MiWi™ v6.1 Release Notes

The MiWi™ stack is released with sample applications to demonstrate various stack features including its extended range via mesh networking, self-healing and new paths calculations, sleeping end devices, and a node's mobility within a network.

What's new in MiWi™ version 6.1

- Network Freezer Support
- Sleep Implementation
- New Improved Memory Management module
- Frequency Agility Channel Change Implementation for MiWi™ Mesh
- Over The Air Firmware Upgrade(OTAU) for MiWi™ Mesh
- SAMR21 and SAMR30 Modules Support.

Microcontroller	RF Transceiver	Supported Evaluation Kit	Supported IDEs
SAMR21G18A(SIP)	RF233(in SIP)	SAMR21 ZLLEK SAMR21 XPRO	Atmel Studio v7.0 IAR Embedded Workbench® for ARM 7.4
SAMR30G18A(SIP)	RF212B (in SIP)	SAMR30 XPRO SAMR30M XPRO	Atmel Studio v7.0 IAR Embedded Workbench for ARM 7.4

Limitations:

- Parallel Over the Air Firmware Upgrade will be supported in future releases.
- SAMR30 OTAU is not supported.

Release History:

MiWi™ version 6.0

- MiWi™ P2P & Star Stack and applications are ported on SAMR21/R30 Platforms.
- New MiWi™ Mesh is implemented for SAMR21/R30 platforms
- MiWi™ Protocol is ported to Advanced Software Framework (ASF) to support easy integration of other components, services and drivers in application
- The MiApp API and MiMAC layer has been redesigned to support simple, easy to use and reliable data transfer. Refer Migration Guide for more details
- The joining procedure and routing algorithm has been improved for more stable and consistent device-to-device communications and to allow faster routing of packets.
- New Commissioning procedure is implemented which allows secured way of commissioning the devices.
- The MiWi™ Mesh stack is released in Library format. The MiWi™ -P2P, MiWi™ -Star stack, MiApp, MiMAC and application will remain in source code format.