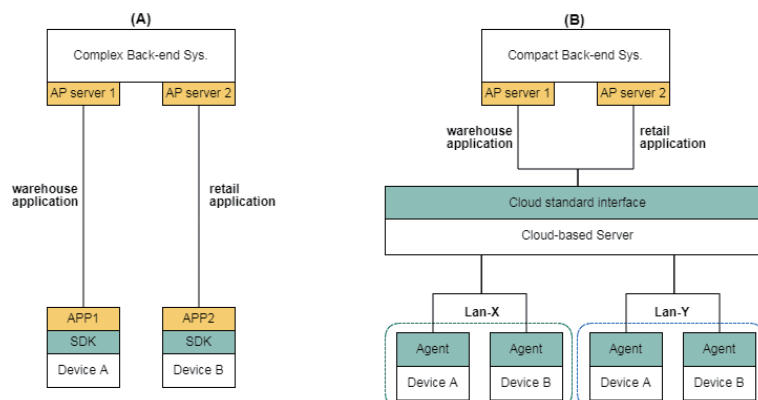


WHY (Reason to Build This Technology)

In the development of an application system, the developers often need to develop different communication software on back-end system to access different devices during different projects. It costs a lot of development time to customize its back-end system to different devices. However, if a standard software interface can be used to carry out the background system development, it can significantly reduce the development cost. So how to build this standard software interface in different device sides, it becomes very important.

HOW (Concept of This Technology)

To retrieve data collected from devices, application developers usually needs to write an application on the device using unitech SDK to report data and also an application on the server side to receive data. In other words, the system developer needs to develop both **client-side** and **server-side** applications and thus require engineers with both programming capabilities. Another alternative is to have the devices report collected data to a cloud platform which provide a set of APIs for developers to retrieve data. In this case, system integrators can focus on **server-side** application development using their familiar interface to reduce development time and cost. The following diagrams show two approaches. **Figure (A)** to develop both client and server applications using unitech SDK and **Figure (B)** to develop server applications using unitech cloud APIs.



WHAT (Case Study Benefits)

MoboLink is an IoT Platform that enables Mobile Device Management and Data Exchange Management in your enterprises.

It is a cloud-based management interface for most of unitech's products.

Following items show the models supported by MoboLink.

Model List : PA520, PA692, PA692A, PA720, PA726, PA730, PA820,

MoboLink offers set of **RESTful API** interfaces to the developers for device data collecting, application data exchanging, complex event trigger processing, and messaging, so that developers can focus more on perfecting the business logic, rather than on fiddling around with data format or messaging complications.

Based on MoboLink's interface diagram below, not only the RESTful's application to the Real-time Event interface, MoboLink also provides the International Standard **OMA-DM** for remote device management and **NoSQL DB** for cross-system data exchange application. Thus, developers can not only save development time through MoboLink, but also save a lot of time on device installation and maintenance.

