Description of Smart Wi-Fi integration with a mobile application.

Integration with IOS and Android mobile application

Registering users in the Smart Wi-Fi API

To register users, the mobile application needs to generate data in JSON format andsend it using the POST method to CRM

For a pilot project, it is proposed to use a test address: https://api.smartregion.online/registration_by_mac

By agreement, the address provided by the Customer may be used for the Smart Wi-Fievent processing service.

The request header must include:

accept: application/json

Content-Type: application/json

For authorization, it is necessary to pass in the header, like X-API-KEY, the "access token"generated when registering the project, for example:

X-API-KEY: HERE-ACCESS-TOKEN

Example of transmitted data in JSON format: {

```
"project_id": 18,
"chaneel_id": 46,
"user_id": "79260000000",
"mac":"00:00:00:00:00:00",
"phone_number": "79260000000"
```

}

Description:

project_id - The project ID registered with the access token. channel_id - Channel ID registered with the access token. user_id – User identifier, mustbe unique in the channel, this identifier is returned in events, it can be firebaseid or another identifier by which the user can be found in the CRM database.

The API will respond with an HTTP code.

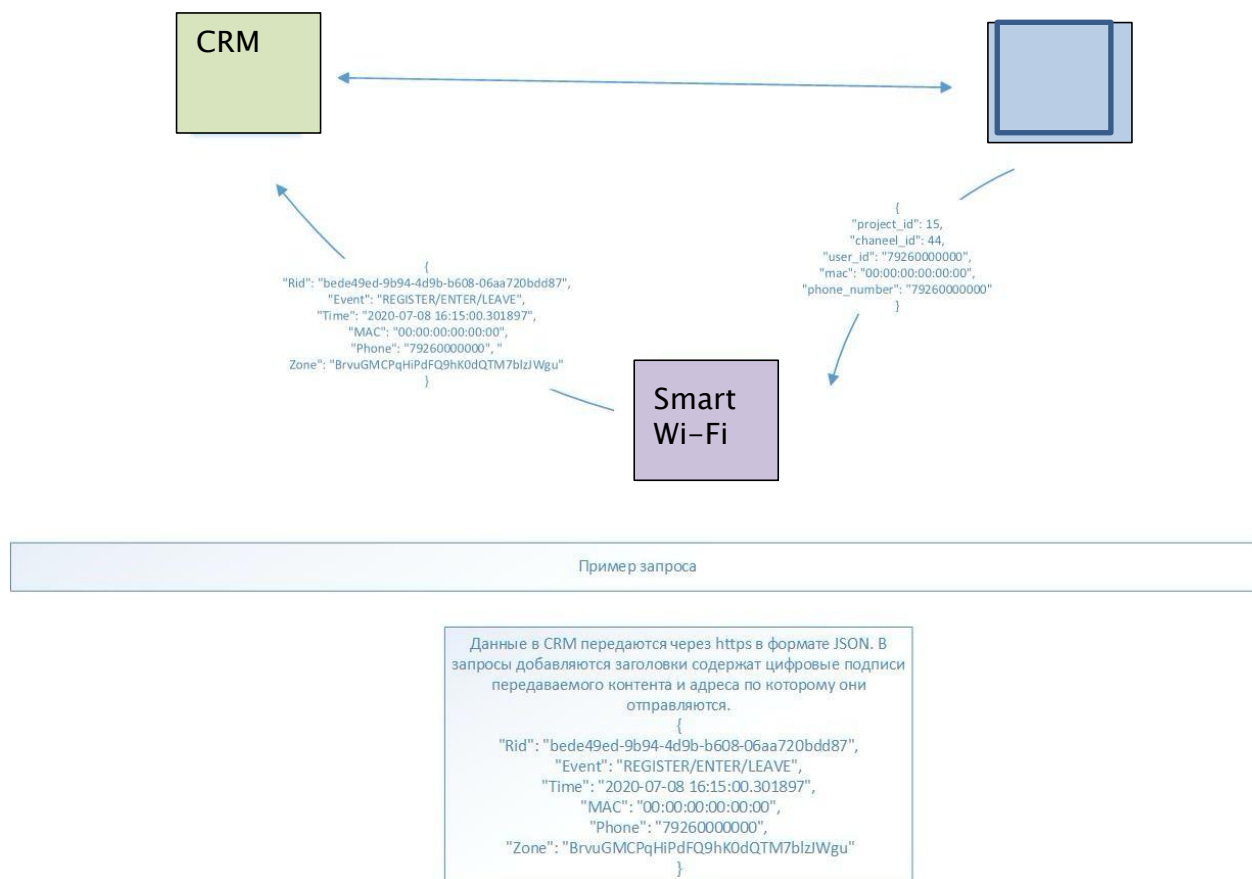Basic response codes:

201 – User successfully registered

200 – User registration successfully updated

404 – Specifiedchannel or project not found

403 – Authorizationerror

400 – Missing or error in required parameter

Scheme of interaction between Smart Wi-Fi, CRM and Mobile application

CRM

{
"project_id": 15,
"chaneel_id": 44,
"user_id": "79260000000",
"mac": "00:00:00:00:00:00",
"phone_number": "79260000000"
}

{
"Rid": "bede49ed-9b94-4d9b-b608-06aa720bdd87",
"Event": "REGISTER/ENTER/LEAVE",
"Time": "2020-07-08 16:15:00.301897",
"MAC": "00:00:00:00:00:00",
"Phone": "79260000000", "
Zone": "BrvuGMCPqHiPdFQ9hK0dQTM7blzJWgu"
}

Smart Wi–Fi

Пример запроса

Данные в CRM передаются через https в формате JSON. В запросы добавляются заголовки содержат цифровые подписи передаваемого контента и адреса по которому они отправляются.

{
"Rid": "bede49ed-9b94-4d9b-b608-06aa720bdd87",
"Event": "REGISTER/ENTER/LEAVE",
"Time": "2020-07-08 16:15:00.301897",
"MAC": "00:00:00:00:00:00",
"Phone": "79260000000",
"Zone": "BrvuGMCPqHiPdFQ9hK0dQTM7blzJWgu"
}

Scope of protection of the presented algorithms

Number	Protection area
RF 2557005	The patent protects a method for identifying the user of a mobileapplication by combining the application identifier with the MAC address of the user's device.
RF 2593748	The patent protects a method for personalizing an identifier tosend a push message to a user using the MAC address of the user's device.
RF 2654854	This invention solves the problem of personalizing an application ID based on the device's MAC address using the browser's local storage (such as a cookie)
RF 2722234	The patent protects the method of designating a native browser from the Wi-Fi authorization page (CNA) and launching a native mobile application from the Wi-Fi authorization page.
RF 2729969	This patent protects a method for identifying a Chatbot user bycombining the Chatbot ID with the MAC address of the user's device.