DCM Packager Product Overview

DCM Packager is used to converge standard DVB/MPEG channels into appropriate adaptive bit rate (ABR) formats generating proper manifest and index files in order to distribute source content in any types of forms, generally HTTP delivery traffic. In the video industry, the packager also combines the encryption capability allowing the service provider to secure content through Digital Right Manager (DRM) and work in conjunction with the origin server serving content towards the Content Delivery Network for scalability purpose. DCM Packager delivers manifests, segments and fragments using adaptive bit rate technologies, such as Apple HLS, Microsoft Smooth and MPEG DASH.

In essence, Adaptive Bit Rate technology adds processing delays in the complete delivery chain, typically 30 seconds to a minute. Service Providers are challenged to improve consumer experiences, especially during live or prime time events such as sports games. The DCM Packager has been designed to help customers improving the end-to-end workflow. It has a large set of functionalities such as chunk transfer encoding, high throughput and flexible DRM integration. The deployment model is based on multiple offers such as appliance, virtual machine or container. Loggings and Metrics are fundamental functionalities allowing Service Providers to operate the platform in an easy way. DCM Packager is part of the converged headend that offers a full set of functions, such as Encode, Packager, Content Delivery Network and Management layer – refer to the following link for more details about Converged Headend.

Features and Benefits

Streaming Delivery

DCM Packager supports multiple adaptive bit rate (ABR) formats such as Apple HLS, Microsoft Smooth and MPEG-DASH.

Encryption

DCM Packager supports multiple DRM framework and interacts with different Key Management System.

Scalability and Resiliency

DCM Packager is highly scalable and provides high throughput performances.

Loggings and Metrics

Loggings and metrics functionalities expose a large set of data and information, the operators can easily ingest and process in an efficient operations cycle.

Detailed functionalities

- Ingest.
- Package.
- Encryption.
- High Availability support.
- Seamless add-on into the converged headend.
- Deployment types: Appliances, Virtual Machines and Operating System virtualization – RedHat OpenShift and Kubernetes K8.
- Origin (optional).
- DVR window.
- Single or Multi Nodes deployment.

Specifications

Table 1. DCM Packager specifications

DCM Packager	Description
Deployment Model	RedHat Openshift, RedHat Linux and Appliances
Low Latency Support	Chunk Transfer Encoding – DASH CMAF
Incoming traffic	ATS EBP (Cablelabs compliant)
Outgoing traffic	HTTP (Apple HLS, Microsoft HSS, MPEG-DASH and Common Intermediate Format)
Encrypted content	Apple Fairplay, Microsoft Playready, Google Widevine, Videoguard Everywhere
Management	VSM and Web UI
Loggings and Metrics	Logging, Alerting and Monitoring, Grafana

Ordering Information

DCM Packager SW licenses	Item Number
Synamedia vDCM Applications	**R-VDCM-APPS**
Virtual DCM XGRESS License, 1 credit	**L-VDCM-XGRESS-P1**

DCM Packager HW	Item Number
VN Compute Node L, 12x8GB, 2xHDD, 2xAC-750, US	**VN-NODE-L-2AC-US**
VN Compute Node M, 12x8GB, 2xHDD, 2xAC-750, US	**VN-NODE-M-2AC-US**

Please consult your sales representative for RAM and drives expansion.

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Service and Support

Using the Synamedia Lifecycle Services approach, Synamedia and its partners provide a broad portfolio of end-to-end services and support that can help increase your network's business value and return on investment. This approach defines the minimum set of activities needed by technology and by network complexity to help you successfully deploy and operate Synamedia technologies and optimize their performance throughout the lifecycle of your network.

Warranty Information

Detailed warranty information can be found on Synamedia.com

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