360 ADVANCED

SOC 3® REPORT ON CONTROLS RELEVANT TO SECURITY FOR THERMO SCIENTIFIC™ CORE LIMS™ SOFTWARE (PREVIOUSLY KNOWN AS PLATFORM FOR SCIENCE)

THERMO FISHER SCIENTIFIC, INC.

JUNE 1, 2024 TO MAY 31, 2025

ThermoFisher SCIENTIFIC

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THERMO FISHER SCIENTIFIC, INC.

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INDEPENDENT SERVICE AUDITOR'S REPORT

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INDEPENDENT SERVICE AUDITOR'S REPORT

To Thermo Fisher Scientific, Inc.:

Scope

We have examined Thermo Fisher Scientific, Inc.'s ("Thermo Fisher") assertion of Thermo Scientific™ Core LIMS™ Software ("Core LIMS™") included in Section 2 of this report that the controls within Thermo Fisher's system were effective throughout the period June 1, 2024 to May 31, 2025, to provide reasonable assurance that Thermo Fisher's service commitments and system requirements were achieved based on the trust services criteria relevant to Security (applicable trust services criteria) set forth in TSP section 100, *2017 Trust Services Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy* (*With Revised Points of Focus — 2022)* in AICPA, *Trust Services Criteria*.

Thermo Fisher uses Amazon Web Services, Inc. ("AWS"), a sub-service organization, for cloud hosting services. Thermo Fisher's assertion and description of the boundaries of the system, included in Section 2 and Section 3 of this report, respectively, indicate that certain applicable trust services criteria can only be met if certain types of controls at the aforementioned sub-service organization are suitably designed and operating effectively. The description does not include any of the controls expected to be implemented at the sub-service organization. Our examination did not extend to the services provided by the sub-service organization, and we have not evaluated whether the controls management expects to be implemented at the sub-service organization have been implemented or whether such controls were suitability designed and operating effectively throughout the period June 1, 2024 to May 31, 2025.

Service Organization's Responsibilities

Thermo Fisher is responsible for its service commitments and system requirements and for designing, implementing, and operating effective controls within the system to provide reasonable assurance that Thermo Fisher's service commitments and system requirements were achieved. Thermo Fisher has also provided the accompanying assertion titled "Management of Thermo Fisher Scientific, Inc.'s Assertion" included in Section 2 of this report about effectiveness of controls within the system. When preparing its assertion, Thermo Fisher is responsible for selecting, and identifying in its assertion, the applicable trust services criteria and for having a reasonable basis for its assertion by performing an assessment of the effectiveness of the controls within the system.

Service Auditor's Responsibilities

Our responsibility is to express an opinion, based on our examination, on whether management's assertion that controls within the system were effective throughout the period to provide reasonable assurance that the service organization's service commitments and system requirements were achieved based on the applicable trust services criteria. Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform our examination to obtain reasonable assurance about whether management's assertion is fairly stated, in all material respects. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

Our examination included:

- Obtaining an understanding of the system and the service organization's service commitments and system requirements
- Assessing the risks that controls were not effective to achieve Thermo Fisher's service commitments and system requirements based on the applicable trust services criteria
- Performing procedures to obtain evidence about whether controls within the system were effective to achieve Thermo Fisher's service commitments and system requirements based on the applicable trust services criteria

Our examination also included performing such other procedures as we considered necessary in the circumstances.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements relating to the examination engagement.

Inherent Limitations

There are inherent limitations in the effectiveness of any system of internal control, including the possibility of human error and the circumvention of controls.

Because of their nature, controls may not always operate effectively to provide reasonable assurance that the service organization's service commitments and system requirements are achieved based on the applicable trust services criteria. Also, the projection to the future of any conclusion about the effectiveness of controls is subject to the risk that controls may become inadequate because of changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

In our opinion, management's assertion that the controls within Thermo Fisher's Core LIMS™ system were effective throughout the period June 1, 2024 to May 31, 2025, to provide reasonable assurance that Thermo Fisher's service commitments and system requirements were achieved based on the applicable trust services criteria is fairly stated, in all material respects.

November 19, 2025
St. Petersburg, Florida

SECTION 2:

MANAGEMENT'S ASSERTION

MANAGEMENT OF THERMO FISHER SCIENTIFIC, INC.'S ASSERTION

November 19, 2025

We are responsible for designing, implementing, operating, and maintaining effective controls with Thermo Fisher Scientific, Inc.'s ("Thermo Fisher") Thermo Scientific™ Core LIMS™ ("Core LIMS™") system throughout the period June 1, 2024 to May 31, 2025, to provide reasonable assurance that Thermo Fisher's service commitments and system requirements relevant to Security were achieved. Our description of the boundaries of the system is presented in Section 3 of this report and identifies the aspects of the system covered by our assertion. Thermo Fisher uses Amazon Web Services, Inc. ("AWS"), a sub-service organization, for cloud hosting services. The description included in Section 3 excludes the applicable trust services criteria and related controls of the sub-service organization.

We have performed an evaluation of the effectiveness of the controls within the system throughout the period June 1, 2024 to May 31, 2025, to provide reasonable assurance the Thermo Fisher's service commitments and system requirements were achieved based on the trust services criteria relevant to Security set forth in TSP section 100, *2017 Trust Services Criteria for Security, Availability, Processing Integrity, Confidentiality, and Privacy* (*With Revised Points of Focus — 2022)* in AICPA, *Trust Services Criteria*. Thermo Fisher's objectives for the system in applying the applicable trust services criteria are embodied in its service commitments and system requirements relevant to the applicable trust services criteria. The principal service commitments and system requirements related to the applicable trust services criteria are presented in Section 4 of this report.

There are inherent limitations in any system of internal control, including the possibility of human error and the circumvention of controls. Because of these inherent limitations, a service organization may achieve reasonable, but not absolute assurance that its service commitments and system requirements are achieved.

We assert that the controls within the system were effective throughout the period June 1, 2024 to May 31, 2025, to provide reasonable assurance that Thermo Fisher's service commitments and system requirements were achieved based on the applicable trust services criteria.

/s/ Thermo Fisher Scientific, Inc.

Liz Tonks – Sr. Director, Engineering Delivery and Quality

SECTION 3:

DESCRIPTION OF THE SYSTEM

OVERVIEW OF OPERATIONS AND THE SYSTEM

Company Overview and Background

Thermo Fisher provides science services, with annual revenue exceeding $40 billion. Thermo Fisher's mission is to enable its customers to make the world healthier, cleaner, and safer. Thermo Fisher strives to help customers accelerate life sciences research. Thermo Fisher has a global team of over 100,000 colleagues that deliver a combination of innovative technologies, purchasing assistance and pharmaceutical services through their brands, including Thermo Fisher, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services, Patheon and PPD.

Overview of the Core LIMS™ System

Core LIMS is part of a Platform-as-a-Service solution enabling lab informatics. The Core LIMS software is the underlying data management infrastructure designed to support scientific organization workflows. Core LIMS provides the scientific community with a flexible, cost effective, and secure way to collect, store, access, share, and use scientific data.

The Core LIMS Software offers the following capabilities, including but not limited to:

- Sample Management, Accessioning, and Tracking - assures sample integrity, data quality, and proper chain of custody across shipping, accessioning, and inventory management.
- Instrument Management - Monitor the status of instruments, schedule work and maintenance, and manage capacity across facilities to share workload effectively.
- Inventory and Storage Management - See stocks of reagents and consumables, where items are located and their expiry dates, to manage supplies and assign automatic re-order alerts.
- Laboratory Management – provides visibility of lab operation, in-progress experiments, sample status, lab capacity, available resources, and turnaround time.
- Reporting and Data Analytics - Report on, share, analyze, and manage data in context — Core LIMS Software captures data relationships and metadata.

Sub-Service Organizations

Thermo Fisher uses Amazon Web Services, Inc. ("AWS"), a sub-service organization, for cloud hosting services. The description indicates that complementary sub-service organization controls that are suitably designed and operating effectively are necessary, along with controls at Thermo Fisher, to achieve Thermo Fisher's service commitments and system requirements based on the applicable trust services criteria.

The description presents Thermo Fisher's controls, the applicable trust services criteria, and the types of complementary sub-service organization controls assumed in the design of Thermo Fisher's controls. The description does not disclose the actual controls at the sub-service organization. Our examination did not include the services provided by the sub-service organization, and we have not evaluated the suitability of the design or operating effectiveness of such complementary sub-service organization controls.

Infrastructure

The Core LIMS instances are hosted within AWS data center facilities. The portion of the Thermo Fisher network relevant to Core LIMS includes the corporate network as well as AWS-based virtual infrastructure and management components, such as AWS accounts and Virtual Private Clouds (VPCs). Core LIMS utilizes a single tenant AWS environment infrastructure for customer instances. Infrastructure-as-a-Code (IaC) is used for configuration management to standardize the baseline environment configurations. Amazon Machine Images (AMIs) used for Tomcat application deployments are maintained by AWS and

managed through Elastic Beanstalk.

For both deployment models, the virtual infrastructure includes an AWS VPC configured with a de-militarized zone (DMZ) to reduce exposure to the public internet. The DMZ contains load balancers and application servers that are segmented from internal resources. To control traffic between the DMZ and the internal network, AWS VPC Security Groups and route Tables are configured with restrictive rules. Core LIMS database servers are deployed within a subnet under an AWS VPC and may be configured as either public-facing or private-facing, based on customer requirements at the initial project phase.

The following describes the in-scope components supporting the Core LIMS™ system:

System / Application	Description	Infrastructure
Core LIMS	Underlying data management infrastructure designed to support scientific organizations' workflows.	Operating Systems: Microsoft® Windows Server® 2012 R2 64-bit or newer Microsoft® Windows Server® 2012 / 2016 - 64-bit Red Hat® Enterprise Linux 7 Red Hat® Enterprise Linux 6 Databases: Amazon RDS Oracle 19c Web / Application Servers: Amazon EC2 instances deployed from baseline AMIs AWS Elastic Beanstalk for application orchestration

Software

Thermo Fisher's system refers to the guidelines and activities for providing services to user entities and includes the infrastructure and software that support Core LIMS.

Thermo Fisher uses the following software to support the system:

- AWS Certificate Manager – manages and safeguards digital certificates used to encrypt data transmitted between customers and the CORE LIMS platform, whether through the user interface (UI) or application programming interfaces (API).
- AWS CloudTrail – captures and retains logs of activity across the AWS infrastructure to support continuous monitoring and traceability of account actions.
- AWS GuardDuty – continuously monitors the AWS environment for potential threats, including unauthorized access and malicious activity, helping to protect accounts, workloads, and customer data.
- AWS Identity and Access Management (IAM) – provides secure control over user access to AWS services and resources through role-based access policies.
- AWS Key Management Service (KMS) – manages and protects selected encryption keys used for securing customer data.
- AWS Relational Database Service (RDS) – hosts customer data within an AWS-managed Oracle

relational database.

- AWS Simple Storage Service (S3) – offers object storage through a scalable web-based interface.
- Endpoint Detection and Response Platform – endpoint protection platform (EPP) with integrated endpoint detection and response (EDR) capabilities. It monitors endpoint activity to detect, prevent, and respond to potential threats, alerting security teams to malicious behavior for investigation and remediation.
- Microsoft Active Directory – functions as the corporate directory service, facilitating user authentication and access control through group membership management.
- Microsoft Active Directory Add-on – enforces additional password composition requirements and supports password expiration based on length criteria.
- Microsoft Remote Desktop Protocol (RDP) – enables secure remote access to Microsoft-based virtual hosts within the internal network for administrative tasks.
- Secure Shell (SSH) – allows secure, internal network connections to Linux-based virtual hosts for administrative purposes.

People

Thermo Fisher's organization supports the framework for an effective control environment. The roles and responsibilities of key functions include the following:

- Digital Science and Automation Solutions ("DSAS") Security Team – consists of a dedicated CIS team member who acts as a liaison to DSAS and leaders from Quality Assurance & Regulatory Affairs, Technical Operations, Customer Support, Human Resources, Facilities / Site Security, and Engineering. Along with the CIS team, they are responsible for the security of Core LIMS.
- Engineering Team – responsible for all Core LIMS software development, testing and maintenance.
- Human Resources Team – responsible for human resources-related processes, including personnel screening, orientation, training and termination.
- Information Technology Team – the IT team at corporate and within DSAS manages the IT environment and resources used to support the Core LIMS including the Microsoft Active Directory network, VPN, and user workstations.
- Product Team – responsible for the definition of the Core LIMS' functionality.
- Quality Assurance & Regulatory Affairs Team – responsible for maintaining the DSAS quality management system ("QMS"), including standard operating procedures, the training program, and regulatory compliance for DSAS.
- Technical Operations Team – manages the IT environment, including the AWS-based virtual IT infrastructure system components comprising each instance of the Core LIMS.

Procedures

INFRASTRUCTURE MANAGEMENT

Physical and Environmental Security

The physical and environmental infrastructure that is relied upon for the Core LIMS system comprise of network, hardware, and facility components managed and maintained within AWS. Management obtains and reviews the annual service auditor's reports for AWS on an annual basis to evaluate the design and operating effectiveness of the controls expected to be in place.

Information Security

Network Access Controls

New user access requests are initiated by the human resources team through the Human Resources Information System (HRIS) resulting in the creation of a ticket submitted to the IT department for the creation of a network Active Directory (AD) account. Employees are then provided with a unique domain account and password. The password is configured to include password history, minimum length, account lockout duration, threshold, and multi-factor authentication. Administrative access to the domain is restricted to personnel commensurate with their job role. Additionally, logical access is reviewed on a semi-annual basis to ensure access is assigned commensurate with job roles. Accounts assigned to terminated employees are disabled or deleted upon termination.

To access the AWS production environment, personnel are assigned to the appropriate role group within AD and require a unique password with multi-factor authentication. AWS Identity and Access Management (IAM) is linked to the AD group to ensure administrative access is restricted to personnel commensurate with their job role. Additionally, an encrypted SSH connection is utilized to remotely access production resources.

Business Continuity

A Business Continuity Plan (BCP) is in place defining key personnel and the necessary steps to continue business operations in the event of an unplanned event, failure of key business processes, or a disaster. The plan outlines roles and responsibilities, recovery procedures, and communication strategies to support operational continuity. Periodic reviews and updates are performed to maintain the plan's alignment with current business functions and infrastructure.

Change Management

Thermo Fisher maintains policies and procedures to guide personnel in the development of secure software and systems. Key components of the process include development, code review, functional testing, and change authorization prior to release to production. These policies and procedures are documented and available on the company intranet to ensure employees have access to the necessary guidance.

A lifecycle management tool, Jira, is utilized to manage development projects. Both customer-initiated requests and internal strategic development features are collected and prioritized within Jira. Version control software is also in place and used to restrict access to source code as well as provide standard code repository functionality.

Application Change Management

At the initiation of the application change management process, requested application updates and features are reviewed and approved by the Product Management team before the requirements of the change are divided into separate tasks within the workflow software to be developed. Access to the integration and deployment tools, code repository, and versioning tools are restricted to personnel commensurate with their job role. Testing of changes is performed in an environment that is maintained separate from production. Code review approvals of application changes are systematically enforced to occur prior to changes being implemented to the production environment.

Infrastructure Change Management

Thermo Fisher's IaC is stored within a code repository in GitHub. Scripts are utilized to create consistent environments within the cloud platform. Infrastructure changes are documented and approved prior to implementation into the production environment. Personnel with administrative access to the cloud environment have the ability to apply infrastructure changes to the production environment.

Endpoint Protection

The Amazon GuardDuty service is enabled to provide continuous monitoring and analysis of network traffic and system events to identify potential security threats on system resources hosted within the AWS cloud environment.

An inventory of assets is maintained to assist with the tracking and disposal of system components and system-related items. Workstations, servers, and software are maintained within their respective inventories to manage assets appropriately. Workstations are encrypted to prevent unauthorized access to data. Antivirus protection is configured for real-time malware detection and protection on employee workstations.

Incident Management

Documented incident response policies and procedures are in place to guide personnel in reporting and responding to information technology incidents. Internal users can report incidents through the customer support portal. Reported incidents are logged and tracked within a ticketing system from identification to resolution. The incident response policy is tested on an annual basis by cross departmental teams. A cyber insurance policy is maintained to offset the financial impact incurred by the company in the event of a security incident or data breach.

Vulnerability Management

Vulnerability scans are configured to run monthly to identify weaknesses and vulnerabilities on systems hosting the applications in scope. Patches are applied to AMIs to create a newly patched image to be pushed to the AWS infrastructure.

Data

Thermo Fisher has established a Data Classification Policy which documents the various data classification criteria. This policy is reviewed and approved by management annually and communicated to internal personnel. In addition, the Data Handling and Protection Standards define procedures for handling information assets based on their classification, including requirements for media disposal.

Customer data is maintained in AWS-based virtual IT infrastructure system components including production data bases deployed using AWS RDS and object storage deployed using AWS S3 (backup copies of customer data are maintained using AWS RDS backup snapshots which are stored in AWS S3 buckets). Data in transit is encrypted with SSL / TLS 1.2 industry standard encryption and data at rest is encrypted with AES-256 encryption algorithm. Cryptographic keys (if utilized) are stored in AWS KMS (Key Management Service).

SECTION 4:

SERVICE COMMITMENTS AND SYSTEM REQUIREMENTS

SERVICE COMMITMENTS AND SYSTEM REQUIREMENTS

Thermo Fisher's management designs its processes and procedures related to the Core LIMS system to meet its objectives. Those objectives are based on the service commitments that Thermo Fisher's management makes to user entities, the laws and regulations that govern the provisioning of the Core LIMS system and the financial, operational, and compliance requirements that Thermo Fisher has established for the services.

Thermo Fisher's principal service commitments and system requirements may be explicitly stated within Service Level Agreements and contracts, or may be implicitly agreed to, based on the nature of the industry in which they operate. These commitments generally include the following:

Trust Services Category	Service Commitments	System Requirements
Security	➢ System access is granted to authorized personnel only ➢ Identification and remediation of security incidents / events	➢ Logical access standards ➢ Physical access standards ➢ Encryption standards