

Sierra Wireless ALEOS Application Framework

Intelligence on the Edge Made Easy

Sierra Wireless gives OEMs, system integrators, and solution providers a development environment that makes it easy to create embedded applications that reside directly inside the wireless gateway to deliver true intelligence on the edge.

ALEOS™ Application Framework (ALEOS AF) allows developers seamless integration with ALEOS, the most proven M2M operating system in the industry, and leverage the AirVantage™ M2M Cloud Platform. ALEOS AF provides an application environment and integrated tools for building embedded M2M applications for Sierra Wireless' rugged and reliable AirLink™ GX gateways.



KEY BENEFITS:

- Reduce development time and effort
- Reduce solution costs and communications overhead
- Deliver end-to-end customized solutions that are easy to monitor and control

“ALEOS AF enables us to run custom programs in devices to perform M2M tasks that were previously cost-prohibitive. Now we can truly speak M2M through the Sierra Wireless intelligent gateway.” -- David Lamb, USAT Corp

A Complete Development Environment

EMBEDDED APPLICATION FRAMEWORK

ALEOS AF provides a complete platform for embedded applications including application life cycle management, application access to gateway and I/O information, and integration to AirVantage application services. ALEOS AF supports Lua, a powerful, general-purpose scripting language that is lightweight, fast, easy to learn, and easy to use.

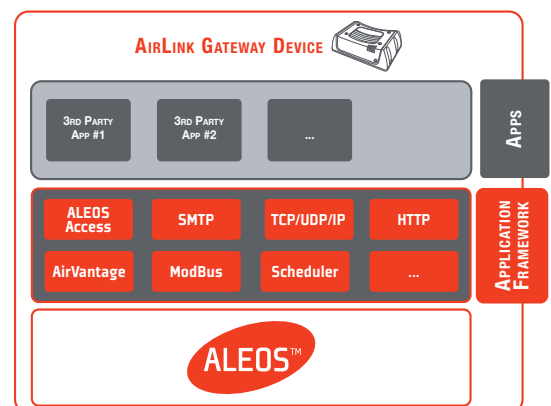
INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) TOOLS

The ALEOS AF IDE leverages Koneki, the Sierra Wireless-led Eclipse open source Lua tools project, to provide: real-time debugging and introspection, Lua syntax awareness, inline code assistance, integrated logging, real-time error detection, automatic code completion, and integrated documentation.

DEVELOPER ZONE

Get support, resources, and ideas from the Sierra Wireless Developer Zone, hosted by Sierra Wireless and actively used by our ecosystem of development partners worldwide.

http://developer.sierrawireless.com/ALEOS_AF



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Specifications

Product features	
Lua coding platform GPS fix SMS send/receive Access to local non-volatile storage Access product I/O Remote application management via AirVantage Management Services Eclipse-based IDE (Koneki) Integrated development tool with real-time debugging Remote data and command management via AirVantage Application Services	Complete set of building blocks AirVantage Application Services IP/TCP/UDP HTTP FTP Modbus SMTP Scheduling and timer services
Compatible devices	System requirements
AirLink GX400 Gateway AirLink GX440 Gateway	Compatible AirLink device
Developer Tool Requirements	
Windows XP/Vista/7 32-bit/64-bit Mac OS X Ubuntu 10.04 LTS	
Programming language	
Lua	
Device access	I/O access
GPS SMS Modem Info Selected ALEOS Services	RS232 GPIO

Reliable and Robust

The Sierra Wireless ALEOS Application Framework is built on top of ALEOS, the industry's most robust and proven gateway platform, and by adding a Lua virtual machine creates a sand-boxed application environment without compromising core system stability.

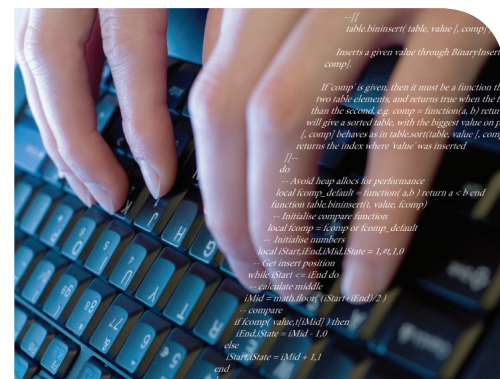
COMMITMENT TO INDUSTRY STANDARDS

Sierra Wireless has contributed the first open source M2M tool chain to the Eclipse Foundation's Koneki Project, a full-featured embedded development environment for the Lua programming language.
<http://www.sierrawireless.com/Koneki>

Multiple solutions from a single M2M platform

AirLink GX devices are rugged, reliable, multi-purpose gateways designed to suit a wide variety of operating environments. Combined with ALEOS AF, AirLink devices offer a single platform with the flexibility to build competitive new embedded solutions on the most proven M2M operating system in the industry.

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Try out ALEOS Application Framework Today

You need:

- A GX gateway with ALEOS v4.2.5+
- ALEOS Application Framework developer's kit
- Software, documentation, tools from http://developer.sierrawireless.com/ALEOS_AF

Develop your application

Add your company to the Partner Zone

Contribute and receive from the community

