General Introduction of PUSH SDK

Objective

This document presents the prototype design requirements of customers and developers so as to guide the firmware and server development engineers through the software development.

Design Principle

This document helps development engineers optimize and add new features to the original PUSH SDK protocol and servers including the ADMS, ZKTime8.0, and ZKECO.

Terminology

Upload: Refers to the sending of data from the equipment to the server.

Download: Refers to the downloading of data from the server to the equipment.

System Structure

Servers: Support ADMS, ZKNET, ZKTime7.0, andAtt2008.

Software indexes:

- Support current mainstream firmware with black-and-white, 3.5-inch, 3-inch, or 8-inch screens.
- Provide standardized and optimized access interfaces on the server.
- Provide database access interfaces that adapt to different firmware.
- Support all time zones including half-hour time zones.
- Support automatic uploading of attendance records.
- Support automatic uploading of attendance photos.
- Support automatic uploading of system logs.
- Support automatic uploading of modified/added user information including basic user information, fingerprints, and images of faces and fingerprints.
- Support automatic deleting of oldest data (the amount of deleted data is configurable) when attendance records or photos overflow.
- Support receiving notification commands (UDP command notification requires network support) on the server.
- Support delivering system commands such as the **ls** command from the server.
- Support checking equipment data updating conditions from the server.
- Support purging attendance records, attendance photos, and user information from the equipment.
- Support acquiring basic equipment information.
- Support setting equipment items.
- Support restarting the equipment.
- Support reloading equipment items.
- Support equipment unlocking.
- Support canceling alarm generation of the equipment.
- Support detecting and sending new data.

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- Support reading equipment files.

- Support downloading files from the server to the equipment (including firmware upgrading).

- Support downloading SMS messages from the server to the equipment.

- Support adding, modifying, or deleting user information and fingerprints of the equipment.

- Support registering user fingerprints (the facial recognition by machine is temporarily unavailable).

- Support domain name resolution.

- *Support the equipment access authentication mechanism.*

- *Support automatic correction of attendance data including attendance records and photos.*

- *Support setting unlocking combination and time segment of the equipment.*

- *Support downloading user photos from the server.*

- *Support uploading attendance records or photos within a specified duration from the server.*

- *Support querying basis user information exclusive of fingerprints and faces of the equipment.*

- *Support HTTPS.*

- *Support automatic uploading of fingerprint photos.*

Note: 1. In this document, all functions shown in bold and fonts are to be implemented in successive releases.