PRODUCT DATASHEET

tbNAC: Network Access Control

Introduction

Introducing TechBridge's latest innovation: tbNAC (Network Access Control). In an era where network security is paramount, tbNAC stands as a beacon of protection, ensuring that only authorized users and devices gain access to your network resources. tbNAC operates on the principle of intelligent access management, employing cutting-edge technologies to authenticate and authorize users and devices attempting to connect to your network. By seamlessly integrating with existing infrastructure, tbNAC provides granular control over access permissions, allowing organizations to enforce security policies with precision and efficiency.

Highlights:

- Granular network access control based on user, device, time, and location.
- Dynamic policy enforcement with auto-quarantine and risk-based remediation.
- Support for both IPv4 and IPv6 network architectures.
- Self-service portals with guest sponsorship and location-aware redirection.
- Integration with industry-leading tools (SIEM, EDR, Active Directory, etc.)
- SNMP MIB compile capability for integration with SNMP-compliant devices.
- Customizable reporting for audit, compliance, and network intelligence.
- Advanced posture assessment using agent-based and agentless health checks.

Key Features :

- **User Authentication:**

Our tbNAC solution supports a variety of authentication methods, including username/password, MAC-based, and captive portal authentication. It seamlessly integrates with LDAP/Active Directory for centralized user management, ensuring secure access control. Additionally, it offers support for OTP, email, SMTP, RADIUS, and sponsor authentication methods.

- **Policy Enforcement:**

Define granular access rules based on user roles, device types, time of access, and geographical location. Our tbNAC solution empowers you to enforce policies dynamically, adapting to evolving network conditions and security requirements..

- **Device Visibility:**

Gain comprehensive visibility into all devices connecting to your network. From laptops and smartphones to IoT devices, our tbNAC solution provides real-time insights into device attributes for proactive threat identification and mitigation.

Includes port-level analysis and supports SNMP MIB compilation to enable discovery and management of SNMP-enabled network devices.

- **Network Segmentation:**

Segment your network infrastructure into distinct zones based on security requirements and access policies. Our tbNAC solution enables tailored access controls and facilitates security containment, limiting the impact of security incidents and unauthorized access.

- **Posture Assessment**

Automate health and compliance validation across your network using our advanced posture assessment logic. We utilize the tbNAC Agent to collect posture data from endpoints, enabling detailed health analysis and decision-making.

Additionally, our solution offers integrated support for Microsoft NAP, allowing agentless posture checks on Windows devices.

If any device is found non-compliant based on defined policy and posture analysis, it is automatically quarantined, enforcing your access control framework without manual intervention. This ensures real-time risk containment and remediation.

- **Integration and Extensibility:**

Seamlessly integrate our tbNAC solution with your existing network infrastructure and security tools. With robust APIs and support for industry-standard protocols, our solution offers unparalleled flexibility and extensibility, enabling seamless interoperability with third-party security solutions.

Other Features

1. User Authentication

Our tbNAC solution supports a variety of authentication methods, including username/password, MAC-based, and captive portal authentication. It seamlessly integrates with LDAP/Active Directory and RADIUS servers for centralized user and device authentication, ensuring secure and scalable access control across the network.

Additionally, it offers support for OTP, email, SMTP, and sponsor-based guest authentication workflows, enabling IT-free validation. MAC address caching is enabled post-authentication to ensure seamless guest re-entry during their visit, delivering a 3G-like experience.

4. Network Segmentation

Tailored Security Zones:

- Strategically segment your network into customized zones based on specific security needs and access policies.

Supports VLAN steering via RADIUS (IETF and VSA attributes), along with port bouncing via SNMP/RADIUS for dynamic enforcemen

- **Quarantine and Remediation:**

Take decisive action against non-compliant devices with our tbNAC solution's quarantine and remediation capabilities. Upon detection of policy violations or posture-related non-compliance, our solution automatically isolates the device using VLAN steering or SNMP-triggered port bouncing.

Devices are redirected to restricted segments or captive portals with clear remediation instructions. Once posture compliance is restored—via automated or user-driven actions—devices are reintroduced into the production network.

The Benefits

- Versatile Authentication Methods.
- Centralized User Management.
- Comprehensive Monitoring.
- Enhanced Security Zones.
- Granular Access Control.
- Proactive Remediation.

2. Policy Enforcement

Precision Access Control:

- Define and enforce nuanced access rules tailored to user roles, device types, access times, and geographical locations.

Adaptive Policy Implementation:

- Dynamically adjusts policies based on context (device type, location, user profile) to meet evolving network and security conditions.

3. Device Visibility

Holistic Device Monitoring:

- Achieve 360-degree visibility of all devices interfacing with your network, from laptops and smartphones to IoT gadgets.

Incident Containment:

- Confine security incidents and unauthorized access within defined segments using VLAN steering and SNMP port control.

6. Quarantine and Remediation:

Compliance Enforcement:

- Proactively isolate non-compliant or compromised devices upon violation detection (e.g., triggered by IDS alerts).

Dynamic Risk Mitigation:

- Initiates automated remediation paths to restore device posture and compliance in real time.

Supported Platforms

- **Endpoints etc**
- **Network Device**
- **Windows Linux OS**
- **Security Device & Application.**

System Requirements

- **RAM: 16 GB**
- **Storage: 500 GB**
- **CPU: 12 Core**
- **Storage: SSD for faster data access**

5. Posture Assessment:

Automated Health Evaluation:

- Leverage the tbNAC Agent to collect posture and compliance data for dynamic policy evaluation.

Agentless Support via Microsoft NAP:

- For Windows systems, posture and health checks are also supported without the need to install an agent.

Risk-Based Isolation:

- Non-compliant devices are automatically quarantined based on real-time posture and policy violation analysis.

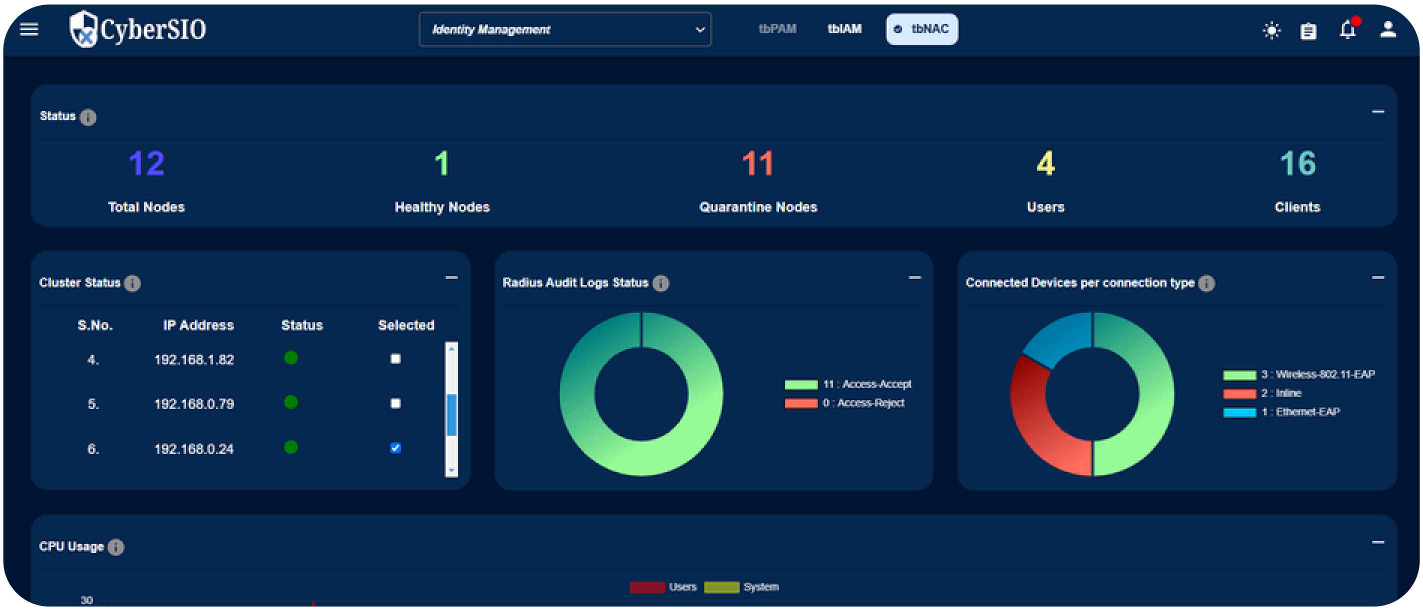
7. Integration and Extensibility:

Seamless Ecosystem Integration:

- Effortlessly integrate tbNAC with your existing network infrastructure, switches, firewalls, IDS/IPS, and SIEM platforms.

Unmatched Flexibility:

- Utilize robust APIs, SNMP MIB compile capabilities, and RADIUS extensions to enable broad device compatibility and dynamic network control.



Status

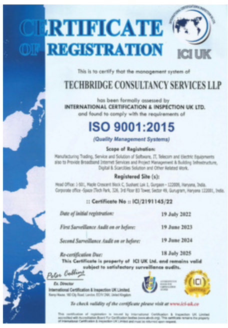
12	1	11	4	16
Total Nodes	Healthy Nodes	Quarantine Nodes	Users	Clients

Cluster Status

S.No.	IP Address	Status	Selected
4.	192.168.1.82	●	□
5.	192.168.0.79	●	□
6.	192.168.0.24	●	☑

ABOUT TECHBRIDGE

TechBridge is the World's leading Product & Solutions Company. Data Center Applications, Collaboration and Real Time Communication. DC Management and Monitoring, Disaster Management, Security, Collaboration and Cloud. Its market-leading Network Modernization, Unified Communications, Mobility and Embedded Communications solutions enable customers to quickly capitalize on growing market segments and introduce differentiating products, applications and services. We are an expert and leader in Government Solutions, Smart City Solutions, Data Centers and Large Enterprises. We do custom applications also, as per the customer requirements.



CERTIFICATE OF REGISTRATION

ICI UK

This is to certify that the management system of

TECHBRIDGE CONSULTANCY SERVICES LLP

has been formally assessed by
INTERNATIONAL CERTIFICATION & INSPECTION UK LTD.
and found to comply with the requirements of

ISO 9001:2015

(Quality Management Systems)

Scope of Registration:

Manufacturing Trading, Service and Solution of Software, IT, Telecom and Electric Equipments also to Provide Broadband Internet Services and Project Management & Building Infrastructure, Digital & Scarcities Solution and Other Related Work.

Registered Site (s):

Head Office: I-501, Maple Crescent Block C, Sushant Lok 1, Gurgaon - 122009, Haryana, India.
Corporate office -Spaze ITech Park, 326, 3rd Floor B3 Tower, Sector 49, Gurugram, Haryana 122001, India.

:: Certificate No :: ICI/2191145/22

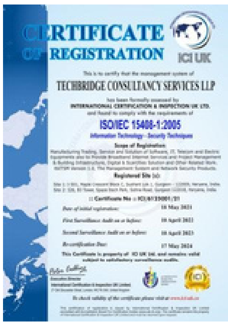
Date of initial registration:	19 July 2022
First Surveillance Audit on or before:	19 June 2023
Second Surveillance Audit on or before:	19 June 2024
Re-certification Due:	18 July 2025

This Certificate is property of ICI UK Ltd. and remains valid subject to satisfactory surveillance audits.

Peter Collins
Ex. Director
International Certification & Inspection UK Limited.
Kemp House, 160 City Road, London, EC1V 2NX, United Kingdom

To check validity of the certificate please visit at www.ici-uk.co

This certification of registration is issued by International Certification & Inspection UK Limited accredited with Accreditation Board For Certification bodies (www.abcb.org). This certificate remains the property of International Certification & Inspection UK Limited and must be returned upon request.



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ISO/IEC 15408-1:2005

Information Technology - Security Techniques

Scope of Registration:

Manufacturing Trading, Service and Solution of Software, IT, Telecom and Electric Equipments also to Provide Broadband Internet Services and Project Management & Building Infrastructure, Digital & Scarcities Solution and Other Related Work. [illegible] Version 1.0, The Management System and Network Security Products.

Registered Site (s):

Site 1: I-501, Maple Crescent Block C, Sushant Lok 1, Gurgaon - 122009, Haryana, India.
Site 2: 326, B3 Tower, Spaze Itech Park, Sohna Road, Gurgaon 122018, Haryana, India.

:: Certificate No :: ICI/[illegible]/21

Date of initial registration:	18 May 2021
First Surveillance Audit on or before:	18 April 2022
Second Surveillance Audit on or before:	18 April 2023
Re-certification Due:	17 May 2024

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Peter Collins
Executive Director
International Certification & Inspection UK Limited
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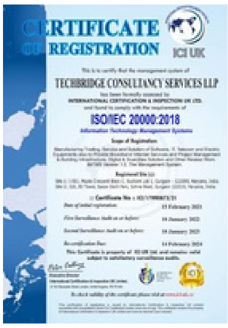

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ISO/IEC 20000:2018

Information Technology Management Systems

Scope of Registration:

Manufacturing Trading, Service and Solution of Software, IT, Telecom and Electric Equipments also to Provide Broadband Internet Services and Project Management & Building Infrastructure, Digital & Scarcities Solution and Other Related Work. [illegible] Version 1.0, The Management System.

Registered Site (s):

Site 1: I-501, Maple Crescent Block C, Sushant Lok 1, Gurgaon - 122009, Haryana, India.
Site 2: 326, B3 Tower, Spaze Itech Park, Sohna Road, Gurgaon 122018, Haryana, India.

:: Certificate No :: ICI/[illegible]/21

Date of initial registration:	15 February 2021
First Surveillance Audit on or before:	04 January 2022
Second Surveillance Audit on or before:	04 January 2023
Re-certification Due:	14 February 2024

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Executive Director
International Certification & Inspection UK Limited
[illegible]

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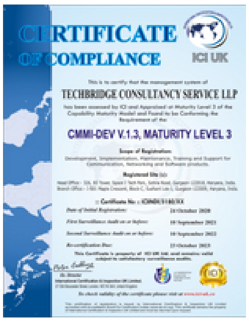
[illegible]



CERTIFICATE OF COMPLIANCE

ICI UK

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TECHBRIDGE CONSULTANCY SERVICE LLP

has been assessed by ICI and Appraised at Maturity Level 3 of the Capability Maturity Model and Found to be Conforming the Requirement of the

CMMI-DEV V.1.3, MATURITY LEVEL 3

Scope of Registration:

Development, Implementation, Maintenance, Training and Support for Communication, Networking and Software products.

Registered Site (s):

Head Office : 326, B3 Tower, Spaze I Tech Park, Sohna Road, Gurgaon 122018, Haryana, India.
Branch Office : I-501 Maple Crescent, Block C, Sushant Lok 1, Gurgaon 122009, Haryana, India.

:: Certificate No :: ICIINDI/[illegible]

Date of Initial Registration:	24 October 2020
First Surveillance Audit on or before:	10 September 2021
Second Surveillance Audit on or before:	10 September 2022
Re-certification Due:	23 October 2023

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Peter Collins
Ex. Director
International Certification & Inspection UK Limited
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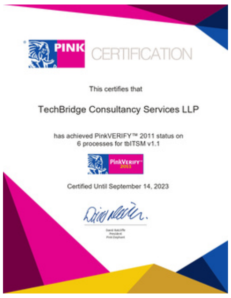


PINK CERTIFICATION

This certifies that

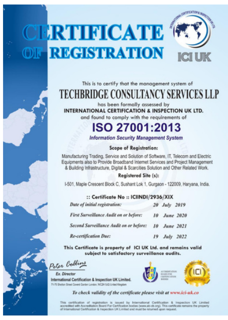
TechBridge Consultancy Services LLP

has achieved PinkVERIFY™ 2011 status on
6 processes for tbITSM v1.1

PinkVERIFY™ 2011

Certified Until September 14, 2023

David Ratcliffe
President
Pink Elephant



CERTIFICATE OF REGISTRATION

ICI UK

This is to certify that the management system of

TECHBRIDGE CONSULTANCY SERVICES LLP

has been formally assessed by
INTERNATIONAL CERTIFICATION & INSPECTION UK LTD.
and found to comply with the requirements of

ISO 27001:2013

Information Security Management System

Scope of Registration:

Manufacturing Trading, Service and Solution of Software, IT, Telecom and Electric Equipments also to Provide Broadband Internet Services and Project Management & Building Infrastructure, Digital & Scarcities Solution and Other Related Work.

Registered Site (s):

I-501, Maple Crescent Block C, Sushant Lok 1, Gurgaon - 122009, Haryana, India.

:: Certificate No :: ICIINDI/2936/XIX

Date of initial registration:	20 July 2019
First Surveillance Audit on or before:	10 June 2020
Second Surveillance Audit on or before:	10 June 2021
Re-certification Due:	19 July 2022

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Peter Collins
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71-75 Shelton Street Covent Garden London, WC2H 9JQ United Kingdom

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