

Secure by Design for the Internet of Things

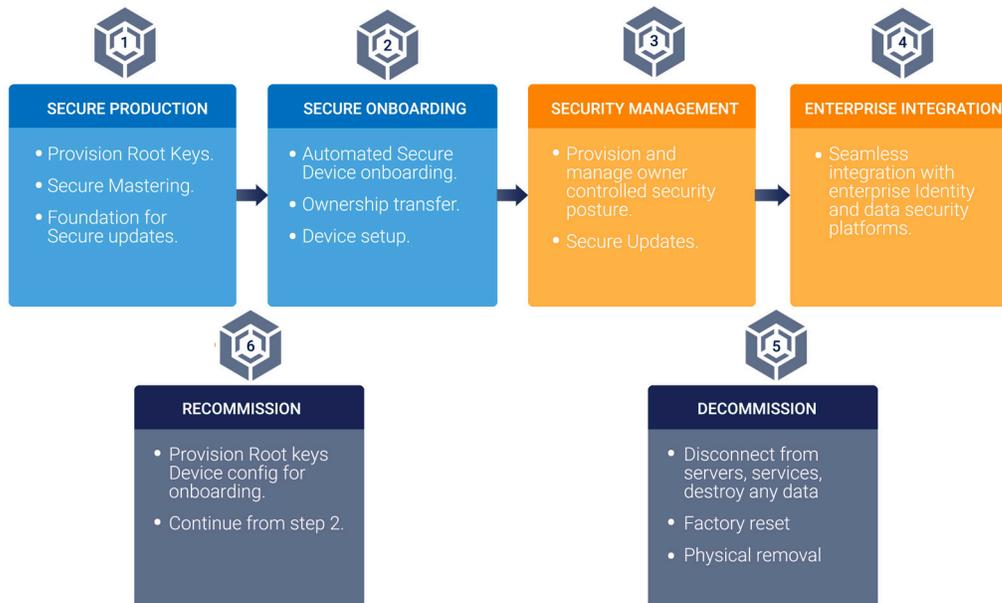
With EPS Global and Device Authority

Introduction

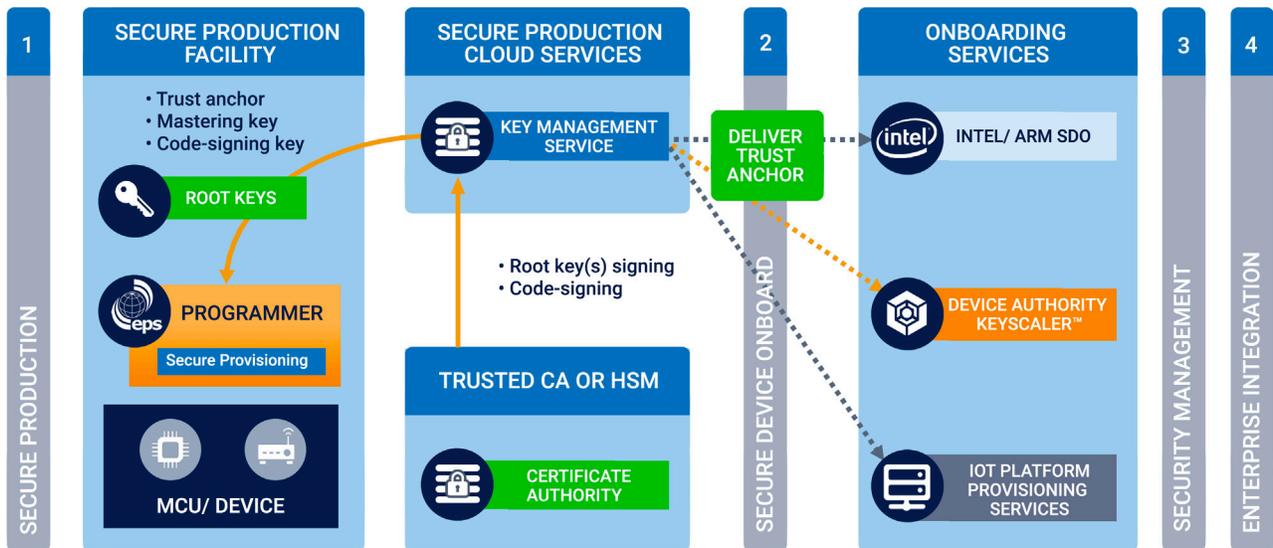
The Internet of Things (IoT) brings new security challenges introduced by the scale and pace of adoption, as well as the legal and safety consequences of compromised security. Until recently, security has been treated as an afterthought; by adding layers of security after devices are delivered, with infrastructure and applications already in place. But security is too important to be treated as an afterthought. In recent years there has been the Mirai DDoS (“Distributed Denial of Service”), and WannaCry ransomware attacks that are forcing us to think about security differently; responding with defense in depth and with a Secure by Design approach.

Enterprise IoT Security: Primary Steps in the IoT Device Journey

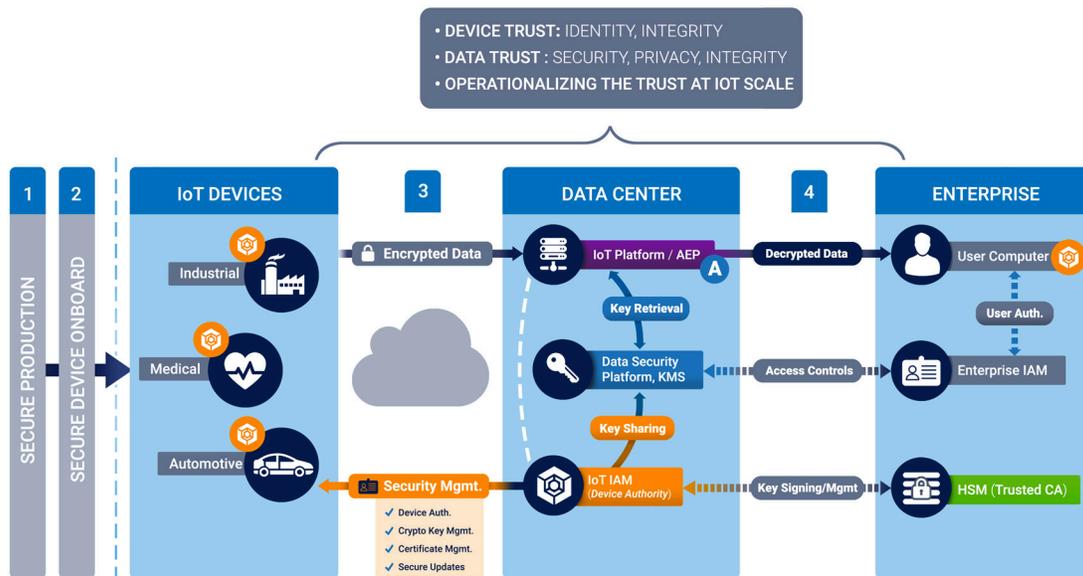
Applying Device Authority’s Enterprise IoT security blueprint, step 1 supports secure production; the secure provisioning of root keys and certificates at the time of manufacturing. The potential impact of an IoT security breach is forcing the right security model from the design and manufacturing phase.



EPS Global is one of the largest Programming and Secure Provisioning service providers, with a network of 19 secure programming centres strategically located in all major electronic manufacturing clusters worldwide. EPS provides secure provisioning for connected devices in automotive and mass market IoT and IIoT applications, supporting customers from low volume prototype quantities through to high volume IC programming requirements, regardless of location, across the globe. EPS maintains a world class quality level at its state-of-the-art facilities that is compliant with all International manufacturing quality control procedures. EPS Global can assist with the secure production required in step 1 of the blueprint which supports the secure by design approach for IoT devices.



Further in the IoT device lifecycle, Device Authority provides the device trust, data trust and operational management of the trust at IoT scale which is shown in steps 3 and 4. Security Management and Enterprise Integration allows provisioning and management of owner-controlled security posture, secure updates and seamless integration with enterprise identity and data security platforms.



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