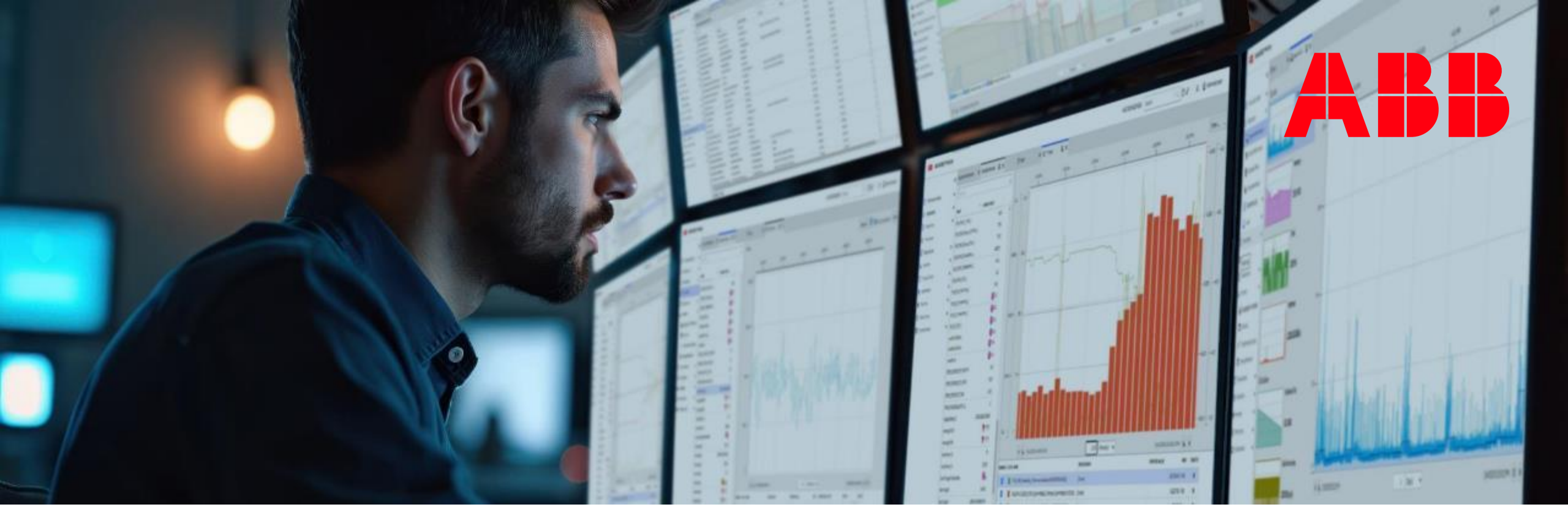

# ABB Ability™ Secure Remote Access

PROCESS CONTROL PLATFORM

Engineered for OT Devices and Systems

ENGINEERED
TO OUTRUN

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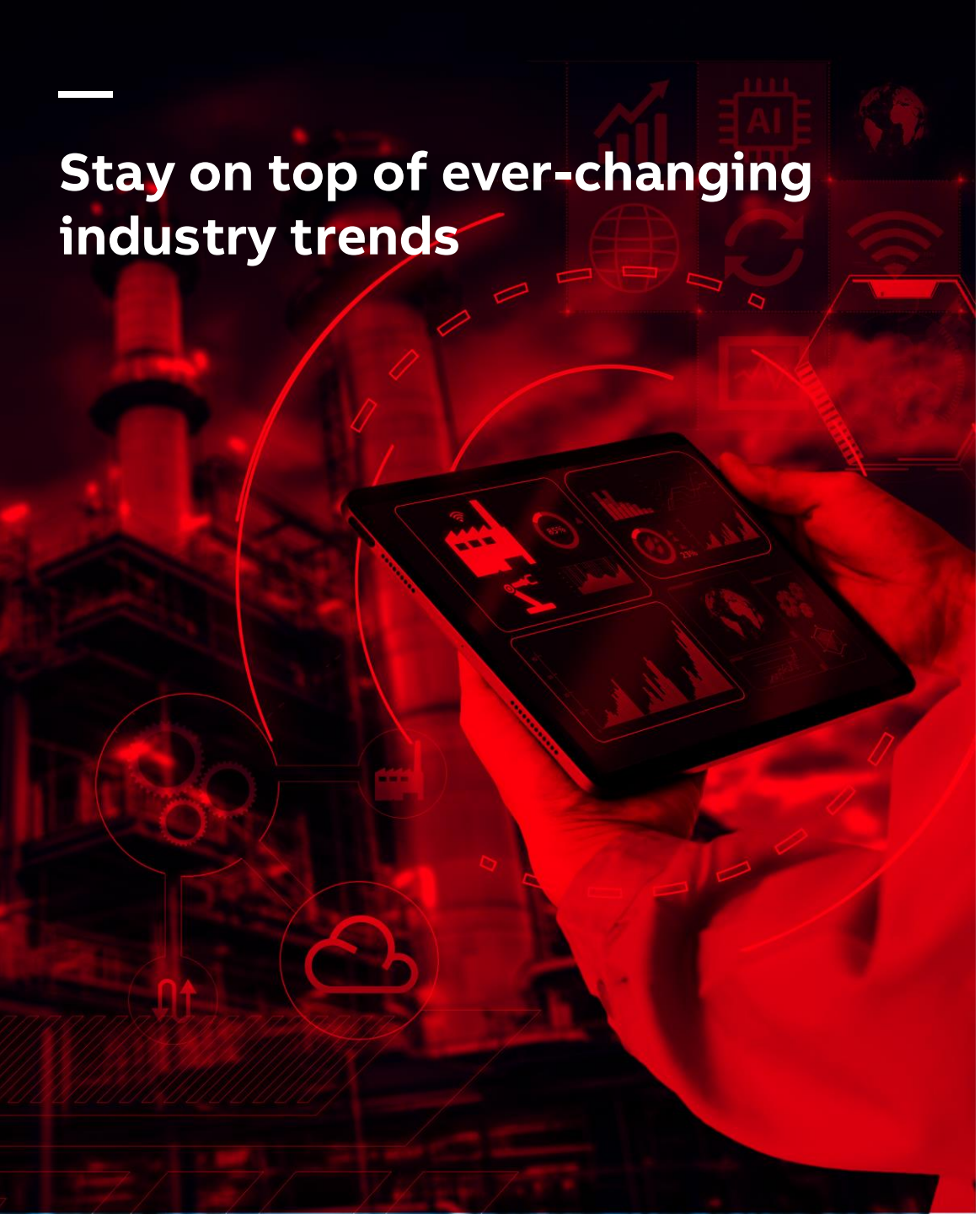
01

# Adapting to the industry shift

# Stay on top of ever-changing industry trends




## Digital Transformation

Newer types of connected devices underpin manufacturing, power generation, and other industrial processes, enabling safe, real-time data exchange to enhance efficiency and effectiveness and increase output.

## Modernized Workforce

In 2020, the job market witnessed a historic shift due to the COVID-19 pandemic. Remote work is no longer a niche opportunity but a necessary way for people around the globe in nearly all industries and positions to work.

## Regulatory Requirements

As a result of the above changes, regulatory requirements have been set to establish minimum standards requiring organisations to implement specific measures to protect their critical infrastructure from cyber attacks

# Navigating the complexity of Secure Remote Access

## Implementing secure access in mission-critical environments

### Securing Critical OT Environments

Organisations that operate OT environments face real and persistent obstacles when it comes to securing critical systems against unauthorised access.

**Remote Access Challenges**

### Complexity in Remote Access Administration

The burden is caused by needing separate login information for each network or device when managing remote access.

### Inadequacy of OT-centric Solution

Fundamental mismatches with system design, priority, and protocol requirements of OT- centric remote access solutions

### Vulnerabilities in Legacy Systems Without Updates

Non-connected legacy devices lack automatic updates and real-time monitoring, making them vulnerable to security risks like tampering and overlooked vulnerabilities.

### Application Availability

Remote access is restricted to specific programs on a server, preventing users from using necessary applications, plugins, or files of their choice

### Cybersecurity Risks

Industrial environments are increasingly targeted by cyberattacks. Protecting critical environment while maintaining accessibility and reliability is key

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02

# Enable Remote Access with ABB Ability™ SRA

# What is ABB Ability™ Secure Remote Access

Profoundly secure and easy to use

ABB Ability™ SRA is secure remote access software that easily handles all remote service activities to OT systems and devices with excellent UX.

ABB Ability™ SRA provides encrypted communications, authentication, authorization, access control, and auditing to handle remote service activities to OT devices and systems over multiple network layers.

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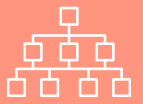
# ABB Ability™ Secure Remote Access – SRA

## Unleash operational potential — secure, seamless remote access built for OT

Single Sign-On (SSO) with your company ID (IAM)

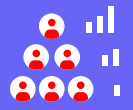
User-friendly “one-click” access to target systems and devices

Effortless Firewall and Proxy Traversal



Seamless multi-hop connectivity, end-to-end encryption

Authentication verified by the target system from IAM



Authorisation based on IAM roles in the target system

Native tooling support, e.g. access to SW repos

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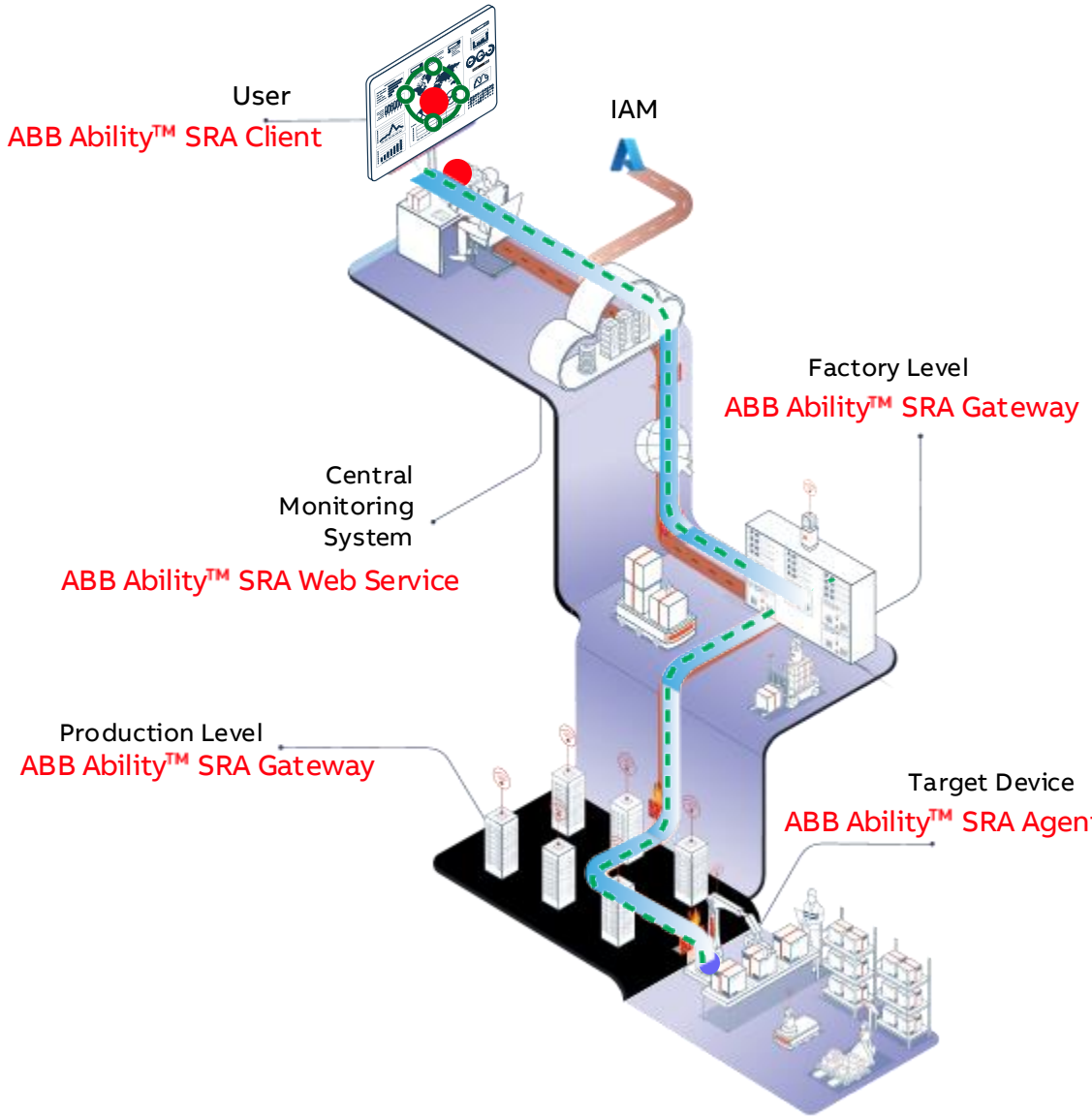
# How it works…

1. User connects to the ABB Ability™ SRA web service
2. Authentication verification – single sign-on
3. Browsing of customer systems, selecting the target device and the preferred tool
   - Opening the tunnel to the target through all intermediate nodes
   - Verification of the authentication by the target from IAM
   - Checking role-based access control – does the user has rights to the tool
   - Audit logging
   - Open the selected tool for the user
4. Start working with the native tool directly to the target

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03

# ABB Ability™ SRA

# ABB Ability™ Secure Remote Access – ABB Ability™ SRA

## Unleash operational potential — secure, seamless remote access built for OT

### Security

- End-to-end encrypted remote connection, safeguarding data from unauthorized access while providing secure and seamless connectivity for industrial operations.
- Support extensive network segmentation by gaps by securely connecting OT devices and ICS software repositories, ensuring regular updates with minimal risk.
- Enabling target devices to seamlessly authenticate users and ensure only authorized access to OT device and ICS environment.

### Control

- Empower asset owners with full control through a comprehensive dashboard, enabling them to manage remote access, set schedules, and enhance security effortlessly.
- Effortlessly bypass firewalls and proxies with secure connectivity, requiring only outbound HTTPS (443) on client and target systems.
- Maintain OT devices and ICS audit logs to track user actions and optionally report them to a central SIEM (Security Information and Event Monitoring) system.

### Efficiency

- Efficient access control with SSO via OAuth2, allowing users to authenticate seamlessly across multiple targets without the complexity of managing separate accounts or passwords.
- Equip users with full-featured, native tools designed for optimal performance, allowing users to experience the power of robust, high-performance applications built for efficiency and reliability.
- The user-friendly interface enhances navigation to the target resource, enabling users to complete tasks more efficiently.

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ABB