Allot Traffic Intelligence Solution for the Public Sector
Strengthening governance and increasing productivity

Digital transformation: The global adoption

In recent years, significant shifts have shaped our way of life, impacting how we interact, shop, learn, and access essential services. Organizations worldwide have responded swiftly, embracing technological advancements and digital transformations. The government and public sector and other bureaucratic segments have kept pace, transitioning towards online information provision.

Digital dominance: The imperative shift in government services

Market research findings underscore a notable transition towards online government and public service provision in recent years, reflecting the culmination of significant technological advancements and digital transformations. Digital initiatives have been swiftly implemented in many areas of the world, and in many cases, digital channels have become the sole avenue for accessing governmental and public sector services.

Digital governance: prioritizing citizens in the digital age

Government and public sector organizations, once perceived as bureaucratic behemoths, have undergone a profound transformation in the digital age. Today, citizens are prioritized, with services accessible from any device, at any time. Furthermore, the implementation of SLAs ensures consistent delivery of high-quality services, meeting the evolving expectations of digital citizens.

Cloud adoption

In light of privacy and other concerns, government and public sector information and data are extremely sensitive. Advanced data security and cloud protection technologies are enabling governments and public sector organizations to consolidate their multiple, distributed data centers into centralized cloud-based IT centers. This digital revolution is crucial for governments worldwide as it strengthens the connection between authorities and the public.

Digital Imperatives for Public Sector Excellence

In today's advanced stage of digital transformation, an exceptional digital experience is more crucial than ever for public sector organizations to enhance productivity and effectively engage with the public. While online services have become the new norm and public servants have adopted hybrid operations, IT must prioritize mission-critical applications and services. Additionally, IT must achieve visibility and control over the entire network while reducing management costs during the transition to consolidated cloud-based data centers.

As public accessibility continues to increase, the proliferation of digital interfaces poses a heightened risk of vulnerabilities in the attack surface. Therefore, IT must be prepared to safeguard the network and minimize downtime caused by DDoS attacks, hacktivists, and other cyberthreats.

> **The Allot Traffic Intelligence Solution for the public sector** revolutionizes it, ensuring an excellent digital experience for both citizens accessing online services and employees relying on mission-critical applications

Benefits

Fosters public engagement and strengthens governance

- Ensures an exceptional digital experience.
- Utilizes corresponding alerts and real-time root analysis for prompt action, preventing any degradation in end-user experience.

Safeguards government\public organization reputation

- Detects and mitigates outbound DDoS attacks instantly at Terabytes/second.
- Scales up to stop even the largest attacks at Terabytes/second.
- Implements DPI policies to ensure no network element is overwhelmed and guarantees QoE throughout an attack.

Boosts government productivity

- Assures true QoS for mission-critical operations through advanced traffic shaping and prioritization.
- Calculates QoE scores to maintain a consistent and high digital experience for employees.

Reduces OPEX and CAPEX for the organization

- Implements DPI policies to ensure no network element is overwhelmed and guarantees QoE throughout an attack.
- Provides multi-tenant capabilities, enabling independent self-service control and management from any remote office.
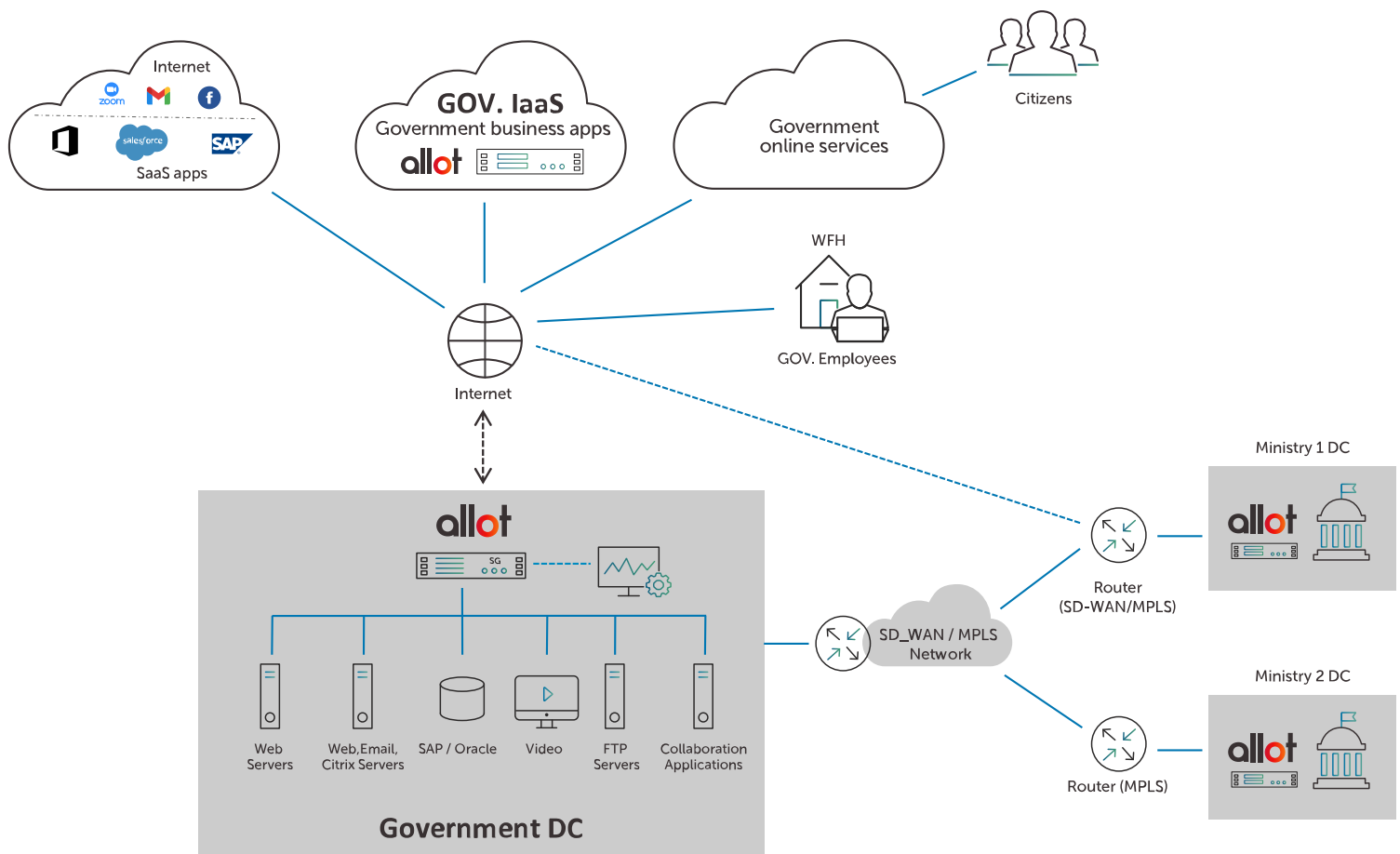

Public Sector Use Cases

- Consolidation of distributed management centers into cloud-based centralized data centers
- Digital experience assurance for remote government offices, utilizing multi-tenant capabilities
- Public network expansion
- Assuring high QoE and availability for Smart City services
- Election day protection

Features

Enhanced Digital Experience Monitoring

Allot's system meticulously analyzes multiple performance metrics, including jitter, delay, packet loss, errors, and more. Quantifying the end user digital experience is achieved through the Allot Quality of Experience (QoE) score, offering a real-time assessment of any online service provided to the public.

Graphical dashboards equipped with advanced analytics and real-time troubleshooting capabilities provide valuable insights to IT infrastructure and operations (I&O) personnel. With corresponding alerts and in-depth root cause analysis, the system empowers I&O personnel to take prompt action, preempting any decline in end-user digital experience.

Leading Traffic Classification

Allot's Dynamic Actionable Recognition Technology (DART) engine, embedded in the platform, inspects every single packet and classifies traffic per application, user, IP address, location, and by any static or dynamic policy element. Allot's extensive application and protocol classification logic consists of powerful ML and AI engines, which constantly adapt to detect new applications and maintain up-to-date definition logic to

Allot devices. The Allot Traffic Intelligence solution contains a comprehensive signature library that identifies thousands of web applications and protocols and supports user-defined signatures. Automated DART protocol pack updates from the Allot cloud keep public organization deployment up-to-date with the latest application and web developments to ensure accurate traffic classification.

Complete Traffic Visibility

The Allot Traffic Intelligence and Assurance solution for governmental and public organizations provides 360° visibility into network traffic, offering a complete understanding of the digital experience for employees, remote offices, and the public accessing data centers, cloud applications, and online services. It also sheds light on shadow IT, BYOD, and mobile app usage, crucial insights that might otherwise evade detection.

Seamless integration with Microsoft Active Directory furnishes traffic intelligence on a per-user and organizational unit basis, empowering IT personnel with deeper insights into employee utilization of organizational applications and network resources.

Key visibility features include:

- Layer 7 application visibility
- In-line SSL encrypted traffic visibility without decryption
- Web content and web threat visibility
- User and endpoint visibility with L4-L7 quality of digital experience KPIs
- Dashboard monitoring and analytics
- Live, self-refreshing performance metrics with down-to-the-second reporting granularity

Multi-Tenant, High-Resolution Traffic Control

Allot Traffic Intelligence Solution virtually partitions the public organization's LAN, WAN, and internet resources so that users and applications no longer compete with one another for bandwidth and Quality of Service (QoS). With robust policy tools and multi-tenant capabilities, organizations can define and enforce Acceptable Use Policies as well as prioritizing mission-critical applications at the office, user, and application levels.

Key control capabilities include:

- Multi-tenant policy enforcement that enables independent management and control at the remote office level
- Support of hundreds of thousands of dynamic traffic policies
- Automated QoS policy propagation to all deployed appliances
- Asymmetric QoS policy synchronized in real-time across multiple datacenters
- Threshold-based enforcement (e.g., CER and live connections)
- Actionable alarms

Scalability and Exceptional Performance

The IT networks of public organizations typically encompass vast infrastructures, often reaching up to 1Tbps in bandwidth. The Allot Traffic Intelligence solution is ideally designed to support such expansive IT environments, offering scalable, carrier-grade, in-line appliances.

The Allot Traffic Intelligence solution features a central management layer, empowering IT personnel of public organization to effectively control and oversee appliances deployed across data centers, remote units, and offices from a single, central location. This centralized approach ensures comprehensive coverage and management of the entire network.

Advanced DDoS Attack Protection

Deployed in-line the Allot Traffic Intelligence solution provides bidirectional volumetric and "bursty" Network Layer Anomaly Detection – NBAD (L3-L4), while assuring critical services availability. Serving as the first line of defense, it safeguards against both inbound and outbound attacks. In the case of inbound DDoS attacks, the platform automatically initiates mitigation measures by filtering out DDoS traffic, ensuring that only legitimate traffic proceeds through the network. Simultaneously, for outbound attacks, it swiftly identifies and isolates potential threats originating from individual hosts, thereby preserving the performance and integrity of the network infrastructure and services.

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