



**CENTRALIZED
ACCESS
CONTROL**



Introduction

KARA Centralized Access Control System is an initiative solution contribute to the efficiency and safety of the organizations by focusing intently on cardholder data flows and performing in-depth analytics based on the data. (CACS) will manage cardholder with the ability to have a full control of any existing ACS which will allow Organization to have a centralized interface for user management, access issuance, card issuance, report & log management, door control and alarm management. All this can be integrated with KARA Visitor management module (VMM) and can be customized by Kara Workflow management module (WMM) Lend a more professional appearance, enhance security and meet compliance mandates for the collection and auditing of cardholder transactions.

Usage

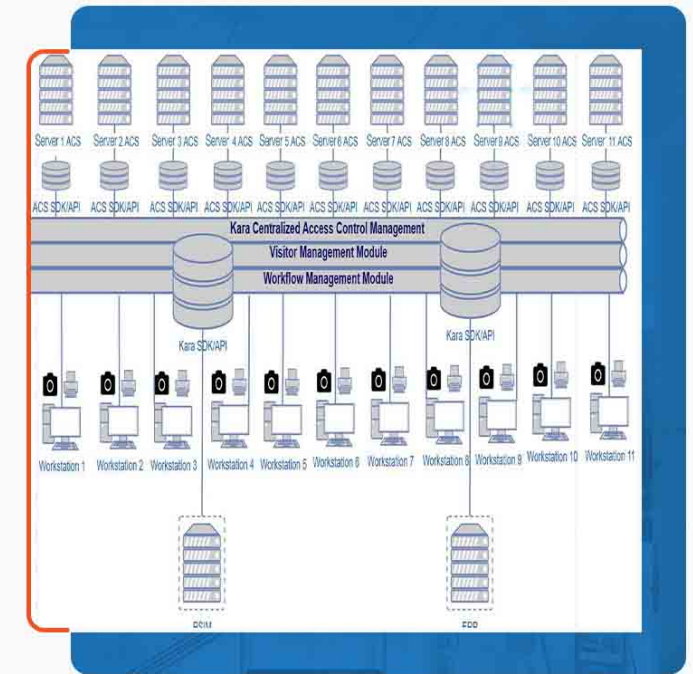
For several years, pen-and-paper based methods have been the staple method of recording Cardholder at organizations. These consisted of manually maintained books, badges, which could determine information such as a Cardholder name and their purpose of visit, as well as address.

In the modern era, CACS have evolved to perform a plethora of functions. Visitor forms are now capable of being digitally filled and stored remotely on the web store. Devices with cameras can capture photographs while providing facial recognition analysis for increased security. Data analysis helps in determining the pain points for visitors and increasing efficiency which will be applicable through Kara VMM.

Kara CACS allow organization to manage existing and new ACS through unified interface with a full control of user management, access issuance, card issuance, report & log management, door control and alarm management. That unique feature will allow organization to operate all it's buldings from the command control center from one single interface. In addition Kara CACS will be integrated with PSIM and will expose data information to ERP Systems, such as In/out data information of card holders.

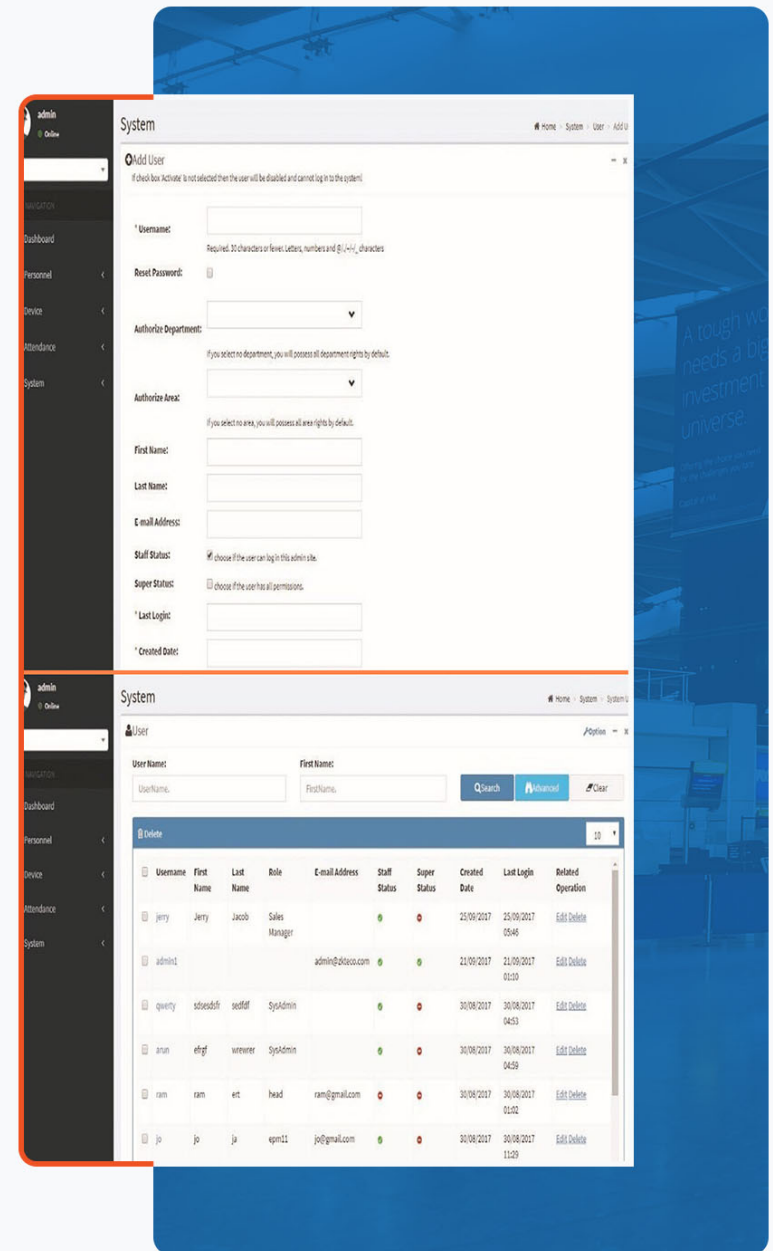
Kara CACS integrates with access control software ,PSIM ,scanner and face capture camera which allows visitor movements to be tracked and entry to sensitive areas restricted at all times. This integration becomes necessary when visitors & contractors are allowed free access to a facility and are not always escorted by a host. In addition visitors can receive alerts in case of emergency by mail or SMS by using Email server and SMS gateway services.

Kara CACS centralizes communications and interactions with third party systems, printers, access controls and other devices using messaging in standard formats or using database. Leverage features such as registration, request tracking, file management, advanced reports and customizable databases that locate bottlenecks help make continuous improvements to your buiseness processes.



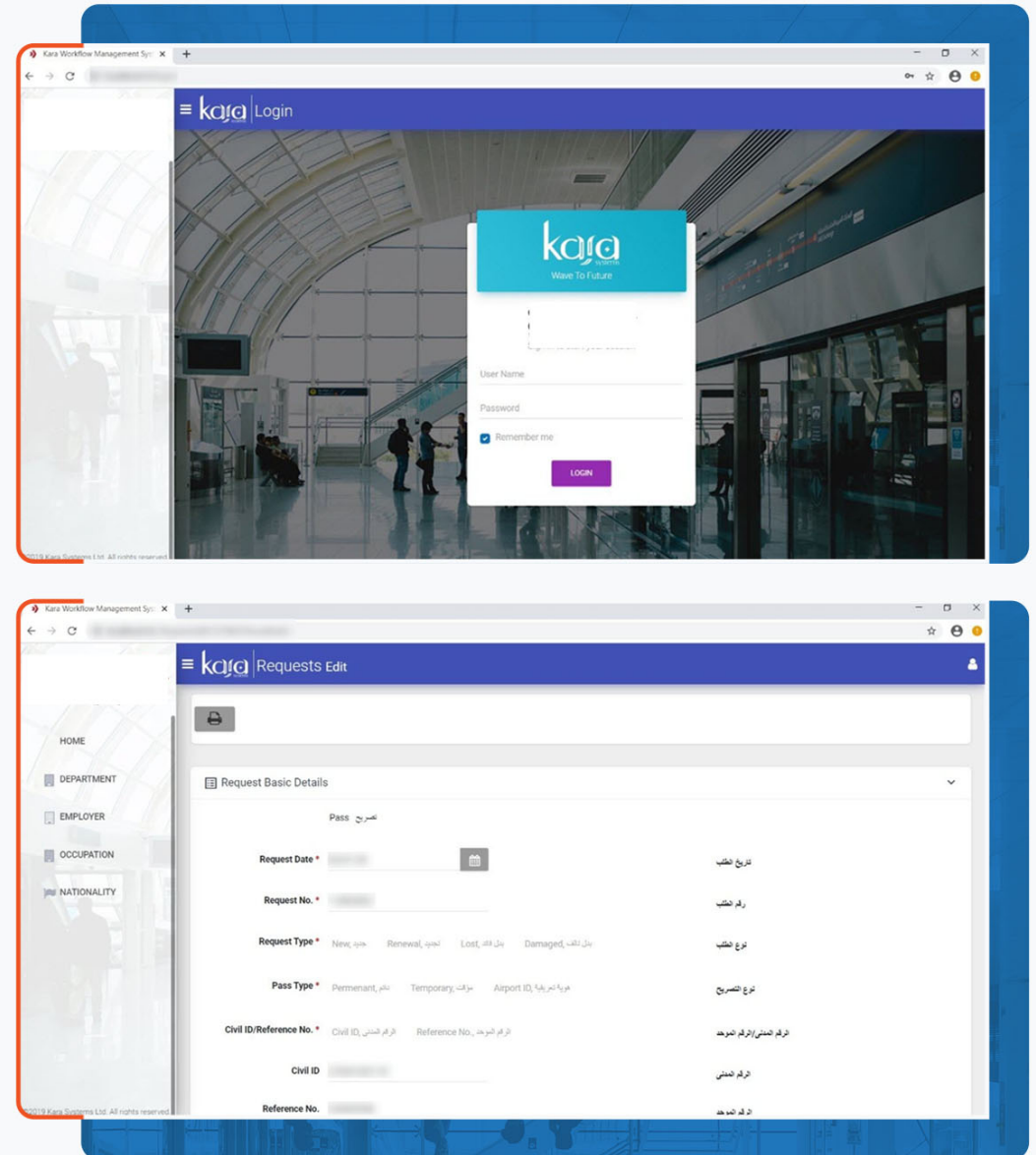
Solution

- User Management – Complete user management functionalities Add, Edit, Delete users, assign different privileges for each user ...etc.
- Access Cards Issuance – Centralized access card issuance, you can issue access card that will be valid to use in all different access control systems across organization buildings.
- Access Rights Management - Allow entry and exit of only authorized personnel by use of access controlled gate/doors. Smart Card Readers will be used for entry and exit control depending upon the security requirements of the area. The readers at each location will be connected to access controller and the controller in turn will be integrated with centralized access control system for recording to database.
- Access Restrictions – Based on the seamless integration with ACS, KARA centralized access control management system will restrict visitors to enter un-allowed zones.
- Photo capture, ID/Passport scanner and processing - Recording a cardholder's photo and scanned ID/Passport for immediate use is critical in some entities. This facilitates immediate ID verification, for security purposes.
- Access Control integration - Kara CACS has a seamless integration with ACS to import/Query all the required data from Kara CACS/VMM to ACS and vice versa.



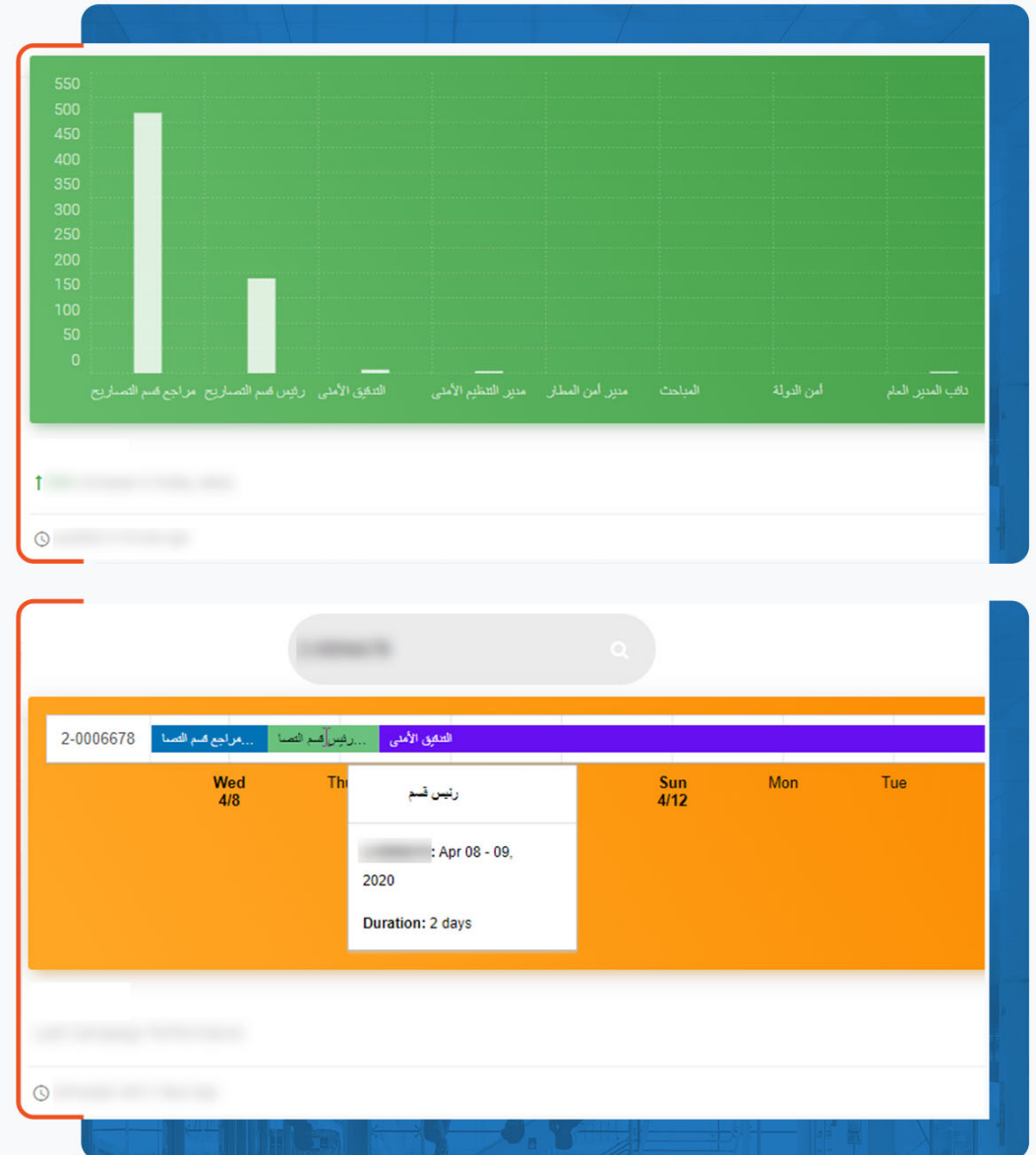
Features

- Secure Web portal is an all-in-one solution that enables secure use of Web 2.0 with real time multi-layered protection against web-borne malware, largest application coverage and granular application control, centralized intuitive management. It is built with the most powerful combination of Web security.
- Secure Authentication mechanism follows best practices of latest world security standards which includes:
 - JSON Web Token (JWT) which is an open standard (RFC 7519) that defines a compact and self-contained way for securely transmitting information between parties as a JSON object. This information can be verified and trusted because it is digitally signed. JWTs can be signed using a secret (with the HMAC algorithm) or a public/private key pair using RSA or ECDSA.
 - AntiForgeryTokens to Prevent Cross-Site Request Forgery (CSRF) Attacks.
 - Parameterized queries is to avoid SQL injection attacks.
 - ASP.NET Core 3 Forms Authentication.
- Streamlined processes and reduction of manual entry.
- SQL Server Database Information storage – Storing on SQL Server provides enhanced security and ensures that it can be accessed without degradation loss, while also increasing the security of sensitive cardholders information.



Additional Features

- Benchmarks for each stage that can help guide your team's efforts, helping manage time more effectively. By identifying the most expensive drains, you can address them and improve processes.
- Emergency Alerts - Alert all your personals with instant notifications in case of any emergency. Or add a list of people you want to alert in case of an emergency. Our system will send them SMS alerts if any emergency alert is made.
- ERP & other third party systems integration - Kara CACS has a complete interface of all required functions and properties exposed in a standard format (JSON/XML) included in a rich SDK/API (RESTful) that facilitates communication with any ERP system or any other third party systems.
- Multilingual system – users often work at complexes, but not everyone has English as their first and strongest language. In such cases, it's paramount that all visitor management tools will give the option to choose between Arabic or English interfaces.

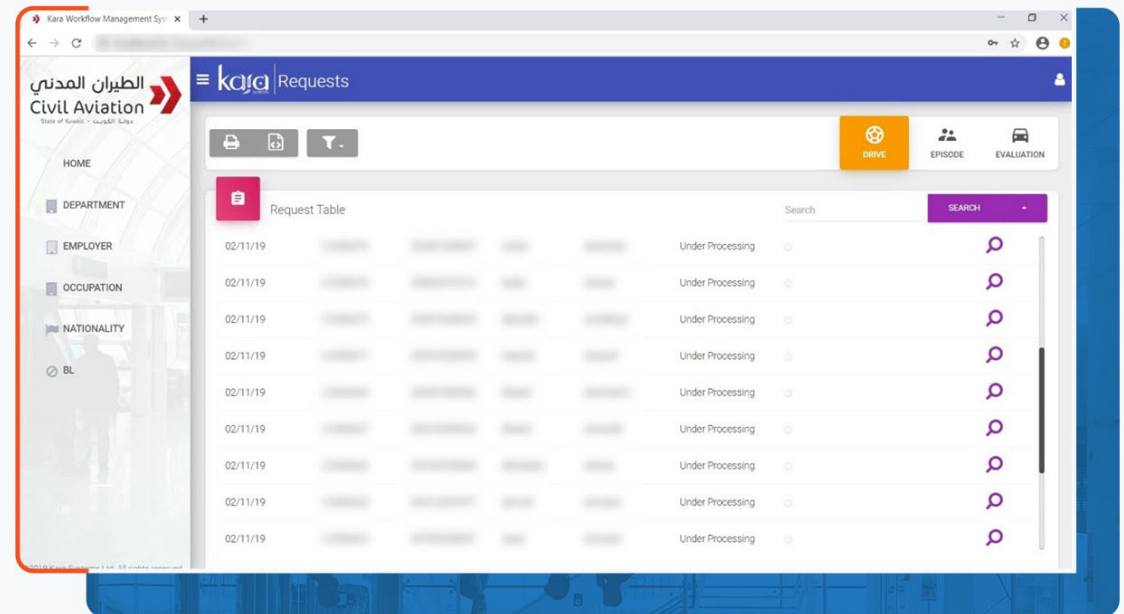


Easy integration

- PSIM integration – Based on the PSIM Integration, KARA centralized access control system trigger an alert to mobile and email id in different scenarios based on user configuration.

The Alarm raised at PSIM application in case of any banned visitor check-in the facility or any different scenarios based on user configuration.

- Access Control integration – Kara centralized access control system has a seamless integration with ACS through API/SDK and Database to import all the required data from Kara CACS to ACS and vice versa.



Qualifications

We have successfully delivered our services to businesses worldwide facing the ever-changing technological challenges of our clients and providing them with scalable solutions.

Our specialists are equipped to create a dynamic intelligent system to facilitate your work, develop truly functional software to control your business processes, adding functionality and effectiveness to your system. Our proven strategy and attention to details applied to our technical expertise ensures our customers robust and cost-effective solutions.

Our solution is built on top of a solid software development engine which produce many benefits as it's a fully customized software. Customizable solutions are great for your business because they fill your needs perfectly. You don't have to overpay for modules that you can't remove or replace. In the final application or platform version, only the necessary functions will remain.



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