

TechNote – AltitudeCDN™ OmniCache Integration with ReadyTalk

Version 1.0

AltitudeCDN™ OmniCache is a robust enterprise video caching-proxy that enables the efficient delivery of HLS, DASH, and MP4 progressive-download behind the firewall. OmniCache provides a flexible, scalable, and distributed platform that delivers high-quality low-latency video, while conserving limited enterprise Wide Area Network (WAN) resources.

This guide describes how to configure a ReadyTalk video event leverage AltitudeCDN OmniCache.

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Introduction

AltitudeCDN OmniCache is a robust video proxy cache optimized to deliver enterprise video content with the lowest possible impact on your network infrastructure and security. AltitudeCDN OmniCache improves video playback performance by reducing latency and buffering, and minimizes the amount of bandwidth required for delivering rich media content across the WAN.

When used with ReadyTalk, OmniCache is easily configurable as a software-defined network (SDN) reverse proxying solution that supports HLS, the primary streaming format used by ReadyTalk, and MP4 progressive download. The OmniCache ReadyTalk integration uses a ReadyTalk -provided portal player that re-writes video content URIs to steer traffic to an OmniCache node, allowing OmniCache to process and cache live or video on demand ReadyTalk requests automatically.

Requirements

To use OmniCache with ReadyTalk, you need the following:

| Item | Recommendation |
|-----------------------|--|
| OmniCache | OmniCache v1.5.0 or later. For more requirement information, see the <i>AltitudeCDN OmniCache Deployment Guide</i> . |
| Enterprise DNS | Enterprise Domain Name System (DNS) configuration identifying the IP address of the internal OmniCache node. Geo-aware DNS may be employed to provide location-specific OmniCache routing. OmniCache routing may also be used to distribute load to alternate OmniCache nodes. |

ReadyTalk OmniCache Configuration

This section summarizes the configuration steps for using OmniCache with ReadyTalk (for more information on the ReadyTalk interface, see ReadyTalk documentation):

1. Create a new Event.
2. Within Event Settings, set the appropriate values for the Event Name, Event Type, and Archive Events settings.

The screenshot shows the 'Player and Branding Options for Town Hall Video Event (1208336)' configuration page. On the left is a navigation menu with options: Event Settings, Registration, **Player & Branding**, Event Content, Security, Email & Marketing, and Event Summary. The main content area includes the following settings:

- Player Settings**
- Media Options**: Large Widescreen Video (480x270)
- Stream Type**: HTML5
- Multicast Type**: None Ramp Multicast Ramp Cache
- Slides**: Use PowerPoint Slides, Allow viewers to control slides
- Audience Questions**: Allow during Live event, Send questions to these email addresses: [text input], Allow during On-Demand event
- Audience Phone Bridge**: Allow audience to listen to the presentation by phone

On the right, a 'Player Layout Example' diagram shows a video player interface with a 'VIDEO' section, a 'Q & A' section, and a large 'SLIDES' area. A 'BANNER LOGOS' section is also visible at the top of the player layout.

3. Within the Player and Branding Options:
 - For Media Options, select:
 - Stream Type: HTML5
 - Multicast Type: Ramp Cache
 - Set the appropriate values for the Slides, Audience Questions, and Audience Phone Bridge settings.
4. Within Event Summary > Ramp Cache Setup panel:

Ramp Setup

| Stream Name | Stream ID | Ramp Server | Action |
|-------------|-----------|-------------|--------|
|-------------|-----------|-------------|--------|

Source :

Local url : Omnicache server : For example , <https://ramp.webcasts.com>

Unicast Fallback

Enabled

- Select the source you want to cache with OmniCache: Prelive or Primary Stream
- Set the Local URL of the enterprise local OmniCache (the hostname must be defined within the enterprise DNS to resolve to the address of the primary OmniCache). For example: `https://omnicache.customer.net:8443`
- Set Unicast Fallback to Enabled if you want user requests to fall back to the direct unicast stream from the Talkpoint source if OmniCache is unavailable.