To connect to an ONVIF-compliant camera using the ONVIF protocol, follow these steps:

- 1. Network Setup: Ensure that the camera is properly connected to the network and has either a static IP address or is configured to obtain an IP address via DHCP.
- 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 retrieve the list of available services.
- 3. Retrieving Device Information: Use the GetDeviceInformation API to retrieve basic information about the camera, such as the manufacturer, model, firmware version, and serial number.
- 4. Fetching Profiles: Use the GetProfiles API from the Media service to fetch the available profiles for the camera. Profiles define configurations for video streams, such as resolution, encoding, and frame rate.
- 5. Obtaining Stream URI: Use the GetStreamUri API to obtain the RTSP (Real-Time Streaming Protocol) stream URI for a specific profile. This URI can be used to access the live video stream from the camera.

Additionally, the document briefly mentions how to control PTZ (Pan-Tilt-Zoom) features using the ContinuousMove API and how to handle events using the PullMessages API.

By following the standardized ONVIF protocol and using specific SOAP-based APIs, you can communicate with an ONVIF-compliant camera, retrieve device information, access video stream profiles, control PTZ functions, and handle events. This ensures interoperability and ease of integration across different devices and platforms.