



## Security quick reference guide

### Thermo Fisher™ Connect Platform Individual and Team editions | December 2024

Document valid through December 15, 2025

#### Introduction

Thermo Fisher Scientific™ maintains a Cybersecurity Program which is designed to safeguard the confidentiality, integrity and availability of data and systems within our environment. Thermo Fisher Scientific supports a continuously improving security program model that is focused on reducing risk, defending against threats, maintaining data privacy and protecting our company's confidential information, including trade secrets and intellectual property.

# About this guide

Thermo Fisher Scientific has implemented various safeguards and procedures designed to help protect the Connect Platform Individual and Team editions against intrusion and data compromise. This document describes the various standards, controls and data security approaches and business practices that Thermo Fisher Scientific uses in this effort.

Due to the ever-changing cyber landscape, Security Quick Reference Guides are updated annually to ensure we provide accurate information to our customers. This guide expires on **December 15, 2025**. Please contact your account representative to obtain the latest published version.

The information contained in this Security Quick Reference Guide is for reference purposes only. Nothing contained in this

document or relayed verbally to any customer will be deemed to amend, modify or supersede the terms and conditions of any written agreement between such customer and Thermo Fisher Scientific, or Thermo Fisher Scientific subsidiaries or affiliates (collectively, "Thermo Fisher Scientific"). Additionally, this Security Quick Reference Guide does not create an independent contract or agreement between any customer and Thermo Fisher Scientific. Thermo Fisher Scientific does not make any promises or guarantees to any customer that any of the methods or suggestions described in this Security Quick Reference Guide will restore customer's systems, resolve issues related to any malicious code or achieve any other stated or intended results. The customer exclusively assumes all risk of utilizing or not utilizing any guidance described in this Security Quick Reference Guide.





# Corporate Cybersecurity Program

## Cybersecurity Program and leadership

Thermo Fisher Scientific's Cybersecurity Program employs technical, administrative and physical safeguards designed to detect vulnerabilities and address potential threats.

The Cybersecurity Program maintains an [International Organization for Standardization/International Electrotechnical Commission \(ISO/IEC\) 27001:2013](#) certification for the management of the following areas:

- Cybersecurity program management and governance including risk management;
- Cybersecurity operations including security operation centers;
- Product security;
- Cybersecurity architecture and engineering; and
- Security awareness and training.

## Cybersecurity governance and risk management

Thermo Fisher Scientific remains vigilant against potential threats for cyberattacks and other cybersecurity incidents and, therefore, we incorporate cybersecurity into our overall risk management process. We accomplish this through various corporate mechanisms, including quarterly business reviews, annual budget planning and targeted risk-based engagements.

Our commitment to cybersecurity emphasizes using a risk-based, "defense in depth" approach to assess, educate, block, identify, respond to and recover from cybersecurity threats. Recognizing that no single technology, process or control can effectively prevent or mitigate all risks, Thermo Fisher Scientific employs a strategy using numerous technologies, processes and controls to manage or reduce risk.





# Product information

The Thermo Fisher™ Connect Platform Individual and Team editions deliver a suite of digital capabilities designed to enhance laboratory efficiency for managers and technicians. Connect Platform Individual and Team editions are supported by Amazon Web Services™ (AWS™) and Amazon™ Virtual Private Cloud™

(Amazon VPC™) infrastructure and provide secure, cloud-based Internet of Things (IoT) device connectivity, data storage, scientific analysis applications and peer collaboration tools to simplify data analysis and enable greater data visibility.



# Comprehensive security controls

## Authentication & authorization

OpenID Connect (OIDC) manages authentication on Connect Platform Individual and Team editions, supported by SAP™ Customer Data Cloud. Two login methods exist:

- **Direct login:** Users can establish their system identities directly within the Connect Platform Individual and Team editions.
- **Federated login:** Federated login is available with Connect Platform Individual and Team editions through customers' identity provider (IdP) and is supported on either OIDC or Security Assertion Markup Language (SAML) protocols. Thermo Fisher Scientific's Customer Identity Platform (CIP) team can configure a trust relationship with the customers' IdP upon request, providing two authentication options:
  - **Domain-based authentication:** All users from the customer's IdP can authenticate to the platform.
  - **Specific-user authentication:** This option restricts the authentication to a predefined list of users.

Please contact your Thermo Fisher Scientific business representative for more information on configuring your IdP with the Connect Platform Individual and Team editions.

Administrative access to Thermo Fisher Scientific application servers and infrastructure, including access to the AWS console used to manage the Connect Platform Individual and Team editions, requires multifactor authentication (MFA). Thermo Fisher Scientific limits access to application servers and supporting infrastructure to authorized personnel only.

## Cloud security

Thermo Fisher Scientific has implemented a security control framework solution that monitors security controls implemented across various cloud accounts. Some examples of the controls it can enforce include network and firewall management, credential management, audit trail and log management and data protection configuration management.

Our Cloud Governance and Incident Detection and Response programs focus on the cloud security control framework. The Cloud Governance program implements procedures and utilizes automated tools to detect incorrectly configured cloud resources. The Incident Detection and Response program enforces the deployment of security tools to identify suspicious behavior at the cloud- and server-instance levels. Alerts from the security tools are directly sent to the appropriate response team for triage.

## Network & endpoint security

Thermo Fisher Scientific manages Connect Platform Individual and Team editions' network security using virtual private clouds (VPCs), network access control lists (NACLs) and security groups (SGs) to restrict network access, only allowing necessary traffic according to business requirements. Only externally facing services of Connect Platform Individual and Team editions can be accessed via the internet.

The Connect Platform Individual and Team editions utilize AWS to host its infrastructure. AWS provides distributed denial-of-service (DDoS) protection called AWS Shield™ that safeguards all Thermo Fisher Scientific-hosted services, including the Connect Platform Individual and Team editions. Additionally, the protection is further enhanced by scalability features such as elastic load balancers and auto-scaling groups to handle spikes in traffic.

Connect Platform Individual and Team editions are supported by virtual machines (VMs) that leverage endpoint detection and response (EDR) tools. These tools detect, prevent and assist in response to sophisticated attacks that could bypass traditional antivirus solutions.

Thermo Fisher Scientific recommends that customers utilize our [Reporting Security Issues form](#) to report suspected or potential security issues.



# Data encryption

## Encryption at rest

Thermo Fisher Scientific stores device and customer-uploaded data to the Connect Platform Individual and Team editions primarily in Amazon Simple Storage Service™ (Amazon S3™). The data stored in Amazon S3 is encrypted using Amazon S3 server-side encryption that utilizes 256-bit Advanced Encryption Standard (AES-256). Other database and storage services leverage native AWS encryption mechanisms. Backups that contain any customer data are also encrypted at rest.

## Encryption in transit

Data uploaded from an instrument or a user to the Connect Platform Individual and Team editions is encrypted in transit. Web and mobile clients accessing data in the cloud use Hypertext Transport Protocol over TLS (HTTPS), utilizing 256-bit encryption. For IoT-connected devices that integrate with the Connect Platform Individual and Team editions, both Message Queueing Telemetry Transport (MQTT) over TLS protocols and HTTPS are used to secure communications.





# Secure product development lifecycle

Products, instruments, software and devices undergo custom security assessments as part of the product development lifecycle. Customization is based upon the components included with the solution and the complexity of these component interactions. The assessment may include technical review, focused testing of identified components and regulatory review, if applicable. The Product Development team for the Connect Platform Individual and Team editions reviews, evaluates and prioritizes security assessment findings for remediation, acting on them based on criticality and a business risk management process.

Additional security measures employed by the Connect Platform Product Development team as part of the product security assessment include storing source code in a Thermo Fisher Scientific-approved version control solution that contains built-in redundancy and maintaining software artifacts in an artifact management solution that provides visibility and control of

developed software builds. The version control solution also leverages static analysis and dynamic analysis tools to scan code repositories, web applications and application programming interfaces (APIs), where applicable, for potential security vulnerabilities.

Thermo Fisher Scientific follows a standardized change control process that requires various approvals based on logical segregation of duties prior to progression of tested and verified artifacts, such as source code, compiled code and generated images, to a higher environment. The Connect Platform Product Development team, in accordance with Thermo Fisher Scientific policies, follows documented standard operating procedures for application and infrastructure management. Thermo Fisher Scientific also monitors application and infrastructure health via health check tools, resource utilization and logging alarms.



 Questions? Please visit **Thermo Fisher Connect Platform product website** if you would like to learn more or have questions.

To request support for Connect Platform Individual and Team editions, sign into **Connect Platform** and click the Feedback button located near the bottom-right corner.

**For Research Use Only. Not for use in diagnostic procedures.** ©2024 Thermo Fisher Scientific Inc. All rights reserved.

All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. Amazon S3, Amazon Simple Storage Service, Amazon Virtual Private Cloud, Amazon VPC, Amazon Web Services, AWS and AWS Shield are trademarks of Amazon Technologies Inc. SAP is a trademark of SAP AG.