

San Francisco | April 16 – 20 | Moscone Center

SESSION ID: TECH-W04



Dawn Cappelli

VP, Global Security and CISO Rockwell Automation @dawncappelli

Umair Masud

Portfolio Manager, Cybersecurity Services Rockwell Automation @utmasud #RSAC

Who is Rockwell Automation?





\$6.3B **FISCAL 2017 SALES** 22,000 **†**

80+ COUNTRIES

WORLD'S LARGEST COMPANY DEDICATED TO INDUSTRIAL AUTOMATION AND INFORMATION



AUTOMATION for a broad range **SOLUTIONS** of industries

SERVING CUSTOMERS FOR **114 YRS**



- Innovation
- Domain expertise
- Culture of integrity & corporate responsibility

ABOVE-MARKET GROWTH | PRODUCTIVITY | INTELLECTUAL CAPITAL >>> VALUE CREATION





Industries We Support









































UNCLASSIFIED

Mokusatsu: One Word, Two Lessons

Unclassified



Source: National Security Agency

RSA'Conference2018

Purpose of the Presentation: A Common Language





THE CORPORATE SECURITY ECOSYSTEM



Information Technology



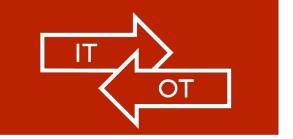
Third Parties



Customers



Product Security



Rockwell Automation



Connected Services



RSAConference2018

The Beginning of our Journey: A New CISO



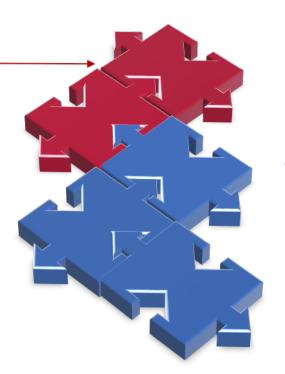
CISO 1.0

Extended Security Team

Business and functional liaison network Partnership with IT

Foundational Programs

Secure Development Environment Insider Risk Program Third-Party Risk Program



CISO 2.0

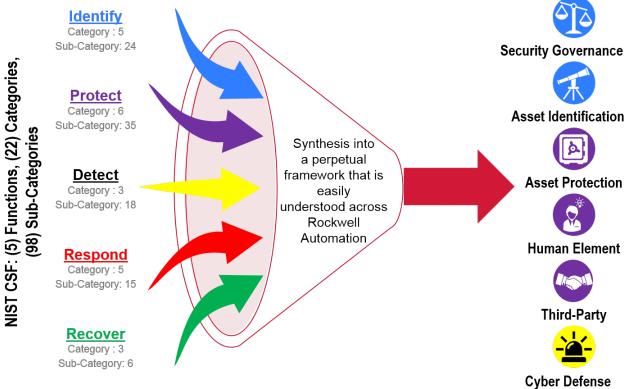
Risk-Based Approach to Developing a Strategy





Transformation to Rockwell Automation's Culture





Rockwell Automation

RS/Conference2018

RA Information Security Strategic Framework

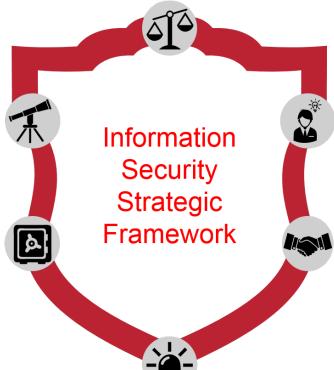
The Rockwell Automation Information Security Framework



Security
Governance

Identification of
Critical Assets

Protection of Critical Assets



Human Element

Third-Party Relationships

Cyber Defense Operations



The Rockwell Automation Manufacturing Security Framework



Asset Identification

Test equipment/code, production machine/code, process documents/drawings, and inventory make up the critical assets for manufacturing.

Asset Protection

Protection of the critical assets based on strategy for defined tiers within our manufacturing environment

Cyber Defense

Defined at the enterprise and refined for specific manufacturing use cases related to critical assets

Security Governance

Core manufacturing security team established. Strategy based on NIST framework. Model consistent with Enterprise framework

Human Element

People are one of the critical assets to manufacturing. Awareness, training, including insider risk will be required.

Third-Party

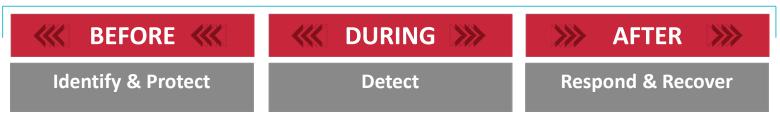
Third party companies are utilized to support our facilities, machines, and provide people for operations. Will require appropriate access and training.



Transforming How we Message to Customers



Attack Continuum





Into the Fire --- How NIST CSF Helped With our Customers #RSAC 01000100110101 110100100110010 Petya/NotPetya WannaCry Ransomware 01001010010100001111011



Tales from the Crypt

Ooops, your important files are encrypted! Now what?





NIST CSF Helps us to Adapt to the Changing Threat Environment



New vulnerabilities could expose global eco-systems 2018 Increasing Risk

2017











2014 2007



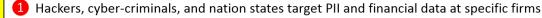


Limited nation state cyber sabotage attacks targeted at individual companies





2017 2011











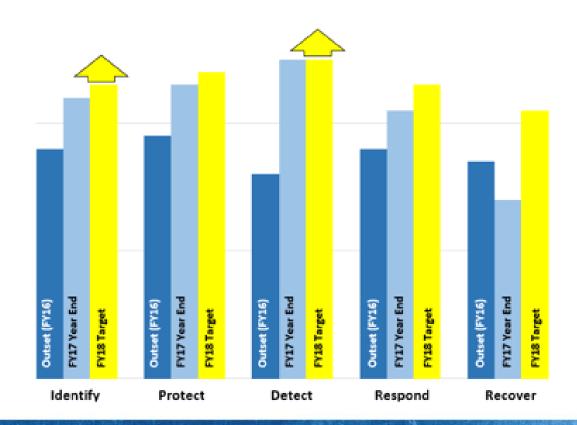






A Common Language with the Board





Rockwell Automation

RS∧Conference2018

Where to From Here?



What problem are you trying to solve?

Lack of a strategic framework	Research NIST CSF
Leadership will not support your strategy	Use NIST CSF to develop a strategic roadmap using liaisons from each business and function from across the company
Lack of clear communication with customers or the Board	Use NIST CSF as the common language
Have a strategy for enterprise IT, but not for the rest of your company's cybersecurity ecosystem	Apply NIST CSF to another aspect of your ecosystem, e.g. supply chain, product security, delivery of services to your customers,



How to Conduct a NIST CSF Workshop





Rockwell Automation

RS/Conference2018

Creating the Strategic plan

MATTERS #RSAC

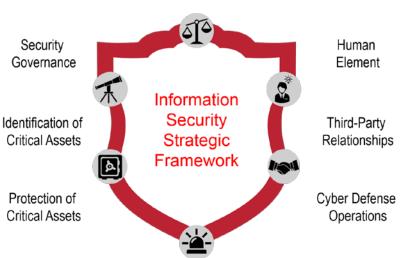
- Create a 3-year plan
- Create scoring charts to convey your plan

Transform your plan into a visual representation that will resonate across

your company

• Get to work!

 P.S. – You should get buy-in since the planning process had representation from across the company





It Doesn't End Here









THANK YOU

Thank you Tim Casey from Intel Corporation for his help getting started on our use of the NIST CSF!