

# About FACT™

## Framework for Analysis and Coordinated Trust

### WHAT WE DO



aDolus provides a platform called **FACT (Framework for Analysis and Coordinated Trust)** for brokering information about IoT and Industrial IoT software to secure the software supply chain. FACT helps facilities determine if updates are safe to install on mission-critical devices. We create a Software Bill of Materials (SBOM) for your critical software packages and then enrich these with vulnerability and malware data from across the industry. Next we apply decades of security expertise to build a “FACT score” of trustworthiness. Much like a credit score, the FACT score makes it easy to make software patching decisions, enforce policies, and ensure governance of security processes via an audit trail.

### THE PROBLEM



Performing updates on embedded control systems is complex:

- Industrial facilities use millions of devices from hundreds of vendors.
- Every vendor uses 3rd party (and 4th and 5th...) components that can contain hidden vulnerabilities.
- SBOMs are rarely available.
- Malware detection tools can generate false positives.
- Each system has its own distribution and upgrade process.
- Devices are often widely distributed geographically.
- Field technicians rarely have the time to research the origins of the firmware file they are about to install.

### THE URGENCY



Concern over counterfeit software and firmware isn't hypothetical. In the Dragonfly attacks against the pharmaceutical industry, attackers infiltrated the websites of three ICS vendors, replacing legitimate firmware with malware-infected versions. The ongoing SolarWinds attack confirms that supply chain attacks are an increasing threat.

Recently, energy regulators have taken notice of these risks: the Federal Energy Regulatory Commission has mandated a new Critical Infrastructure Protection requirement (NERC-CIP-013-1) aimed at securing the supply chain through software validation. Executive Order 14028 on Improving the Nation's Cybersecurity will also have a major impact on supply chain security obligations.

# About aDolus

## Restoring Trust in the ICS Software Supply Chain

### OUR UNIQUE FOCUS



Industry currently lacks a robust solution to protect itself from supply chain attacks on embedded firmware and software.

**Many threat detection, protection, and analysis solutions exist; however, none of them has solved the problem of attacks that exploit the trust between ICS vendors and their customers.**

If an attacker can exploit the trust between a vendor and an asset owner in a supply chain attack and get an infected file into the hands of a technician, they can bypass the facility's sophisticated security infrastructure.

### OUR VALUE PROPOSITION



FACT provides ICS vendors with immediate alerts of new counterfeits, identifies unsafe subcomponents in their products, and generates enriched SBOMs so they can respond proactively to their customers and to regulators. FACT offers asset owners and system integrators assurance that firmware files (and subcomponents) are legitimate, tamper-free, current, and safe. FACT offers cybersecurity partners software and component intelligence they can use to enhance their own offerings. FACT can save time, critical equipment, and – most importantly – human lives.

### OUR LEADERSHIP

aDolus is led by one of the world's visionaries in ICS, IoT and IIoT, security. The executive team includes respected leaders in the fields of industrial automation cybersecurity, finance, and technology. The company originated as a research project supported by the Silicon Valley Innovation Program of the US Department of Homeland Security.



**ERIC J. BYRES, P.ENG,  
ISA FELLOW**

Inventor of the Tofino Firewall and noted world-leading expert in IIoT, SCADA, and ICS security



**ROD CAMPBELL**

Senior executive experience across multiple businesses including insurance, investment banking, technology, and resources



**KIRSTEN SCHWARZ**

25 years experience providing strategic, financial, operational, and financing guidance to high-growth entrepreneurial technology companies