



Luminato headend platform

VIDEO ENGINE MODULE

L2TP ENCAPSULATION FOR LUMINATO

Future delivery challenges of linear TV services and on-demand video services over distributed access networks require gradual changes and adaptive headends. Teleste has launched solutions enabling operators to upgrade their Video Headends cautiously. As legacy broadcast receivers, often set-top-boxes, must be supported for years to come; their co-existence with upgraded Video Headends and distributed access networks is imperative.

Video engine

The Luminato video engine module is a robust alternative for operators who are not eager to channel video services through the DOCSIS Core but may wish to maintain their broadcast legacy. The Luminato video engine relieves DOCSIS Core capacity for the traditional DOCSIS data while robustness of linear video transmission remains and e.g. DOCSIS Core software upgrades or configuration changes do not interrupt video transmission.

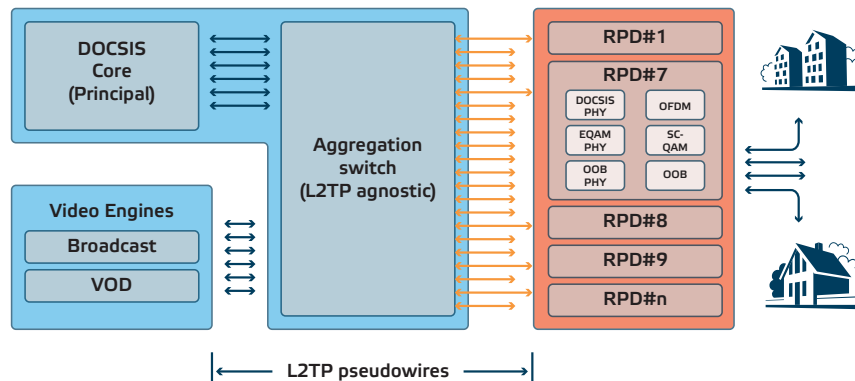
Management

The configuration of the Luminato video engine module is possible through Luminato GUI and CLI (Command Line Interface). The same user interfaces are available for configuration of other Luminato modules and functionality complementing the video engine module(s), such as receiver modules and conditional access functionality, usually in the same chassis because the video engine module takes only one out of six module slots.

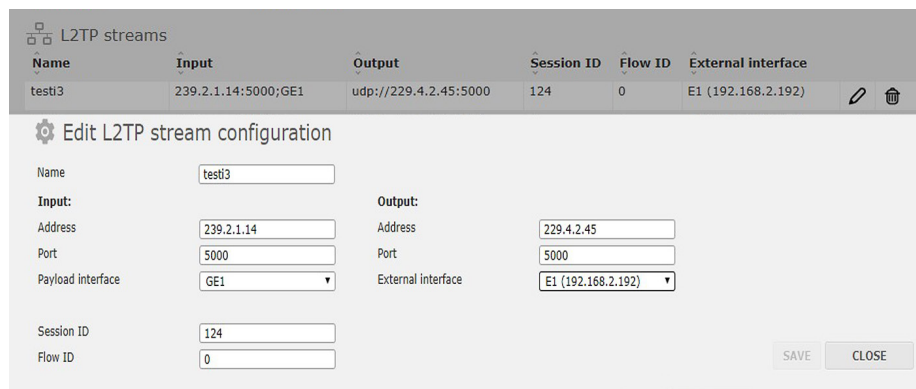
TELESTE

VIDEO ENGINE MODULE / L2TP ENCAPSULATION FOR LUMINATO

The illustration below shows how services from separate video engines, in this case broadcast and VOD engines, are bypassing the DOCSIS Core. In practice all video services are L2TP encapsulated by the Luminato L2TP application module equipped with a hardware accelerated encapsulation engine ensuring precise capacity. The quad-core processor of the Luminato video engine module is capable of managing up to 250 Mbps Ethernet traffic carrying 24 video streams and payloads alike. L2TP encapsulation capabilities are needed to implement pseudo-wire links between headends and Remote PHY devices (RPDs) to address right QAM outputs of RPDs. This method uses RPD QAMs in the same way as traditional edge QAMs are used for broadcasting purposes.



Video content bypasses the DOCSIS Core



Luminato GUI presents clear overlook and ease of use.

EXTERNAL INTERFACES			COMPUTER	
10/100/1000Base-T	2 pcs	RJ-45	Capacity	250 Mbps
USB 2.0	1 pc	Type A	Video streams	24 mux
Micro SD slot	1 pc	Micro SD cards up to 64 GB	Connection type	Static pseudowires
			Interface protocol	DEPI
GENERAL				
Supply voltages	24 V		Power consumption	15 W
Weight	0,35 kg		Enclosure classification	IP21
Operating temp. range	-10...+55 °C		Storage temp. range	-30...+70 °C

TELESTE CORPORATION
www.teleste.com

P4P_Luminato Video Engine Module_0119

Copyright © 2019 Teleste Corporation. All rights reserved. Teleste and the Teleste logo are registered trademarks of Teleste Corporation.

Other product and service marks are property of their respective owners.

Teleste reserves the right to make changes to any features and specifications of the products without prior notice. Although the information in this document has been reproduced in good faith, the contents of this document are provided "as is". Teleste makes no warranties of any kind in relation to the accuracy, reliability or contents of this document, except as required by applicable law.