



## Web TimeSheet Application Note Using Web TimeSheet Web Services

Web TimeSheet web services allow you to extract data from Web TimeSheet and use it in external applications. Data is called using HTTP protocols, and is returned in XML or other selected formats.

### How to Use Web TimeSheet Web Services

Use the following steps to access Web TimeSheet web services manually. Or, you can adapt the following procedure to call web services programmatically.

1. Log in to Web TimeSheet.

You must be logged in to Web TimeSheet to access the web service.

2. Append the web service's methods and parameters to the Web TimeSheet URL in your browser's address bar. Use this format:

```
[WebTimeSheetURL]/services/  
[ServiceName.asmx]/  
[MethodName]?  
[Parameter1Name=Parameter1Value]&  
[Parameter2Name=Parameter2Value]
```


Where...

<b>WebTimeSheetURL</b>	Differs depending on the type of server you are using: <ul style="list-style-type: none"><li>• <b>For SaaS (Replicon-hosted):</b> http://server or IP/company key e.g. <i>http://hosted.webtimesheet.com/companyx/</i></li><li>• <b>For ISAPI IIS:</b> http://server or IP/cgi/rt.dll/timesheet e.g. <i>http://smith:8083/cgi/rt.dll/timesheet/</i></li><li>• <b>For CGI IIS:</b> http://server or IP/cgi/rt.exe/timesheet e.g. <i>http://smith:8083/cgi/rt.exe/timesheet/</i></li><li>• <b>For Internal web server:</b> http://server or IP/timesheet e.g. <i>http://johnsmithxp:81/timesheet/</i></li></ul>
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<b>ServiceName</b>	Identifies the web service you are running
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<b>MethodName</b>	Determines what records the web service returns Is case sensitive
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<b>Parameters</b>	Limit the data returned
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 Method names and parameter values for each web service are described in the [Available Services](#) section below.

3. Press **Enter**. The service will return the requested data.



## Available Services

### ReportService

#### Description

Use the ReportService web service to extract data from any Web TimeSheet report.

#### Request Method and Parameters

One method is available for the ReportService web service:

Method	This method...
GenerateReport	Returns data from a single Web TimeSheet report in the format you specify

For this method, you define the three parameters described below. All three parameters are required.

Parameter	Description of Parameter	Allowed Values
format	Specifies the output format of the extracted data	<b>html</b> – returns report data in HTML format <b>csv</b> – returns report data in CSV format <b>msxml</b> – returns report data in MS XML format <b>xml</b> – returns report data in raw xml format
category	Specifies the name of the folder that contains the report whose data you want to extract	Any report folder name, as given on the <b>Select a Report</b> page <i>e.g. <b>Time Reports</b> or <b>Administration Reports</b></i>
name	Specifies the name of the report whose data you want to extract	The name of any report included in the <i>category</i> folder, as given on the <b>Select a Report</b> page <i>e.g. <b>User Hours Details</b>, if <b>Time Reports</b> is entered as the category (assuming default report location)</i>

#### Response

The web service will return a text string containing the report data formatted as specified. You can output this string to a file of the appropriate format to save the data. The data returned will match your current settings (filters, fields, etc) for the report.

#### Examples

##### Example 1

To extract data from the *License Seat Assignment* report, located in your *Administration Reports* folder, enter the following in your URL:

```
[WebTimesheetURL]/services/  
ReportService.aspx/  
GenerateReport?  
format=html&  
category=Administration Reports&  
name=License Seat Assignments
```

In response, you will receive html-coded data, that matches your current settings for the *License Seat Assignments* report.



**Example 2**

You created a new report entitled *My Team* and saved it in the *Time Reports* folder. To extract data from the *My Team* report and save it in msxml format, enter the following in your URL:

```
[WebTimesheetURL]/services/
ReportService.asmx/
GenerateReport?
format=msxml&
category=Time Reports&
name=My Team
```

In response, you will receive msxml-coded data that matches your current settings for the *My Team* report.

**TimeOffBalanceReportService**

**Description**

Use the time off balance web service to extract time off balance data from Web TimeSheet.

**Request Methods and Parameters**

Two methods are available for the Time Off Balance web service:

Method	This method returns...
GetTimeOffBalanceData	A time off balance record for each time off type that the specified user can book or enter time against
GetTimeOffBalanceDataForType	A single time off balance record for the specified time off type

For each method, you define 2 or 3 parameters (depending on the method). All parameters available for a method are required.

Parameter	Description of Parameter
UserLoginName	The login name of the user whose data you want returned.
AsOfDate	The date whose balance you want returned; that is, the balance returned will be the time off balance at that date.
TimeOffTypeName <sup>1</sup>	The name of the time off type whose balance you want returned.

<sup>1</sup> Available in the GetTimeOffBalanceDataForType only.

**Response**

Most of the fields returned by the Time Off Balance web service match – in both name and data values – fields found in the **Time Off Balance** report. However, to provide complete time off balance data, the web service also includes balance values that match those displayed in the time off calendar.

The following data relationships are used to display the web service data:

Data Source	Source Field	Web Service Field Name
Time Off Calendar	Remaining Days Remaining Hours	RemainingDays RemainingHours
	Taken Days	TakenToResetDays



	Taken Hours	TakenToResetHours
Time Off Balance Report	Time Off Remaining (Days) Time Off Remaining (Hrs)	BalanceDays BalanceHours
	Time Off Taken (Days) Time Off Taken (Hrs)	TakenToDateDays TakenToDateHours

 **Why do time off balance values differ depending on the data source?**

In the **Time Off Balance** report, the time off balance displayed is your exact balance on the “As of” date you select. However, since the **Time Off Calendar** is intended to be used as a planning tool, calendar balances take into account future time off booked up to the next balance reset or new policy. Balances displayed for both will be identical if you have no future time off booked.

## Examples

### Example 1

To extract Sally’s vacation time off balance as of March 15, 2010, enter the following in your URL:

```
[WebTimesheetURL]/services/  
TimeOffBalanceReportService.aspx/  
GetTimeOffBalanceDataForType?  
userLoginName=sally&  
timeoffTypeName=vacation&  
asOfDate=March 15, 2010
```

### Example 2

To extract John’s sick time off balance as of February 13, 2010, enter the following in your URL:

```
[WebTimesheetURL]/services/  
TimeOffBalanceReportService.aspx/  
GetTimeOffBalanceDataForType?  
userLoginName=john&  
timeoffTypeName=sick&  
asOfDate=February 13, 2010
```