**How to use CA4K RESTful API – ver 1.0.6**

Use with CA4K 1.1.16.x or higher.

CA4K API is a framework that makes it easy to build HTTP services that reach a broad range of clients, including browsers and mobile devices. This API was built as a wrapper WebAPI form .NET CardAccess.API and returns mostly JSON data.

1. Once the API is installed, the API site will be shown as “CA4K RESTfulAPI” on IIS.
2. By default RESTful API will be setup to use port 8081.
3. All functions use Authorization.
4. First get the access\_token by calling the url http://<server ip>:8081/toke
	1. Body keys
		1. Username <- ca4k operator name
		2. Password <- ca4k operator password
		3. Grant\_type = password
5. Use the access\_token returned and token\_type = bearer to call all other functions.
6. Eg1: to get badgeinfo
	1. <http://localhost:8081/Badges/BadgeInfo?badge=1234&facility=0>
	2. Body keys
		1. Authorization = bearer XXXXXXXXXXXXXXXXXX… 🡨 is the access\_token return from token request call.
7. Eg2: Register to receive events using signalr.

@section scripts{

 @\*test signalr\*@

 @Scripts.Render("~/bundles/signalR")

<script src="/signalr/hubs"></script>

<script>

 $(function () {

 var alertHubService = $.connection.alertHubService;

 $.connection.hub.start().done(() => alertHubService.server.connect());

 alertHubService.client.alertReceived = function (sde) {

 console.log(sde);

 };

 alertHubService.client.hcsStatusReceived = function (message) {

 console.log(message);

 };

 });

</script>



