Enabling and supporting modernized healthcare:

The Quintuple Aim

Patient Priorities

- I need to connect all my devices.
- I want my experience to be personalized.
- I want my room to feel more like home.

Clinician Priorities

- I need seamless communication with my team.
- I need to find assets or patient locations quickly.
- I need to feel safe while working.

IT Team Priorities

- I need to enable efficient & seamless operations.
- I need to support various business units with digital initiatives.
- I need to maximize my IT manpower, resources and budget.

HPE Aruba Networking enables transformation edge-to-cloud

Quantified/ digitized self

Connected medical devices

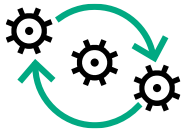
Tele-healthcare

Clinical efficiency

Precision medicine

Edge Moving data seamlessly edge-to-cloud **Cloud**

with **Zero Trust Security** everywhere

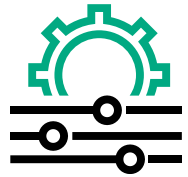


Automation

- **Improve network performance** to enable uninterrupted access to electronic health records (EHRs).
- **Automate policies** to ensure secure & efficient connectivity of critical medical devices.
- **Optimize clinical applications** leveraging ML & AI to enable more accurate diagnostics.

Security

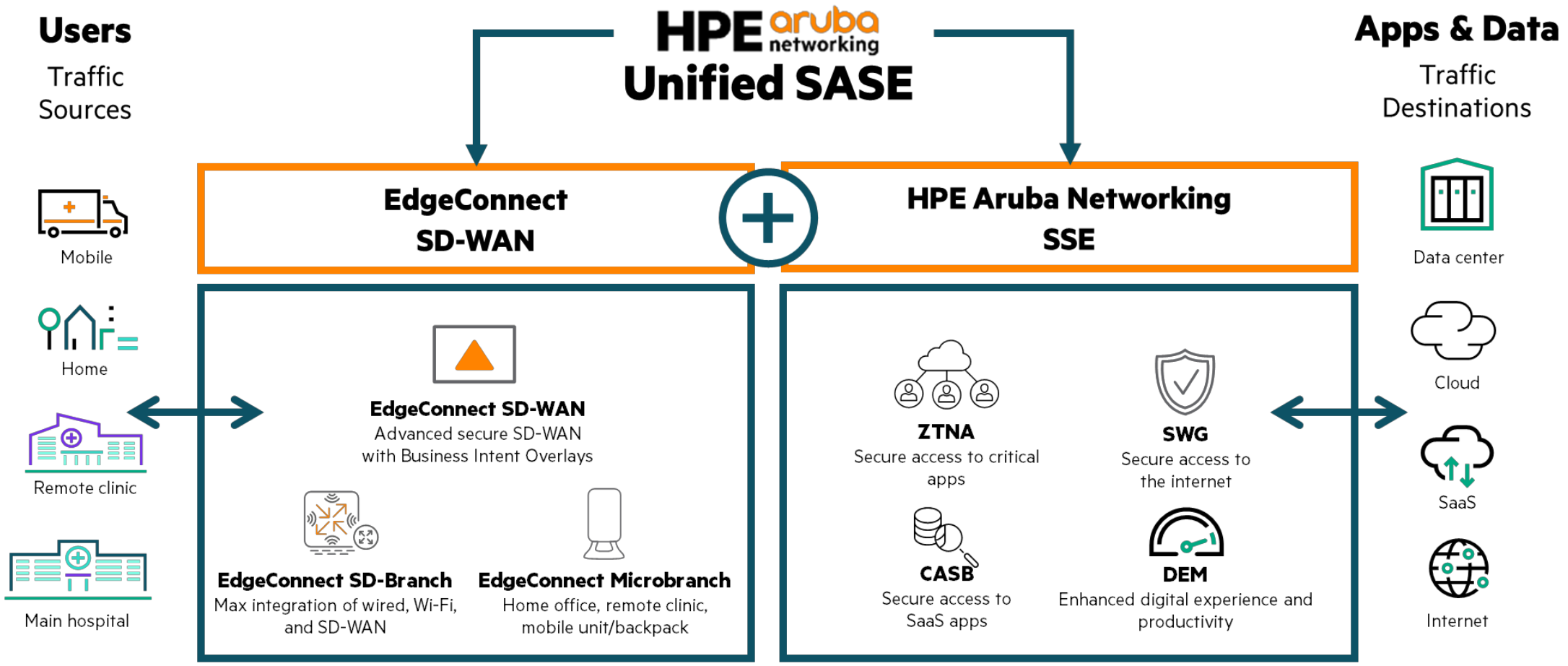
- **Ensure visibility & control** for streamlined operations across the entire healthcare network.
- **Accelerate & standardize device onboarding** to minimize downtime & enhance patient care.
- **Efficiently segment data** to ensure that sensitive patient data is protected while maintaining efficient network performance.



Agility

- **Implement smart spaces** to enable providers to deliver care more effectively & to streamline hospital operations.
- **Safeguard continuous, uninterrupted connectivity** that is crucial for patient care and hospital operations.
- **Proactively resolve issues** to maintain a high standard of care & operational reliability throughout the hospital.

Secure connectivity for distributed healthcare networks



Access Point as IoMT gateway

802.11ax (Wi-Fi 6/6E) Radio

- Asset tracking tags
- Personnel badges
- Smart wrist bands
- Telemetry sensors
- Lighting systems
- Wi-Fi based analytics

Bluetooth 5 Radio

- Wayfinding
- Temperature control
- Door lock management
- Automated notification services
- Energy/heating, air quality sensors

802.15.4 radio

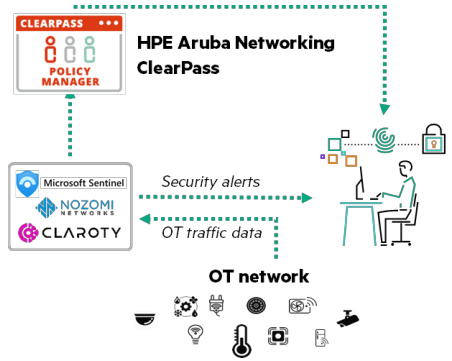
- Door lock management
- Smart room management
- Building controls
- Safe sensors
- Temperature sensors
- Food safety sensors

USB Port

- Air quality monitors
- Electronic shelf labels
- Gunshot detectors
- Custom interfaces

Real-time asset location

- Enable staff to **spend more time with patients** and less time searching for equipment
- **Better understand biomedical device** utilization and eliminate unnecessary device costs
- **Ensure equipment can be found** when maintenance is required



Threat detection in OT networks

- Gains insight into network devices across **OT networks**
- Utilizes contextual data to deploy **seamless edge security**
- Ensures that only **compliant devices are allowed on the network**

Wireless staff communications

- Enable **staff to securely talk** and text over Wi-Fi
- Works where there may be **weak cellular coverage**
- HPE Aruba Networking can **prioritize the traffic** to ensure high QoS

Smart hyper-aware environments

Monitoraggio temperature

Percorso chirurgico

Sicurezza pazienti

Trasporto pazienti

Localizzazione asset

Intelligenza artificiale

Sicurezza operatori

Logistica pronto soccorso

Indoor navigation

Business Intelligence

Thank you!

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