Evolution

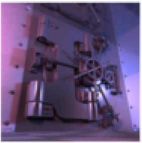
The OrionX Constellation
Cybersecurity, Artificial Intelligence, Internet of Things

Behavioral Analytics and IoT Security

Peter ffoulkes, Shahin Khan

It has become abundantly clear that cyber crime and cyber warfare are among the top issues of modern life. In a world where very little can be done without computer networks, personal life, business activities, and even national security are under threat and under constant attack. Attacks such as "WannaCry" and "EternalBlue" have exposed significant vulnerabilities in both technology and user behavior from a personal to a corporate and even a government level.

Such high-profile attacks serve as a very good wake up call. Despite Wanncry's rapid and global impact, one can expect the next attack to be even more widespread and damaging.



There are many lessons to be learned from these attacks. However, one particularly important lesson is emerging:

Current security practices and technologies designed for protect traditional IT asserts are not sufficient to identify and mitigate attacks for IoT devices. There will always be vulnerabilities and successful attacks, but new approaches to security are required and emerging that can identify and contain malevolent activity for IoT devices.

Three Dimensions of Cybersecurity

Security threats come from multiple directions, external and internal. Over the years, several approaches have been devised to protect data and/or to avoid service disruptions. In general, OrionX formulates three dimensions of cybersecurity:

- Regulate who gets in: Network Access Control
- Regulate what gets in: Malware Detection & Deep Packet Inspection
- Regulate behavior: Behavioral Analytics & Wide Packet Inspection

OrionX Constellation™ reports cover 5 Es: industry milestones (Events), historical view of a technology segment (Evolution), main vendors in a market segment (Environment), customer decision criteria (Evaluation), and how vendors in a segment score (Excellence) based on the OrionX methodology, which considers market presence and trends, customer needs and readiness, and product capabilities and roadmap.