AXIS Camera Station Device Compatibility Tool test result

When the AXIS Camera Station Device Compatibility Tool has finished the test result will be added to CompatibilityReport.xml. Together with the test result, the file also contains information about the camera and the tool itself.

```
<CompatibilityReport>
  <ToolInformation>
    <ToolName>AcsDeviceCompatibilityTool</ToolName>
    <ToolVersion>5.36.280</ToolVersion>
    <ToolGeneratedId>6b5c2617-76af-490d-ba4c-e3003bcdfd4a</ToolGeneratedId>
    <ReportGeneratedTime Kind="UTC">2021-04-07T18:41:55</ReportGeneratedTime>
  </ToolInformation>
  <DeviceInformation>
    <Manufacturer>HIKVISION</Manufacturer>
    <Model>DS-2CD5A46G0-IZHS</Model>
    <FirmwareVersion>V5.5.81 build 180910</FirmwareVersion>
    <HardwareId>88</HardwareId>
    <MacAddress>4447CC5C8B07</MacAddress>
    <SerialNumber>DS-2CD5A46G0-IZHS20181008AAWRC57513098</SerialNumber>
    <DigestAuthenticationSupport>Yes</DigestAuthenticationSupport>
    <VideoSourceCount>1</VideoSourceCount>
    <HasMicrophone>false</HasMicrophone>
    <SpeakerSupport>None</SpeakerSupport>
  </DeviceInformation>
  <TestResults>
    <AddDevice>
      <WSDiscovery>Failed</WSDiscovery>
      <MacAddress>Passed</MacAddress>
      <NetworkSetting>Passed</NetworkSetting>
      <AuthenticationResponse>Passed</AuthenticationResponse>
      <Capabilities>Passed</Capabilities>
    </AddDevice>
    <AxisStreaming>
      <H264>Passed</H264>
      <Mjpeg>Passed</Mjpeg>
      <Audio>NotApplicable</Audio>
    </AxisStreaming>
    <FFmpegStreaming>
      <H264>Passed</H264>
      <Audio>NotApplicable</Audio>
    </FFmpegStreaming>
    <PTZ>
      <RelativePanTilt>NotApplicable</RelativePanTilt>
      <RelativeZoom>NotApplicable</RelativeZoom>
      <ContinuousPanTilt>Passed</ContinuousPanTilt>
      <ContinuousZoom>Passed</ContinuousZoom>
      <Preset>Passed</Preset>
    </PTZ>
    <EventTest>
      <Properties>Passed</Properties>
      <SubscribeSingle>Passed</SubscribeSingle>
      <PullSingle>Passed</PullSingle>
      <SubscribeMultiple>Passed</SubscribeMultiple>
      <Unsubscribe>Passed</Unsubscribe>
    </EventTest>
    <Time>
      <Time>Passed</Time>
    </Time>
  </TestResults>
</CompatibilityReport>
```

Each test can result in either:
- **Passed** - should be possible in AXIS Camera Station
- **Failed** - will not be possible in AXIS Camera Station
- **NotApplicable** - unsupported by the camera

AddDevice:
- **WSDiscovery** - Tests that the camera can be found using Web Services Dynamic Discovery
- **AuthenticationRespone** – Verifies that authentication works as expected, also detecting if the camera doesn't respond correctly when invalid credentials are used, since those cameras will not work in AXIS Camera Station.
- **MacAddress** - Tests that the Mac address can be retrieved
- **NetworkSetting** - Tests that network settings can be retrieved, such as IP, subnet mask and isUsingDchp.
- **Capabilities** - Tests that video sources and their configuration can be retrieved.

  If MacAdress, NetworkSetting, AuthenticationResponse and Capabilities passed but not WSDiscovery, it should be possible to add the camera manually.

AxisStreaming:
- **H264** - Test to stream H264 for a couple of seconds. Verifies that streaming was successful without throwing unwanted exceptions, and that video has been received. *Note! Does not validate the received video quality, this must be done manually.*
- **Audio** - Test audio together with H264 video is supported by the camera.
- **Mjpeg** - Test to stream MJPEG codec, same as the H264 test.

FFmpegStreaming:
- **H264** - Test to stream H264 for a couple of seconds. Verifies that streaming was successful without throwing unwanted exceptions, and that video has been received. *Note! Does not validate the received video quality, this must be done manually.*
- **Audio** - Test audio together with H264 video is supported by the camera.

PTZ:
- **RelativePanTilt** - Checks that RelativePanTiltTranslationSpace is defined, and in that case performs a small relative Pan/Tilt translation.
- **RelativeZoom** - Checks that RelativeZoomTranslationSpace is defined, and in that case performs a small relative zoom.
- **ContinuousPanTilt** - Checks that ContinuousPanTiltVelocitySpace is defined, and in that case performs a small continuous Pan/Tilt move.
- **ContinuousZoom** - Checks that ContinuousZoomVelocitySpace is defined, and in that case performs a small continuous zoom.
- **Preset** - Performs following tests: Get Presets, Add Preset, Go to Preset and Remove Preset

EventTest:
- **Properties** - Events including motion detection can be listed in AXIS Camera Station. If it fails it is unsupported by the camera and motion detection is not be possible to use in Axis Camera Station. All other event tests will get status failed.
- **SubscribeSingle** - Test if single event subscription is supported by the camera. At failed it can mean that the camera not accepting parameters sent by AXIS Camera Station
- **PullSingle** - Test to receive event status from the camera. If the camera only support stateless events, the test is not applicable.
- **SubscribeMultiple** - Test if multiple events subscription is supported by the camera. At failed it can mean that the camera not accepting parameters sent by AXIS Camera Station. If the camera does not contain at least 2 events, the test is not applicable.
- **Unsubscribe** - Test to unsubscribe and subscribe again to an event is supported by the camera. At failed it is not possible to unsubscribe to events and change of events is not possible in AXIS Camera Station. If the camera only support stateless events, the test is not applicable.

Time:
- **Time** - Test to retrieve NTP and time settings such as daylight-saving time, time zone, current UTC time, and current local time. Test to change the NTP server and the previously mentioned time settings and change the settings back to the original mode. If any step in this process fails, the test is not applicable.