



# Face4 Lookout System

A Face4 Systems Inc. Product

## FLS face surveillance workflow:

- **Image Capture**
- **Face Detection, Tracking**
- **Matching Against Watchlists**
- **Alert Adjudication and Management**
- **Mobile Alert**

## FLS Utilities:

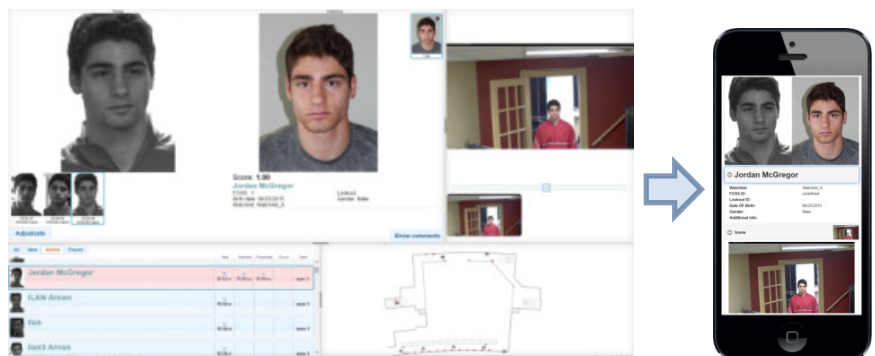
- **Watchlist Management**
- **Reports and Audit Trail**

## Overview

The Face4 Lookout System (FLS) implements face recognition technology for surveillance applications. The FLS can be used to find and detect persons of interest within a monitored area, whether stationary, moving, or in a crowd. The system uses multiple cameras that are specifically suited and strategically located for face recognition. The FLS is scalable to any size deployment for number of cameras, person traffic, and watchlist size.

The FLS is built using a web services architecture making it modular and easy to deploy. Thin client web applications mean no installation on client machines or mobile devices. A centralized alert service allows for central adjudication of alerts, while clients can subscribe to receive alert broadcasts based on custom rules.

Face4 Systems provides professional services to assess an organization's business requirements and in providing deployment expertise and training. This includes analysis of environment and person flow, design of capture zones and camera positioning, design of lighting, selection of cameras and optics, and provision of custom mounting hardware to suit a given deployment.



## Features and Benefits

### Cameras

- High resolution for face recognition performance
- Monochrome for improved sensitivity and infrared compatibility
- High frame rate for moving persons
- Face based auto-exposure

### Face Detection and Tracking

- Detects multiple faces in each frame
- Tracking of individuals across cameras eliminates redundant alerts

### Alert Adjudication and Management

- Alert adjudication and forwarding eliminates false matches to field officers
- Graphical adjudication tools
- Color scene video to assist investigation
- Camera mapping provides alert location

### Mobile Alerting

- Provides necessary alert information to find individual of interest
- Receives only adjudicated alerts to ensure no false matches in the field
- Option to bypass adjudication process
- Supports any mobile or tablet device with web browser

### Watchlist Management

- Live or file image enrollment
- Individual and batch enrollment
- Customizable demographic data
- Full watchlist search and update utility

### Reports and Audit Trail

- Advanced alert search and reporting utility based on time, camera, watchlist, or name
- Audit trail of all user transactions

- Demographic statistics available for age, gender, ethnicity, and person counting

### Existing Surveillance Systems

- Supports inclusion of CCTV surveillance video feeds associated with face capture cameras to compliment face recognition alert

### Face Recognition Performance

- Face recognition algorithm top tier ranked by NIST since 2002

### Architecture

- Web service architecture for easy management and deployment
- Web applications require no client side installation
- Scalable to support any number of cameras, traffic, and watchlist size
- Branch topology and distributed processing simplifies large deployments

### Alert Subscription

- Customized alert subscription based on cameras, watchlists, and names
- Supports multiple location and agency deployment using centralized matching and adjudication

### Security and Privacy

- User authentication and roles based on Windows Active Directory
- Encryption of personal identifying information to protect privacy
- Secure service connections using SSL

### Professional Services

- Face4 Systems provides expertise for environment assessment, solution integration, deployment, training and support