

SYNNEX 

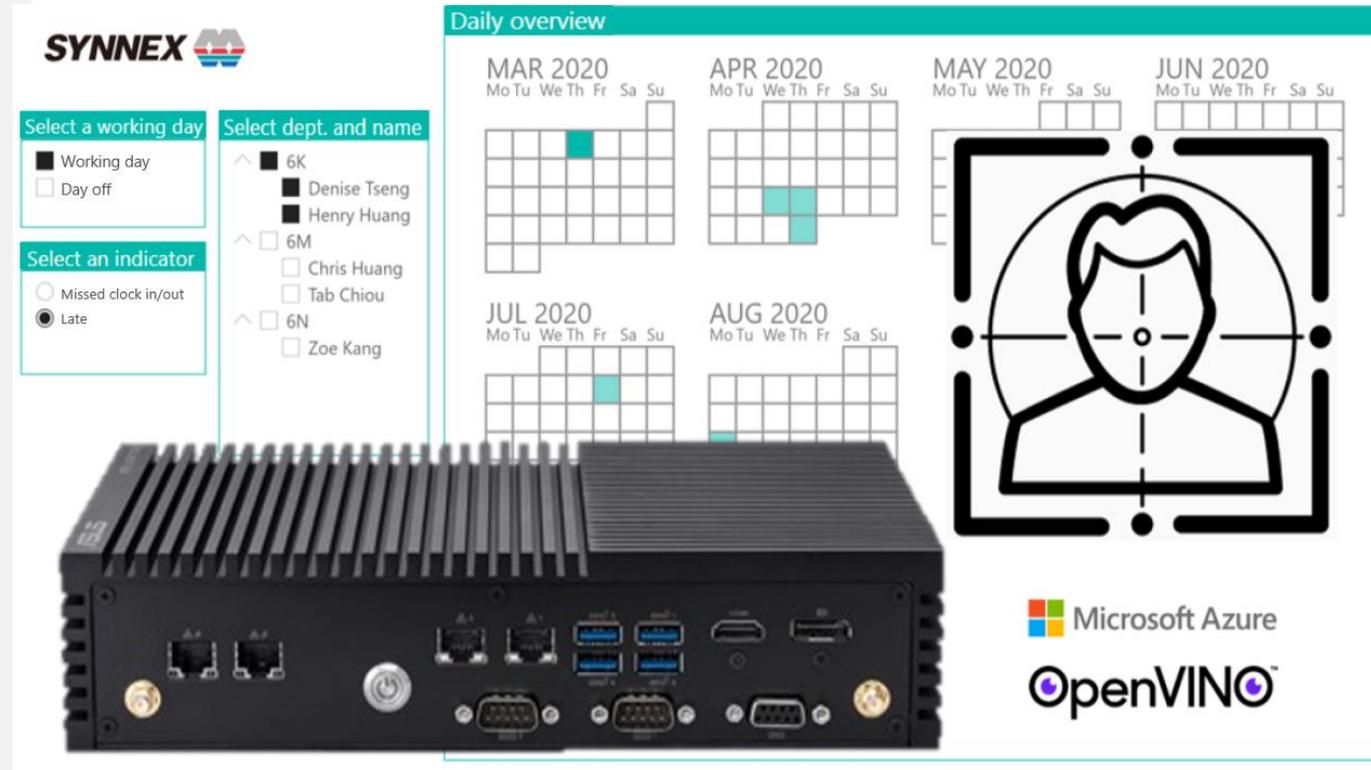
 **Microsoft**

**Access control attendance management system
with facial recognition**

Solution Description

We designed a facial recognition SW in UWP UI Interface, user can easily key-in their Azure connection string or optimize configuration using the UI interface.

After the configuration, the system will enable the camera to capture and detect facial, then it will send the result to Azure IoT services. After processing and analyzing, the screen will show whether the person is qualified or not.



‘ Access control attendance management system’

- Create your own attendance management system with AI technology

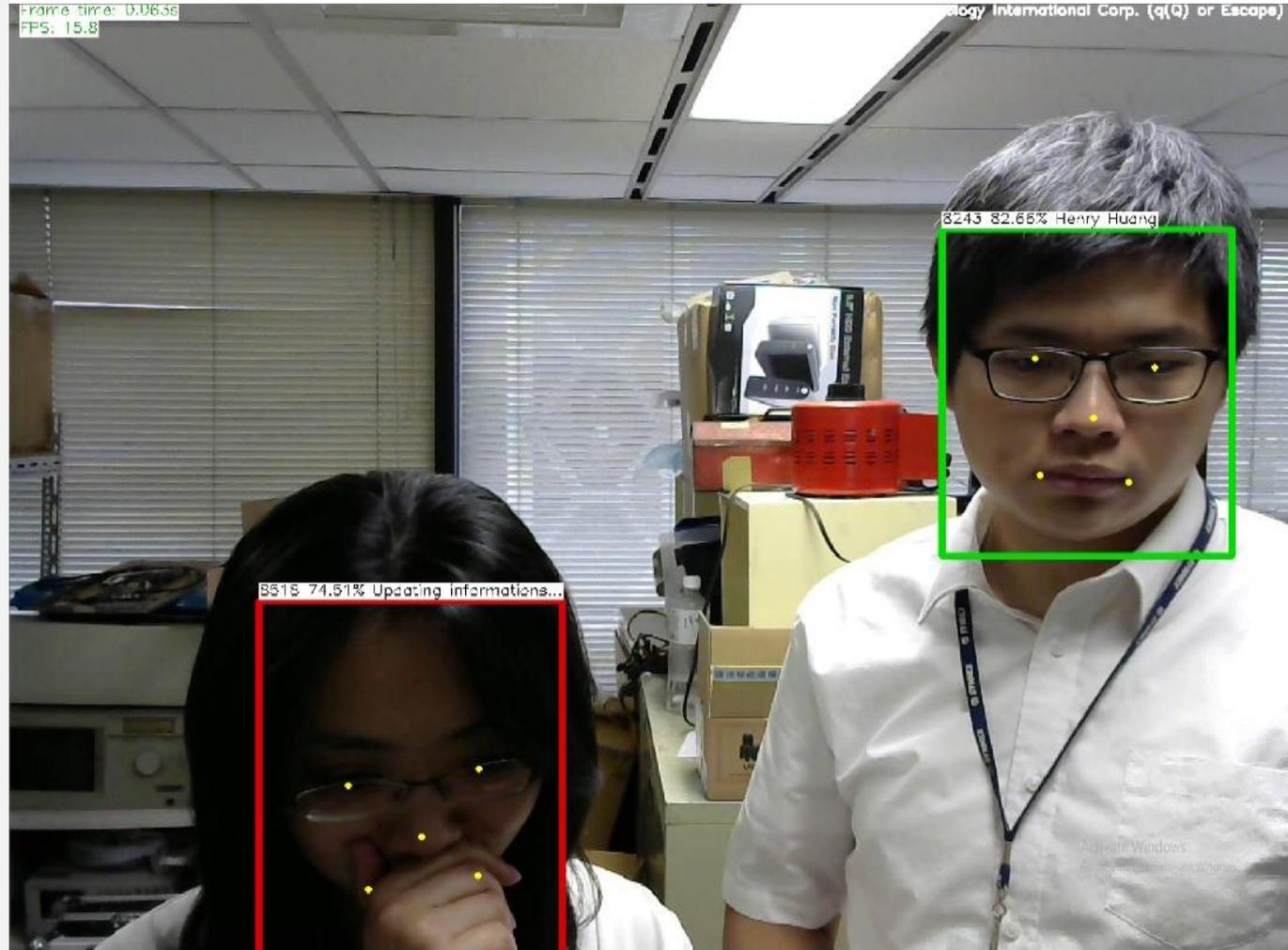
Solution Description

✓ Support Previewing mode

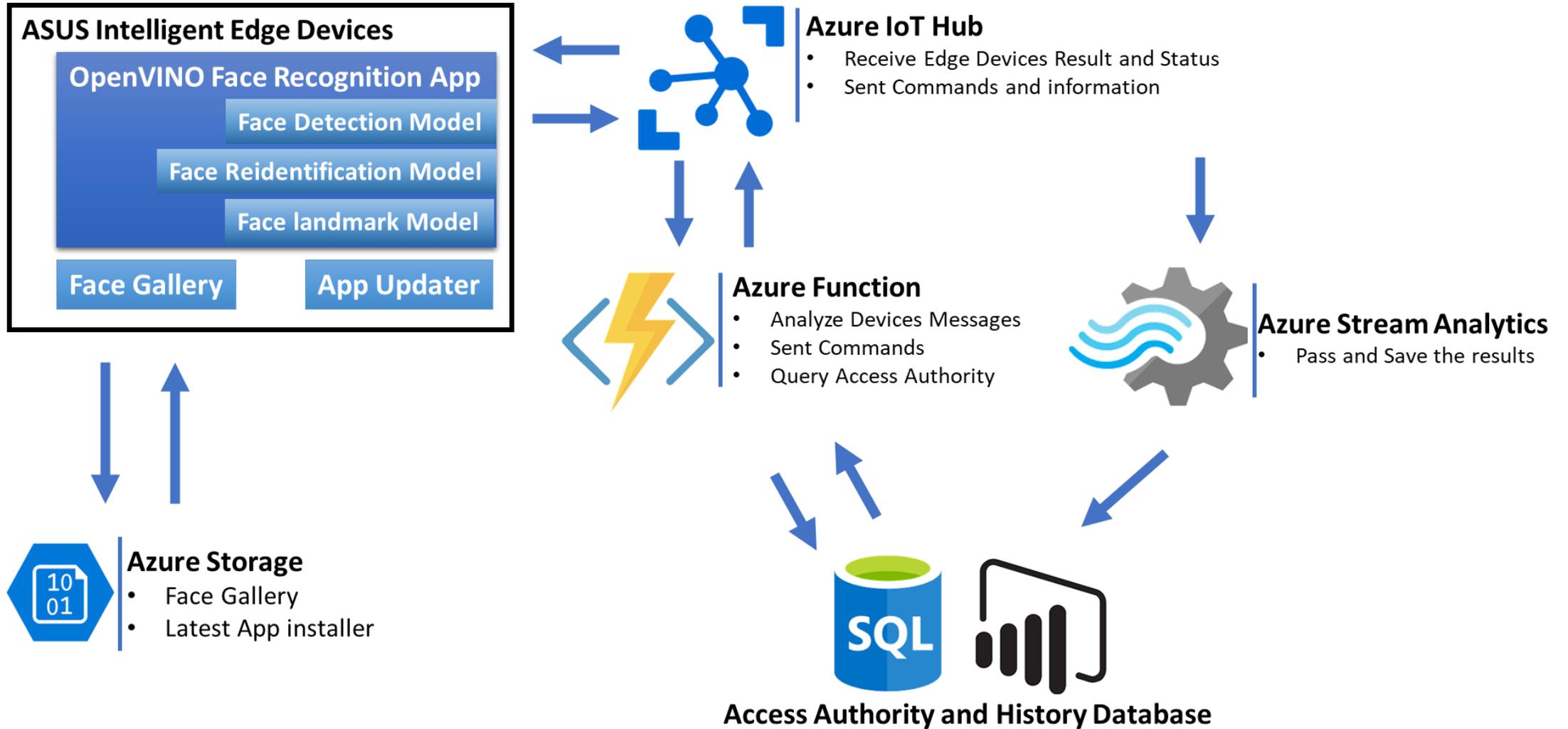
- The App can run without any monitor connected, and get the information from Azure IoT Hub.
- Cameras can scan faces and identified the person is verified or not and display full screen on the monitor.

✓ Multiple interface for extend devices

- ASUS PE200U has interfaces such as GPIOs, RS-232/485 which can connect to external devices.
- We can use configure to connect external devices by customer's need.
- The App will trigger signals when detecting faces and sent information to Azure IoT Hub.



SYNNEX Reference Architecture



Solution Description –Setting Models

Setting Your Models

Select a trained Face Detection model

Select a trained Facial Landmarks Regression model

Select a trained Face Reidentification model

Set a Folder as your Face Gallery

Default Path: C:\Users\henryhuang\Pictures\face_gallery

Use Face Detection model to find faces on the face images

Disable

Allow growing the face database

Disable

Paste Your Azure IoT Hub Connection String

Enter Your Connection String

Paste Your Azure Storage Connection String

Enter Your Connection String

Setting Your Inference Source

cam

1) **Setting Page will show when first boot**

- Face Detection Model
- Face REID Model
- Face Landmarks Model
- Face Template Data Path
- Azure IoT Hub Connection String
- Azure Storage Connection String
- Azure IoT Data transit rate
- Inference Source

2) **After first time setting, The App will run automatically after each boot.**

- The App will check for update before running.
- The App will update face database through Azure Storage blob.

*The UWP app and Environment have to be preinstalled.

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