



Case Study: AT&T MiFi Liberate

Introduction

Implementation of M2M solutions in different industries can be made feasible with AT&T MiFi Liberate portable WiFi Hotspot. It is the most advanced, secure and stable device supporting the latest the cutting edge 4G-LTE technology, along with all other wireless technologies. Building and integrating M2M applications and also upgrading them can be simplified. But without a skilled technology and solutions partner, the implementation of M2M solutions with wireless Hotspot can be challenging, costly and time consuming.

Requirement

The industries predominantly have many such limitations of wired device installations. Since the whole concept of wireless communication simplifies connectivity on one hand, but incurs lot of data security and stability issues. Following are the test cases:

Managing the system or asset specific wireless communication methods
Industry specific M2M data management
Remote service management
Monitoring data accessibility in real-time

Event and and issue based service delivery in real-time
Remote M2M application up-gradation
Meeting and managing system specific or asset specific needs for M2M solution implementation

Proposed Solution

The bridge to implementing the M2M solution with wireless mode of communication plays a very important role. The location specific and industrial system specific requirements for M2M application in conjunction with Wireless communication are different. This arises the need to design and develop an intelligent engine that can drive them together successfully.

The Intelligent engine features following functions:

- The firmware must be capable to convert any communication protocol supported by the end device to the standard communication protocols supported by the portable WiFi hotspot.
- It must be upgradable remotely without making any changes in the end device set-up.
- It must be managed remotely through a specific application supporting any OS.
- The Application must be capable to receive firmware update alert in real-time and respond automatically by the required protocol up-gradation. It must support the different protocol standards.
- Among other things, the Corpus board support package for the AT&T MiFi Liberate device contains the following elements:
 - DLNA CERTIFIED,IEEE 802.11b,IEEE 802.11g,IEEE 802.11n compliant standards
 - IEEE 802.11b,IEEE 802.11g,IEEE 802.11n Data link Protocol
 - 802.11b/g/n Wireless Protocol

- EDGE,GPRS,HSPA+,LTE,UMTS Cellular Protocol
- WINDOWS , LINUX & MAC compatibility
- Micro-SD card Automount
- 2.8" colour touch screen
- Firmware Over-the-Air (FOTA) bootable format
- Infotainment Features include:
- 4G/
- 3G network share
- WiFi Hotspot
- Enhancement of multimedia
- Custom programs: Data usage, Manage connected devices, change network and device settings.

Corpus Offering

1. OS Porting
2. Board Support Package (BSP) development
3. Firmware development
4. Device driver development
5. Proprietary and Third-party stack integration
6. Embedded application development
7. Software testing & verification

Conclusion

The scope of the overall system is tremendous. The System integrated with M2M solution, Intelligent engine interface and the AT&T MiFi Hotspot can create a wave of evolution in the current Industrial scenario. It will bring enormous improvements in the revenue in almost all the domains economically and in an eco-friendly way.

About Corpus:

Corpus Software is one of the faster growing IT solution and services company focused on Digital Media Entertainment, Embedded technology and Business Analytics with offices and partners across Americas, Europe, APAC, Middle east & Africa. We work with clients in most emerging technology, that's where we make their business strong and bring in real difference in the way peer operates. A diverse workplace with continues focused towards developing unique ideas and contributions to make our clients business grow, and to keep the momentum going.

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