

# OPEN STM

## *Ingress Monitor (IM)*

### Highlights

- 24H/7D monitoring
- Utilizes the existing CMTS for monitoring
- Precisely identifies fault in HFC return path
- Quickly detects anomalies in the system behavior
- Remotely, automatically and quickly identifies the noise source
- Automatic operation with the ATT type BGS (Bridger gate switch)
- Displaying of emergency measures for the faults
- No service interruption
- Can be integrated with monitoring software of other companies

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*Quickly, remotely and automatically Identifying return Path Noise Source*

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*“Supports multi-vendor BGS”*

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## What is OPEN STM IM?

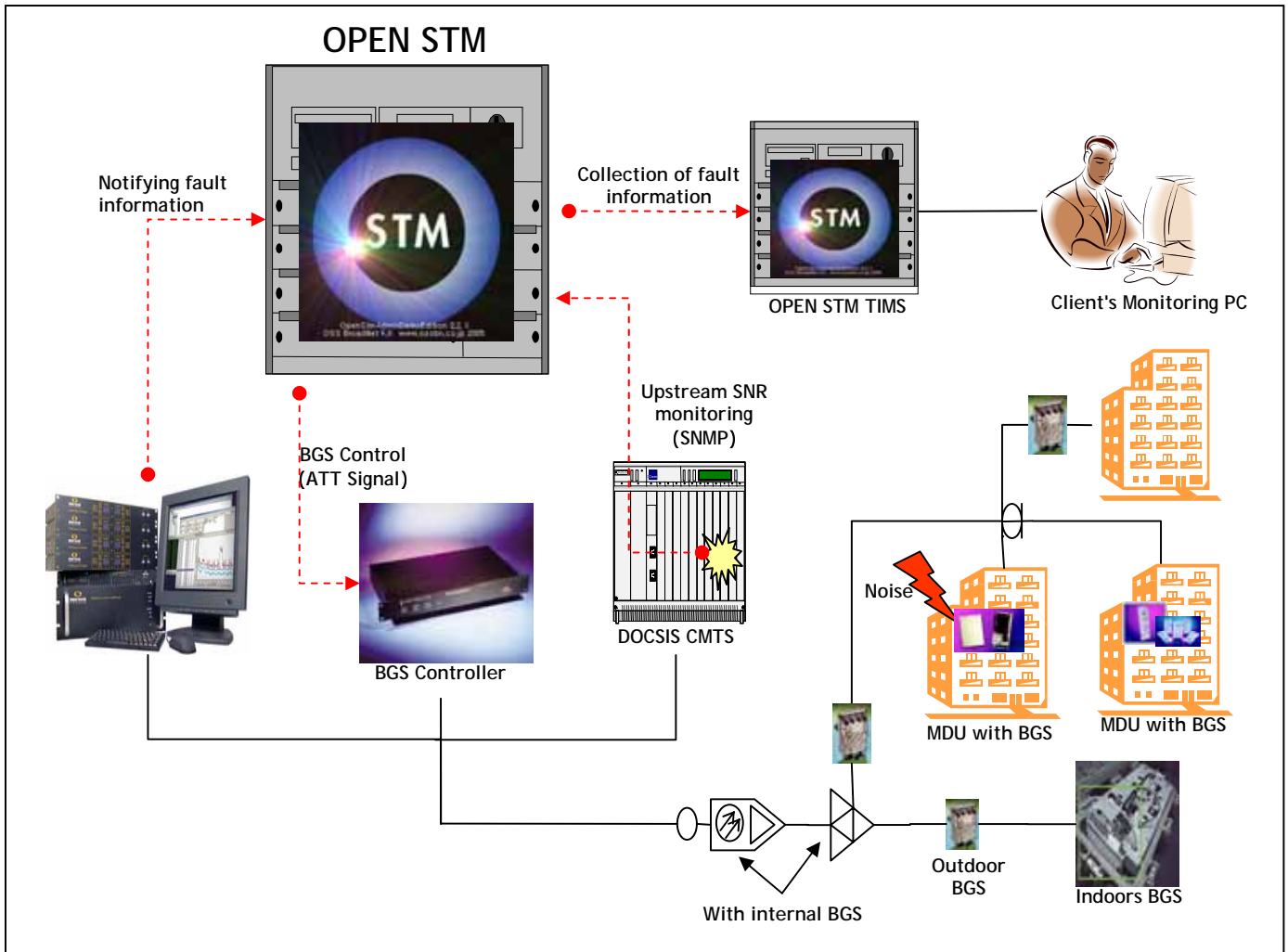
OPEN STM® IM stands for Ingress Monitor. IM is a multi-vendor BGS controller and return path service degradation observer. No additional hardware is required for return path sweep as IM periodically polls CMTS upstream ports SNR by SNMP. An automatic noise source finder, IM performs ATT on/off control of BGS & SNR check without any service interruption for primary line. IM performs quick diagnostics by per-node parallel processing and above all, BGS of any vendor could be integrated potentially.

IM being an upstream transmission quality monitoring server, quickly, remotely, automatically detects any degradation in the upstream transmission quality, performs noise source search and notifies the post-diagnosis fault information and analysis reports to the HE.

Quick, remote and automatic noise source search is carried out without interrupting the two way service under operation by performing ATT/ON/OFF of BGS in accordance with the pre-configured policies, starting from the main node towards downstream, and monitors the S/N ratio of CMTS upstream port by SNMP. Besides this, IM can receive the fault information of other company's noise monitoring systems and can display the information on its web.

IM monitors quality degradation of DOCSIS return channel. For this, IM does periodic polling of CMTS with a pre-configured timeframe. IM can detect the ingress which is usually generated and exists for a certain period of time continuously or any other degradation source (ingress, CPD etc.) which influences the SNR of DOCSIS channel.

## Ingress detection-System layout



IM has two options for alarm, 1) Only displaying alarm 2) Displaying of alarm and controlling of Bridger gate switches. IM stores periodically obtained SNR values from CMTS and graphs the values. IM checks if the occurrence of ingress in a certain period of time exceeded the limit defined.

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