Payment Security in the IoT

NAUTILUS

Introduction

The wide deployment of IoT devices and the pressure of time to market of device development have raised security and privacy concerns. Currently there is no basic level, no level zero defined for the security and privacy of connected and smart devices. There are also no legal guidelines for trust of IoT devices and services and no precautionary requirements in place.

The IoT world suffers also of the "basket of remotes" problem since there are hundreds of applications to interface with hundreds of devices that don't share protocols for speaking with one another.

Nautilus Platform

Based upon our well proven expertise and technology in security payment transactions we have launched a new division within AUSTRIACARD with the sole objective of transfering payment security on the IoT.

Our value proposition comes under the name of Nautilus Platform.

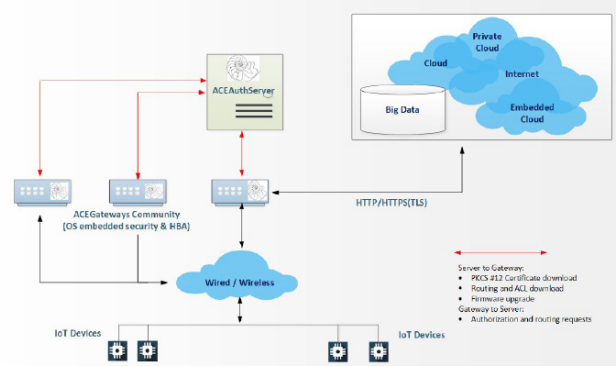
The platform's main components are ACEGateway and ACEAuthServer combined together to establish an isolated & protected network environment of IoT devices with the use of smart secure elements (SE) & of a specially protected operating system.

ACEGateway is Nautilus' IOT gateway empowered with AUSTRIACARD's Smart Card native operating system security features (ACE 2000) providing a powerful yet secure platform, for connecting physical devices while at the same time encrypting transmitted data to a wide range of end points including cloud services and big data servers.

ACEAuthServer is the server that handles the configuration of ACEGateways as well as the complete lifecycle management of IoT devices that are connected through the ACEGateway in the IoT ecosystem – cloud.

The two major components of ACEGateway platform can support modular and universal configurations depending on the vertical and the installation requirements.

The following diagram provides a high level IoT system architecture through Nautilus ACEGateway platform:



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