The document provides instructions on how to connect to a camera using the ONVIF protocol. It outlines the steps involved in communicating with an ONVIF-compliant camera using specific APIs.

To connect to a camera, the following requirements are necessary:

- 1. An ONVIF-compliant IP camera.
- 2. A network connection (wired or wireless).
- 3. An ONVIF client software or custom application supporting ONVIF API calls.

The steps to connect to a camera using ONVIF are as follows:

- 1. Network Setup: Ensure that the camera is properly connected to the network and assign an IP address to the camera.
- 2. Discovering the Camera: Use the GetServices API to discover the ONVIF services provided by the camera. Send a request to the camera's IP address to get the list of services.
- 3. Retrieving Device Information: Use the GetDeviceInformation API to retrieve basic information about the device, such as manufacturer, model, firmware version, and serial number.
- 4. Fetching Profiles: Use the GetProfiles API from the Media service to fetch available profiles. Profiles define configurations for video streams, including resolution, encoding, and frame rate.
- 5. Obtaining Stream URI: Use the GetStreamUri API to obtain the RTSP stream URI for a given profile.

  This URI can be used to access the live video stream.
- 6. Controlling PTZ Features: If the camera supports PTZ, use the ContinuousMove API to control the camera's pan, tilt, and zoom functions.
- 7. Handling Events: Use the PullMessages API to subscribe and receive notifications for events such as motion detection.

Using these steps, you can establish a connection to an ONVIF-compliant camera, retrieve device

information, and access video streaming and PTZ functions. Following the standardized ONVIF protoco
ensures interoperability and ease of integration across different devices and platforms.