

DEXICON

Web service interface

- Retrieve / provide personal and vehicle master data
- Assign roles (authorizations) to persons / vehicles
- Retrieve / provide a person's attendance status
- Provide access, entry and time bookings
- RESTful web service using HTTPS and HTTP
- Unicode enabled

Time for security.

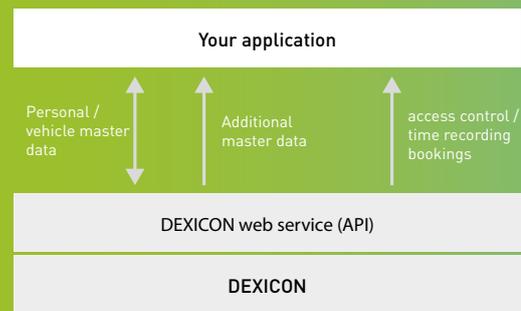


The DEXICON web service interface is a DEXICON add-on module that allows easy integration with other software systems via its API. An application that supports RESTful web services can use this API to provide personal and vehicle master data to DEXICON and retrieve various master data from DEXICON or even booking data from an access control or time recording system. Thanks to its architecture the interface works independently of the DEXICON version used.

The DEXICON web service interface (API) provides various endpoints to allow easy access to data from DEXICON.

Authentication may be required to access the DEXICON web service interface, and communication can be secured using HTTPS requests (recommended by PCS) while HTTP requests are also possible.

WEB SERVICE INTERFACE



Application examples

Hazard management systems

- Retrieve unauthorized bookings for centralized alarm triggering

Expand time management systems by access control

- Create personal master data including access authorizations retrieved via the web service beforehand

Facility management

- Retrieve attendances in access areas, e.g. to switch off lighting or turn down the heating when nobody is present any longer

Attendance tools

- Retrieve attendance in specified access areas

Emergency actions

- Retrieve who has and who hasn't yet logged in at an assembly point reader

Functionality overview

External software can take advantage of the following options via the API:

- Create and retrieve personal and vehicle master data, including transfer of 4 customer specific fields in the DEXICON master data
- Retrieve additional master data such as roles, access areas, time models, companies and doors
- Retrieve access, entry and time bookings
- Flag access and time bookings as "read" to avoid retrieving them several times from DEXICON
- Retrieve the attendance status of persons according to access control and time recording
- Set the attendance status
- Open a door connected to DEXICON

```
#-----
# Loads URLs of all persons of a source system
#-----
function Get-Persons {
    Param([string]$dexiconHost, [string]$sourceSys)
    [string[]]$persons = @()

    $downloadFrom = "{0}/persons/{1}" -f $dexiconHost,$sourceSys
    $wc = New-Object System.Net.WebClient
    $wc.Headers.Add("Accept", "text/uri-list")
    $wc.DownloadString($downloadFrom).Split("`r`n") | ForEach {
        if ( $_.StartsWith("/persons") ) {
            $persons = $persons + $_
        }
    }

    write $persons
}
}
```

The DEXICON web service interface supports Unicode for character encoding and can therefore be used internationally.

Read-only access to DEXICON data comes with the DEXICON basic license at no extra cost.

Integration example: VISIT visitor management system interface to DEXICON

System requirements

- DEXICON version 5.1 or higher



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