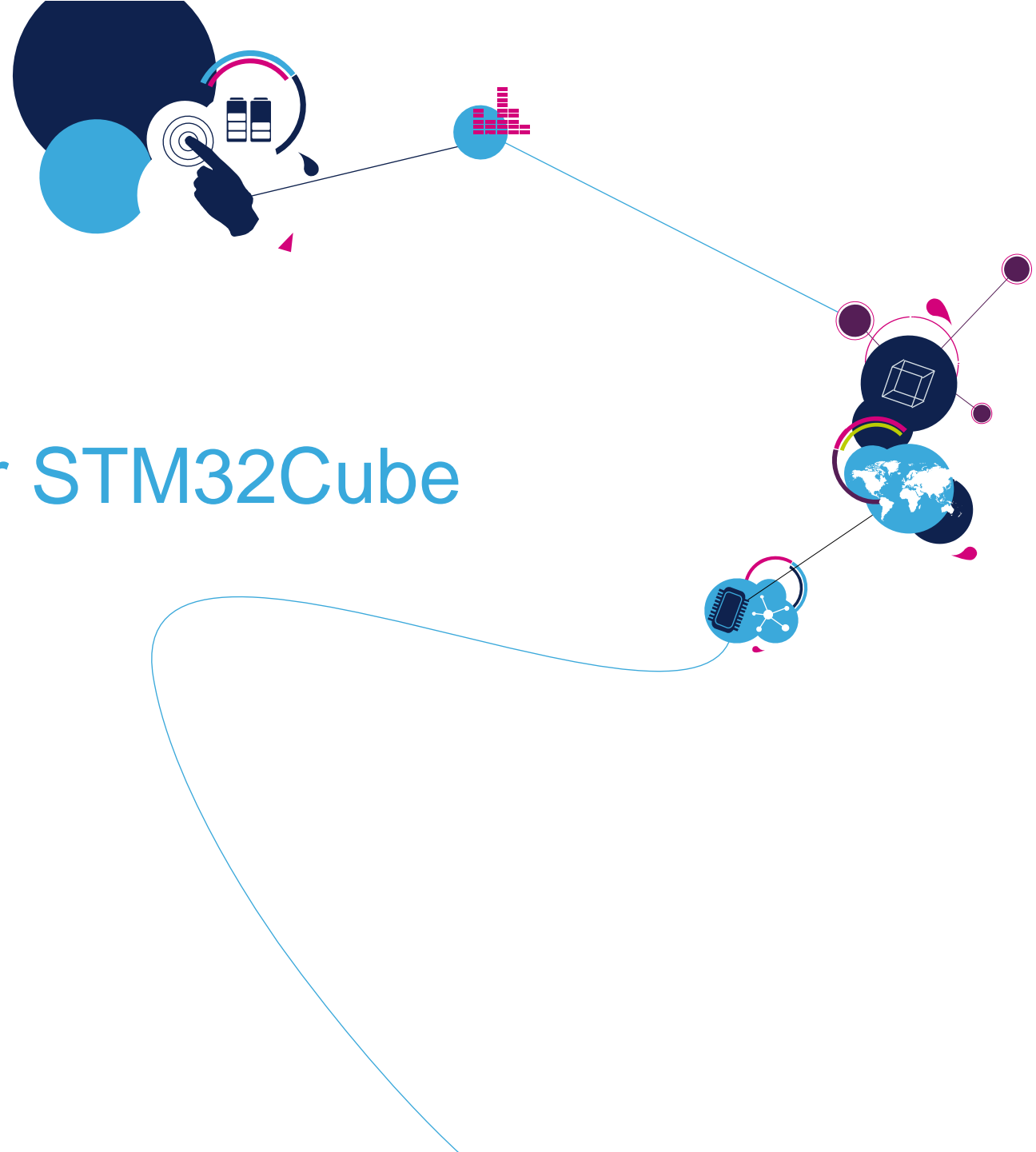
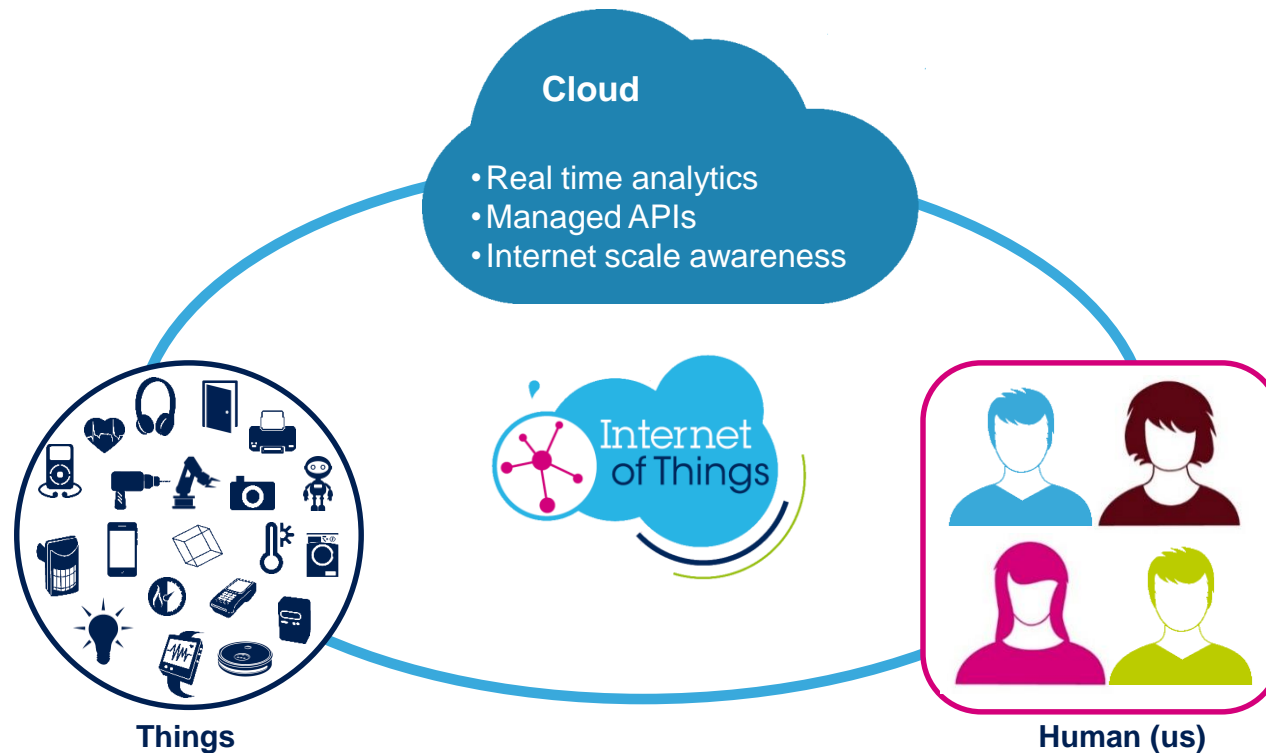


IoT: Cloud Connectivity Expansion Packages for STM32Cube





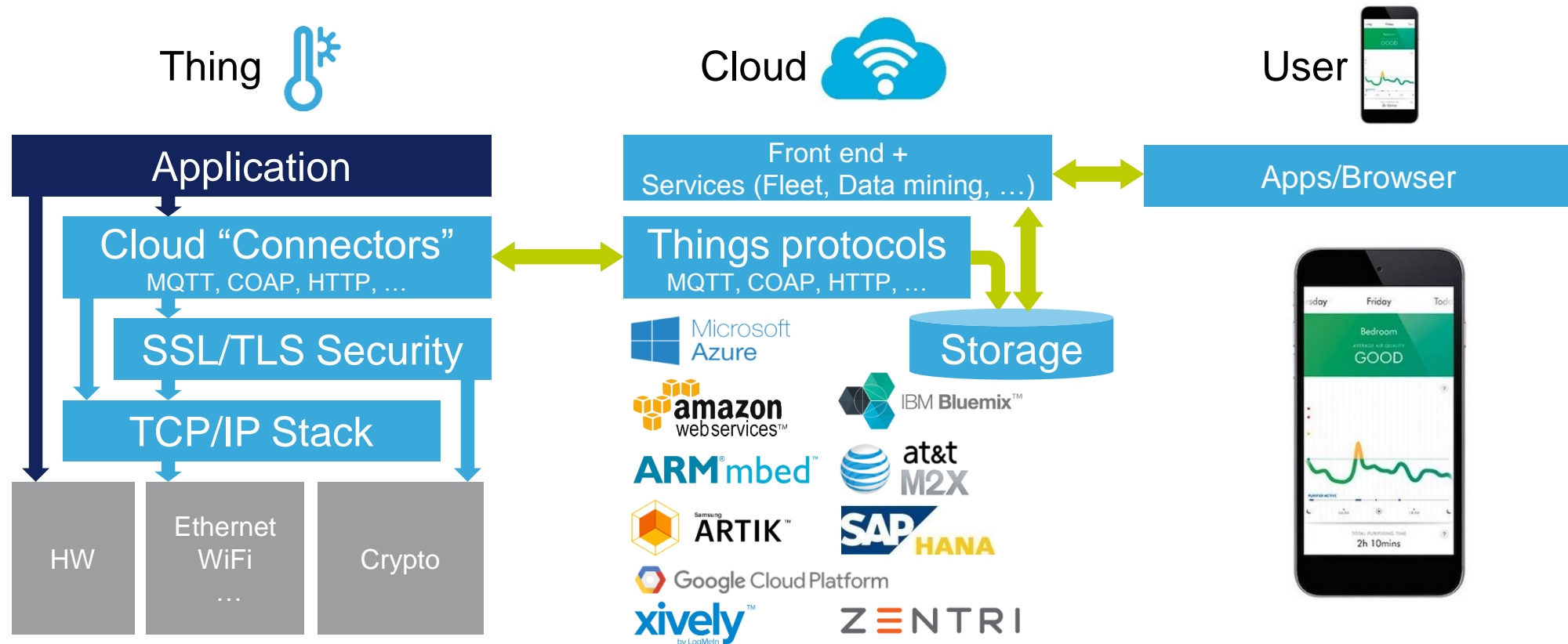
While M2M network connects machines in closed systems,
IoT enhances the existing networks through an intelligent cloud

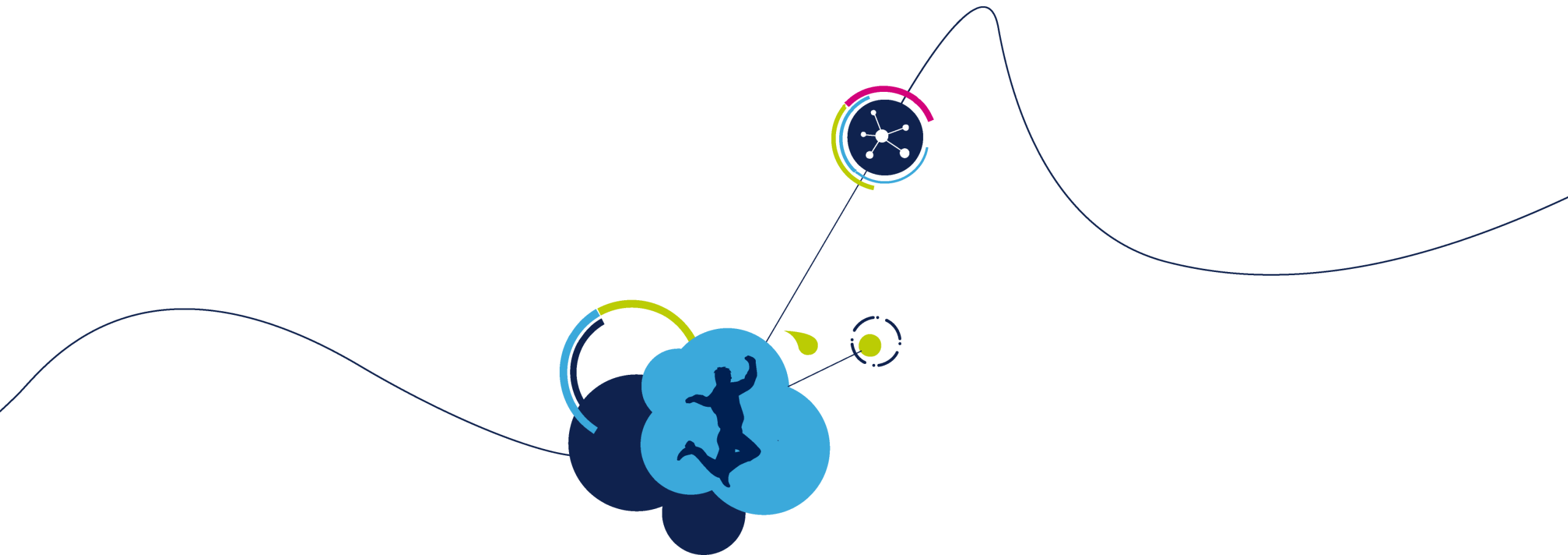


Cloud service connectors

3

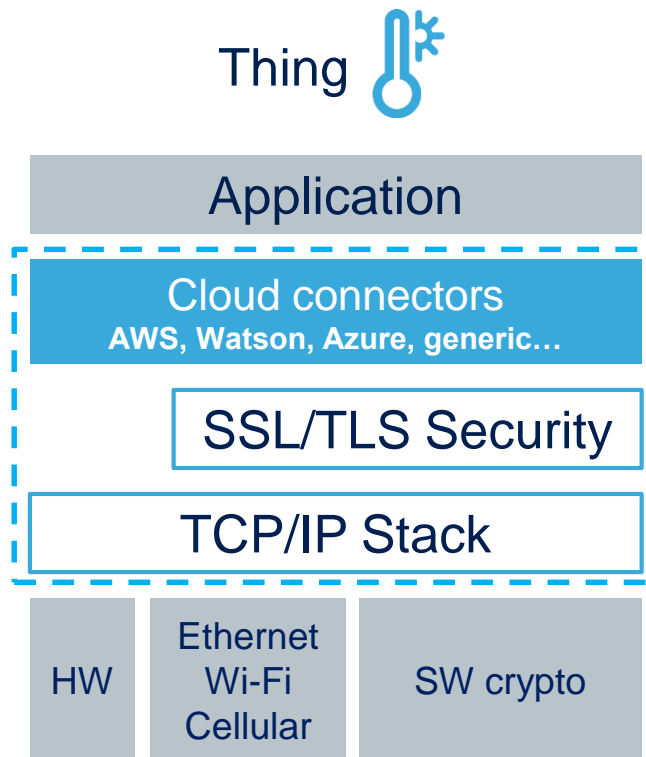
Instant access to cloud service with demo examples





ST Cloud connectivity Software Development Kits (SDKs)

Enabling customers to quickly connect to several Cloud providers

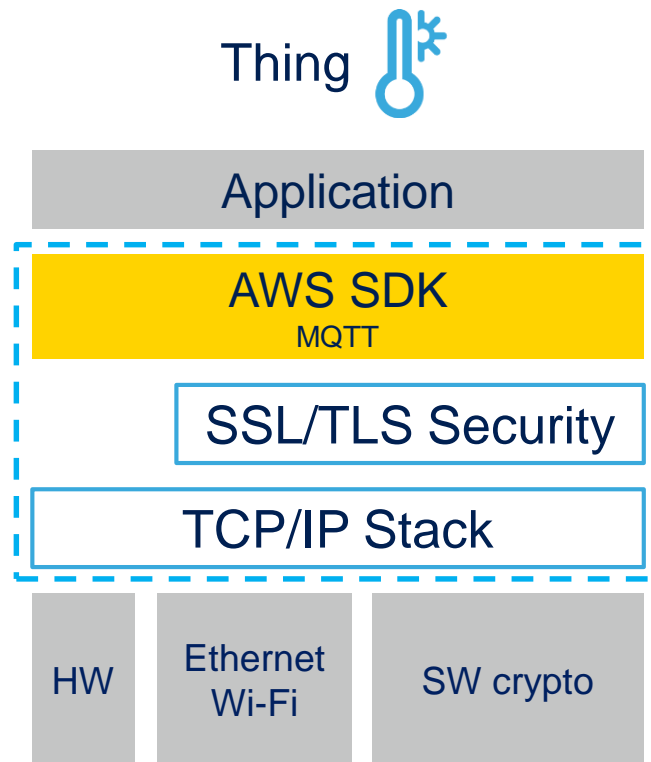


- ST Cloud connectivity SDKs, specific and generic, offered for FREE as STM32Cube Expansion Packages (X-CUBEs)
- Provide all needed Cloud connectivity, device management and security blocks (MQTT, HTTP, SSL/TLS, LWM2M)
- Provide applicative examples
 - Simple data logging and dashboard display
 - Bi-directional interaction with Cloud servers
 - Remote Firmware Upgrade (RFU) through HTTP
- Extensive HW connectivity support
 - Wi-Fi, Ethernet, Cellular (coming soon: 2G/3G, LTE M1 and NBloT)

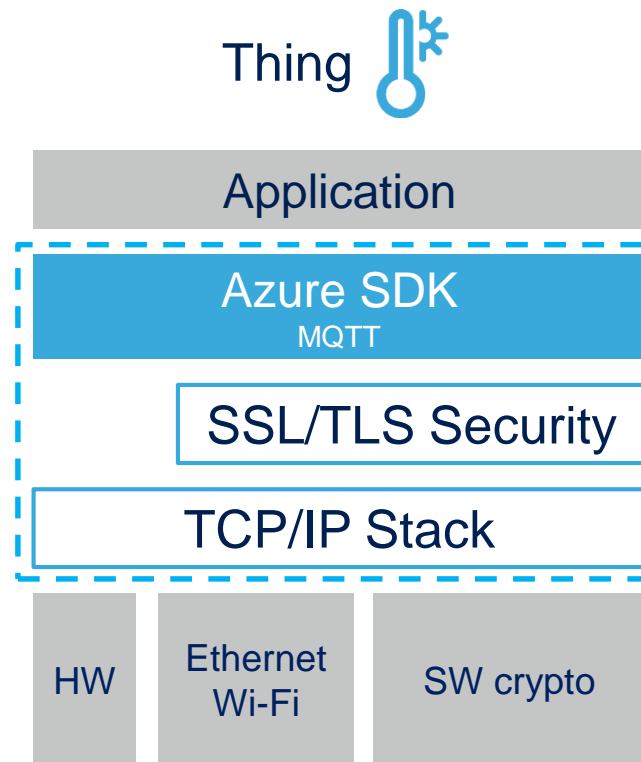
STM32Cube Expansion Packages

6

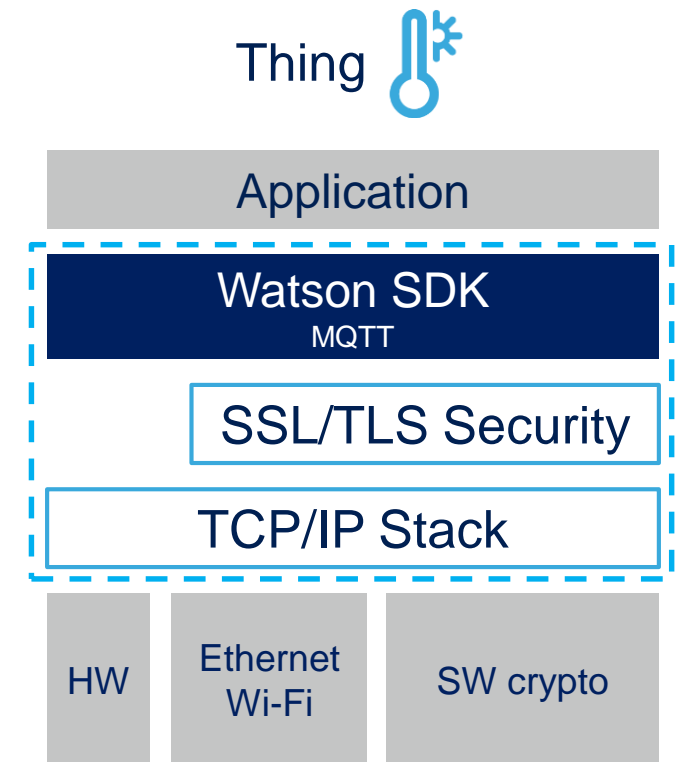
Connection to 1st tier Cloud providers made as easy as 1, 2, 3 within the STM32Cube environment



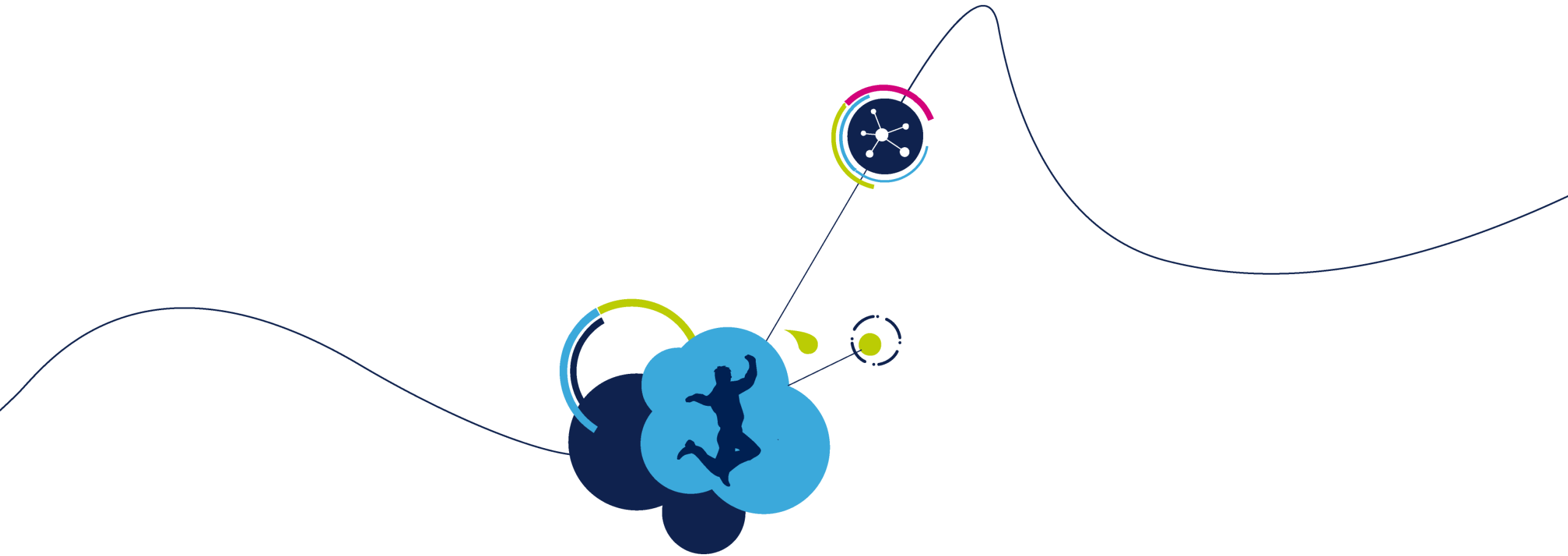
X-CUBE-AWS



X-CUBE-AZURE



X-CUBE-WATSON



Supported boards and IDEs

Supported HW boards: Ethernet and WiFi

8

STM32F413 Discovery kit



STM32F413H-DISCO
(On-board Inventek Wi-Fi module)

STM32F769 Discovery kit



STM32F769I-DISC1
STM32F769I-DISCO
(On-board Ethernet connector)

STM32L4 Discovery IoT node



B-L475E-IOT01A1
B-L475E-IOT01A2
(On-board Inventek Wi-Fi module)

Several ST boards allowing out-of-the-box development with the SDKs

Example Projects and IDEs

9

Example projects preconfigured for AC6 System Workbench, Arm® Keil®, IAR™, and ST boards

