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1 Stimulsoft Cloud

This documentation part contains instructions to access the functions of Stimulsoft Cloud. **Stimulsoft Cloud** is is a cloud-based service for creating, storing, and then deploying reports in your applications. Stimulsoft Cloud works in a web browser and does not require installation on your computer:

- .NET API provides quick and easy access to the main functions of the system and automates user actions of Stimulsoft Cloud in your application.
- REST API allows you to get access to the main functions of Stimulsoft Cloud by REST from any application written on any language.

Information

Stimulsoft Cloud uses the Stimulsoft API library. You can download the package on the project page or install it directly from the NuGet package console:

```
PM> Install-Package
Stimulsoft_Reports.Server_Connect_API
```

1.1 .NET API

The **Stimulsoft Cloud** platform provides a full-featured backend solution for your .NET application. API provides quick and easy access to the main functions of the system and automates user actions of Stimulsoft Cloud in your application. You can use the asynchronous or synchronous methods of some root classes that implement work with basic objects of Stimulsoft Cloud.

1.1.1 Users

To access information about users of the **Stimulsoft Cloud**, there is a specialized user class called **StiUserConnection** that automatically handles much of the functionality required for user account management. With this class, you will be able to add user account functionality in your app. In order to use the class **StiUserConnection** you should create an instance of **StiCloudConnection** and call one of its methods (**StiCloudConnection.Accounts.Users**). Access to information about the user provides the **StiUser** class. The user name or the key can obtain an instance of this class. Use for this methods **GetByName()** (**GetByNameAsync()**) and **GetByKey()** (**GetByKeyAsync()**) respectively. There is also fastest way to get an

instance of the current user by calling the **Current** property in the **StiCloudConnection.Accounts.Users** class.

1.1.1.1 Signing Up

To create a new user, you must use the method **SignUp()** or asynchronous version **SignUpAsync()**:

.NET API

```
...
public void SignUp()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.SignUp();
}
...
```

Or asynchronous method:

.NET API

```
...
public async void SignUpAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.SignUpAsync();
}
...
```

This call will create a new user in your instance of Stimulsoft Cloud. Before it does this, it also checks to make sure that both the username and email are unique. The password (up to 6 characters) is stored on the server as a hash and never sent to the client in the form of a plaintext.
In addition, we have two overridden methods for the signup action with additional info (first name and last name):

.NET API

```
...
public void Signup()
{
   var connection = new StiCloudConnection("UserName@example.com",
```

```
   "Password", "FirstName", "LastName");
   connection.Accounts.Users.SignUp();
}

public async void SignupAsync()
{
   var conncetion = new StiCloudConnection("UserName@example.com",
   "Password", "FirstName", "LastName");
   await connection.Accounts.Users.SignUpAsync();
}
...
```

You must to use an email address as the username.

1.1.1.2 Logging In

Log in registered user the class method **Login()** (**LoginAsync()**):

.NET API

```
...
public void LogIn()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();
}
...
```

Or asynchronous method:

.NET API

```
...
public async void LogInAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();
}
...
```

1.1.1.3 Getting User Info

In order to obtain information about the user, use the methods **GetByName()** or **GetByKey()** that return a **StiUser** object. This object contains full information about the user (key of user role, workspace and root folder, OAuth identifier and type of

authorization method, first name, last name, user name (email), avatar image, some flags (enabled, activated) and time when this user was created, last modified and last logged). Before calling the method **GetByName()** or **GetByKey()** you must log in as a user whose rights are allowed to have access to the necessary information.

.NET API

```
...
public void GetUserInfo()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   var userJohn = connection.Accounts.Users.GetByName("John@example.com");
   var johnLastName = userJohn.LastName;
   var johnLogin = userJohn.LastLogin;

   var userScott = connection.Accounts.Users.GetByKey("ScottKey");
   var scottLastName = userScott.LastName;
   var scottLogin = userScott.LastLogin;

   var currentUser = connection.Accounts.Users.Current;
   var currentName = currentUser.UserName;
}
...
```

Or asynchronous method:

.NET API

```
...
public async void GetUserInfoAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();


   var userJohn = await
   connection.Accounts.Users.GetByNameAsync("John@example.com");
   var johnLastName = userJohn.LastName;
   var johnLogin = userJohn.LastLogin;


   var userScott = await
   connection.Accounts.Users.GetByKeyAsync("ScottKey");
   var scottLastName = userScott.LastName;
   var scottLogin = userScott.LastLogin;
```

```
   var currentUser = connection.Accounts.Users.Current;
   var currentName = currentUser.UserName;
}
...
```

1.1.1.4 Getting List of Users

To find or process information about users of the system, there is a method that allows you to get a list of all objects **StiUser**, to which the current user can access. Use the method **FetchAll()** (**FetchAllAsync()**).

.NET API

```
...
public void ProcessUsersInfo()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();
   var users = connection.Accounts.Users.FetchAll();

   //find user with last name "Smith"
   var mrSmith = users.First(a => a.FirstName == "Smith");
}
...
```

Asynchronous method:

.NET API

```
...
public async void ProcessUsersInfoAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();
   var users = await connection.Accounts.Users.FetchAllAsync();

   //is exist user with name "John"
   var isJohnExists = users.Any(a => a.LastName == "John");
}
...
```

1.1.1.5 Changing User Info

Passwords are stored in the system in the form of hashes and the **StiUser** object does not return hem. The method **ChangePassword()** (**ChangePasswordAsync()**)is used to change the password. Using parameters you must specify the current

password and a new one:

.NET API

```
...
public void ChangeUserLastName()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   var userJohn = connection.Accounts.Users.GetByName("John@example.com");
   userJohn.LastName = "Smith";
   userJohn.Save();
}
...
```

Asynchronous method:

.NET API

```
...
public async void ChangeUserLastNameAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var userJohn = await
   connection.Accounts.Users.GetByName("John@example.com");
   userJohn.LastName = "Smith";
   await userJohn.Save();
}
...
```

1.1.1.6 Changing User Password

Passwords are stored in the system in the form of hashes and object **StiUser** not return hem. To change the password used method **ChangePassword()** (**ChangePasswordAsync()**). The parameters you must specify the current password and new:

.NET API

```
...
public void ChangeUserPassword()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
```

```
   connection.Accounts.Users.Login();

   var userJohn = connection.Accounts.Users.GetByName("John@example.com");
   userJohn.ChangePassword("JohnPassword", "NewPassword");
}
...
```

Asynchronous method:

.NET API

```
...
public async void ChangeUserPasswordAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var userJohn = await
   connection.Accounts.Users.GetByNameAsync("John@example.com");
   await userJohn.ChangePasswordAsync("JohnPassword", "NewPassword");
}
...
```

1.1.1.7 Creating New User

Creating new users goes through the creation of a new object **StiUser** and it is storing through the methods **Save()** or **SaveAsync()**:

.NET API

```
...
public void CreateNewUser()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   var newUser = connection.Accounts.Users.New();
   newUser.UserName = "UserName@example.com";
   newUser.Password = "UserPassword";
   newUser.Save();
}
...
```

Asynchronous method:

.NET API

```
...
public async void CreateNewUserAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var newUser = connection.Accounts.Users.New();
   newUser.UserName = "UserName@example.com";
   newUser.Password = "UserPassword";
   await newUser.SaveAsync();
}
...
```

In addition you can create a user through **Roles** using the method **NewUser()**:

.NET API

```
...
public void NewUserFromRole()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   var managerRole = connection.Accounts.Roles.ManagerRole;
   var newUser = managerRole.NewUser("NewUserName@example.com",
   "Password");

   connection.Accounts.Users.Logout();
}
...
```

1.1.1.8 Deleting User

Remove element by calling **Delete()** (**DeleteAsync()**) the object class **StiUser** or by calling one of the methods **DeleteByKey()**, **DeleteByKeyAsync()**, **DeleteByName()**, **DeleteByNameAsync()** from collection **StiCloudConnection.Accounts.Users**:

.NET API

```
...
public void DeleteItem()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   var user = connection.Accounts.Users.GetByKey("UserKey");
```

```
   if (user != null)
   {
      user.Delete();
   }

   connection.Accounts.Users.Logout();
}
...
```

Asynchronous example:

.NET API

```
...
public async void DeleteItemAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   await
   connection.Accounts.Users.DeleteByNameAsync("JohnSmith@example.com");

   await connection.Accounts.Users.LogoutAsync();
}
...
```

1.1.1.9 Logging Out

After all actions the user must log out. To do this, you can use the class methods **Logout()** or **LogoutAsync()**.

.NET API

```
...
public void Logout()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   connection.Accounts.Users.Login();

   //Enter your code

   connection.Accounts.Users.Logout();
}
...
```

Asynchronous method:

.NET API

```
...
public async void LogoutAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   //Enter your code

   await connection.Accounts.Users.LogoutAsync();
}
...
```

1.1.2 Items

The basis of the **Stimulsoft Cloud** functionality is operations on items. The item is an object that can be visually observed in the object tree on the left side of the interface of the client application. All items are inherited from the root abstract class **StiItem** and, there is one of the following classes depending on the functionality provided:

- **StiFolderItem** - provides a hierarchical tree structure elements;
- **StiReportTemplateItem** - report template for building;

1.1.2.1 Creating and Saving Items

Position in the hierarchical tree structure of elements defined by the connection element and folders. Therefore, to create the item, you must first create an object of type **StiFolderItem**, specifying its position in the tree, and then use one of the methods to create an item of a particular type. The root element of the tree is represented by an instance of the class **StiFolderItem: StiCloudConnection.Items.Root**. After defining properties of the new item is necessary to perform his method **StiItem.Save()** or **StiItem.SaveAsync()**. The following example shows how to create a folder in the root of the tree of elements and add the calendar (describes Monday) to this folder:

.NET API

```
...
public void CreateNewCalendarItem()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
```

```
   await connection.Accounts.Users.LoginAsync();

   var folderItem = connection.Items.Root.NewFolder("folder");
   folderItem.Save();

   var calendarItem = folderItem.NewCalendar("NewCalendar");
   calendarItem.Dates.Add(new StiCalendarDate("Monday",
   StiDaysOfWeek.Monday));
   calendarItem.Save();
}
...
```

Asynchronous method:

.NET API

```
...
public async void CreateNewCalendarItemAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var folderItem = connection.Items.Root.NewFolder("folder");
   await folderItem.SaveAsync();

   var calendarItem = folderItem.NewCalendar("NewCalendar");
   calendarItem.Dates.Add(new StiCalendarDate("Monday",
   StiDaysOfWeek.Monday));
   await calendarItem.SaveAsync();
}
...
```

1.1.2.2 Sharing Items

To work with elements uses a unique identifier - keys. They are assigned automatically when you create elements.

Press the **Access Key** command from the **More** menu to get the key.

The key can be used to specify a particular item in the API and to access an item outside over HTTP. This example demonstrates a simple HTML-page that provides access to the report in the public domain:

.NET API

```
...
<html>
```

```
<head>
   <title>Sharing example</title>
</head>
<body>
   <p style="font-size: 40px;">The example of shared report.</p>
   <br>
   <iframe src="https://reports.stimulsoft.com/
   share/13f5d51dd5294a9483facdf61299000a"></iframe>
</body>
</html>
...
```

1.1.2.3 Getting Item

To get an existing item is necessary to know the key that is passed to the method as a parameter. Use methods **StiItem.GetByKey()** and **StiItem.GetByKeyAsync()**:

.NET API

```
...
public void GetCalendarItem()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var item = connection.Items.GetByKey("CalendarItemKey");
   if (item != null)
   {
      var calendarItem = item as StiCalendarItem;
      if (calendarItem != null)
      {
         var calendarItemDescription = calendarItem.Description;
      }
   }
}
...
```

Asynchronous method:

.NET API

```
...
public async void GetCalendarItemAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var item = await connection.Items.GetByKeyAsync("CalendarItemKey");
   if (item != null)
```

```
   {
      var calendarItem = item as StiCalendarItem;
      if (calendarItem != null)
      {
         var calendarItemDescription = calendarItem.Description;
      }
   }
}
...
```

1.1.2.4 Getting List of Items

To find or process items, there is a method that allows you to get a list of all objects **StiItem**, to which the current user can access. Use the method **FetchAll()** (**FetchAllAsync()**).

.NET API

```
...
public void ProcessItems()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();
   var items = connection.Items.Root.FetchChilds();

   //find folder with name "Folder1"
   var folder1 = items.First(a => a.Name == "Folder1");
}
...
```

Asynchronous method:

.NET API

```
...
public async void ProcessItemsAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();
   var items = await connection.Items.Root.FetchChildsAsync();

   //is exist any folder
   var isFolder = items.Any(a => a.IsFolder);
}
...
```

1.1.2.5 Deleting Item

Remove element by calling **Delete()** (**DeleteAsync()**):

.NET API

```
...
public void DeleteItem()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var item = connection.Items.GetByKey("CalendarItemKey");
   if (item != null)
   {
      //Delete item with skipping undeletable items
      item.Delete(true, true);
   }
}
...
```

Asynchronous method:

.NET API

```
...
public async void DeleteItemAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var item = await connection.Items.GetByKeyAsync("CalendarItemKey");
   if (item != null)
   {
      //Delete item without moving it into the recycle bin
      await item.DeleteAsync(false);
   }
}
...
```

1.1.2.6 Resource Item

Some element types (**StiFileItem**, **StiReportSnapshotItem**, **StiReportTemplateItem**) include resources. Using the methods **UploadFromFile()**, **UploadFromFileAsync()**, **UploadFromArray()**, **UploadFromArrayAsync()**, **DownloadToFile()**, **DownloadToFileAsync()**, **DownloadToArray()**, **DownloadToArrayAsync()**. You can manipulate the data contained in these

resources. For example, creating a file on the cloud with the loading data into it looks like this:

.NET API

```
...
public void CreateNewFile()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var content = File.ReadAllBytes(@"C:\testfile.xml");

   var newFile = connection.Items.Root.NewFile("TestFile.xml");
   newFile.Save();

   newFile.UploadFromArray(content);
}
...
```

Asynchronous method:

.NET API

```
...
public async void CreateNewTemplateAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var newTemplate = connection.Items.Root.NewReportTemplate("Master-
   Detail");
   await newTemplate.SaveAsync();

   await newTemplate.UploadFromFileAsync(@"C:\master-detail.mrt");
}
...
```

Loading item from the server and saving it to a file on the local computer as follows:

.NET API

```
...
public void DownloadFile()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
```

```
   await connection.Accounts.Users.LoginAsync();

   var newFile = connection.Items.GetByKey("FileItemKey");
   if (newFile is StiFileItem)
   {
      var data = (newFile as StiFileItem).DownloadToArray();
      File.WriteAllBytes(@"c:\newfile", data);
   }
}
...
```

Asynchronous method:

.NET API

```
...
public async void DownloadFileAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var report = await
   connection.Items.GetByKeyAsync("ReportTemplateItemKey");
   if (report is StiReportTemplateItem)
   {
      await (report as StiReportTemplateItem).DownloadToFileAsync(@"C:
      \Master-Detail.mrt");
   }
}
...
```

1.1.2.7 Running Report

The result of creating Report Template in the tree is a new element type **StiReportTemplateItem**. This object describes the report without data. Designing items of the report is made through the Navigator interface, but managing the construction is possible by means of appropriate methods **StiReportTemplateItem.Run()** and **StiReportTemplateItem.RunAsync()**. The parameter specifies the item **StiReportTemplateItem** or **StiFileItem** where you saved the rendered report. The object must be created before saving. The item **StiFileItem** can be one of the possible types of enumeration **StiFileType** (ReportSnapshot, PDF, XPS, PowerPoint, HTML, Text, RichText, Word, OpenDocumentWriter, Excel, OpenDocumentCalc, Data, Image, XML, XSD, CSV, DBF). One of these values are specified in the method **StiCloudConnection.Items.Root.NewFile()** as a parameter. The following example creates a report template, loads data into it and runs the report, after which the

result is stored in the report snapshot:

.NET API

```
...
public void RunReportToShapshot()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var reportTemplateItem =
   connection.Items.Root.NewReportTemplate("report-template");
   reportTemplateItem.Save();
   reportTemplateItem.UploadFromFile(@"C:\report.mrt");

   var reportSnapshotItem =
   connection.Items.Root.NewReportSnapshot("report-snapshot");
   reportSnapshotItem.Save();
   reportTemplateItem.Run(reportSnapshotItem);
}
...
```

Asynchronous method creates a report template, converts data and runs the report, after which the result is stored in the PDF file:

.NET API

```
...
public async void RunReportToPdfFileAsync()
{
   var connection = new StiCloudConnection("UserName@example.com",
   "Password");
   await connection.Accounts.Users.LoginAsync();

   var reportTemplateItem =
   connection.Items.Root.NewReportTemplate("report-template");
   await reportTemplateItem.SaveAsync();
   await reportTemplateItem.UploadFromFileAsync(@"C:\report.mrt");

   var pdfReportItem = connection.Items.Root.NewFile("report.pdf",
   StiFileType.Pdf);
   await pdfReportItem.SaveAsync();
   await reportTemplateItem.RunAsync(pdfReportItem);
}
...
```

1.2 REST API

REST API allows you quick and easy access to the main functions of **Stimulsoft Cloud** and automates user actions of the system in your application. Access points to the REST-services should be on your domain and be accessible via HTTP/HTTPS. For example, we will use the online version of Stimulsoft Cloud with the URL https://cloud.stimulsoft.com. A relative path begins with the prefix /1/ which means the first version of REST API.

EndPoint	HTTP Verb	Action
/1/login	GET	Loginregistereduser
/1/logout	DELETE	Userl

		logout
/1/signup	POST	Newuserregistration
/1/users	GET	Gettingalistof

		users
/1/users	POST	Creating a new user
/1/users/<UserId>	GET	Getting information a

		nabouttheuser<UserId>
/1/users/<UserId>	PUT	Changinguserinforn

		ation<UserId>
/1/users/<UserId>	DELETE	Revoving a user<UserId>
/1/users/current	GET	Gett

		Getting information about the current user
/1/users/current	PUT	Changing

		ngthecurrentuserinformation
/1/users/<UserId>/changepassword	PUT	Changeuserpa

		sword
/1/users/current/changepassword	PUT	Changingthepasswordofthecurrentus

		er
/1/users/<UserId>/resetpassword	PUT	Initializeresetthe user's <UserId> pass

		word
/1/users/current/resetpassword	PUT	Initializethecurrentuserpasswordres

		et
/1/resetpassword/secretcode	PUT	Confirmpasswordresetbyasecretcode
/1/items	GET	Get

		tingallistoftitens
/1/items/<ItemId>	GET	Gettingformationabout

		the element <Item Id>
/1/items	POST	Create a new item
/1/items/<ItemId>	PUT	Changi

		ng information about the element <ItemId>
/1/items/<ItemId>	DELETE	Del

		etingannelenent <lteenld>
/1/items/<ItemId>/share	GET	Gettingnfornatio

		nabout public access to the element <ItemId>
/1/items/<ItemId>/share	PUT	C

		hangingdataconpublicaccesstothelelenent <l

		tenlId>
/1/items/<ItemId>/share	DELETE	Revoking an item <ItemId> from publ

		iaccess
/1/reporttemplates	GET	Gettingallistofreportttemplates
/1/reporttemplates/	GET	G

<ReportTemplateId>/		getting information about the report template

		<ReportTemplateId>
/1/reporttemplates	POST	Creating a new report template

		plate
/1/reporttemplates/ <ReportTemplateId>/	DELETE	Removing a report template <ReportTemp

		label>
/1/reporttemplates/ <ReportTemplateId>/duplicate	POST	Creating a new copy of the report template

		ateinacloudofthelogged-inuser.

1.2.1 Object Model

The input data for each command are custom HTTP-headers prefixed with "x-sti-" and described in the table below:

Custom header	Description
x-sti-sessionkey	The current session key is issued after successful authentication, used in almost all commands

x-sti-versionkey	Key of the last chunk of the uploaded file
x-sti-username	Username for authentication
x-sti-password	Password to login
x-sti-newpassword	The new user's password, used to change the password and reset password
x-sti-currentpassword	User's current password, used to change the password
x-sti-index	Index of the element to which you want to fetch, used to limit the data fetch
x-sti-count	Number of items that need to get, used to limit the data fetch
x-sti-allowdeleted	Determines whether the elements in the fetch display deleted, default is false
x-sti-itemkey	The key of element, which is the work, used to limit the data fetch
x-sti-filterident	Filtering of the elements by identifiers, used to limit the data fetch
x-sti-status	Task scheduler status, used to manage the schedulers
x-sti-allowmovetorecyclebin	Allows deleting an item to the recycle bin, by default it is set to true
x-sti-destinationitemkey	Allows indicates an item that will be stored data

Other information transmitted in the body of the request in the JSON format. Permitted to transfer the input parameters in the request body as a simple JSON-object with fields whose names match the custom headers, but lack the prefix “x-sti-”. Parameter names are not case sensitive, regardless of how they transfer (custom headers or POST-data). As the output data is used JSON-object for all commands. Even in the case of error or successful completion of an object returned,

indicating success of query processing server.
Error example:

Sample **JSON** response

```
...
{
   "Ident": "UserFetchAll",
   "ResultNotice": {
      "Ident": "IsNotSpecified",
      "Arguments": [
      "SessionKey"
      ]
   }
}
...
```

Another error example:

Sample **JSON** response

```
...
{
   "Ident": "UserSave",
   "ResultNotice": {
      "Ident": "AccessDenied",
      "CustomMessage": "You should specify the CurrentPassword argument
      when you want to change the user password!"
   }
}
...
```

Example of successful command execution, not returning data:

Sample **JSON** response

```
...
{
   "Ident": "UserLogout",
   "ResultSuccess": true
}
...
```

Obviously, if the command does not return HTTP error and successfully passed the server to perform, any response with JSON-object will have an HTTP-status "200

OK". In this case, success of command execution needs to be checked on a condition of the field ResultSuccess and availability of data in the field ResultNotice. If ResultNotice field is not empty, then the command has problems that are described nested object contained in this field.

1.2.2 Sign Up

Description:
Create a new user

Url Structure:
https://cloud.stimulsoft.com/1/signup

Method:
POST

Parameters:
In POST-data must specify the JSON-object describing a new user:

POST-data in the **JSON**-object

```
...
{
   'FirstName': 'John',
   'LastName': 'Doe',
   'UserName': 'j@d.com',
   'Password': '111111'
}
...
```

CURL example:
curl -X POST -d "{ 'FirstName': 'John', 'LastName': 'Doe', 'UserName': 'j@d.com', 'Password': '111111' }" https://cloud.stimulsoft.com/1/signup

Returns:
The JSON object containing the field ResultUserKey with the key of the new user. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
   "Ident": "UserSignUp",
```

```
  "ResultUserKey": "ddb025415b68494ca8a9aee27ad73bc1",
  "ResultSuccess": true
}
...
```

1.2.3 Login

Description:
Login with username and password.

Url Structure:
https://cloud.stimulsoft.com/1/login

Method:
GET

Parameters:
Two custom header: x-sti-UserName and x-sti-Password, containing the username and password, respectively.

CURL example:
curl -X GET -H "x-sti-UserName: a@a.com" -H "x-sti-Password: 111111" https://cloud.stimulsoft.com/1/login

Returns:
The JSON object containing the field ResultSessionKey, which will be further used for communication with the service. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "UserLogin",
  "ResultSessionKey": "1716cdf3dd2b480580824798a03f030d",
  "ResultWorkspaceKey": "1b11a087888f4a968ecbbaf74423647c",
  "ResultUserKey": "50a4f98ec1804a6498829b05554c5608",
  "ResultRole": {
    "Name": "Supervisor",
    "Created": "\/Date(1426675381267)\/",
    "Modified": "\/Date(1426675381267)\/",
    "Permissions": {

      "ItemFiles": "CreateDeleteModifyView",
      "ItemFolders": "CreateDeleteModifyView",
      "ItemReportTemplates": "All"
```

```
      },
      "IsSupervisor": true,
      "IsAdministrator": true,
      "IsSystem": true,
      "Key": "Supervisor"
   },
   "ResultSettings": {
      "Localization": "en",
      "Theme": {
         "Ident": "Office2013White",
         "Style": "Teal"
      },
      "Key": "50a4f98ec1804a6498829b05554c5608"
   },
   "ResultProductInfo": {
      "ProductName": "Stimulsoft Cloud"
   },
   "ResultSuccess": true
}
...
```


1.2.4 Logout

Description:
Log out of the current user.

Url Structure:
https://cloud.stimulsoft.com/1/logout

Method:
DELETE

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user.

CURL example:
curl -X DELETE -H "x-sti-SessionKey: 1638c5f0e7d347dabb7651f194768a7e" https://cloud.stimulsoft.com/1/logout

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response


```
...
{
```

```
  "Ident": "UserLogout",
  "ResultSuccess": true
}
...
```

1.2.5 Users

For obtaining the list of users, data modification, as well as to create new users in the cloud and delete users, use the command Users with different methods.

Name	Description
GET List	Getting a list of users in a cloud of the logged-in user.
GET Info	Getting information about the user in a cloud of the logged-in user.
POST Create	Creating a new user in a cloud of the logged-in user.
PUT Edit	Changing user data in a cloud of the logged-in user. This command does not allow change of the unique user name, which is used as an identifier, and a password - for this purpose there is other command.
DELETE	Removing a user from the current cloud. Removing a last user with administrator privileges isn't allowed.

Managing user passwords requires a special approach to security, so to change and reset the password using a number of separate commands. Changing the password requires an existing password. Reset password occurs in two stages - a password reset request and execution of the procedure. Password reset request executed with the command resetpassword, at the same time to the email address specified in the user data sent to e-mail with a link, activating the second stage - the actual password reset. To activate the second stage through REST-interface, you must run command resetpassword with the indication a secret one-time code (specified in the link sent in an email message), valid for two hours. Next to the postal address of the user sent another message indicating a new password:

Name	Description
Change password	Change user password.
Reset password	Activating of password reset. At this stage, checked the security code, and if it is correct, the password is reset to the new specified in the parameters. To activate the procedure requires new password and the secret code obtained at the first stage. Executing this command does not require a session key.

1.2.5.1 GET List

Description:
Getting a list of users in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/users

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. You may use header x-sti-WorkspaceKey, containing key workspace that you are requesting a list of users.

CURL example:
curl -X GET -H "x-sti-SessionKey: 55397673d1604f3a9aabf57c4ebaf856" https://cloud.stimulsoft.com/1/users

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
   "Ident": "UserFetchAll",
   "ResultUsers": [
   {

      "FirstName": "John",
      "LastName": "Doe",
      "UserName": "j@d.com",
      "Created": "\/Date(1424679345637)\/",
      "Modified": "\/Date(1424679345637)\/",
      "LastLogin": "\/Date(1424698541377)\/",
      "Key": "ddb025415b68494ca8a9aee27ad73bc1"
   },
   {

      "FirstName": "John5",
      "LastName": "Doe5",
      "UserName": "j5@d5.com",
      "Created": "\/Date(1424699430000)\/",
      "Modified": "\/Date(1424699430367)\/",
      "Key": "e7c2b7d3160f418b9286fbb24e7b0dd9"
   }
   ],
   "ResultSuccess": true
}
...
```


1.2.5.2 GET Info

Description:
Getting information about the user in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/users/username

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The username parameter in the URI is the key user or its name and indicates the user whose data you want to get. Instead of the user name or key, you can specify the keyword "current" which replaces the identifier of the current user.

CURL example:
curl -X GET -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" https://

cloud.stimulsoft.com/1/users/j51@d51.com

Returns:
The JSON object containing the field ResultUsers, in which there is data on the user in the cloud. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
   "Ident": "UserGet",
   "ResultUser": {
      "FirstName": "John51",
      "LastName": "Doe51",
      "UserName": "j51@d51.com",
      "Created": "\/Date(1424765701477)\/",
      "Modified": "\/Date(1424765701777)\/",
      "Key": "029f450a853b4248bdc278c382512f90"
   },
   "ResultSuccess": true
}
...
```

1.2.5.3 POST Create

Description:
Creating a new user in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/users

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object describing the new user:

POST-data in the **JSON**-object

```
...
{
   'FirstName': 'John5',
   'LastName': 'Doe5',
   'UserName': 'j5@d5.com',
   'Password': '111111'
```

```
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 55397673d1604f3a9aabf57c4ebaf856" -d "{ 'FirstName': 'John5', 'LastName': 'Doe5', 'UserName': 'j5@d5.com', 'Password': '111111' }" https://cloud.stimulsoft.com/1/users

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
  "Ident": "UserSave",
  "ResultSuccess": true
}
...
```

1.2.5.4 PUT Edit

Description:
Changing user data in a cloud of the logged-in user. This command does not allow change of the unique user name, which is used as an identifier, and a password - for this purpose there is other command.

Url Structure:
https://cloud.stimulsoft.com/1/users/username

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The username parameter in the URI is the key user or its name and indicates the user whose data you want to edit. Instead of the user name or key, you can specify the keyword "current" which replaces the identifier of the current user. In POST-data must specify the JSON-object describing the changed user data:

POST-data in the **JSON**-object

```
...
{
   'FirstName': 'John00',
   'LastName': 'Doe00'
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -d "{ 'FirstName': 'John00', 'LastName': 'Doe00', 'RoleKey': 'Manager' }" https://cloud.stimulsoft.com/1/users/j5@d5.com

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "UserSave",
   "ResultSuccess": true
}
...
```

1.2.5.5 DELETE

Description:
Removing a user from the current workspace. Removing a last user with administrator privileges isn't allowed.

Url Structure:
https://cloud.stimulsoft.com/1/users/username

Method:
DELETE

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The username parameter in the URI is the key of user or its name and indicates the user whose data you want to delete.

CURL example:
curl -X DELETE -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" https://cloud.stimulsoft.com/1/users/j5@d5.com

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "UserDelete",
   "ResultSuccess": true
}
...
```

1.2.5.6 Change password

Description:
Change user password.

Url Structure:
https://cloud.stimulsoft.com/1/users/username/changepassword

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The username parameter in the URI is the key user or its name and indicates the user whose data you want to get. Instead of the user name or key, you can specify the keyword "current" which replaces the identifier of the current user. In POST-data must specify the JSON-object describing the current and new passwords:

POST-data in the **JSON**-object

```
...
{
   'CurrentPassword': '111111',
   'NewPassword': '222222'
}
...
```

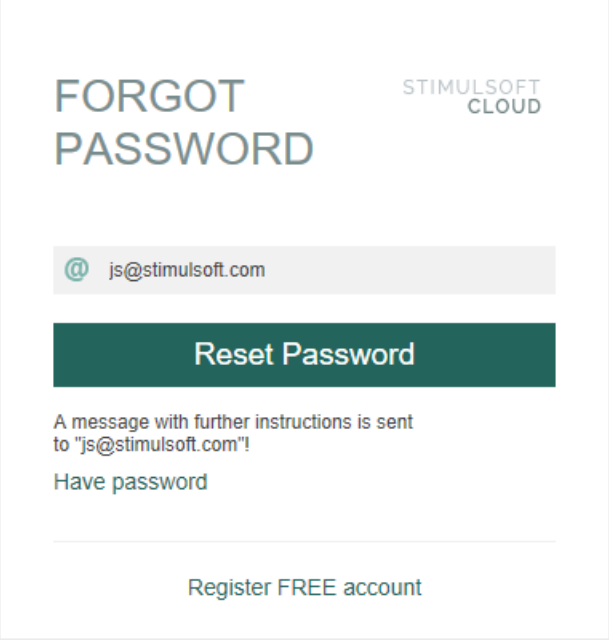
CURL example:
curl -X PUT -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -d "{ 'CurrentPassword': '111111', 'NewPassword': '222222' }" https://cloud.stimulsoft.com/1/users/current/changepassword

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "UserChangePassword",
   "ResultSuccess": true
}
...
```

1.2.5.7 Reset password



Description:
Activating of password reset. At this stage, checked the security code, and if it is correct, the password is reset to the new specified in the parameters. To activate the procedure requires new password and the secret code obtained at the first stage. Executing this command does not require a session key.

Url Structure:
https://cloud.stimulsoft.com/1/resetpassword/secretcode

Method:
PUT

Parameters:
A custom header x-sti-NewPassword contains the new password. The secretcode parameter in the URI is the secret code obtained in the first stage of the procedure a password reset, and indicates the user whose password you want to reset. The secret code is valid for two hours from the time of the query reset your password.

CURL example:
curl -X PUT -H "x-sti-NewPassword: 222222" -d "" https://cloud.stimulsoft.com/1/resetpassword/04c86e980d2042079ee675ae09e495e9

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
  "Ident": "UserResetPasswordComplete",
  "ResultUserName": "j@d.com",
  "ResultSuccess": true
}
...
```

1.2.6 Items

Items object describes the data items supported by the system. This is an abstract class that combines different types of elements. At creation of an element its type is specified in the Ident field and never changes:

Object	Description	Ident

StiFolderItem	Folder, provides hierarchy of structure of elements	FolderItem
StiReportTemplateItem	Report template	ReportTemplateItem

To get the list of elements, modify the data, and to create new elements in the current workspace and removing existing elements, use command Items with various methods. Each element has a unique key, which uniquely identifies it in the list of elements. Data hierarchy as a tree is realized by an element type StiFolderItem, key element it is specified in the field of FolderKey as designation of the parental folder of an element. The identifier of this element is specified in the FolderKey of other elements and provides identification of the parent folder of an element. If this field is empty or not initialized to any value, then the element belongs to the root folder.

Name	Description
GET List	Getting a list of elements in a cloud of the logged-in user. The list is returned to the specified folder.
GET Info	Getting information about the element in a cloud of the logged-in user.
POST Create	Creating a new element in a cloud of the logged-in user. To successfully run the command you must fill in the fields Ident (assigned a value in accordance with the required type of item has one of the values listed in the table above), and Name. FolderKey field may contain the key of the parent folder, making sure that the element in the tree. If FolderKey empty or not specified, the item is displayed in the root folder.
PUT Edit	Changing element in a cloud of the logged-in user. This command does not allow change of the unique item key, which is used as an identifier (field Key), and the type (field Ident). Changing field FolderKey can move an item to another folder in the tree (the root, if you specify a null value).
DELETE	Removing an element from the current cloud. However, the use of this command does not guarantee the immediate removal of the element from a tree, because the command only creates an internal task of service to delete the item and the actual deletion may be delayed for some time.

1.2.6.1 GET List

Description:
Getting a list of elements in a cloud of the logged-in user. The list is returned to the specified folder.

Url Structure:
https://cloud.stimulsoft.com/1/items

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. Custom header x-sti-ItemKey used to identify the parent folder, which list of elements needs to be retrieved. If this header is not present, it will get a list of elements of the root folder. To filter element types used header x-sti-FilterIdent. It may contain one of the values in the table above Ident. If this header is absent, all elements from the requested collection will be returned. It is also possible to use the header x-sti-AllowDeleted, which is responsible for displaying the elements placed in the recycle bin (not removed completely).

CURL example:
curl -X GET -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -H "x-sti-ItemKey: 7800e3265d06418a9ac4feb977fd4040" -H "x-sti-AllowDeleted: true" https://cloud.stimulsoft.com/1/items

Returns:
The JSON object containing the collection ResultItems, which contains a list of items in the specified folder of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "ItemFetchAll",
  "ResultItems": [
    {
      "Ident": "FolderItem",
      "FolderKey": "7800e3265d06418a9ac4feb977fd4040",

      "Name": "InternalFolder",
      "Description": "This is a second level folder",
```

```
      "Created": "\/Date(1425024762360)\/",
      "Modified": "\/Date(1425024762360)\/",
      "IsMoveable": true,
      "Key": "ac9485530c2e42cf9edef840a4816c4f"
    },
    {
      "Ident": "ReportTemplateItem",
      "StateKey": "2",
      "FolderKey": "7800e3265d06418a9ac4feb977fd4040",

      "Name": "SecondEmptyReport",
      "Description": "This is a internal report",
      "Created": "\/Date(1425025029473)\/",
      "Modified": "\/Date(1425042737867)\/",
      "IsMoveable": true,
      "Key": "649f1ff97b21448d963c4747279e86d9"
    }
  ],
  "ResultSuccess": true
}
...
```


1.2.6.2 GET Info

Description:
Getting information about the element in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/items/itemkey

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The itemkey parameter in the URI is the key of the element and indicates the element whose data you want to get.

CURL example:
curl -X GET -H "x-sti-SessionKey: da5053abac4544e9856e05bbda14f46a" https://cloud.stimulsoft.com/1/items/d2283e85e9724859bcd024c3f7b982ea

Returns:
The JSON-object containing the field ResultItem, which is the required element of the cloud. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "ItemGet",
  "ResultItem": {
    "Ident": "FileItem",
    "FileType": "Xml",
    "AttachedItems": [
      "fa3514a207504deea0c065032d5d438f"
    ],
    "IsDataSource": true,
    "FolderKey": "d1a339068a474eaab65628f2fbef33a6",

    "Name": "Demo.xml",
    "Description": "",
    "Created": "\/Date(1427455735000)\/",
    "Modified": "\/Date(1427986596000)\/",
    "IsMoveable": true,
    "Key": "d2283e85e9724859bcd024c3f7b982ea"
  },
  "ResultLastVersionKey": "ab832999641b458eacd8969a408e303e",
  "ResultSuccess": true
}
...
```


1.2.6.3 POST Create

Description:
Creating a new element in a cloud of the logged-in user. To successfully run the command you must fill in the fields Ident (assigned a value in accordance with the required type of item has one of the values listed in the table above), and Name. FolderKey field may contain the key of the parent folder, making sure that the element in the tree. If FolderKey empty or not specified, the item is displayed in the root folder.

Url Structure:
https://cloud.stimulsoft.com/1/items

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new element:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FolderItem',
   'Name': 'InternalFolder',
   'Description': 'This is a second level folder',
   'FolderKey': '7800e3265d06418a9ac4feb977fd4040'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -d "{'Ident':'FolderItem','Name':'InternalFolder','Description':'This is a second level folder','FolderKey':'7800e3265d06418a9ac4feb977fd4040'}" https://cloud.stimulsoft.com/1/items

Returns:
The JSON-object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
  "Ident": "ItemSave",
  "ResultSuccess": true
}
...
```

1.2.6.4 PUT Edit

Description:
Changing element in a workspace of the logged-in user. This command does not allow change of the unique item key, which is used as an identifier (field Key), and the type (field Ident). Changing field FolderKey can move an item to another folder in the tree (the root, if you specify a null value).

Url Structure:
https://cloud.stimulsoft.com/1/items/itemkey

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The itemkey parameter in the URI is the key of item and indicates the element whose data you want to change. In POST-data must specify the JSON-object describing the changed item data:

POST-data in the **JSON**-object

```
...
{
   'Name': 'SecondEmptyReport',
   'Description': 'This is a edited report',
   'FolderKey': ''
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -d "{'Name':'SecondEmptyReport','Description':'This is a edited report', 'FolderKey':''}" https://cloud.stimulsoft.com/1/items/ca3bfa74c8114b3a83fd08c04ab31f99

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
  "Ident": "ItemSave",
  "ResultSuccess": true
}
...
```

1.2.6.5 DELETE

Description:
Removing an element from the cloud. However, the use of this command does not guarantee the immediate removal of the element from a tree, because the command only creates an internal task of service to delete the item and the actual deletion may be delayed for some time.

Url Structure:

https://cloud.stimulsoft.com/1/items/itemkey

Method:
DELETE

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-AllowMoveToRecycleBin allows deleting an item to the recycle bin, by default it is set to true. To remove an item with referenced resources set x-sti-AllowMoveToRecycleBin to false. The itemkey parameter in the URI is the key of item and indicates the item whose data you want to delete.

CURL example:
curl -X DELETE -H "x-sti-SessionKey: ea8cc765d54241e18347a043e187ada3" -H "x-sti-AllowMoveToRecycleBin: false" https://cloud.stimulsoft.com/1/items/ca3bfa74c8114b3a83fd08c04ab31f99

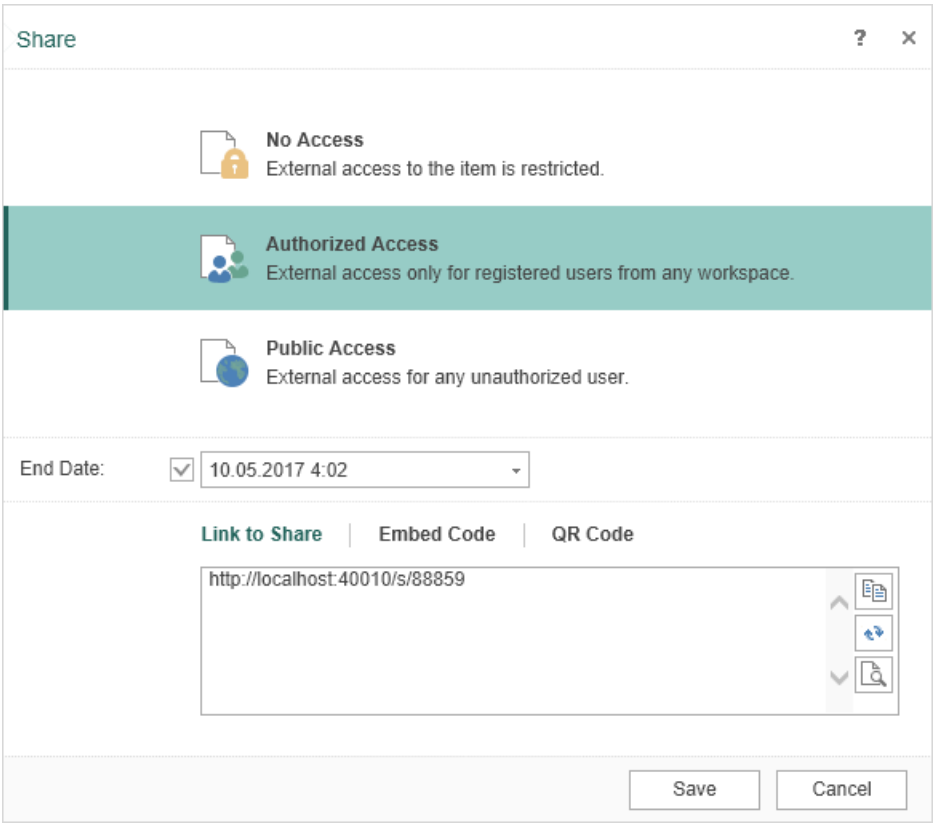
Returns:
The success of the command execution is checked by the content of the field ResultSuccess. ResultTaskKey field contains unique key of internal server tasks, created to remove the item.

Sample **JSON** response

```
...
{
  "Ident": "ItemDelete",
  "ResultTaskKey": "3c1df5fa46a14a17af32a5259834e254",
  "ResultSuccess": true
}
...
```

1.2.6.6 Share

Some elements of the navigator list, can have access from the outside, declared in one of the three levels ShareLevel (Private and Public). You can also set an expiration date of public access. Manually these parameters can be set on the following form:



Software functionality is described using the command Items Share.

Name	Description
GET Info	Getting information about access parameters of specified item in the cloud of the logged-in user
PUT Edit	Changing information about access parameters of specified item in the cloud of the logged-in user.
DELETE Reset	Resetting access parameters of specified item in the cloud of the logged-in user to default. These are ShareLevel, established in Private (no public access), ShareMode set in Download, as well as the absence of ShareExpires (period of validity of link of public access).

1.2.6.6.1 GET Info

Description:

Getting information about access parameters of specified item in the cloud of the logged-in user

Url Structure:

https://cloud.stimulsoft.com/1/items/itemkey/share

Method:

GET

Parameters:

A custom header x-sti-SessionKey contains the session key of the current user. The itemkey parameter in the URI is the key of item and indicates the item whose data on the parameters of public access you want to get.

CURL example:

curl -X GET -H "x-sti-SessionKey: a690257860fe456aae4c852d41c12378" https://cloud.stimulsoft.com/1/items/d6f94af9dbb945499349f2a36a3741dd/share

Returns:

JSON-object containing the field with the description of the parameters of public access element. ResultShareLevel describes the level of public access (Private and Public). ResultShareExpires contains the expiration date of public access (can be omitted). ResultUrl contains a link for public access. The success of the command execution is checked against the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
   "Ident": "ItemGetShareInfo",
   "ResultShareLevel": "Private",
   "ResultShareExpires": "\/Date(1427801160000+0300)\/",
   "ResultUrl": "https://cloud.stimulsoft.com/s/1",
   "ResultSuccess": true
}
...
```

1.2.6.6.2 PUT Edit

Description:
Changing information about access parameters of specified item in the cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/items/itemkey/share

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The itemkey parameter in the URI is the key of item and indicates the item whose data of the parameters of public access you want to change. In POST-data must specify the JSON-object, which describing the changes in sharing:

POST-data in the **JSON**-object

```
...
{
   'ShareLevel': 'Public'
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: a690257860fe456aae4c852d41c12378" -d "{'ShareLevel':'Public'}" https://cloud.stimulsoft.com/1/items/d6f94af9dbb945499349f2a36a3741dd/share

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "ItemSetShareInfo",
   "ResultSuccess": true
}
...
```

1.2.6.6.3 DELETE Reset

Description:
Resetting access parameters of specified item in the cloud of the logged-in user to default. These are ShareLevel, established in Private (no public access), ShareMode set in Download, as well as the absence of ShareExpires (period of validity of link of public access).

Url Structure:
https://cloud.stimulsoft.com/1/items/itemkey/share

Method:
DELETE

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The itemkey parameter in the URI is the key of item and indicates the item whose data of the parameters of public access you want to set to default.

CURL example:
curl -X DELETE -H "x-sti-SessionKey: a690257860fe456aae4c852d41c12378" https://cloud.stimulsoft.com/1/items/d6f94af9dbb945499349f2a36a3741dd/share

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "ItemSetShareInfo",
   "ResultSuccess": true
}
...
```

1.2.7 Report Template

ReportTemplate object describes report templates - special data elements what contains the structure of the report. To build this report you need to execute command Run. As a result was obtained an element of type StiReportSnapshot –

rendered report with data. Since report templates are one type of item, then getting a list of report templates and detailed information about the report templates, as well as creating and deleting of report templates may to produce the same as any other items (use the Items command). However, the report templates have several unique action, so to work with report templates use the following command.

Name	Description
GET List	Getting a list of report templates in a cloud of the logged-in user. The list is returned to the specified folder.
GET Info	Getting information about the report templates in a cloud of the logged-in user.
POST Create	Creating a new report template in a cloud of the logged-in user. FolderKey field may contain the key of the parent folder, making sure that the report template in the tree. If FolderKey empty or not specified, the report template is displayed in the root folder.
DELETE	Removing a report template from the cloud. However, the use of this command does not guarantee the immediate removal of the report template from a tree, because the command only creates an internal task of service to delete the report template and the actual deletion may be delayed for some time.
POST Duplicate	Creating a new copy of the report template in a cloud of the logged-in user.

1.2.7.1 GET List

Description:
Getting a list of report templates in a cloud of the logged-in user. The list is returned

to the specified folder.

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. Custom header x-sti-ItemKey used to identify the parent folder, which list of report templates needs to be retrieved. If this header is not present, it will get a list of report templates of the root folder.

CURL example:
curl -X GET -H "x-sti-SessionKey: 1add6a4f1c5e481c80e964b613ee6089" https://cloud.stimulsoft.com/1/reporttemplates

Returns:
The JSON object containing the collection ResultItems, which contains a list of report templates in the specified folder of the cloud. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
   "Ident": "ItemFetchAll",
   "ResultItems": [
   {
      "Ident": "ReportTemplateItem",
      "StateKey": "e",
      "Name": "Report",
      "Description": "",
      "Created": "\/Date(1427718722000)\/",
      "Modified": "\/Date(1427795741000)\/",
      "IsMoveable": true,
      "Key": "83a5f6d43351499fa9a2d40822f5772b"
   }
   ],
   "ResultSuccess": true
}
...
```

1.2.7.2 GET Info

Description:
Getting information about the report templates in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/reporttemplatekey

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The reporttemplatekey parameter in the URI is the key of the report templates and indicates the report templates whose data you want to get.

CURL example:
curl -X GET -H "x-sti-SessionKey: 1add6a4f1c5e481c80e964b613ee6089" https://cloud.stimulsoft.com/1/reporttemplates/83a5f6d43351499fa9a2d40822f5772b

Returns:
The JSON object containing the field ResultItem, which is the required report template of the cloud. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
   "Ident": "ItemGet",
   "ResultItem":
   {
      "Ident": "ReportTemplateItem",
      "StateKey": "e",
      "AttachedItems": [
      "53efd43b18b7455e88d6013369473772"
      ],
      "WorkspaceKey": "1b11a087888f4a968ecbbaf74423647c",
      "Name": "Report",
      "Description": "",
      "Created": "\/Date(1427718722000)\/",
      "Modified": "\/Date(1427795741000)\/",
      "IsMoveable": true,
      "Key": "83a5f6d43351499fa9a2d40822f5772b"
   },
   "ResultLastVersionKey": "4ae62efae4d74b6aab74567980e36b19",
```

```
   "ResultSuccess": true
}
...
```

1.2.7.3 POST Create

Description:
Creating a new report template in a cloud of the logged-in user. FolderKey field may contain the key of the parent folder, making sure that the report template in the tree. If FolderKey empty or not specified, the report template is displayed in the root folder.

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new report template:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'ReportTemplateItem',
   'Name': 'NewReportTemplate',
   'Description': 'This is a new report template'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 1add6a4f1c5e481c80e964b613ee6089" -d "{'Ident': 'ReportTemplateItem', 'Name': 'NewReportTemplate', 'Description': 'This is a new report template'}" https://cloud.stimulsoft.com/1/reporttemplates

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "ItemSave",
   "ResultSuccess": true
}
...
```

1.2.7.4 DELETE

Description:
Removing a report template from the cloud. However, the use of this command does not guarantee the immediate removal of the report template from a tree, because the command only creates an internal task of service to delete the report template and the actual deletion may be delayed for some time.

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/reporttemplatekey

Method:
DELETE

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-AllowMoveToRecycleBin allows deleting an item to the recycle bin, by default it is set to true. To remove an item with referenced resources set x-sti-AllowMoveToRecycleBin to false. The reporttemplatekey parameter in the URI is the key of report template and indicates the report template whose data you want to delete.

CURL example:
curl -X DELETE -H "x-sti-SessionKey: 1add6a4f1c5e481c80e964b613ee6089" -H "x-sti-AllowMoveToRecycleBin: false" https://cloud.stimulsoft.com/1/schedulers/0a8b68eb3e334fb798a8a4db3a9ee109

Returns:
The success of the command execution is checked by the content of the field ResultSuccess. ResultTaskKey field contains unique key of internal server tasks, created to remove the report template.

Sample **JSON** response

```
...
```

```
{
   "Ident": "ItemDelete",
   "ResultTaskKey": "2728300b164f4a358c6df65ee7ab9304",
   "ResultSuccess": true
}
...
```

1.2.7.5 POST Duplicate

Description:
Creating a new copy of the report template in a cloud of the logged-in user.

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The reporttemplatekey parameter in the URI is the key of report template and indicates the report template whose data you want to copy.

CURL example:
curl -X POST -H "x-sti-SessionKey: 3fd143cd876048a188a6a3d69da0f535" -d "" http://cloud.stimulsoft.com/1/reporttemplates/7e4e950c0eb54241995efe1b48fedb6e/duplicate

Returns:
The JSON object containing the field ResultSuccess which indicates that the command is executed successfully.

Sample **JSON** response

```
...
{
   "Ident": "CommandListRun",
   "ContinueAfterError": false,
   "ResultCommands": [
      {
         "Ident": "ItemSave",
         "AllowSignalsReturn": false,
         "SaveEmptyResources": false,
         "ResultItems": [
            {
```

```
            "Ident": "ReportTemplateItem",
            "RefreshFrequency": "Always",
            "CacheMode": "Off",
            "StateKey": "1",
            "ShareLevel": "Private",
            "WorkspaceKey": "b150683855854affbc98b142d4c61cea",
            "Name": "ChartStyle_Copy",
            "Created": "\/Date(1644323381839)\/",
            "Modified": "\/Date(1644323381839)\/",
            "Visible": true,
            "Deleted": false,
            "IsFolder": false,
            "IsMoveable": true,
            "Key": "bb4af6d48c304d558060334988af1291"
         }
      ],
      "ResultSuccess": true
   },
   {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "789221129c624a25b2a46f553c0c66d6",
      "ResultSuccess": true
   }
],
"ResultSuccess": true
}

...
```


1.2.8 Export

ExportSet-object contain information about settings for data exporting to more files formats. Each of these formats supports unique features, so different types of files there are different sets of settings.
Full description of the options can be found in the documentation here https://www.stimulsoft.com/en/documentation/online/programming-manual/index.html?engine_exports.htm
Any ExportSet-object contain fields 'Ident' and 'PageRange'.

Ident describes the format in which you want to export data. Values for this field listed in the table below. ExportSet Idents:

Identifier	Description
PDF	PDF-file
XPS	XPS-file
PowerPoint	MS PowerPoint presentation file
HTML	HTML-file

Text	Text file
RichText	RichText file format (RTF)
Word	MS Word document file
OpenDocumentWriter	OpenDocument-file for Writer
Excel	MS Excel document file
OpenDocumentCalc	OpenDocument-file for Calc
Data	One of multiple data format
Image	One of multiple image format

PageRange describes the pages of the report, which need to be processed. There are three possible values: All pages, Current page and selected pages or range of pages (see the table below). ExportSet PageRange:

All	Current Page	Selected Pages (e.g. 1, 3, 5-7)
`"PageRange": {},`	`"PageRange": { "RangeType": 2 },`	`"PageRange": { "RangeType": 3, "PageRanges": "1,3,5-7" },`

1.2.8.1 PDF

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:

A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'PDF',
   'Description': 'This is a sample export to PDF',
   'FileType': 'Pdf'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'PDF','Description':'This is a sample export to PDF', 'FileType': 'Pdf' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Pdf",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "PDF",
          "Description": "This is a sample export to PDF",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
```

```
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'ExportToPDF',
   'ExportSet': {
      'Ident': 'Pdf',
      'PageRange': {},
      'EmbeddedFonts': 'false'
      'DitheringType': 'None',
      'PdfACompliance': 'true'
      ...
   }
}
```

```
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'ExportReport.pdf', 'ExportSet':{ 'Ident':'Pdf', 'PageRange': { },'EmbeddedFonts':false,'DitheringType':'None','PdfACompliance':true } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.2 XPS

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'XPS',
   'Description': 'This is a sample export to XPS',
   'FileType': 'Xps'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'XPS','Description':'This is a sample export to XPS', 'FileType': 'Xps' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Xps",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "XPS",
```

```
          "Description": "This is a sample export to XPS",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'XPS',
   'ExportSet': {
     'Ident': 'Xps',
     'PageRange': {},
     'ImageQuality': '75'
     'ImageResolution': '200'
     ...
```

```
    }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'XPS', 'ExportSet':{ 'Ident':'Xps', 'PageRange': {}, 'ImageQuality':'75', 'ImageResolution': '200' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```


1.2.8.3 Power Point

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:

POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Power Point',
   'Description': 'This is a sample export to Power Point',
   'FileType': 'PowerPoint'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Power Point','Description':'This is a sample export to Power Point', 'FileType': 'PowerPoint' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "PowerPoint",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
```

```
          "Name": "Power Point",
          "Description": "This is a sample export to Power Point",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'Power Point',
   'ExportSet': {
     'Ident': 'PowerPoint',
     'PageRange': {},
     'ImageQuality': '75'
     'ImageResolution': '200'
```

```
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Power Point', 'ExportSet':{ 'Ident':'PowerPoint', 'PageRange': {}, 'ImageQuality':'75', 'ImageResolution': '200' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.4 HTML

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'HTML',
   'Description': 'This is a sample export to HTML',
   'FileType': 'Html'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'HTML','Description':'This is a sample export to HTML', 'FileType': 'Html' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Html",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
```

```
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "HTML",
          "Description": "This is a sample export to HTML",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'HTML',
   'ExportSet': {
     'Ident': 'Html',
     'PageRange': {},
     'HtmlType': 'Html5',
```

```
      'ImageQuality': '75'
      'ImageResolution': '200'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'HTML', 'ExportSet':{ 'Ident':'Html', 'PageRange': {}, 'HtmlType': 'Html5', 'ImageQuality':'75', 'ImageResolution': '200' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.5 Text

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Text',
   'Description': 'This is a sample export to Text',
   'FileType': 'Text'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Text','Description':'This is a sample export to Text', 'FileType': 'Text' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Text",
          "ShareLevel": "Private",
```

```
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Text",
          "Description": "This is a sample export to Text",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'Text',
   'ExportSet': {
     'Ident': 'Text',
```

```
      'PageRange': {},
      'Encoding': 'UTF8'
      'KillSoaceLines': 'false',
      'PutFeedPageCode': 'false'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Text', 'ExportSet':{ 'Ident':'Text', 'PageRange': {}, 'Encoding': 'UTF8', 'KillSpaceLines':'false', 'PutFeedPageCode': 'false' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.6 Rich Text

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Rich Text',
   'Description': 'This is a sample export to RTF',
   'FileType': 'RichText'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Rich Text','Description':'This is a sample export to RTF', 'FileType': 'RichText' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
```

```
          "Ident": "FileItem",
          "FileType": "RichText",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Rich Text",
          "Description": "This is a sample export to RTF",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
```

```
   'FileItemName': 'Rich Text',
   'ExportSet': {
      'Ident': 'RichText',
      'PageRange': {},
      'ExportMode': 'Frame'
      'ImageResolution': 'None',
      'UsePageHeadersAndFooters': 'false'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Rich Text', 'ExportSet':{ 'Ident':'RichText', 'PageRange': {}, 'ExportMode': 'Frame', 'ImageResolution':'200', 'UsePageHeadersAndFooters': 'false' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.7 Word

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Word',
   'Description': 'This is a sample export to Word',
   'FileType': 'Word'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Word','Description':'This is a sample export to Word', 'FileType': 'Word' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
```

```
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Word",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Word",
          "Description": "This is a sample export to Word",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'Word',
   'ExportSet': {
      'Ident': 'Word',
      'PageRange': {},
      'ImageQuality': '75'
      'ImageResolution': '200',
      'RemoveEmptySpaceAtBottom': 'false'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Word', 'ExportSet':{ 'Ident':'Word', 'PageRange': {}, 'ImageQuality': '100', 'ImageResolution':'200', 'RemoveEmptySpaceAtBottom': 'false' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.8 Open Document Writer

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'ODW',
   'Description': 'This is a sample export to Open Document Writer',
   'FileType': 'OpenDocumentWriter'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'ODW','Description':'This is a sample export to Open Document Writer', 'FileType': 'OpenDocumentWriter' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
```

```
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "OpenDocumentWriter",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "ODW",
          "Description": "This is a sample export to Open Document
Writer",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the

Key parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'ODW',
   'ExportSet': {
      'Ident': 'OpenDocumentWriter',
      'PageRange': {},
      'ImageQuality': '75'
      'ImageResolution': '200',
      'RemoveEmptySpaceAtBottom': 'false'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'OpenDocumentWriter', 'ExportSet':{ 'Ident':'OpenDocumentWriter', 'PageRange': {}, 'ImageQuality': '100', 'ImageResolution':'200', 'RemoveEmptySpaceAtBottom': 'false' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.9 Excel

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Excel',
   'Description': 'This is a sample export to Excel',
   'FileType': 'Excel'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Excel','Description':'This is a sample export to Excel', 'FileType': 'Pdf' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Excel",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Excel",
          "Description": "This is a sample export to Excel",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A

custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'ExportReport.xlsx',
   'ExportSet': {
      'Ident': 'Excel2007',
      'ImageQuality': '75'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: 7cc93e33645f4e05975e3a468229c00f" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'ExportReport.xlsx', 'ExportSet':{ 'Ident':'Excel2007', 'ImageQuality':'75' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
...
```

1.2.8.10 Open Document Calc

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'ODC',
   'Description': 'This is a sample export to Open Document Calc',
   'FileType': 'OpenDocumentCalc'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'ODC','Description':'This is a sample export to Open Document Calc', 'FileType': 'OpenDocumentCalc' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "OpenDocumentCalc",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "ODC",
          "Description": "This is a sample export to Open Document Calc",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:

A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'ODC',
   'ExportSet': {
      'Ident': 'OpenDocumentCalc',
      'PageRange': {},
      'ImageQuality': '100'
      'ImageResolution': '200'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Open Document Calc', 'ExportSet':{ 'Ident':'OpenDocumentCalc', 'PageRange': {}, 'ImageQuality': '100', 'ImageResolution':'200' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
```

```
...
```

1.2.8.11 Data

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Data',
   'Description': 'This is a sample export to Data (CSV)',
   'FileType': 'Data'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Data','Description':'This is a sample export to Data (CSV)', 'FileType': 'Data' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Data",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Data",
          "Description": "This is a sample export to Data (CSV)",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'FileItem',
   'ExportSet': {
      'Ident': 'Pdf',
      'PageRange': {},
      'DataType': 'Csv'
      'DataExportMode': 'DataAndHeadersFooters'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Data', 'ExportSet':{ 'Ident':'Data', 'PageRange': {}, 'DataType': 'Csv', 'DataExportMode': 'DataAndHeadersFooters' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
```

```
}
...
```

1.2.8.12 Image

There are two stages in the export of a report template:
- A file item is created for a future report;
- Export a report template to the destination file item.

Create Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/files

Method:
POST

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-SessionKey contains the session key of the current user. In POST-data must specify the JSON-object, which describing the new file item:

POST-data in the **JSON**-object

```
...
{
   'Ident': 'FileItem',
   'Name': 'Image',
   'Description': 'This is a sample export to image',
   'FileType': 'Image'
}
...
```

CURL example:
curl -X POST -H "x-sti-SessionKey: 4ccbebaac38642b4a182d555aa09ee46" -d "{ 'Ident':'FileItem','Name':'Image','Description':'This is a sample export to image', 'FileType': 'Image' }" http://cloud.stimulsoft.com/1/files

Returns:
The JSON object containing the field ResultSessionKey, which is a list of members of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemSave",
      "AllowSignalsReturn": false,
      "SaveEmptyResources": false,
      "ResultItems": [
        {
          "Ident": "FileItem",
          "FileType": "Image",
          "ShareLevel": "Private",
          "HasItems": false,
          "StateKey": "1",
          "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
          "Name": "Image",
          "Description": "This is a sample export to image",
          "Created": "\/Date(1588776549595)\/",
          "Modified": "\/Date(1588776549595)\/",
          "Visible": true,
          "Deleted": false,
          "IsMoveable": true,
          "Key": "6ad634d0764849b9801600ad8f7fe56b"
        }
      ],
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceSave",
      "Type": "Insert",
      "ResultVersionKey": "236b612ef1ea4de6842e1cc4fd299e0e",
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```


Export report template to Destination File Item

Url Structure:
https://cloud.stimulsoft.com/1/reporttemplates/{ReportTemplateKey}/run

Method:
PUT

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. A custom header x-sti-DestinationItemKey contains the unique key of the container element. When creating the container element, it is indicated as the value of the **Key** parameter in response. In PUT-data must specify the JSON-object, which describing the new file item:

PUT-data in the **JSON**-object

```
...
{
   'FileItemName': 'Image',
   'ExportSet': {
      'Ident': 'Image',
      'ImageType': 'Png',
      'ImageResolution': '200'
      ...
   }
}
...
```

CURL example:
curl -X PUT -H "x-sti-SessionKey: ea46a3c2c2084439832ea4518d8a5af2" -H "x-sti-DestinationItemKey: 6ad634d0764849b9801600ad8f7fe56b" -d "{ 'FileItemName':'Image', 'ExportSet':{ 'Ident':'Image', 'ImageType':'Png', 'ImageResolution': '200' } }" http://cloud.stimulsoft.com/1/reporttemplates/a8dde8679ecb43cbbba190786a2b44f3/run

Returns:
The JSON object contains the field "ResultTaskKey," which holds the key of the export task running in the background. The success of the command execution is checked by the content of the field ResultSuccess.

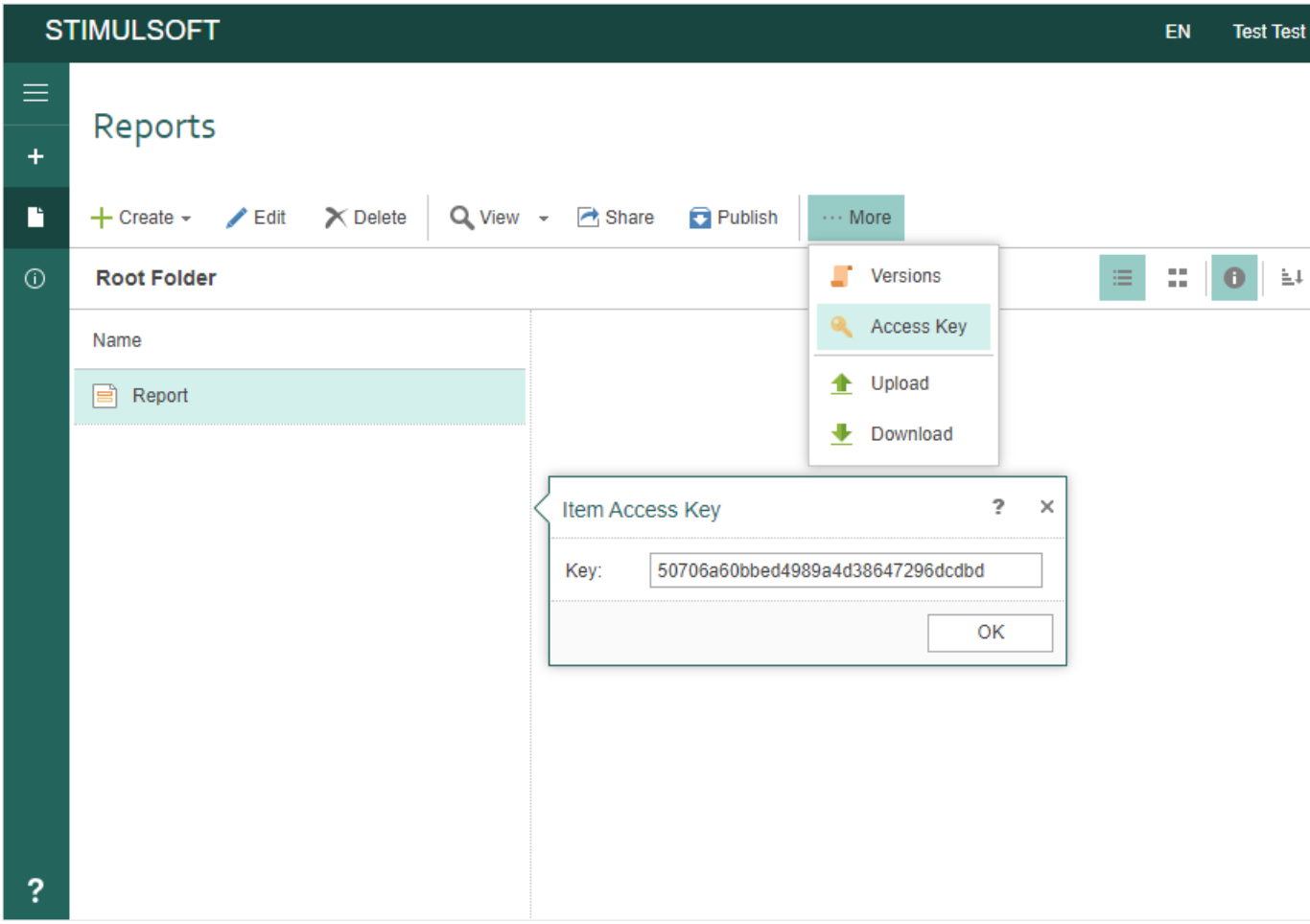
Sample **JSON** response

```
...
{
  "Ident": "ReportRun",
  "AllowNotifications": false,
  "AllowSignals": false,
  "FileType": "ReportSnapshot",
  "ItemVisibility": true,
  "NotificationVisibility": false,
  "ResultTaskKey": "aff29fe55fb54c4d82951dddc7e6d6ef",
  "ResultSuccess": true
}
```

```
...
```

1.2.8.13 Download

Description:
You can download any element. For this, you need to know its unique key. You can get the Item key using the Access Key command in your Stimulsoft Cloud account.



Url Structure:
https://cloud.stimulsoft.com/1/files/{ItemKey}

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user.

CURL example:
curl -X GET -H "x-sti-SessionKey: 22ed00099bd24fffacf9d5ad2344f457" http://cloud.stimulsoft.com/1/files/a8dde8679ecb43cbbba190786a2b44f3

Returns:
The JSON object containing the collection ResultItems, which contains a list of items in the specified folder of the current workspace. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response


```
...
{
  "Ident": "CommandListRun",
  "ContinueAfterError": false,
  "ResultCommands": [
    {
      "Ident": "ItemGet",
      "AllowDeleted": false,
      "ResultItem": {
        "Ident": "FileItem",
        "FileType": "Pdf",
        "ShareLevel": "Private",
        "HasItems": false,
        "StateKey": "3",
        "WorkspaceKey": "8a87e146d96e4b2e9aa127b22d6d98df",
        "Name": "Test",
        "Description": "This is a TEST",
        "Created": "\/Date(1588776549597)\/",
        "Modified": "\/Date(1588776602287)\/",
        "Visible": true,
        "Deleted": false,
        "IsMoveable": true,
        "Key": "6ad634d0764849b9801600ad8f7fe56b"
      },
      "ResultLastVersionKey": "87ea176df38346209cb4561ad86a8840",
      "ResultSuccess": true
    },
    {
      "Ident": "ItemResourceGet",
      "ResultResource": "JVBERi0xLjcNCiXi48/
TDQoxIDAgb2JqDD.....................", //your pdf file content
      "ResultSuccess": true
    }
  ],
  "ResultSuccess": true
}
...
```

1.2.8.14 Track Task Status

Description:
Getting the status of a task that is running in the background.

Url Structure:
http://cloud.stimulsoft.com/1/task/{taskKey}

Method:
GET

Parameters:
A custom header x-sti-SessionKey contains the session key of the current user. The URL contains the task key for tracking its status.

CURL example:
curl -X GET -H "x-sti-SessionKey: 1add6a4f1c5e481c80e964b613ee6089" http://reports.stimulsoft.com/1/task/{taskKey}

Returns:
The JSON object containing the collection ResultStatus, which contains a list of the task information. The success of the command execution is checked by the content of the field ResultSuccess.

Sample **JSON** response

```
...
{
   "Ident": "TaskStatus",
   "ResultStatus": {
      "Ident": "Task",
      "Name": "ReportRunAndTransfer",
      "Created": "2023-09-08T09:24:56.283Z",
      "Started": "2023-09-08T09:24:56.34Z",
      "Status": "Running",
      "IsMonitorTask": false,
      "IsWaiting": false,
      "IsRunning": true,
      "IsProcessed": false,
      "IsFinished": false,
      "IsStopped": false,
      "IsError": false
   },
   "ResultSuccess": true
   }
...
```