



▶ Polycom[®] Video Media Center[™]
(VMC[™]) 1000 AT&T ICDS
Integration Guide

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Adding an ICDS Delivery Option

This guide outlines the processes for using AT&T ICDS as a Delivery Option in the Polycom VMC 1000.

This guide contains the following sections:

- [Introduction](#)
- [ICDS Prerequisites](#)
- [ICDS Delivery Option Configuration](#)
- [Download Access Point Configuration](#)
- [VOD Access Point Configuration](#)
- [Live Access Point Configuration](#)
- [Secure Token Authentication](#)

Introduction

Polycom Video Media Center (VMC) 1000 introduces support for the AT&T ICDS CDN. The AT&T ICDS CDN is a network-based CDN service that replicates information across the Internet. Examples include: web page content, large files for download, live video, and video-on-demand. The Polycom VMC 1000 integrates with the ICDS CDN in the following ways:

- **Provides automatic upload of VOD files to ICDS storage**

The following streaming formats are supported: Windows Media and Flash. Using ICDS storage is optional for Windows streaming files. Uploading to ICDS storage is required for Flash files.

- **Provides access to content delivered by ICDS**

Content requested by users is served by means of ICDS. The Polycom VMC 1000 generates the streaming and download URLs according to the ICDS rules. Polycom supports all required formats, as well as both the ICDS and customer storage options.

- **Supports Flash VOD streaming**

Users can stream Flash content delivered by ICDS. Polycom generates ICDS-based URLs for Flash and provides a Player page for Flash video playback.
- **Prevents unauthorized access to videos that bypass Polycom security and are streamed directly from ICDS**

Use ICDS secure streaming to prevent unauthorized access to videos using direct ICDS URLs that bypass Polycom security. Protected programs are still authorized by Polycom before the video is served by ICDS.
- **Prevents unauthorized access to static content distributed by ICDS**

Use ICDS Secure Web Caching to prevent unauthorized access to static files. Protected programs are still authorized by Polycom before the content is served by ICDS.
- **Enable usage reporting provided by Polycom with events logs provided by ICDS**

The Polycom VMC 1000 Program Summary, Viewer Activity, and Media Usage reports provide per-event data and, in the case of the Viewer Activity report, per-user data about content usage. The Viewer Activity report also provides data significant for training events, such as the duration of viewing and the percentage of a video viewed by each user. In order to enable Polycom reports, streaming log information has to be imported from ICDS.

ICDS Prerequisites

Before creating an ICDS Delivery Option in the Polycom VMC 1000 Administrative Portal, a valid, active account with AT&T for the ICDS system must exist. The user configuring the delivery option must have access to the ICDS portal to create web streams and access settings.

Additional pre-requisites apply for the access points associated with the Delivery Option:

- **Download Access Point:** Before creating a download access point, a HTTP caching site must exist within the ICDS system. An access point with role "HTTP Distribution" must exist for the storage option that should be exposed through ICDS.
- **VOD Access Point:** Before creating a VOD access point, a correctly configured ICDS Delivery Option must exist. In addition, an on-demand streaming site must exist within the ICDS system.
- **Live Access Point:** Before creating a live access point a correctly configured ICDS Delivery Option must exist. Also, a live streaming site must exist within the ICDS system.

ICDS Delivery Option Configuration

An ICDS Delivery Option must be configured via the Polycom VMC 1000 administrative portal.

- 1 Log into the Polycom VMC 1000 Administrative Portal.
- 2 Navigate to **Delivery > Delivery Options**. The list of delivery options will appear.
- 3 Click **Add**. A context menu will appear. Choose **ICDS** from the context menu.
- 4 The **Add Delivery Option** page will appear.

Add Delivery Option

Enter the required delivery option properties before adding the access points.

Delivery Option Name *

Description

ICDS Properties

Customer ID *

Access Points

An Access Point is required before this Delivery Option can be used to deliver content.

Click the Add button to add an Access Point. Click an Access Point link to edit the Access Point properties.

✕ Delete
+ Add...

Download Access Points

VOD Access Points

Live Access Points

✔ Save
Cancel

- 5 Define a **Name** for your delivery option. This field is informational.
- 6 Define a **Customer ID**. The Customer ID is provided by ICDS and is essential for proper functioning of the Delivery Option. The Customer ID can be found in the ICDS portal.
- 7 You can now add access points as necessary. When all access points have been added, click **Save**.

Download Access Point Configuration

A Download access point provides download access to files stored within a single storage option in the Polycom VMC 1000 system.

Before creating a download access point, a HTTP caching site must exist within the ICDS system. An access point with role "HTTP Distribution" must exist for the storage option that should be exposed through ICDS.

To add a Download Access Point:

- 1 Click **Add** in the Access Points region of the Add/Edit Delivery Option page. The Select Type context menu will appear.
- 2 Choose **Download** from the context menu. The Add Delivery Access Point screen will appear.

Add Delivery Access Point

Enter the Access Point properties.

Access Point Name *

Storage * You may not edit this association.

Protocol

ICDS Network Host *

Use Security Token

Token Validity (seconds) *

- 3 Provide a **Name** for the download access point.
- 4 Define a **Storage** option for the Access Point. Each Download Access Point is assigned to a unique storage. It can only serve content from this storage.
- 5 Select a **Protocol**.
- 6 Provide a **Host Name**. This is the host name to write in to URLs generated from this access point. You can determine this from your ICDS site configuration, or any DNS alias you have created for the ICDS provided host name.

- 7 Select whether to **Use Secure Token**. Whether to use the ICDS Secure Token mechanism to authenticate users ability to download content. If enabled requires that the storage access point defined uses the string '1cdss3c' as the name for one of its path elements.
Refer to "[Secure Token Authentication](#)" on page 10.
- 8 If using a secure token, provide a **Token Validity Window**.

VOD Access Point Configuration

A VOD access point provides streaming access to Windows Media or Flash files stored within a single storage option in the VCC system.

To add a VOD Access Point:

- 1 Click **Add** in the Access Points region of the Add/Edit Delivery Option page. The Select Type context menu will appear.

- Choose **VOD** from the context menu. The Add Delivery Access Point screen will appear.

Add Delivery Access Point

Enter the Access Point properties.

Access Point Name *

Storage userdata ▼ You may not edit this association.

Streaming Format Windows Media ▼

ICDS Network Host *

Origin Server

Customer Origin

COS ID *

Path on Origin Server

Network Origin

Volume *

Site ID *

SFTP Server *

SFTP Login *

SFTP Password *

Confirm SFTP Password *

Use Security Token

Token Validity (seconds) *

Save
Cancel

- Provide a **Name** for the access point.
- Provide a **Host Name**. This is the ICDS-supplied host name used for URL generation.
- Choose a **Format**, depending on whether you intend to use the access point for Windows Media or Flash video files.

- 6 Dictate an **Origin Server Mode**. If you wish to use an AT&T-provided server to originate your content, choose **Network** origin.
If your ICDS streaming site is configured to fetch content from a server on your premises, choose **Customer** origin.
- 7 If you have chosen **Customer** origin:
 - a Designate the **COS Site ID**. This is the ICDS-assigned ID for the customer origin server.
 - b Designate the **COS Origin Server Path**. This is an optional path on the origin server, inserted into the URL.
- 8 If you have chosen **Network** origin:
 - a Provide the **FTP Host**. This is the SFTP host to which content is distributed.
 - b Provide the **FTP Login/Password**. These are the SFTP credentials to use when distributing content if using network origin servers.
- 9 Designate the **ICDS Site ID**.
- 10 Designate the **Volume**. This is the ICDS-supplied storage volume. This is the first component of the ICDS-provided URL for a VOD site, and typically looks like 'v1' or v5.'
- 11 Choose whether or not to **Use Secure Token**. This indicates whether or not to use the ICDS Secure Token mechanism to authenticate users' ability to stream content. If enabled, requires that any customer origin server use the string 'lcss3c' as the name for one of its path elements. Network origin servers will automatically create the proper path element.
Refer to "[Secure Token Authentication](#)" on page 10.
- 12 If using a secure token, provide a **Token Validity Window**.

Live Access Point Configuration

A Live Access Point provides streaming access to Windows Media or Flash webcasts. Before a Live Access Point is created in the VCC, a webcast corresponding to the Live Access Point must be created in the ICDS portal.

ICDS Webcast Configuration

A Live Access Point corresponds to a single webcast in the ICDS portal. Each webcast in the ICDS portal must be configured as a 24x7 broadcast, and can be reused for multiple broadcasts within the VCC system. You should create as many webcasts and Live Access Points as you expect simultaneous broadcasts.

If the webcast is a Flash webcast, the webcast must be created as a Flash live webcast. ICDS will provide a primary and backup push host in this case.

If the broadcast is a Window Media format broadcast, the webcast must be created as a WMT Encoder, WMT Dual Encoder, or WMS Remote Publishing Point. Note that WMS Dual Remote Publishing Point is not supported. This can be simulated by using multiple webcasts in conjunction, one per origin access point.

The following table describes the functionality provided by each option:

Webcast Type	Provisioning	Remarks
WMT Encoder	None	For Encoder webcasts, the Polycom VMC 1000 will perform no provisioning. The webcast should be configured to permanently pull from an encoder controlled by the VMC 1000 such that ICDS can ingest the stream when the VMC 1000 starts the encoder as part of a broadcast. A single primary stream should be specified in the access point configuration.
Dual WMT Encoder	None	For Dual Encoder webcasts, the Polycom VMC 1000 will perform no provisioning. The webcast should be configured to permanently pull from two encoders controlled by VCC such that ICDS can ingest the stream from both encoders when VCC starts the encoder as part of a broadcast. A primary and backup stream should be specified in the ICDS configuration.
WMS Remote Publishing Point	Origin Delivery	For Remote Publishing Point broadcasts, the Polycom VMC 1000 will provision a customer-provided origin server. This origin server must be configured within the Polycom VMC 1000 system as a Windows Media delivery option with at least one static publishing point. At broadcast time, the publishing point on the origin WMS server will be dynamically provisioned to pull from the encoder serving the broadcast. The ICDS webcast should be configured to pull from the origin publishing point, and hence during a particular broadcast will pull indirectly from the encoder assigned to the broadcast.

Access Point Configuration

After configuring a webcast in ICDS, a Live Access Point must be created. To add a Live Access Point:

- 1 Click **Add** in the Access Points region of the Add/Edit Delivery Option page. The Select Type context menu will appear.
- 2 Choose **Live** from the context menu. The Add Delivery Access Point screen will appear.

Add Delivery Access Point

Enter the Access Point properties.

Access Point Name *

Streaming Format Windows Media ▼

ICDS Network Host *

Primary Stream Name *

Backup Stream Name

Provisioning Mode

None

Provision Origin

Origin Server ▼

Origin Access Point ▼

Use Security Token

Token Validity (seconds) *

✔ Save
Cancel

- 3 Provide a **Name** for the access point.
- 4 Provide a **Host Name**. This is the ICDS-supplied host name used for URL generation.
- 5 Choose a **Format**, depending on whether you intend to use the access point for Windows Media or Flash streams.
- 6 If you chose Windows Media in Step 5:
 - a Designate a **Windows Media Provisioning Mode**. If using an ICDS stream mapped directly to an encoder, no provisioning is required. If using an origin server, the origin must be provisioned to serve a stream from the encoders in use.

