



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Palindrome Technologies

21 Roszel Rd. Suite 105

Princeton, NJ 08540

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 14 September 2024

Certificate Number: L2331



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Palindrome Technologies

21 Roszel Rd. Suite 105
Princeton, NJ 08540
Peter Thermos
732 688 0413

TESTING

Valid to: **September 14, 2024**

Certificate Number: **L2331**

Information Technology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Web Security Testing	OWASP Testing Guide v4	Enterprise or Service Provider Web Applications	Configuration and Deployment Management Testing; Identity Management Testing; Authentication Testing; Authorization Testing; Session Management Testing; Input Validation Testing; Testing for Error Handling, Weak Cryptography and Business Logic; Client Side Testing
IoT Security Testing	CTIA Cybersecurity Certification Test Plan for IoT Devices Version 1.1 June 2019	IoT Devices	Level 1, 2, 3 Tests
General IT Security for Telecommunications Equipment	3GPP TS 33.117 V16.4.1 (2020-03); 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Catalogue of general security assurance requirements (Release 16) ²	Telecommunication Service Provider Components	General Security Requirements that apply to any Mobile Network Product

Information Technology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
IMS Security Assurance	3GPP TS 33.203 V16.1.0 (2020-09); 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 3G security; Security; Access Security for IP-Based Services (Release 16) ²	Telecommunication Service Provider Components	IMS Security Features Validation; Security Mechanisms Validation; Security Association Set-Up Procedure Validation. ISIM Security Requirements on the ISIM Application; Sharing Security Functions and Data with the USIM
LTE eNodeB	3GPP TS 33.216 V16.3.0 (2020-03); 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Security Assurance Specification (SCAS) for the evolved Node B (eNB) network product class (Release 16) ²	Telecommunication Service Provider Components	Security Requirements and Test Cases for LTE eNodeB
5GNB	3GPP TS 33.511 V16.5.0 (2020-09); 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Security Assurance Specification (SCAS) for the next generation Node B (gNodeB) network product class (Release 16) ²	Telecommunication Service Provider Components	Security Requirements and Test Cases for 5GNB

Information Technology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
LTE Security Assurance	3GPP TS 33.401, V16.3.0 (2020-07); 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 3GPP System Architecture Evolution (SAE): Security Architecture (Release 16) ²	Telecommunication Service Provider Components	User-to-Network Security; Security requirements on eNodeB; Security Procedures Between UE and EPC Network Elements; Security Procedures Between UE and EPC Access Network Elements; Security Mechanisms for NonAccess Stratum Signaling; Security Interworking Between EUTRAN and UTRAN; Security Interworking Between EUTRAN and GERAN; Network Domain Control Plane Protection; Backhaul Link User Plane Protection; Management Plane Protection Over the S1 Interface.
5G AMF	3GPP TS 33.512 V16.4.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS); Access and Mobility management Function (AMF) (Release 16) ²	Telecommunication Service Provider Components	5g Access and Mobility Function

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
5G UPF	3GPP TS 33.513 V16.2.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS); User Plane Function (UPF) (Release 16) ²	Telecommunication Service Provider Components	5g User Plane Function
5G UDM	3GPP TS 33.514 V16.4.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS) for the Unified Data Management (UDM) network product class (Release 16) ²	Telecommunication Service Provider Components	5g Unified Data Management Product

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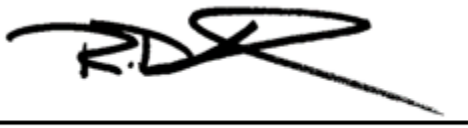
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
5G SMF	3GPP TS 33.515 V16.3.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS) for the Session Management Function(SMF) network product class (Release 16) ²	Telecommunication Service Provider Components	5g Session Management Function
5G AUSF	3GPP TS 33.516 V16.2.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS) for the Authentication Server Function (AUSF) network product class (Release 16) ²	Telecommunication Service Provider Components	5g Authentication Server Function

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
5G NRF	3GPP TS 33.518 V16.2.0 (2020-07) Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS) for the Network Repository Function (NRF) network product class (Release 16) ²	Telecommunication Service Provider Components	5g Network Repository Function
5G NEF	3GPP TS 33.519 V16.2.0 (2020-12); Technical Specification; 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 5G Security Assurance Specification (SCAS) for the Network Exposure Function (NEF) network product class (Release 16) ²	Telecommunication Service Provider Components	5g Network Exposure Function

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2331.
2. The scope of accreditation for 3GPP Methods covers all updates within the noted Release.



R. Douglas Leonard Jr., VP, PILR SBU