

# ELIMINATING RISK WHEN CONNECTING THE CELLULAR EDGE TO AWS IOT CORE

Asavie Solution Brief

Thirty-one percent of organizations have experienced cyber-attacks on OT infrastructure.

Source Cisco 2018 Security Capabilities Benchmark Study

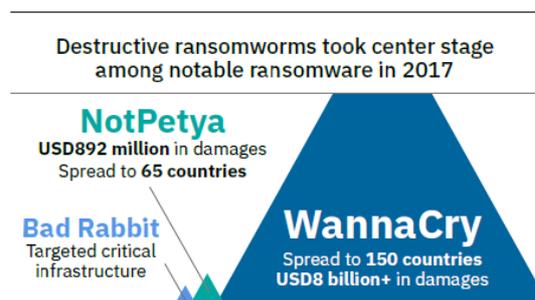


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## Asavie IoT Connect™ reduces IoT deployment complexity and eliminates security risks, helping to lower the total cost of ownership of cellular enabled Industrial IoT deployments.

The internet is a dangerous place. To date millions of devices have been compromised on the internet edge, the impact is not isolated to damaging businesses but is disrupting core internet communication services. These attacks have the propensity to disable even the most secure IoT deployment from communicating with the cloud.

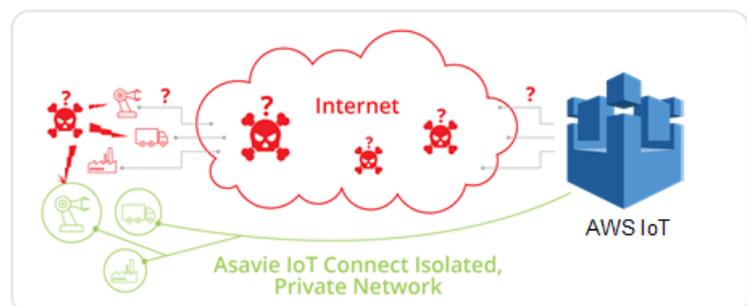


Source: IBM X-Force Threat Intelligence Index 2018

At Asavie, we believe industrial devices should not be exposed to the internet. Using Asavie IoT Connect™ secure connectivity, Enterprises get an isolated private network which manages connectivity with the AWS cloud, thereby eliminating the exposure to cyber threats.

Asavie IoT Connect is a software defined networking solution that creates a virtual network across any cellular network, which is used to extend the AWS IoT Core to the cellular IoT device. It provides Enterprises with total control and visibility of all data transits, monitoring of data sessions and device certificate management as assigned by the AWS cloud.

Asavie IoT Connect bridges the security gap that exists when connecting to the AWS IoT Core over the internet. The isolated private connectivity to the AWS cloud eliminates cyber threats, by creating a virtual security perimeter around each device.



## Winning deployment security with Asavie IoT Connect and AWS

Asavie IoT Connect with AWS IoT Core simplifies cellular industrial IoT deployments by reducing the human and/or infrastructure resources, along with the effort needed to connect and enrol the IoT devices to the AWS cloud. Enterprises can rapidly develop and iterate, from proof of concept to production, with sustainable and stable running costs today and into the future.

Asavie's network as a service complements AWS data protection enabling a secure data transit, in which:

### AWS IoT Core

Secures the data (encryption) and access to the cloud services

### Asavie IoT Connect

Secures the things by enrolling them into a private end-to-end network, off the public internet

## Accelerate IoT deployments

Universally, IoT projects face a familiar set of constraints: time, cost, devices and security. These constraints, lead to compromise in relation to the IoT deployment. Gartner predicts that 80% of all IoT proof of concept projects fail due to these constraints.

By combining the services from AWS and Asavie these constraints are turned into a competitive advantage for any innovative Enterprise.

Through 2022, half of all security budgets for IoT will go to fault remediation, recalls and safety failures rather than protection.

Source Cisco 2018 Security Capabilities Benchmark Study



### Eliminate the time wasted manual network builds.

Network build and change process is reduced from 90+ days to minutes through self-service networks, authenticating cellular devices into the private network and auto-provisioned in AWS IoT Core, enabling a seamless journey to the cloud. Furthermore, visibility of device connectivity and data flows simplifies trouble shooting.



### Growing with your project needs

Scale on-demand and minimize upfront cost constraints, through network as a service, pay as you go model. With granular data controls, including data throttling, per device and detailed usage reports, Enterprises have total control of all expenditure linked to cellular traffic.



### Minimize software vulnerabilities

Device constraints are reduced as no software needs to be installed. Static IP addressing and bi-directional traffic for command and control functionality comes as standard. The network will lock down the communication to the IMEI of the device to prevent tampering. As the AWS IoT certificates are stored in Asavie IoT Connect, scaling the solution is automated as devices come online.



### Lifetime of security

Security constraints are limited as the device is no longer exposed to the internet. Complemented with access control lists, DNS whitelisting and alerts, the Enterprise is now in total control of all communication between the device and AWS cloud.

## Global leaders in secure IoT delivery

Asavie partners with many of world's leading mobile network operators AT&T, Verizon, Telefonica and Vodafone to provide secure mobile management services on a global basis. Our rich ecosystem of technology partners such as Dell, Intel and MultiTech ensures our SMB, Enterprise and federal customers are at the forefront of IoT innovation. Through our distribution partners such as Arrow, Asavie IoT Connect with AWS provides a complete IoT solution stack as a service, enabling innovation and iteration for any Enterprise removing the constraints of cost, time, device and security.

With zero compromise in quality and security, end-customers gain the confidence that their IoT project will enable multiple new business transformation models, without compromising brand or reputation.



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