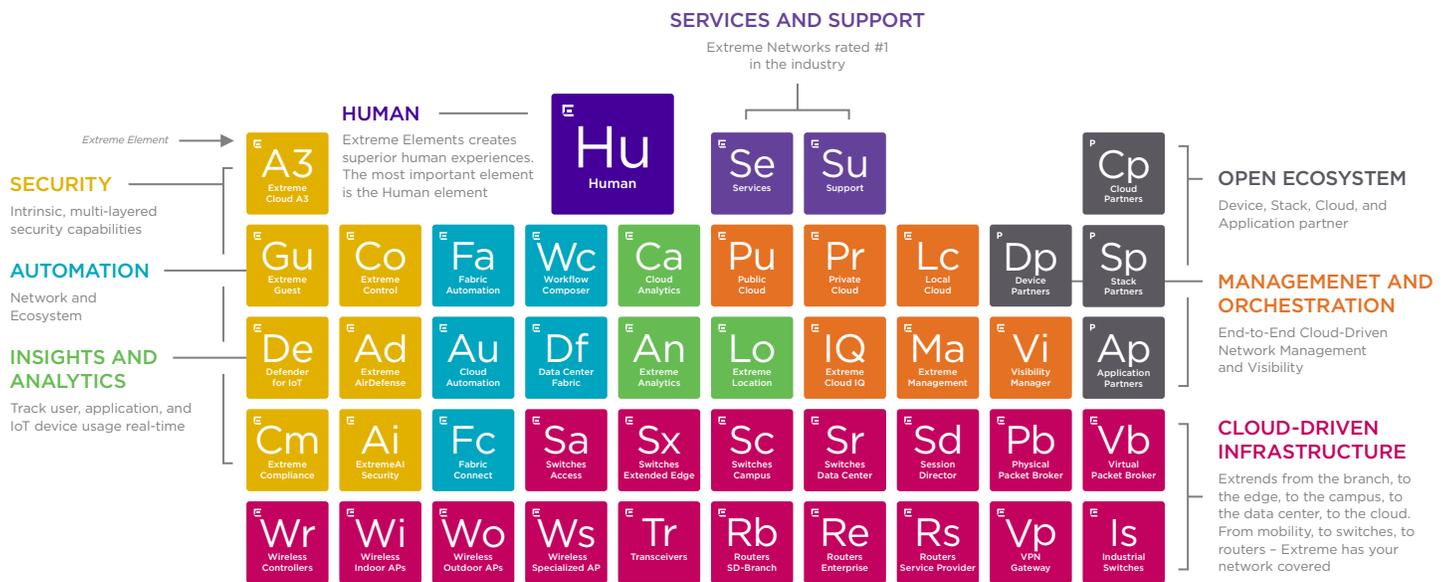


# Ex Extreme Elements<sup>™</sup>

## The Building Blocks of the Autonomous Enterprise

Delivering better outcomes and next-generation experiences rely on connecting humans to technology. These connections require more than just newer hardware – they require an intelligent network. A network that is more agile and aware and that can anticipate and respond to customers’ needs pro-actively. A network that can serve as the nervous system of the autonomous enterprise – capable of delivering next-generation human experiences.



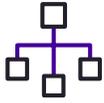
## Introducing Extreme Elements

Extreme Elements provides the building blocks enterprises need to build the right architecture to fulfill the specialized demands of their business. Unlike other vendors, Extreme does not offer one-size-fits-all solutions because we recognize every business and human experience is different.

Extreme Elements provides enterprises the flexibility to pick and choose the elements they need to yield positives outcome for their business. It provides a self-sustaining foundation – the autonomous network – with elements that adapt and work together in harmony.

# Extreme Elements Components

The central element is the Human element. Every product, application and service Extreme designs and brings to market delivers a superior human experience. We are relentless in our commitment to delivering customer-driven networks that help businesses accelerate their digital transformation and deliver better outcomes to their users.



Cloud-Driven Infrastructure



Management and Orchestration



Insights and Analytics



Closed-Loop Automation



Open Ecosystem



Security



Services and Support

- **Cloud-Driven Infrastructure** — An AI/ML augmented infrastructure continuously learns, and self optimizes, adjusting resources in real time depending on the needs of your users and customers. Extreme cloud-driven Infrastructure extends from the edge, to the campus core, and to the data center. Offering a comprehensive portfolio of next generation cloud-managed switches, routers, and wireless products, businesses can pick and choose the elements they need.
- **Management and Orchestration** — Single pane-of-glass management and orchestration, extending from the network edge to the data center, providing comprehensive visibility, control, and automation of your network and dramatically simplifying IT operations. For example, ExtremeCloud™ IQ delivers unified, full-stack management of wireless access points, switches, and routers and enables onboarding, configuration, monitoring, troubleshooting, reporting, and more.
- **Insights and Analytics** — Comprehensive insights and analytics so businesses can track user, application, and IoT device usage in real-time; identify anomalous behavior, and automatically resolve issues without human intervention. For example, ExtremeAnalytics is a network-based business intelligence solution that captures and analyzes context-based application traffic to deliver meaningful intelligence about applications, users, locations and devices.
- **Closed-Loop Automation** — Delivering cross-domain and closed-loop automation so businesses can optimize network performance from the end device to the application. By automating manual changes and updates, enterprises can optimize network performance, enable greater business agility, and accelerate the rollout of new services. For example, Extreme fabric automation solutions enable fast setup for the most demanding network architectures, and the cross-domain Extreme Workflow Composer automation solution extends the benefits beyond the network domain to security, storage, compute and operations.
- **Open Ecosystem** — An open and standards-based ecosystem that allows businesses to build exactly the architecture and applications they require to fulfill the specialized demands of their enterprise. Extreme has partnerships with leading cloud, stack, application and device technology innovators to develop unique solutions that solve real-world problems. In Extreme Elements partner elements are denoted with a “P”; Extreme products and services with an “E”.
- **Security** — Delivering multi-layered network security capabilities without complexity. Extreme security elements can help protect your organization by gaining visibility and control over your connected users, devices and applications, segmenting your network with ease and scale and creating a holistic security eco-system through integration with best of breed security vendors.
- **Services** — Offering a diverse range of services all built to maximize the effectiveness of your network to fuel business growth, and create a long-lasting partnership.
- **Support** — Rated Number One in the industry in a Gartner peer review, Extreme’s talented and highly-trained support professionals are a 100% in-sourced team of experts in products, solutions, and applications.

# Deliver New Human Experiences

Extreme Elements can be put together to create new human experiences and business outcomes. Whether you are a school looking to enhance digital citizenship and student safety, a retail store wishing to enhance the in-store shopping experience or a hospital focused on delivering enhanced patient care and experience, Extreme Elements can help you build your future.

Vertical	Use Case	Description	Extreme Elements
 Healthcare	Enhanced Patient Care and Experience	Drive better patient outcomes and experience, while maintaining safety and compliance.	

**What's Important** — High video/audio/data communication bandwidth for telehealth; network security for IoT and robotics-based healthcare delivery; high localized bandwidth for AR/MR headsets. Mobile connectivity of patient and guests to Internet, patient entertainment systems, privacy of clinical data, tracking of patient and guest flow through facility, simplified network management. Regulatory compliance.

Vertical	Use Case	Description	Extreme Elements
 K-12	Digital Citizenship and Student Safety	Deliver tightly managed network and Internet access (digital citizenship) and controlled physical security (physical safety).	

**What's Important** — Integration of network access control with Active Directory and web filter. Being able to control network access and Internet application access based on student identity, location, time of day, and device. Facial recognition helps control access to campus for student safety.

Vertical	Use Case	Description	Extreme Elements
 Higher Ed	High-Performance Computing	Supercomputing and high-performance workstations, databases, and interconnects for solving the world's most compute-intensive challenges.	

**What's Important** — Highest possible bandwidth, lowest-achievable latency, and high-performance interconnects to local and remote users.

Vertical	Use Case	Description	Extreme Elements
 Retail	Enhanced In-Store Shopping Experience	Deliver an augmented, personalized, and mobile centric in-store shopping experience, which aligns with the digital expectations of today's guest and improves the connection between brand and customer.	

**What's Important** — Seamless guest onboarding and access to in-store network; Strong, secure, always-on Wi-Fi; Understanding of customer analytics, preferences and behaviors; Engage with onsite customers in a targeted, contextual way; support and enable digital campaigns and platforms.

For more information, check out the Extreme Elements exploration application: [www.extremenetworks.com/extreme-elements](http://www.extremenetworks.com/extreme-elements)