Calix | **TECHNICAL DESCRIPTION**

BLAST Intelligent Mesh

A great mesh Wi-Fi experience requires more than just maximizing Wi-Fi radio signal strength between the Wi-Fi access point and client devices. BLAST Intelligent Mesh delivers the needed bandwidth to all the home's devices throughout the day, adjusting in real-time as new devices are discovered and move throughout the home.

BUILT FOR SERVICE PROVIDERS

BLAST Intelligent Mesh is designed for the communication service provider intent on delivering a seamless and resilient managed Wi-Fi experience to the broadband subscriber.

Service Providers are the trusted provider of Internet access and increasingly for home wireless networking. As BLAST Intelligent Mesh takes advantage of all available technologies and radio resources to optimize client device Wi-Fi performance, it only takes actions with high confidence in improving the subscriber's experience.

THE POWER OF BLAST INTELLIGENT MESH

BLAST Intelligent Mesh uniquely combines the processing power of the local Wi-Fi access point with cloud analytics enabled by large scale machine learning. It delivers consistent performance that anticipates the expected needs of the consumer and their devices, while also reacting to and self-healing from unexpected events that can wreak havoc on static Wi-Fi systems.

BLAST Intelligent Mesh multi-factor analysis delivers an exceptional managed mesh Wi-Fi experience.

- **Dynamic, real-time monitoring** of quality of the device connection, constantly predicting improvement if client is moved to other bands/nodes, steer if multi-factor performance threshold is crossed
- **Extensive analytics:** device/client fingerprinting, Wi-Fi channel scan, topology for both wired or wireless devices, client scoring, bandwidth consumption, application use, time of day events
- **Client-specific steering** uniquely adapts to client responses to steering requests
- **Machine Learning** analysis of client node, band, and channel steering change logs for pre-steer, prediction of improvement, post-steer performance
- **Always-on monitoring** with fast convergence to best band, channel, and node in home when Wi-Fi signal degrades due to environmental conditions

Built on the EXOS scalable platform to ensure the ultimate Wi-Fi experience – everywhere, all the time.