

## EXECUTIVE SUMMARY

### Empowering Secure DOD Operations in Tactical Edge & Denied, Degraded, Intermittent and Limited Bandwidth (DDIL) Environments with Appgate SDP Zero Trust Network Access

The Department of Defense (DOD) faces the complex challenge of securing operations across all domains—land, air, sea, space and cyber—while ensuring seamless and resilient communication, even in the most challenging environments. The Joint All-Domain Command and Control (JADC2) initiative reflects this necessity, aiming to integrate warfighting capabilities across military branches to enable faster, more informed responses to emerging threats. To maintain operational superiority, the DOD requires robust and adaptable solutions, particularly in Denied, Degraded, Intermittent and Limited Bandwidth (DDIL) environments where traditional communication methods may be unreliable.

#### CHALLENGES IN TACTICAL EDGE & DDIL ENVIRONMENTS

DDIL environments pose unique challenges, including:

- **Uninterrupted Command & Control:** Maintaining command and control continuity despite disrupted communication channels.
- **Secure, Resilient Communications:** Protecting sensitive information from cyberthreats while preserving communication integrity.
- **Coalition Interoperability:** Enabling seamless information sharing among coalition partners who may use different tools, technologies and security standards.
- **Operational Flexibility:** Supporting mission success in environments with limited infrastructure and connectivity.

The DOD requires solutions that address these challenges and foster interoperability between U.S. forces and coalition partners, ensuring a unified and secure operational posture.

#### APPGATE UNIVERSAL ZERO TRUST NETWORK ACCESS

*Appgate SDP Universal ZTNA* is well-suited to address the specific needs of the DOD. Specifically, it provides a robust, data-centric approach\* to security, ensuring that the right user gains access to the right data at the right time, regardless of their operational environment.

Key capabilities include:

- **Dynamic Access Control:** Appgate SDP leverages identity attributes, device telemetry and environmental context to dynamically enforce security policies, even in isolated or contested environments.
- **Resilient Operations:** Built on a distributed direct-routed architecture, Appgate SDP enables seamless access to both enterprise and local tactical resources, ensuring continuous operation and security enforcement even when disconnected from the enterprise network.
- **Unified Access Across Environments:** Users can access both tactical and enterprise resources using the same Zero Trust principles, ensuring a consistent security posture across all levels of operation.
- **Scalable, Lightweight Deployment:** Appgate SDP supports deployment on small form-factor devices and within virtualized environments, enabling flexibility and scalability in forward-deployed and tactical edge scenarios.
- **Cloaked** – Due to its Single Packet Authorization (SPA\*\*), Appgate SDP makes the network invisible. This enables the network edge to be cloaked, making it extremely difficult for adversaries to identify and attack protected resources.

\*\* See 'Appgate SDP Understanding Single Packet Authorization (SPA) White Paper for a further understanding. [<https://www.appgate.com/resources/appgate-sdp/single-packet-authorization-whitepaper>]



## SOLVING INTEROPERABILITY CHALLENGES

Interoperability across DOD branches and coalition partners is a significant challenge due to the diverse tools and technologies used to manage user access. Appgate SDP Universal ZTNA addresses these challenges through a flexible, comprehensive approach that includes:

- **Clientless Access:** Secure access is provided via a standard web browser, which is ideal for rapid onboarding and coalition operations.
- **Secure Browser Access:** Isolating browsing sessions to protect the user's local environment ensures secure data access in less controlled environments.
- **Browser Extension-Based Access:** Enabling secure connections without full client installation provides flexibility for users operating with different security tools, even on headless clients, such as mission computers.
- **Interoperability with Existing Solutions:** Facilitating seamless integration and unified policy enforcement across different environments ensures consistent security postures even with various technologies.

## ALIGNMENT WITH JADC2 OBJECTIVES

Appgate SDP Universal ZTNA aligns closely with JADC2 objectives by enabling secure, dynamic access control and supporting multi-domain operations. The platform's ability to maintain resilient operations in contested environments and ensure interoperability across various technologies and partners is crucial to JADC2's mission success.

## PROVEN AND TESTED SECURITY

Appgate SDP Universal ZTNA has been rigorously tested and certified to meet the highest security standards required by the DOD:

- **Multiple Authorizations to Operate (ATOs) (IL2-IL6):** Supporting secure access across all security domains, from unclassified to classified environments.
- **Common Criteria EAL Certification:** Providing an international standard for evaluating and certifying the security of Information Technology (IT) products and systems.
- **NIAP Protection Profile (In Progress):** Appgate is undergoing multiple protection profile certifications to meet U.S. government security requirements, supporting classified and tactical network deployments.
- **DISA Category Assurance List (CAL) Approved:** Meeting the DOD's stringent security and interoperability standards.

As the DOD advances its Zero Trust strategy, Appgate SDP Universal ZTNA offers a powerful, adaptable solution that ensures secure, resilient operations across all domains, even in the most challenging tactical edge and DDIL environments. By facilitating seamless communication, cloaking, dynamic access control and interoperability, Appgate SDP is uniquely positioned to support the DOD's mission success in today's complex and contested global landscape.

To learn more about how Appgate SDP Universal ZTNA can support your federal agency's security needs, visit <https://www.appgate.com/federal-division>.

### About Appgate

Appgate secures and protects an organization's most valuable assets and applications. Appgate is the market leader in Zero Trust Network Access (ZTNA) and online fraud protection. Appgate products include Appgate SDP for Universal ZTNA and 360 Fraud Protection. Appgate services include threat advisory analysis and ZTNA implementation. Appgate safeguards enterprises and government agencies worldwide. Learn more at [appgate.com](https://www.appgate.com).