



DATA SHEET

Why aggregate connectivity?

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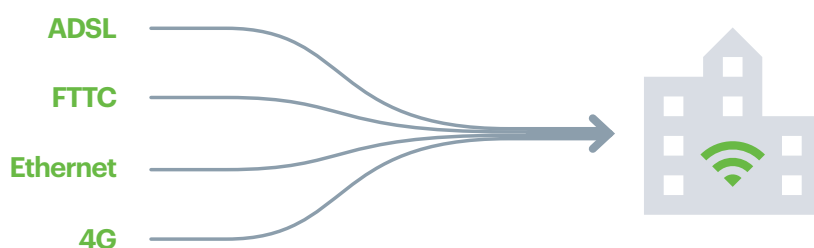
Aggregation increases bandwidth and resilience

Aggregation delivers bandwidth at levels impossible with individual lines, enhancing data throughput speeds and application performance.

This is often very attractive to businesses with sites in poorly served areas, with substantial bandwidth and reliability requirements, or which need more cost effective connectivity.

It also means not necessarily having to take the step from a 100mbps leased line bearer to a 1Gbps bearer. Or having to move from 1Gbps straight up to 10Gbps.

Delivering 2Gbps with 1Gbps bearers, up to even to 4Gbps or 5 Gigabits per second, without the need for a new expensive 10Gbps bearer means more bandwidth, and its cost effective.



Encrypt all traffic

Because we encapsulate every packet of data, we also encrypt it too.

Every packet of data sent by an EVX appliance is encrypted to the latest AES 256bit encryption standards to give you peace of mind.

Secure your data, no matter it's type or destination on our software defined network – whether to another site, a major cloud provider, a rack in a datacentre, or on its way to the internet.

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Aggregating builds in resilience

An aggregated solution built on multiple physical lines delivers enhanced resilience: the more lines the connection encompasses, the lower the chance of all of them failing at once. This built-in resilience is further enhanced by aggregating diverse connection types.

While there are other resilience issues to consider (in particular the ISP's core network) an aggregated connection will always be more resilient than a single line.

As soon as there is an interruption in the flow of data on any component circuit, the EVX will stop sending data over the faulty line instantaneously, vectoring it over the other lines in the aggregated connection. Once the EVX detects the line is back up, it will start sending data over it again. EVX devices and our core routing infrastructure make these decisions based on a lag factor of less than 1/3 of a second (and this is highly customisable for even greater sensitivity).

IP affinity

Unlike older packet management technologies, such as load balancing, any aggregated connection, regardless of circuit type, should give you a single public IP range to work with. Always check this is the case. Without it, failover will not be transparent: changing IP addresses or DNS for critical services when circuit faults occur is inconvenient, but it also probably means all your live sessions are gone, and VoIP calls abandoned – or worse, stuck.

It's also important for failover to work both upstream and downstream – some forms of aggregation only operate in one direction, or only on HTTP or TCP traffic.

Evolving Networks aggregated internet connections work with every type of traffic in both directions and give you IP affinity. As far as your local network or firewall is concerned, you have a single internet connection.

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