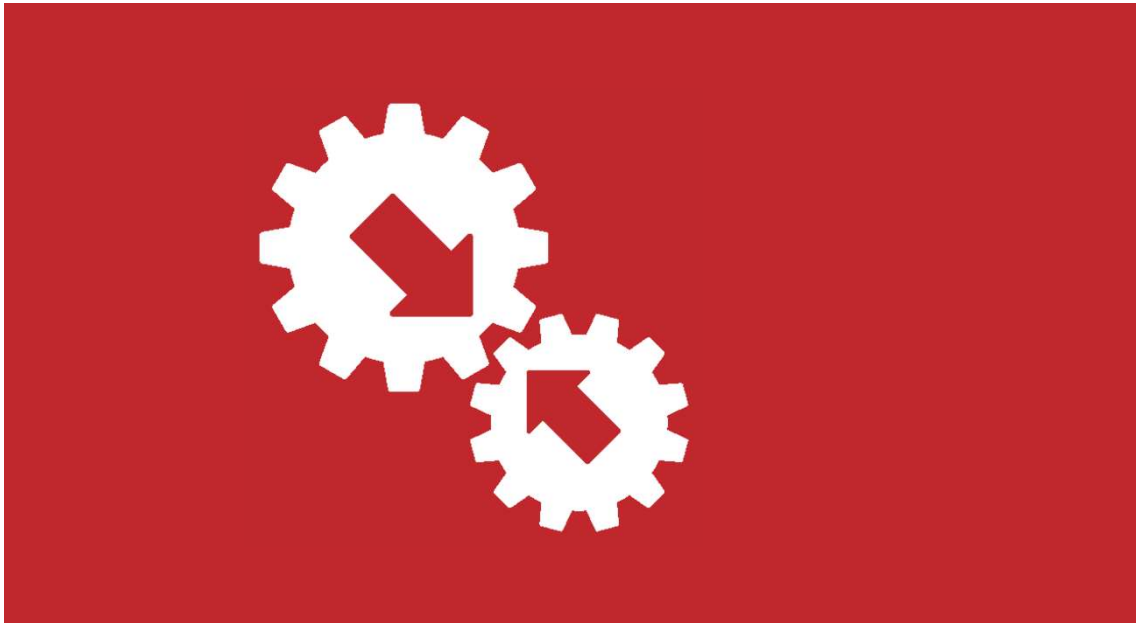
iDentyTech Integration with C-CURE 9000



iDentyTech Solutions America, Inc. 2020

IdentyTech™ Integration with C•CURE 9000

The integration

The integration between IdentyTech Solutions™ palm vein & fingerprint readers and C•CURE 9000 security & event management system provides the edge you need for a complete biometric access control management system.

Adding advanced biometric authentication to C•CURE 9000 enhances hardened security requirements for sensitive areas within your organization. You can configure and manage the IdentyTech readers as well as enroll and distribute biometric data to the readers from the C•CURE 9000 software

Features That Make a Difference:

- Simply manage one user record for both standard access and biometric access
- Ultra-fast identification and verification with card, PIN, palm vein, fingerprint or facial recognition
- Real-time communication with C•CURE 9000 for greater security and control
- Secured and encrypted critical information and communication
- Support for iCLASS SE smart cards
- ProxPoint and 125KHz RFID tags
- False rejection rate: 0.01%,
  False acceptance rate: 0.00008%
- Easy installation kit

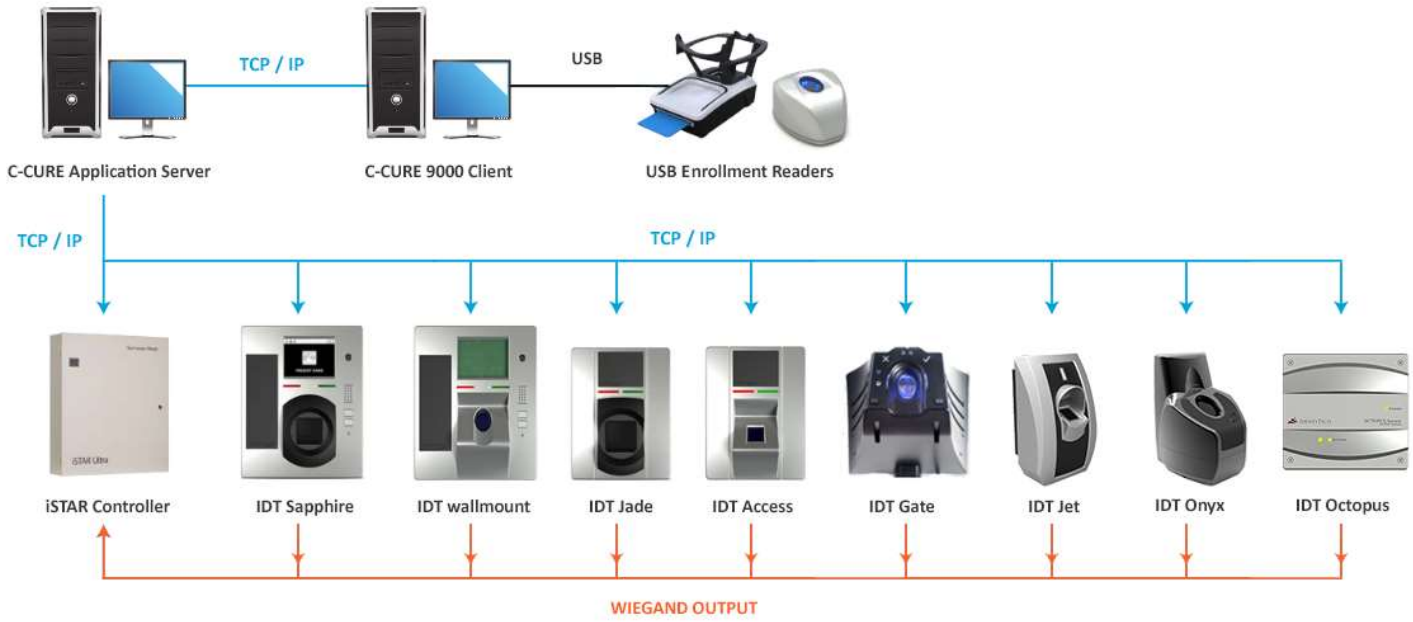
Integration flow

The terminals are assigned as “readers” in C-CURE 9000 software thought the user defined fields.

All terminals (biometric readers) communicate with C-CURE 9000 software by TCP/IP in order to receive real-time monitoring events, manage personnel records and terminal settings, and through wiegand interface with iSTAR controllers.

The enrollment can is done through the USB readers connected to C-CURE 9000 client stations or on the terminal itself.

Integration supports enterprise environments with MAS and SAS. Standalone identification, verification and Server mode identification.

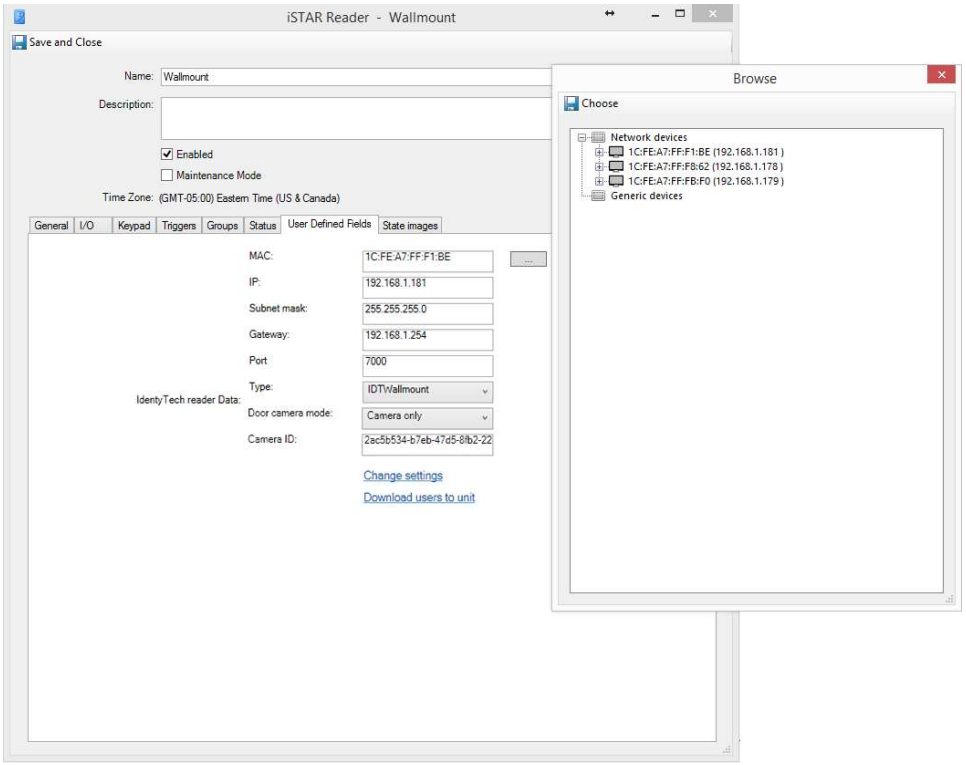


Biometric terminals

(Fingerprint and Palm Vein recognition)

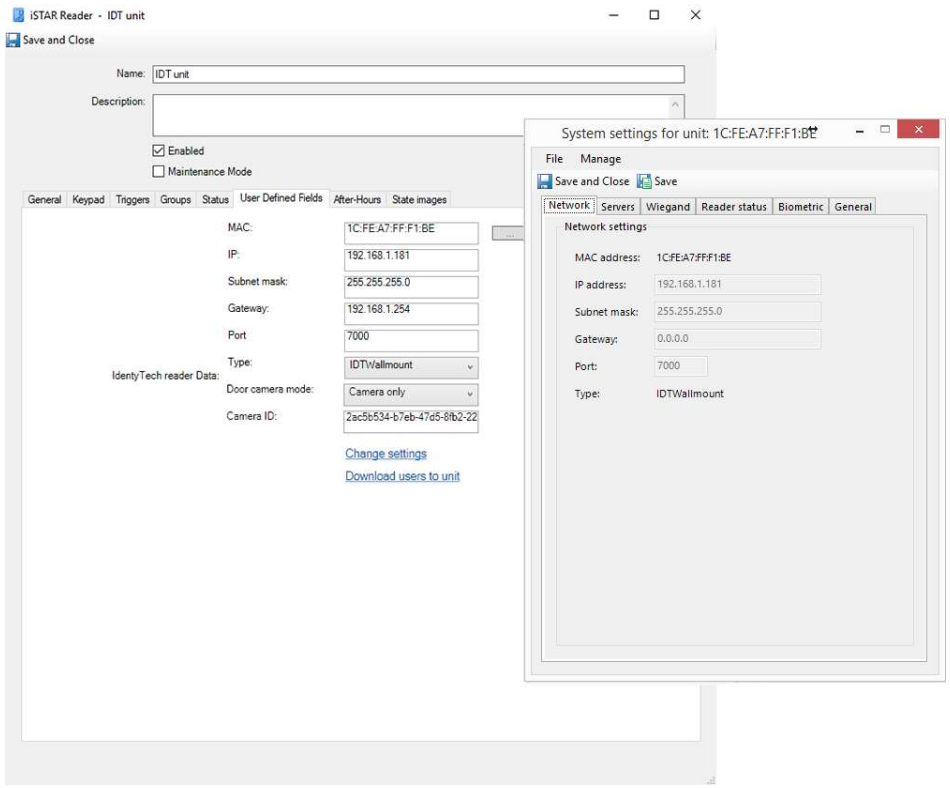
Biometric Readers Management

Easy browsing and assignment of the biometric terminals as iSTAR readers from C-CURE 9000 software



Biometric Readers Management

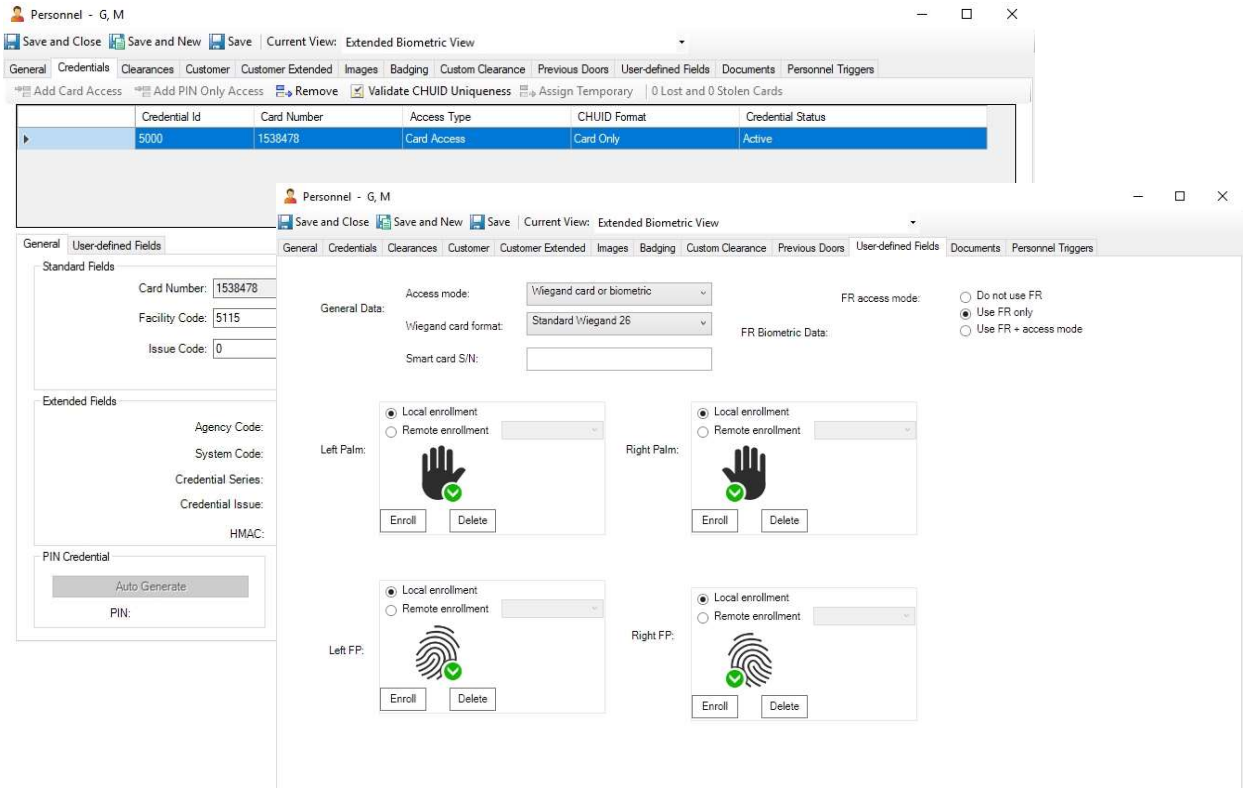
No additional configuration software is required to configure terminal setting



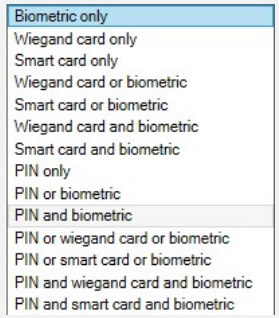
- IP settings management
- Firmware updates
- Real-Time Monitoring & PC identification servers settings management
- Unit or User access mode settings with up to 12 different credentials combinations
- Inputs settings: DS, BG, EPB (Normally open / Normally closed modes), Tamper settings
- Biometric settings for fingerprint and palm vein
- Language settings, Led & Sound settings, Time settings
- Internal log and database management: clearing and recreation, synchronization of existing user data with the terminal

Personnel management – Access control credentials

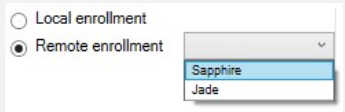
Easy biometric enrollment from within the C-CURE 9000 software



- Various Access modes



- Enrollment with local USB reader or remote enrollment with the terminal itself:

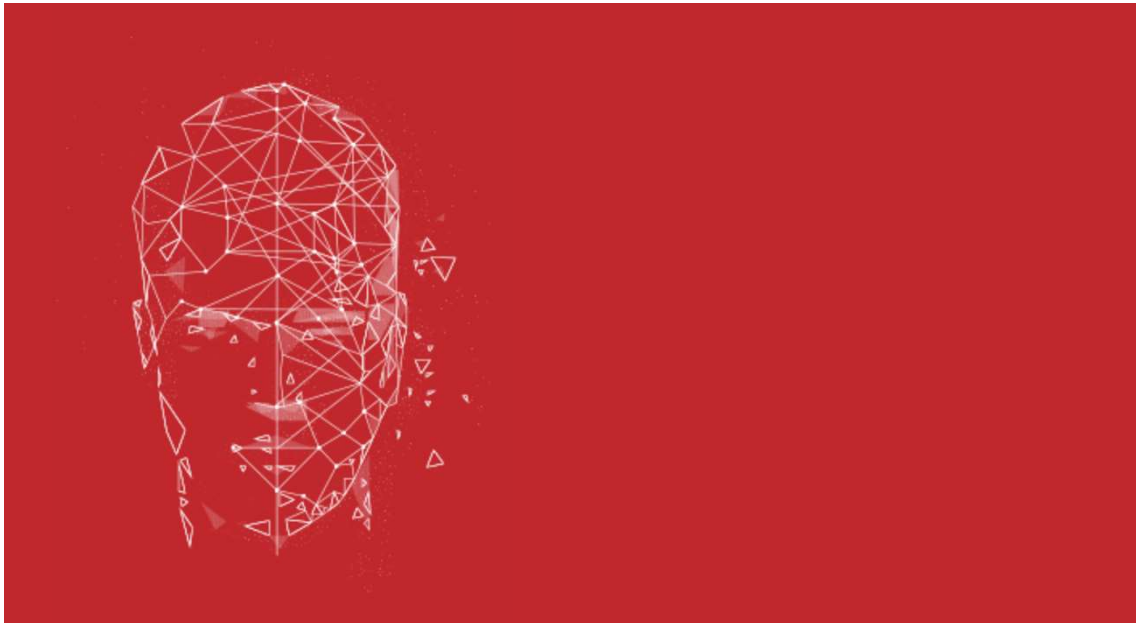


- Fingerprint template quality score

- Ability to assign Proximity cards, Smart cards S/N and Pin codes

- User distribution to the biometric readers according to the existing clearance levels.

Facial recognition



Facial recognition module

iDentytech integrates a facial recognition module directly into C-CURE 9000 software allowing to enable efficient and accurate processing of faces from live streams.

The Facial Recognition module is a fully scalable and interoperable platform for surveillance and physical access control.

Facial recognition module allows you to easily manage and monitor access to doors, turnstiles, speed gates and any other entry point management by seamless integration with iDentyTech terminals.

Access easily by face only or using a multiple credential with finger, palm vein, cards and pin codes.

VIDEO SERVER

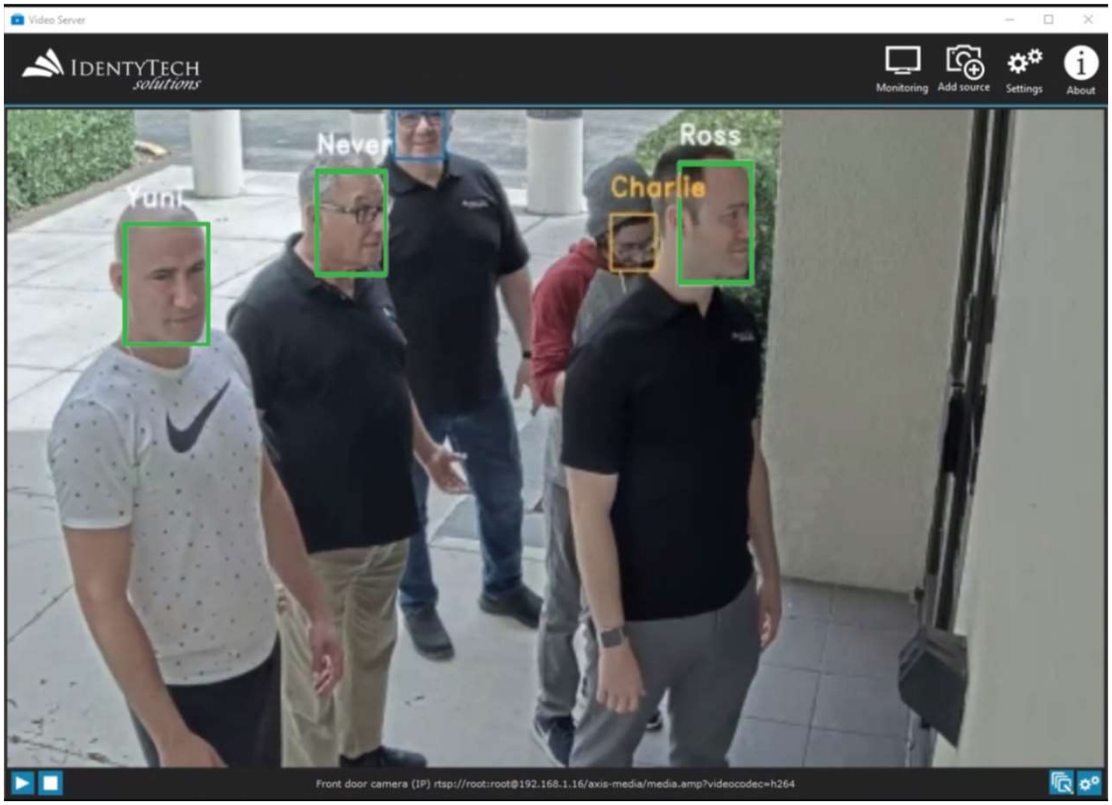
Video Server is a video processing used for on the fly detection and continuous tracking.

Video server utilizes the following features:

- Face detection
- Face alignment
- Real Time monitoring and Tracking
- Spoofing prevention
- Video streams management

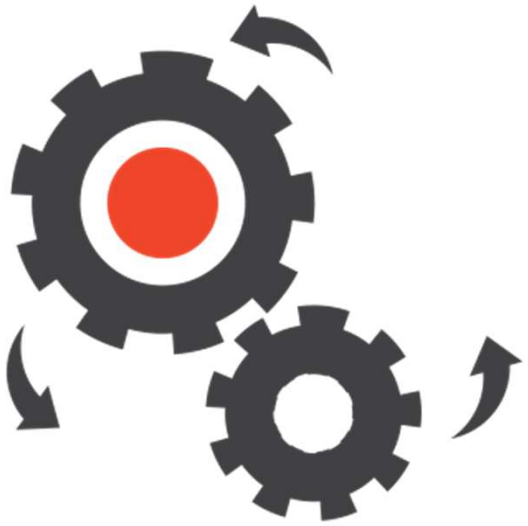
Video server provides a color feedback :

- Green → found
- Red → Not found
- Orange →
- Blue → Tracking
- Yellow → Invalid angles



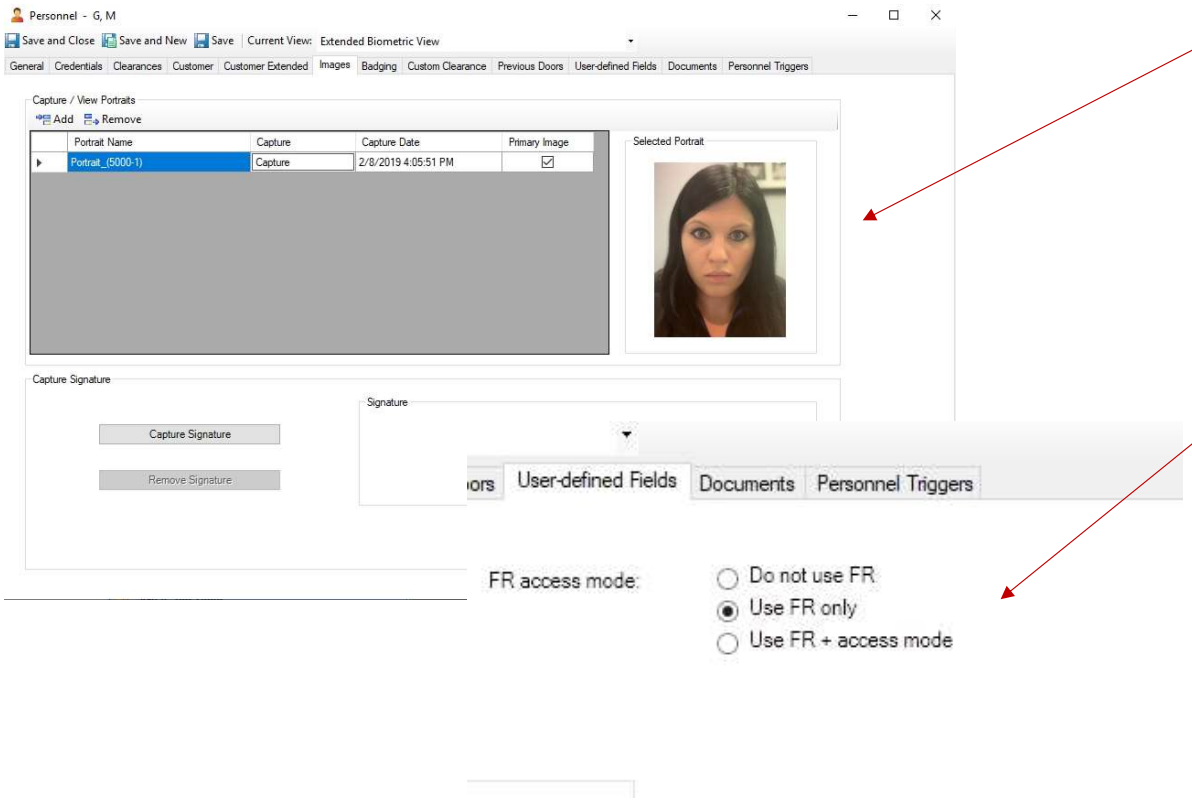
Matching engine

- AI Based algorithms for best performance.
- Multiple matching engines available
- Ultra-fast GPU powered backend face recognition platform with extremely low latency
- Can be hosted on the cloud



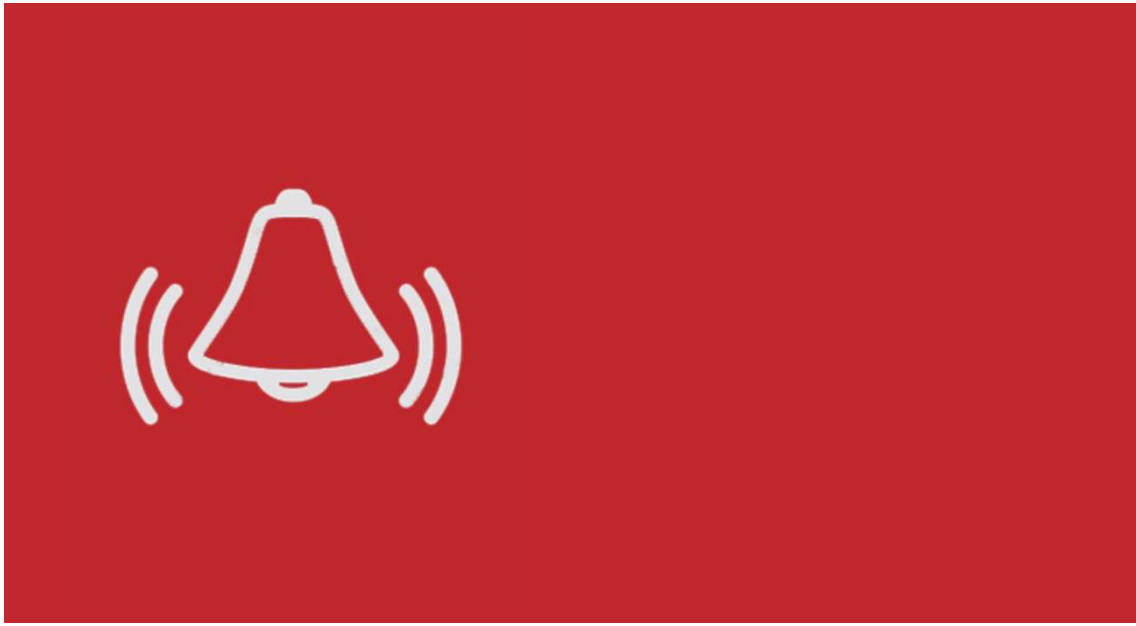
Personnel management - Facial recognition

Easy enrollment



- Primary personnel image is imported to the facial recognition engine automatically upon saving of the personnel record
- Full upload of existing primary images will occur upon integration- no need for additional enrollment if photo are of minimum quality.
- Facial recognition can be used as a single credential for authentication or as combined authentication with any of the IDT terminals utilizing finger, palm vein, card or pin code.

Event monitoring



IdentyTech™ Integration with C•CURE 9000 - Event monitoring

Event Monitoring allows the IdentyTech biometric readers to send much more data to your CCURE Monitoring application than what is allowed over the Weigand connection to the iSTAR. These messages are sent from the reader over TCP/IP using Port 7002. A large majority of these messages are useful for keeping an audit of who was attempting to access the biometric reader but failed to authenticate.

The following events are displayed after receiving them from the iSTAR controllers:

Admission events:

- Admitted
- Rejected
- User not found
- Biometrics not presented

IdentyTech™ Integration with C•CURE 9000 - Event monitoring

The following events are displayed after receiving them from the reader through TCP/IP to the CCURE Server.

Access Denied events

- Card Not Active
- User Not Found
- No access permissions
- Invalid Card
- Invalid PIN
- Invalid Credential
- Finger not presented
- Palm not presented
- No additional credential
- Spoof Alert

IdentyTech™ Integration with C•CURE 9000 - Event monitoring

Admission events: Access granted, Access denied, User not found & No biometrics presented

9/10/2015 5:00:54 PM	Admitted 'G., Marina' at 'Wallmount door' (IN)
9/10/2015 5:01:14 PM	Rejected (Clearance) 'Dafni, Eyal'
9/10/2015 5:01:24 PM	Rejected 'User, Not found'
9/10/2015 5:01:37 PM	Rejected 'Biometrics, Not presented'

User download events: Adding, Updating, Deleting & Users Synchronization

9/9/2015 6:11:53 PM	Action: 'Delete' was processed on reader: 'Sapphire (1C:FE:A7:FF:F1:64)', for personnel object: 'Eyal Dafni (5007)' with status: 'Success'.
9/9/2015 6:11:07 PM	Action: 'Synchronization' was processed on reader: 'Sapphire (1C:FE:A7:FF:F1:64)', for personnel object: 'All personnel records' with status: 'Success'.
9/9/2015 6:14:23 PM	Action: 'Update' was processed on reader: 'Sapphire (1C:FE:A7:FF:F1:64)', for personnel object: 'Marina G (5021)' with status: 'Success'.
9/9/2015 6:14:23 PM	Action: 'Update' was processed on reader: 'Wallmount (1C:FE:A7:FF:F1:BE)', for personnel object: 'Marina G (5021)' with status: 'Success'.
9/9/2015 6:11:54 PM	Action: 'Update' was processed on reader: 'None. Reason: no related reders detected. Check personnel record has a valid clearance assigned.', for personnel object: 'Eyal Dafni (5007)' with status: 'Fail'.

Facial recognition events

2/13/2019 6:13:21 PM	Action: 'Delete' was processed on reader: 'Reader 1 - MiniMoac (1C:FE:A7:FE:FB:9D)', for personnel object: 'Ross Logan (5005)' with status: 'Fail'.
2/13/2019 6:13:22 PM	Action: 'Update' was processed on reader: 'Reader 1 - MiniMoac (1C:FE:A7:FE:FB:9D)', for personnel object: 'Ross Logan (5005)' with status: 'Fail'.
2/13/2019 6:14:16 PM	Action: 'Status' was processed on reader: 'Reader 1 - MiniMoac (1C:FE:A7:FE:FB:9D)', for personnel object: 'User: M G(ID: 5000)Mode: Facial recognition' with status: 'Success'.
2/13/2019 6:14:57 PM	Action: 'Status' was processed on reader: 'Reader 1 - MiniMoac (1C:FE:A7:FE:FB:9D)', for personnel object: 'User: Ephram Yeashoua(ID: 5003)Mode: Facial recognition' with status: 'Success'.
2/13/2019 6:15:07 PM	Action: 'Status' was processed on reader: 'Reader 1 - MiniMoac (1C:FE:A7:FE:FB:9D)', for personnel object: 'User: M G(ID: 5000)Mode: Facial recognition' with status: 'Success'.

IdentyTech™ Integration with C•CURE 9000 - Event monitoring

Spoof notifications events

9/9/2015 6:09:31 PM	Message: 'Spoof' was recieved from reader: 'Wallmount (1C:FE:A7:FF:F1:BE)', with status: 'Spoof Alert'.

Reader Input events monitoring: Door status, Fire alarm, Exit push button, Breaking glass

9/9/2015 6:08:09 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 4 (FA) Alarmed'.
9/9/2015 6:08:15 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 4 (FA) Secured'.
9/9/2015 6:08:21 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 1 (DS) Open'.
9/9/2015 6:08:21 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 3 (BG) Alarmed'.
9/9/2015 6:08:22 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 3 (BG) Secured'.
9/9/2015 6:08:32 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 1 (DS) Closed'.
9/9/2015 6:08:45 PM	Message: 'Input' was recieved from reader: 'Sapphire reader (1C:FE:A7:FF:F1:64)', with status: 'Input 2 (EPB) Pressed'.