

Mixed Reality: Where the virtual world meets IoT

Wei Xiao

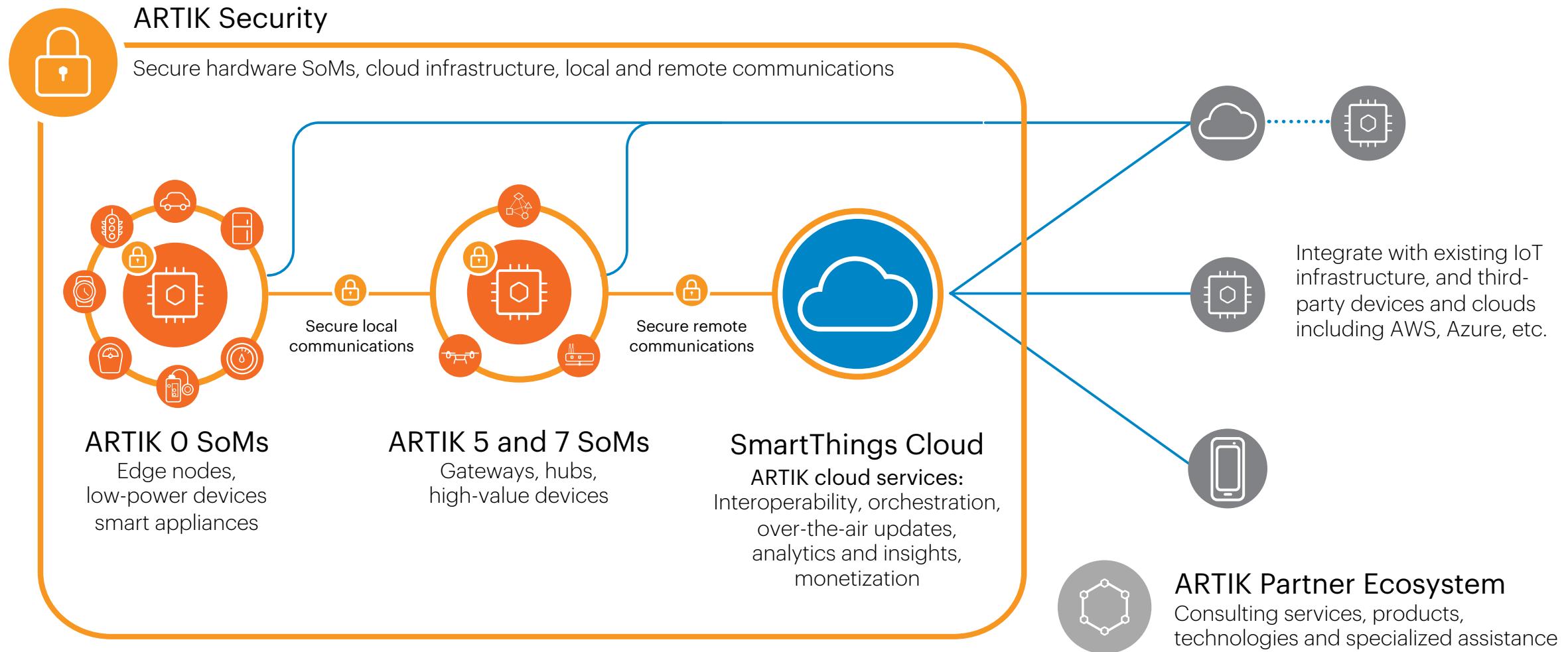
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Samsung ARTIK™ IoT Platform

End-to-end integration...

...Open and
interoperable



Samsung ARTIK™ SoM families

s-modules

ARTIK 0 SoMs

Edge nodes, battery-powered devices, intelligent appliances



020



030



053



055s

053s



15 x 12.9 x 2



15 x 12.9 x 2



15 x 40 x 3.9
5-12 VDC



15 x 26 x 3.9
3.3 VDC

ARTIK 5 and 7 SoMs

Hubs and gateways



530



530s



530s 1GB



710



710s



36 x 49 x 3.4



36 x 49 x 3.4

- Single, dual Cortex-M, Cortex-R CPUs
- Bare Metal or Real-time OS
- Internal RAM / Flash

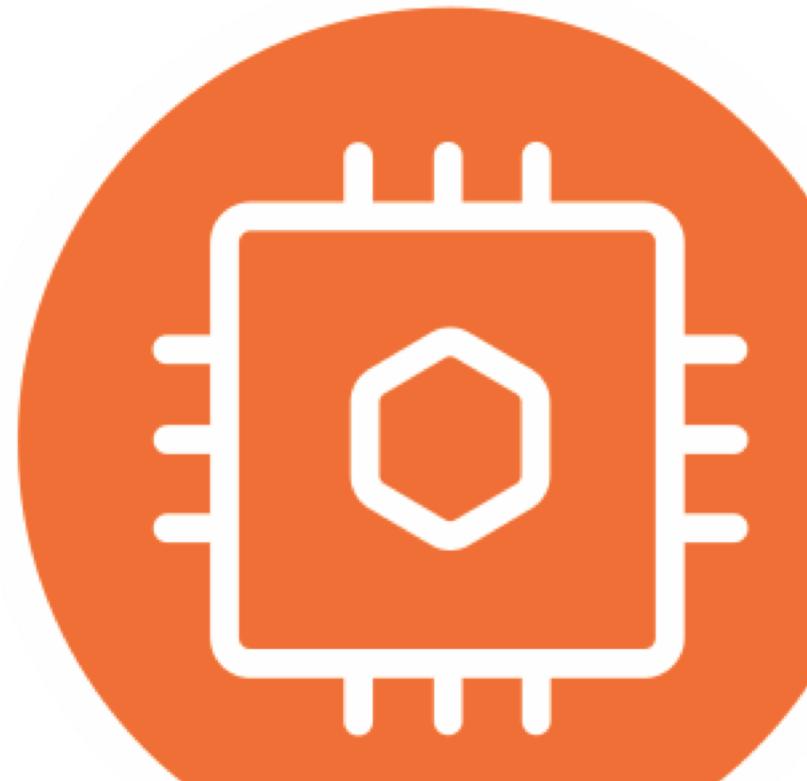
- Quad, octa-core Cortex-A CPUs
- Linux based platforms
- Hardware Secure Element,
- Edge Node Manager, Mobile Apps

Samsung ARTIK™ Modules

Create intelligent, connected devices

Production-ready, secure edge nodes and system-on-modules tightly integrated with ARTIK cloud interoperability and serviceability services

- Scalable production volumes
- Pre-certified wireless functionality and protocols
- Pre-integrated, fully-tested OS and middleware
- Integrated hardware and software security (s-versions)



Samsung ARTIK™ cloud services on SmartThings Cloud

Connect devices, connect clouds, and put them to work

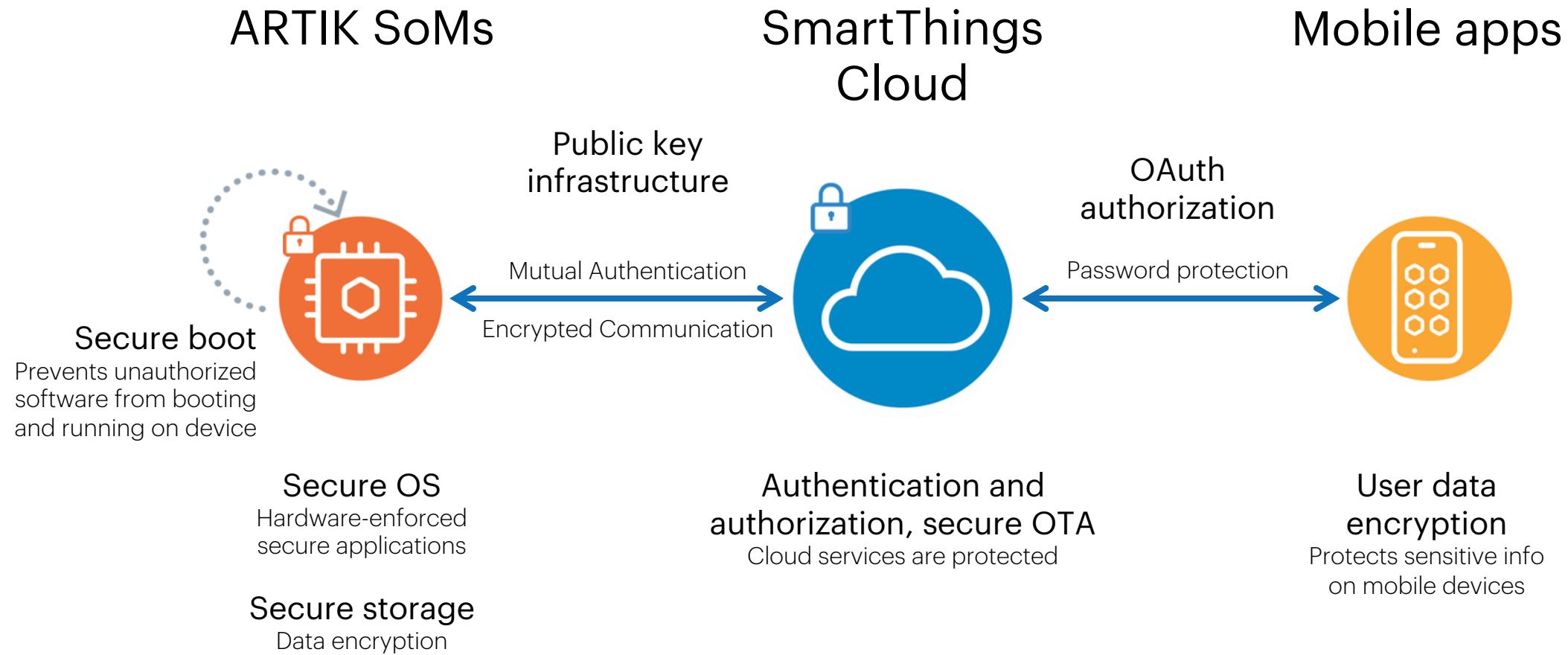
Serviceability features and unparalleled interoperability for ARTIK modules and third-party devices and clouds

- Interoperability: Data Normalization; Cloud Connectors;
- Device Management: Provisioning, and over-the-air updates
- Sophisticated orchestration engine to define one-to-many or many-to-many actions between connected devices and data sources
- Security & Privacy Management



Samsung ARTIK™ End-to-end Platform Security

Protection for you and your customers



Customer Use Cases



Legrand: Global residential and commercial digital building infrastructure

Challenge: Transform product line to meet new connected digital mkt requirements.
Fast time to mkt. Interoperability.

Products: ARTIK Ox, ARTIK 5/7 secure system-on-modules, ARTIK cloud services

Why ARTIK? Reduced product development time. Built-in software eliminated internal dev skills roadblock. Security allows them to meet new customer reqs. Interoperability expands switch capabilities, helped them get POC with Marriott "Room of the Future".

NDA Customer: Wholesale provider of reinsurance, insurance and risk transfer

Challenge: Reduce risk (and associated costs), improve access to customer data, reduce costs to service customers.

Products: ARTIK cloud services, ARTIK 710s secure system-on-module gateway solution

Why ARTIK? Secure gateway controls provides remote access to onsite data. Secure cloud services provide interoperability and integration of data between multiple sources including devices on site, cloud enabled services and client operations while maintaining customer privacy.

How to develop for IoT?

- Lower-end modules: Jerryscript on RTOS
- Higher-end modules: Node.js on Linux-based platforms;
- Development tools like Node-RED
- Database knowledge: MongoDB, Redis, SQL etc.
- Cloud services: AWS, Azure etc.
- Web services integrations: e.g, Facebook, Twitter, Twilio, Zendesk etc.
- Rich and Complex UIs

WebVR + IoT



WebVR + IoT Use Cases

- Robotic-assisted surgery
- IoT City Management
- Telepresence

Samsung ARTIK™

Helpful web resources

Web Documentation	https://developer.artik.io/documentation/
Document Library	https://www.artik.io/library/
Forums	https://developer.artik.io/forums/
Blog	https://www.artik.io/blog/
File Tickets	https://support.artik.io
Github Repository	https://github.com/SamsungARTIK
YouTube Channel	https://www.youtube.com/channel/UC4rolvSm8ikmnymdbznNJw
Twitter	https://twitter.com/SamsungIoT
LinkedIn	https://www.linkedin.com/showcase/15212782/

Demo: IoT + WebVR