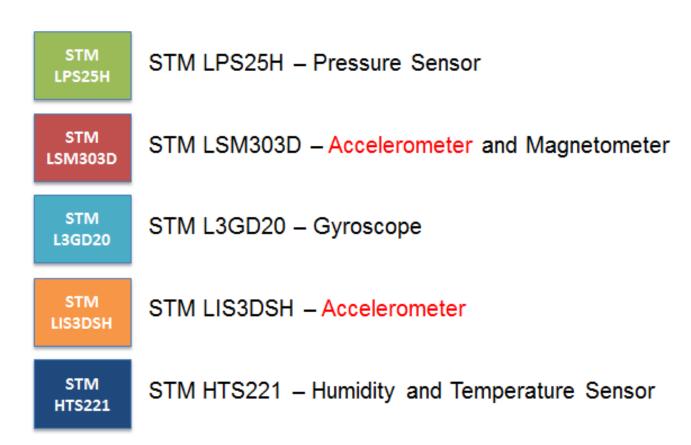
## Introduction to Format of WICED Sensor Data

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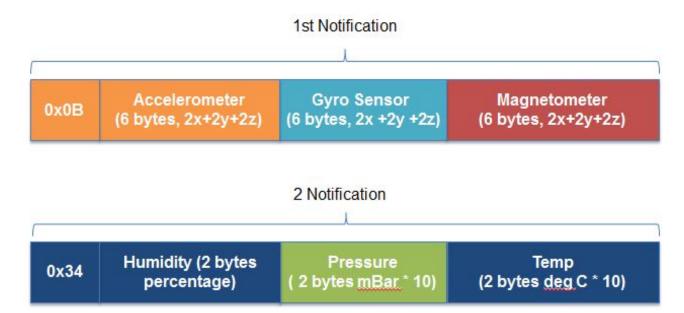
The following STMicro Sensors are used:

Please refer to the STMicro Web site for details on Sensor Data Sheets.



The iOS App receives notifications in this format:

## Sensor Data Format



```
struct
{
/// Bit mask of sensor data
/// Bit 0: When set, accelerometer included X (2 signed bytes), Y (2 signed bytes) and Z (2 signed bytes).
/// Bit 1: When set, gyro included X (2 signed bytes), Y (2 signed bytes) and Z (2 signed bytes).
/// Bit 2: When set, humidity included (2 unsigned bytes in percentage).
/// Bit 3: When set, magnetometer included X (2 signed bytes), Y (2 signed bytes) and Z (2 signed
bytes).
/// Bit 4: When set, pressure included (2 bytes, pressure in mBar * 10)
/// Bit 5: When set, temperature included (2 unsigned bytes, temperature in C * 10).
UINT8 included_sensor_data;
/// sensor data.
/// Data included in the order of the bits set.
/// Max length is 20 bytes, may be smaller when data for only some sensors is included
///
      in the notification.
/// Notifications sent out when enabled
/// Notifications for Sensor Notification characteristic value (handle 0x2A)
UINT8 sensor_data[];
};
```