




*MIMOS Mi-MIST sample visualisation dashboard*

## System Requirements

| Mi-MIST | |
|---|---|
| **Hardware (Minimum)** | |
| Processor | 2GHz or faster Intel® Core™ i5 equivalent |
| Memory | 8GB RAM |
| Disk Storage | 500GB HDD |
| **Software (Minimum)** | |
| Operating System | Ubuntu Server 14.04 LTS |
| Web Browser | Google Chrome™ 45 or above |





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