Introduction

This document briefly introduces the new functions and features in the following HikCentral version:

- HikCentral Professional v1.4.2, updated from HikCentral v1.3.2

Global Updates

1) General

a) The product name was changed from HikCentral to HikCentral Professional.
b) The system database PostgreSQL version has been upgraded to 9.6.10.
c) The Control Client is now available in 64-bit.
d) The full installation package contains the 64-bit Control Client and not the 32-bit Control Client.
e) Service Manager logs can be downloaded in the Control Client.
f) During installation, the running environment is displayed and compared with recommendations.
g) The License Agreement is available on the About Page in the Control and Web clients.

2) Video

a) The facial recognition server with firmware v1.2 is now supported.
b) The dock station, DS-MH4172I, for body worn cameras is now supported.
c) Centralized evidence collection is a new feature. Video evidence and case notes can be saved to a SFTP server. HikCentral clients can search, update and download evidence.
d) Video download rate can be limited with NVRs having firmware v4.1.50 or later.
e) Heat map analysis is supported with second generation fisheye cameras (fisheye camera firmware v5.5.70 or later and NVR firmware v4.21.000 or later).
f) Pathway analysis is supported for second generation fisheye cameras (firmware v5.5.71 or later). This function is not supported if the camera is accessed via an NVR.
g) The accessing of people counting, ANPR, and heat map cameras via NVR (firmware v4.21.000 or later) is supported. The system can obtain data starting from seven days prior to adding the device. The system can also obtain the data recorded during a disconnected period after re-connecting to the device.
h) Devices that are not in the same time zone as the SYS server can now be accessed.
i) Newly added event and alarm types include dock station online/offline, device armed/arming failed, channel armed/arming failed, and HDD exception.

3) Access Control

a) The maximum number of manageable access points has been increased to 512.
b) Newly supported device models include the DS-K2600 series, DS-K1T607 series, and DS-K1T501SF, DS-K1T500S.
c) Newly added event and alarm types include Multi-Door Interlocking and Calling Surveillance Center.
d) Newly added video access control terminal camera management features include the following: importing to area, live view, recording settings, playback, etc.
e) Fixed: Duress code, super password, and dismiss code would fail when door settings were copied to other doors.

f) The video access control terminal configuration has been changed:
   i) The door and camera are associated by default, and the user can remove this association.
   ii) It is no longer necessary to configure a storage schedule for the camera that is associated with the door when the video intercom alarm is configured with the door.

4) Vehicle
   a) Vehicles without license plates and the direction in which they are moving can be recognized using the 7-series ANPR cameras.
   b) Vehicle information, including the license plate effective period, vehicle make, model, and color can be set in the Control and Mobile clients when adding the vehicle to the vehicle list.

5) Monitoring
   a) Video files and statistics (i.e. people counting, vehicle information) are preserved after network camera hardware is replaced (network camera should be directly connected to the client).
   b) Playback from a NVR N+1 hot spare is supported.
   c) The client can switch to software decoding when hardware decoding is not supported (fisheye expansion in live view and playback).
   d) The display of system-connected network camera channel type has been optimized.

6) System
   a) The system can be accessed by domain name or IP address if the server domain name is set to the WAN access IP address.
   b) The license plate effective period is subject to the server’s time zone.
   c) Fixed: The base license target duplicate function modules were not usable.
   d) Error code descriptions have been improved.

Web Client Updates

1) Physical View
   a) The N+1 hot spare is supported for NVR firmware v3.1.0 or later.
   b) NVRs with firmware v4.21.000 or later are accessible via the EHome 5.0 protocol.
   c) An NVR can be added to the system as a Recording Server for picture storage.
   d) New copy-back feature copies existing video records on NVRs and cameras from a user defined period to a Hybrid SAN (v2.3.4-3). The Hybrid SAN video expiration can also be set.
   e) An Application Data Server (ADS) can be added for distributed deployment and increased capabilities.
   f) The facial recognition server is supported.
2) Event and Alarm
   a) Active controls for events and alarms, as well as reactivation thresholds, can be set. Events/alarms that are triggered within the same threshold will be regarded as one event/alarm.
   b) The alarm arming schedule is event based. The auto-end arming function can be enabled and set to the specified time to automatically end arming for this alarm, even if the end event does not occur.

3) Access Control
   a) The device is accessible via the EHome 5.0 protocol. Supported functions include device adding, access point settings, access control application settings, etc.
   b) Door access forbidden schedule and multi-door interlocking settings have been added for access control applications.
   c) Device time zone settings have been added.
   d) Firmware has been upgraded for devices and card readers.
   e) Forbidden schedule access settings have been added when editing access point parameters.
   f) Forbidden schedule access settings have been added when copying access point settings to other access points.
   g) Multi-door interlocking settings have been added.
   h) Access point entry and exit counting rule settings have been added.

4) Time and Attendance
   a) Up to 10,000 people can be managed.
   b) Attendance record calculations for different time zones are now supported.
   c) The filtering of attendance results by attendance group name is now supported.
   d) When exporting attendance records, an exported file can be compressed into a ZIP package if the exported file is larger than 50 MB.
   e) The scheduled automatic sending of attendance reports is now supported.
   f) Fixed: The attendance records were displayed as Absent.

5) Person Management
   a) Reporting a lost card and canceling card loss are supported.
   b) Dual-frequency cards are supported.
   c) Person information can be imported from access control devices, including person and credential information.
   d) Cards can be issued in batch to a group of people when the numbers are sequential.
   e) Dock station group and login password can be set when adding a person.
   f) Up to 1,000,000 persons can be managed (50,000 for access control devices).
   g) Up to 250,000 credentials can be managed.
h) Person profiles can be stored in the database.

i) The template format for person importing has been changed to Excel.

j) Additional information can be added when importing and exporting person information in a batch.

k) Card operations are supported when importing person information in a batch.

l) Dock station group settings are supported when importing person information in a batch.

m) The searching and filtering of persons by additional information is supported.

n) The deleting of persons after filtering by certain conditions is supported.

o) Time zone and effective card period for a person are now supported.

p) The linking of person profiles in the AD domain with the profile found in the system is now supported.

q) Up to 256 bytes are available for a person’s name.

r) Person profiles can be collected from devices.

s) Fingerprint duplicate checking is more accurate.

t) Profile uploading has been optimized. The issue where device profiles failed due to picture compression has been solved.

u) The profile matching rule has been optimized.

6) System

a) The first day of the week can be set and is used in the reports.

b) The temperature unit can be set to Celsius, Fahrenheit or Kelvin.

c) Data transmissions between servers can be encrypted in the Transfer Protocol settings.

d) The health check frequency of the system’s resources is adjustable.

e) The database password can be viewed.

f) The picture downloading port can be configured for WAN when using an NVR as a Recording Server.

7) Role and Users

a) Evidence Collection, Camera Settings in License, Person Access and Close Auxiliary Screen have been added to the role’s permissions.

b) A permission schedule has been added, and supports the assignment of a permission schedule to different roles, in order to define the valid time period for different days in one week.

8) General

a) When adding a Hik-Connect device, the New Device option will add it to Hik-Connect and HikCentral.

b) Configured presets and patrols become highlighted.

c) The fisheye dewarping user interface in the Web Client has been edited.

d) The encoding device’s recording schedule can be obtained when importing from the Excel format.

e) All access points can have event linkages.
Control Client Updates

1) Monitoring
   a) Video tags can be added during live view.
   b) Maps can be viewed in a window in live view and playback.
   c) An option to diagnose the problem is provided when live view or playback fail.
   d) The constant bitrate configured in the connected NVR is now displayed in the Camera Status section.
   e) The minimum auto-switch interval has been changed to five seconds.
   f) The maximum playback speed has been changed to 16x.
   g) The tag types have been optimized to event triggered tag, manually added tag, and others. Tagged videos can be searched for by tag type.
   h) The saved View configuration process has been optimized. The cameras in the resource list can be added directly to the View and the View can be saved.

2) Access Control
   a) Access Point entry and exit counting can calculate the number of people in a certain region.
   b) Anti-passback violations can be forgiven in history and real-time.
   c) The turnstile access direction (entering or exiting) is displayed.
   d) Video access control terminals are supported with call answering, voice talk and door unlocking.
   e) Real-time access point statuses are shown on the map.
   f) User can set all access points to remain unlocked.
   g) Access records can be searched using device time or client time.
   h) Card number and profile have been added to the real-time access record person information section.

3) Smart Wall (Graphics Card)
   a) The client workstation’s video outputs (Smart Walls) can display the following:
      (1) All contents currently displayed in live view.
      (2) The live view of one camera.
      (3) The live view of all cameras in one area.
      (4) The E-map and GIS map.
      (5) The view and view group.
      (6) The alarm related videos.
      (7) The Health Monitoring page.

4) Smart Wall (Decoding Device)
   a) When the window is locked, operations such as window division, sub-window enlarging and restoring, displaying of live view on the smart wall, etc., are not allowed.
b) When the window is in playback mode, operations such as window division inclusion, sub-window enlarging and restoring, and view switching, are not allowed.

c) Live views from video access control terminals can be displayed on the smart wall.

d) The DS-6500UD-T series decoder is newly supported.

e) The DS-1100KI network keyboard (v3.1.1, v4.0, and v4.1 firmware) is newly supported.

f) Images from devices that were added using DDNS can be displayed on the smart wall.

g) The DS-1600KI (v3.2) network keyboard can be connected and used to display video playback on the Smart Wall. Playback speed control is not supported.

h) Control Client smart wall function is optimized when user permissions are configured in the Web Client.

i) Fixed: When the decoding device is offline and the service is restarted, the linkage between the window and decoding output would be lost. Now, the linkage recovers with the device connection.

j) Fixed: Access would be denied when trying to switch views.

k) Fixed: Displaying channel-zero on the smart wall would fail when the client used direct device access.

l) Fixed: Changing decoding output resolution would fail when decoders were cascaded with the DS-C10S and DS-C10S-T smart wall controllers.

m) Fixed: Newly-added windows would display the image of the divided window.

n) Fixed: Other bugs.

5) Vehicle Search

a) Vehicle information, including the license plate effective period, vehicle make, model, and color will be displayed in the ANPR alarm window and in linkage emails.

b) Fuzzy matching rules have been added for license plate searching, and they can be set in the System module.

6) Alarm

a) Up to 100 alarms can be acknowledge in batch.

b) Temperature pre-alarm has been added as an alarm type for thermal imaging cameras.

c) Six alarm types have been added for traffic cameras, and include Illegal Parking, Wrong-Way Driving, Driving in the Left (HOV) Lane, Illegal Lane Change, Motor Vehicle in Non-Motor Vehicle Lane, and Illegal U-Turns.

d) Face match information can be displayed in the face comparison alarm linkage emails.

e) Audio and pop-up windows can be enabled for all alarms.

7) General

a) The arming status can be displayed on the Health Monitoring page.

b) The Control Client’s auto-refresh interval with the server for Health Monitoring can be set to intervals from 30 seconds to 15 minutes.

c) Scheduled downloading in the Download Center is supported.
**Mobile Client Updates**

1) General
   
   a) The iOS mobile client will play an audible alert when receiving an alarm if the mobile device’s audio is on, regardless of whether the app is running in the background or foreground.

   b) Sub-areas are supported in the resource tree.

   c) The simultaneous playing of live videos or video footage from multiple resources is supported.

   d) Private Views and Public Views are supported.

   e) The HD version’s Live View and Playback user interface pages are consistent with the phone version.

   f) Optimized the logic of remembering your password.

**Remarks**

- Hikvision reserves the right to change, alter, or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The Hikvision firmware may contain defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.
- Hikvision is not liable for any typing or printing errors.

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d) Firmware information has been added to the encoding device’s camera details page.

e) Warnings have been added for Recording Server CPU and RAM usage above 80% and 90%.

f) Up to 30,000 card-swipe records can be exported at a time.

g) The device arming mode has been changed to arming by event type. Only events and alarms configured in the system can be armed.