

Time & Space SDK



Introduction

Software Development Kit is the ultimate integration tool and has a special, strategic place in the Time&Space software portfolio. It allows software integrators and 3rd party solution developers to tap into the wealth of information available from Time&Space software suite. The SDK contains confidential technical information and is available to developers under conditions set out by the SDK Agreement.

Overview

Time&Space version 10 brings new, completely overhauled Software Development Kit based on web interfaces.

The SDK is divided into two separate API's one for the access control (Space API) and another for time & attendance (Time API).

Here are some highlights:

- ✓ **RESTful Interface**
Use standard HTTP CRUD calls which are programming language independent and the de-facto industry standard for interfacing with external applications. JSON data structures are returned to the caller.
- ✓ **Standard security**
Use HTTPS along with token based authentication to allow third party applications to operate and/or integrate with the Time & Space system.
- ✓ **Fully documented**
Both Time and Space APIs come with full documentation and HTTP call examples.
- ✓ **No limitations**
There are no limitations on the number of users, devices and calls you can make.

TIME API

The Time API provides employee related data and time calculations. The following entities are exposed:

1. Employees
2. Calendars
3. Events
4. Time Categories
5. Organizational Units
6. Schedules
7. Working Schemes
8. Custom Counters
9. Employee Calculations



This way, an external application can integrate with Time&Space master data and obtain exact time event data and related calculations such as a number of vacation days left, total hours worked, time balance, etc.

Time API is a classic IIS application that can be deployed and linked to an existing Time&Space database.

SPACE API

Space API on the other hand focuses on data and processes related to access control. The following structures are exposed:

- 10. Alarms
- 11. Badges & Assignments
- 12. Controllers
- 13. Outputs
- 14. Profiles
- 15. Readers
- 16. Users



Using SignalR framework, a third party application can subscribe to real-time Time&Space events and alarms. Inputs/outputs can be monitored and triggered using this API, e.g. opening individual doors. Space API is a standalone service that comes pre-installed with any Time&Space system.

LICENSING

The runtime support for the SDK-based 3rd party integration solutions is licensed through AIS license (Advanced Integration Services). For more information see Time&Space License Scheme.

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All specifications are subject to change with any prior notice.

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