



proxilliant

Intelligent Solutions
For Proactive Service
Management

Of Broadband Cable Networks
CAMS - Cable Access Management System

CAMS features and Value Adds

Noise Reduction

- Reclaim BW below 20 MHz
Use higher modulation forms
→ **Up to 50% more upstream capacity**

Ingress Reduction

- Reduces Impact of Ingress
Reveals and pinpoints Ingress sources
→ **Increases QOS**
Reduces Churn

Compatible with any DOCSIS performance Monitoring SW

- Reveals and pinpoints Ingress sources
Fast and efficient maintenance work
→ **Reduces Opex**

Migration path to FTTH

- Last mile replacement for FTTH in brownfield areas
Enables for a smooth and gradual FTTH deployment
FTTH deployment can be focused to high profile areas
→ **Faster ROI**

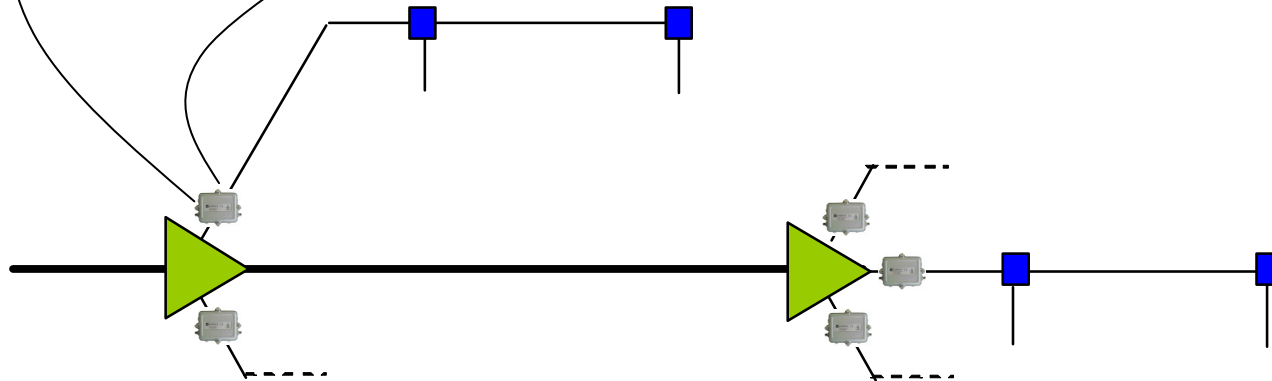


dlb - Dynamic Ingress Blocker



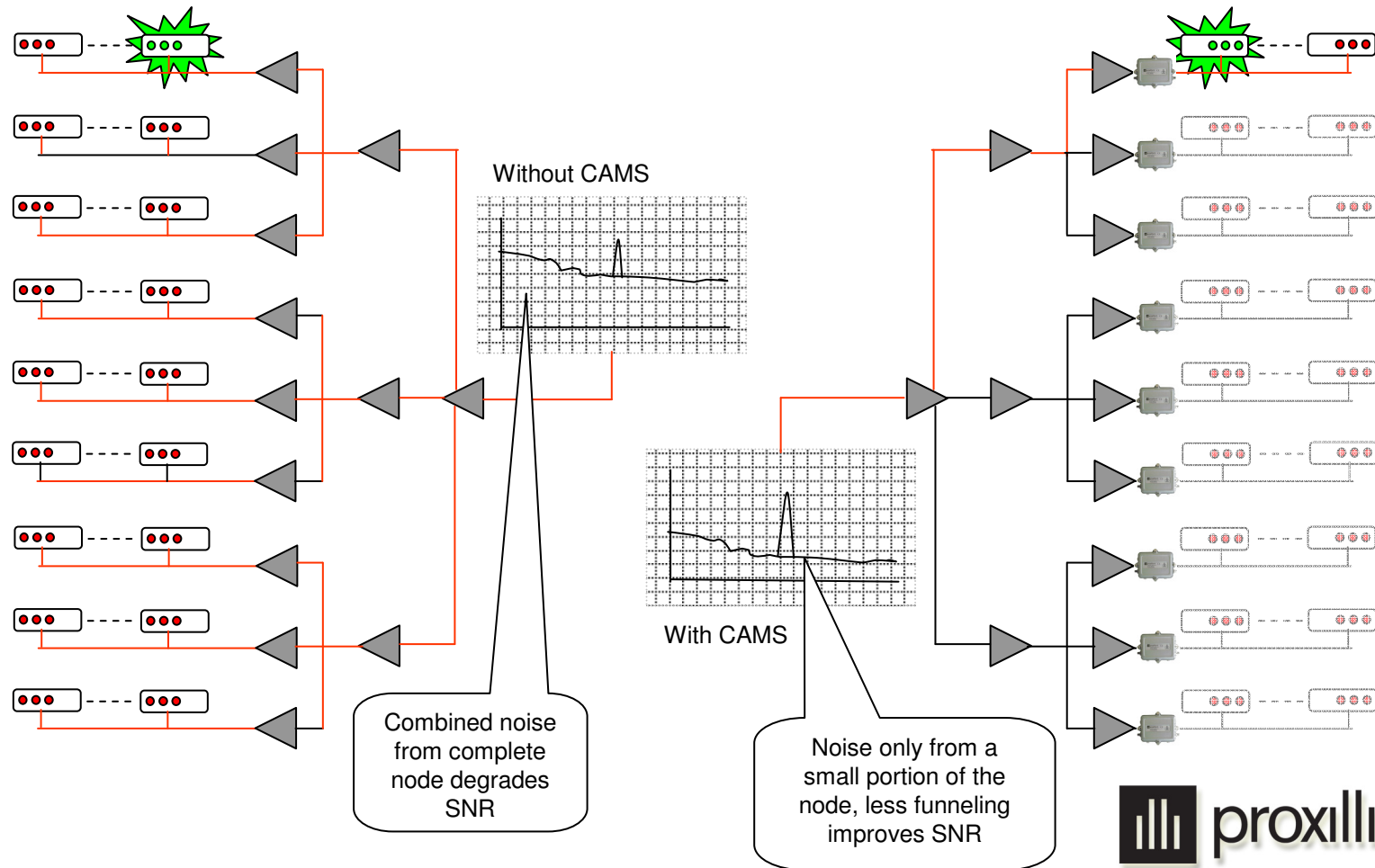
Key component of CAMS

The dlb provides active Noise and Ingress reduction and enables ingress source localisation. The dlb is typically deployed deep into the HFC plant near the last amplifier



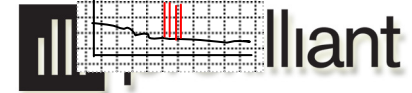
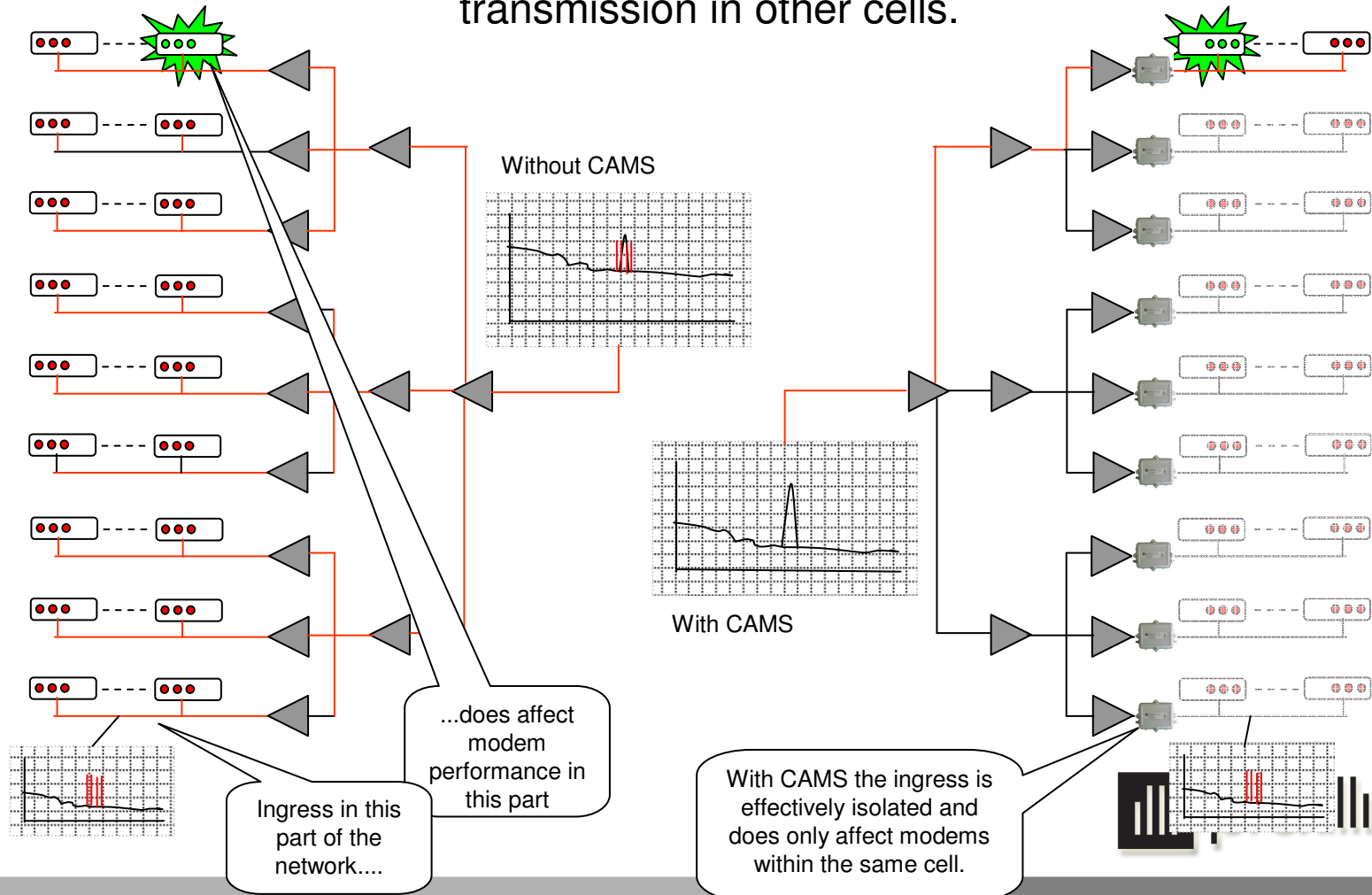
Noise reduction: System Perspective

dlb blocks the return until a modem transmits, thus effectively eliminates the funneling of noise



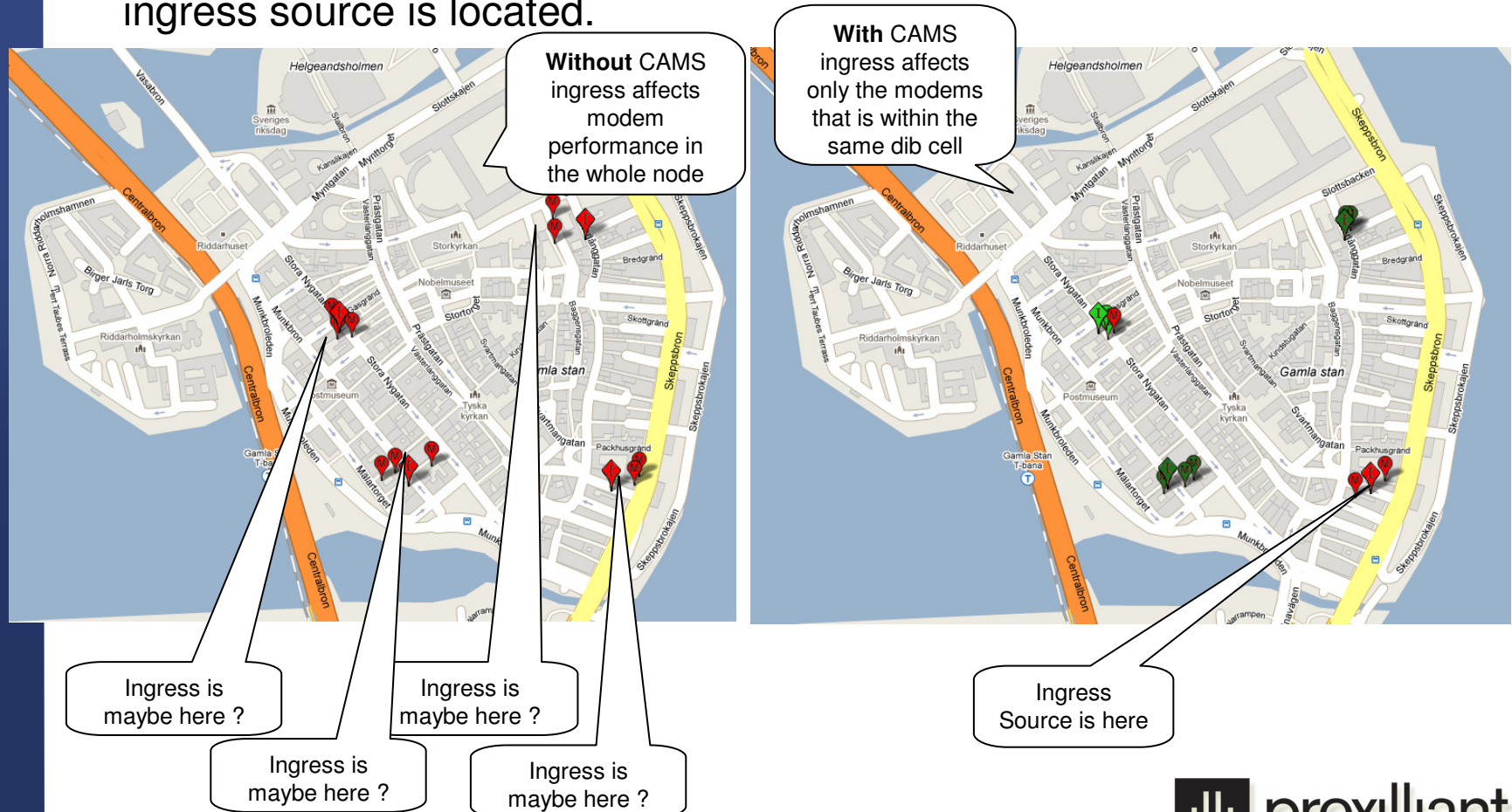
Ingress reduction: System Perspective

dlb divides the node into smaller cells i.e. Electronic nodesplit. Ingress in one cell does not impact modem transmission in other cells.



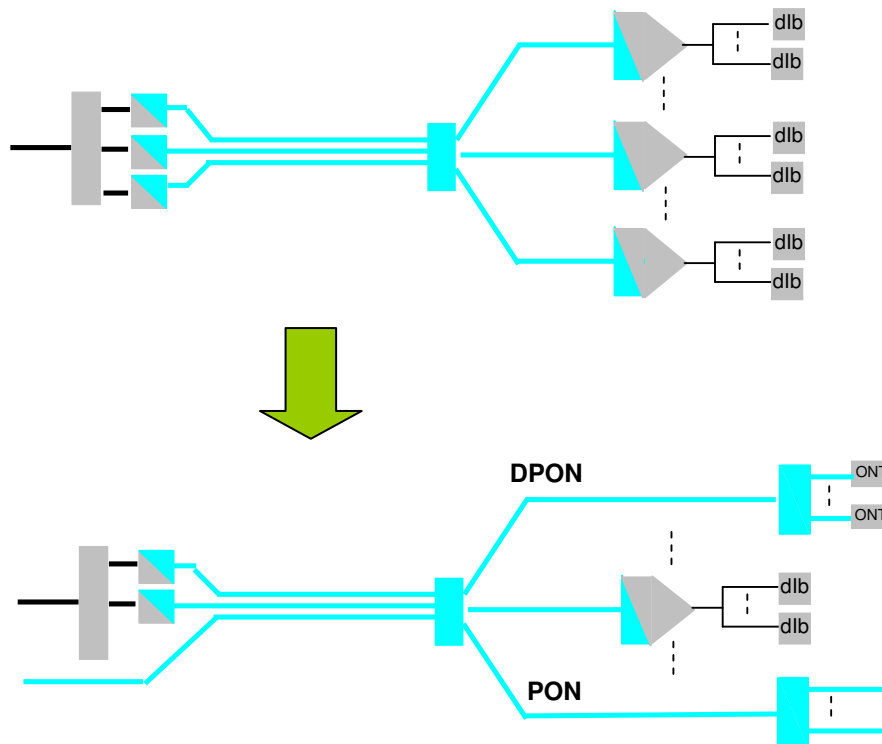
Reveals and pinpoint Ingress Sources

Analysing DOCSIS performance data e.g. "# of lost packets", "# of corrected packets" reveals and pinpoints where in the node the ingress source is located.



Migration Path to FTTH

70% of ingress and noise originates from customer premises. This is also the most costly and cumbersome part to upgrade.



Using dlb's to split "last mile" electronically does reduce the impact of noise and ingress that originates from customer premises and droplines....

...and provides the foundation for a smooth and gradual FTTH deployment in selected areas.