infinias™
Intelli-M® Access Integration
DIGIOP ELEMENTS™ V8.6
infinias™ Intelli-M® Access / DIGIOP ELEMENTS™ V8.6 integration

infinias Intelli-M Access can easily be configured to send event information to DIGIOP ELEMENTS™ V8.6 (DIGIOP Control). This information can be used in DIGIOP Control to trigger recording, activate soft alarms, activate digital outputs, and other functions. Through this integration, event information can also be reported through DIGIOP Connect, and DIGIOP Connect can be used to push temporary door unlock commands back to the Intelli-M Access server.

Typical event information from Intelli-M Access can include:

- **Detection of an Unknown Credential Status Event** — when access to a door is attempted using an unrecognizable credential.
- **Detection of a Door Forced Open Event** — when a door is opened without a credential with permission.
- **Detection of a Valid Credentials Event before or after work hours** — when access to a door is attempted outside of normal work hours.
- **Detection of an Anti-Passback Violation Event** — when a credential is used more than once at the same reader in a short period of time.

A DIGIOP ELEMENTS DD-EAC (Access Control) license is required to complete this procedure.

**How it Works**

Intelli-M Access configured to send TCP event data to a DIGIOP ELEMENTS server when it detects a specific event(s). DIGIOP Data “listens” for these messages at a specific TCP port and acts as configured when it receives them. Once the integration is established, DIGIOP Control can send door unlock commands back to Intelli-M Access.

**Making it Happen**

To configure DIGIOP Control to receive TCP event data from Intelli-M Access:

1. Determine the IP Address, TCP listening port, and valid user credentials for DIGIOP Control and Intelli-M Access.
2. Create a “peripheral” in Intelli-M Access for the DIGIOP Control.
3. Create a Forward Event rule in Intelli-M Access to send event data to DIGIOP Control.
4. Install a DD-EAC license (for access control device integration) on your DIGIOP ELEMENTS server, if necessary.
5. Configure DIGIOP Control to listen for messages from Intelli-M Access.
6. Use DIGIOP Connect to verify that Intelli-M Access messages are received by DIGIOP Control. This step tests your configuration to confirm that it is working properly.

Detailed steps follow. For more information on performing the following steps, refer to the DIGIOP® Control User Manual or the Intelli-M Access User Manual for your system.
Step 1. Determine the IP Address, TCP listening port, and valid user credentials for DIGIOP Control and Intelli-M Access

1. Login to DIGIOP Control as a user with administrative privileges.

2. In the object tree on the left, click the Data Sever entry, then click the Edit button at the top of the window.

The Addresses shown on the screen above are the IP address for Data Server on the local LAN (192.168.75.11 port 24752) and the router address (12.125.219.54 port 24752). **NOTE:** The Data Server will be configured to listen for messages from Intelli-M Access on a different TCP port.

3. Consult with your network administrator to obtain the recommended TCP port number to use for transmitting messages from Intelli-M Access to DIGIOP Control. Ensure that the port is open in all firewalls between Intelli-M Access and DIGIOP Control for this purpose. Include the information below for use later in this procedure.

   DIGIOP Control IP address(es): ________________________________________

   TCP port for Intelli-M Access messages: __________________________

4. Click Cancel to close the DIGIOP Data Server menu.

5. Consult with your Intelli-M Access administrator to obtain a recommended IP address, server port and administrative login Username and Password. Include the information below for use later in this procedure.

   Intelli-M Access IP address: ________________________________________

   Intelli-M Access server port: __________________________

   Username: __________________________ Password: __________________________
Step 2. Create a “Generic Peripheral” in Intelli-M® Access for DIGIOP Control

The generic peripheral in Intelli-M Access is configured with the parameters needed to transmit messages to DIGIOP Control.

1. Log in to Intelli-M Access as a user with administrative privileges.

2. Click the Peripherals tab, then select Create Peripheral.

3. Click the New button and select the Generic Peripheral in the drop down list. See the following screen.

4. In the Peripheral Configuration window for DIGIOP ELEMENTS, only the Host Name and Port number are required. A unique Name can also be entered to distinguish this generic peripheral from others. In this example, the following were entered:

   **Name:** Enter a unique name for the peripheral. In this example, the peripheral is named **Digiop**.

   **Host Name:** Enter the IP Address of the DIGIOP server. In this example, the DIGIOP server is on the same LAN as the Intelli-M Access server, so the direct IP address is **192.168.3.15**.

   **Port:** Enter the TCP port number determined earlier. In this example, the TCP port number is **4021**.
5. Click **Save** to retain the configuration.

**Step 3. Create a Forward Event rule in Intelli-M® Access to send event data to DIGIOP Control**

The rule specifies what data will be sent to the DIGIOP Control server.

1. Click **Configuration** in the upper right corner or the Intelli-M Access window.

2. Click the **Rules** tab, then click **Create Rule**.
3. In the **Create Rule** menu, open the **Type** drop-down list and select **Forward Event**.

4. In the Create Rule window, select options for your site. For this example, the following were selected:
   - Click the **Schedule** tab. Select **Always**.
   - Click the **Group** tab. Select **None**.
   - Click the **Zone** tab. Select **None**.
   - Click the **Door** tab. Select **Training Room Door** (door associated with the reader).
   - Click the **Reader** tab. Select **Training Room Door (IN) - Inside** and **Training Room Door (OUT) - Outside**.
   - Click the **Zone** tab. Select **None**.
   - Click the **Person** tab. Select **None**.
   - Click the **Event Reason** tab. Select the event type that will cause the rule to execute. In our example, we selected **Unknown Credential Status**.
   - Click the **I/O Controller** tab, then select the name of the Generic Peripheral you created earlier (DiGiop).
   - Click **Create** to save rule.
The following screen shows the rules created by the options we selected.

**NOTE**
This rule example shown here chooses the minimum selection of options. Select additional and other parameters to make the rule more specific to your site needs.
Intelli-M Access will forward only the selected event(s). If you do not select any events, it will forward ALL events.
**Step 4. Install a DD-EAC license on your DIGIOP ELEMENTS server**

Access integration with the DIGIOP ELEMENTS system requires a DD-EAC license. This license must be installed before configuring DIGIOP Control for integration with infinias Intelli-M Access. You can acquire a DD-EAC License ID and Password from your DIGIOP dealer, or from DIGIOP, Inc. To install the license:

1. On your DIGIOP Control server desktop, click the Windows **Start** button, then select **All Programs** to open the program list. Depending on your system configuration, the Start menu and programs list may appear different from the screen captures shown below.

2. In the **All Programs** list, open the DIGIOP™ System Setup Tool.

3. In the System Maintenance window, click **Manage Licenses**.

![System Maintenance](image-url)
Selecting Manage Licenses opens the License Summary window.

4. In the window shown above, click **Add License**, then enter your DD-EAC License ID and Password.

5. Select **Activate License Online** if you have an Internet connection to your server. Otherwise, select **Activate License Manually**.

6. Follow the on-screen instructions to complete the activation process. This process may require a system restart. After the DD-EAC license is added, the License Summary window will reflect the change.
Step 5. Configure DIGIOP Control to listen for messages from Intelli-M Access

The DIGIOP® Data Server feature for DIGIOP® Control can associate the video, audio, and data capture capabilities of the system. To add a data stream to DIGIOP® Control for Intelli-M Access:

1. Open the Systems list, then click the icon of the data server.

2. Click the New button at the top of the Home page. The Create Item pane will open in the right frame.
3. In the **A New Stream** list, click **Infinias Intelli-M**. A properties window will open.
4. In the Infinias properties window, enter an appropriate name, the Listen Port number, and the Intelli-M Access system information. In this example, the TCPListenerPort is 4021.

5. Click Save.

**NOTE**
The Infinias data stream item created here is the system level event information element. Door names in Intelli-M Access appear as children to this element in DIGIOP Control. In the example used here, **Training Room Door** will appear beneath **My Infinias Intelli-M** in the left frame.

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**Step 6. Use DIGIOP Connect to verify that Intelli-M Access messages are received by DIGIOP Control**

Then, produce event reason (in this example, **Unknown Credential Status**) for which the Intelli-M Access rule was created. To verify that messages are received by DIGIOP Control, login to your DIGIOP ELEMENTS server with DIGIOP Connect and configure it to monitor the **My Infinias Intelli-M** data stream. Verify that messages can be seen with DIGIOP Connect.

1. Create the actual event or events you want to monitor for.

2. Log into Intelli-M Access and verify that the event you created is listed in the Events tab.
3. Log into DIGIOP Control.

4. In the Data Server, verify that a Data Driver for the door exists under the data stream *My Infinias Intelli-M* created earlier.

In the example above, two cameras were associated with the Data Driver *Training Room Door* by dragging them from the Video Server group in the left frame and dropping them into the Associated Resources box. While viewing video from these cameras with DIGIOP Connect, this association enables you to easily send temporary door unlock commands to this door through the Intelli-M Access server.

In DIGIOP Control, you can also associate the Data Driver *Training Room Door* with cameras, using the notice (message) of an event from Intelli-M Access as a trigger for *Motion and Event* recording.

For more information about the advanced features of DIGIOP Control and Intelli-M Access, please see the *DIGIOP Control User Manual* for your system and *infinias.com*. 
5. Log into DigiOP Control with DigiOP Connect.

6. Open a multi-frame layout, such as the one shown below (2 x 2).

7. In the tree in the left frame, expand the Data Server (EI4000-1T) and then My Infinias Intelli-M. Drag Training Room Door into a viewing frame to show the door-level information. If the Infinias door controller is wired to activate a device remotely (such as a door lock), a “lock” icon will appear in the viewing frame.

Also drag the cameras associated with Training Room Door into other frames. Note that for both cameras the lock and unlock controls and the lock status icon appear at the top of the frame.

![Screenshot of DigiOP Control interface with highlighted Training Room Door and associated cameras.]

In the screen above, you can:

- Click the Lock and Unlock icons on the right to change the lock state. Verify that the physical state of the device changed as expected.
- Click the Show Item Details icon to toggle the screen between the remote lock feature and the display of event messages from Intelli-M Access. Only event messages associated with the door are shown here.

8. In the left frame, click Training Room Door to highlight it.

9. In the Home tab, click Search. A bar graph will appear in the viewing frame showing message count versus time, and a timeline will open below graphically marking when messages were received with tan-colored bars. Click the “Show Item Details” (document/graph) icon in the upper right corner of the viewing frame to toggle the display between a bar graph and a list of the messages received.
10. Click the **Experience Associated Resources** icon in **Search Tools** to display what was recorded on the cameras when a message was received. The video images from the cameras and the message highlighted in the viewing frame occurred at the same time.

![Image of用户体验界面，包含经验相关资源图标、关联摄像头、时间线标记和米色标记，指示消息何时被记录。]

Click on a different message in the *Training Room Door* viewing frame. Note that the camera images will show what was recorded at that instant and the marker on the timeline will move to that time position.