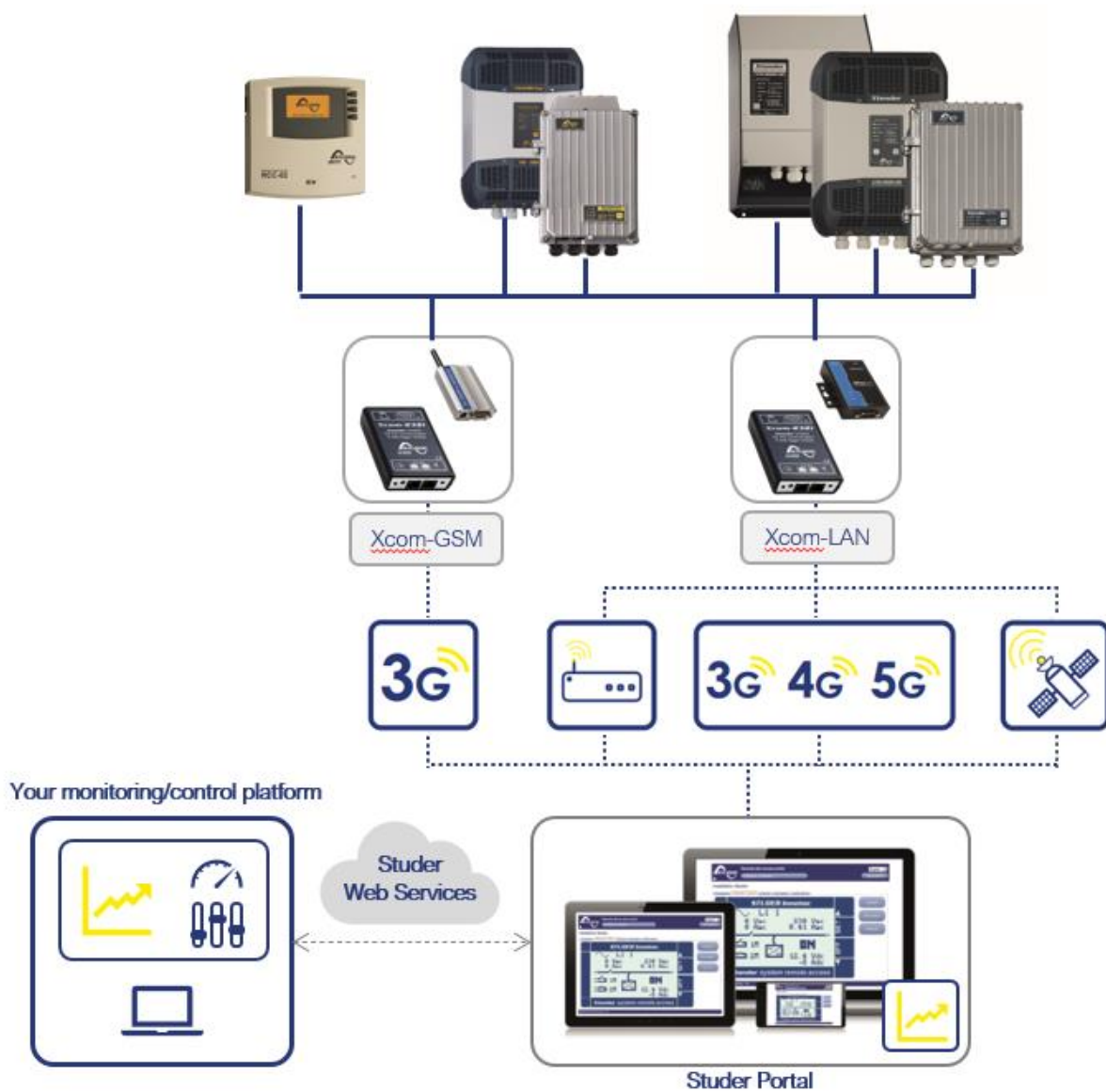


## Can I access my Xtender installation through web services?

The Studer Web Service facilitate easily to integrate the data from your Xtender installation in your web-based platform. This is possible through a RESTful based API (Application Programming Interface). More info about REST in this [article](#) by Wikipedia.

To communicate the installation to Studer server, it is necessary one of these 2 accessories: Xcom-LAN or Xcom-GSM.





## Technical Article

# Can I access my Xtender installation through web services?

The Studer Web API is available with the following 4 functions:

HTTP Verb	Action
GET	Read, Load, Watch
POST	Create, Sync
PUT	Update, Modify
DELETE	Delete, Cancel

And it is structured in the following way:

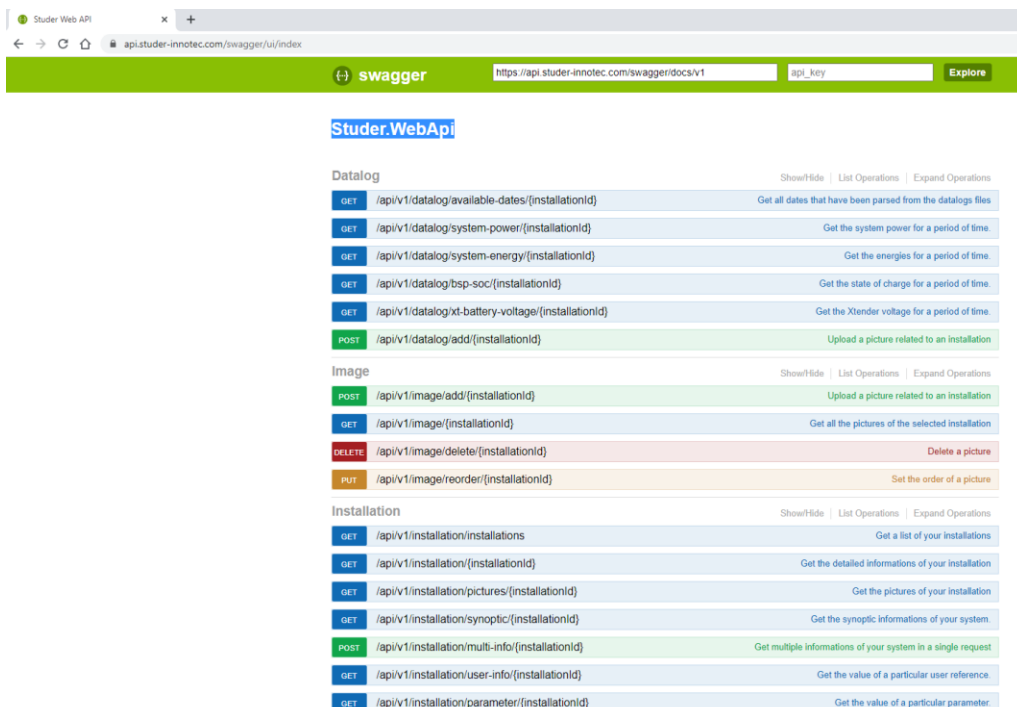
**/installation** - Data related to an installation (synoptic, parameters, etc)

**/datalog** - Related to datalog portal features

**/message** - Consulting messages

**/image** - Managing installation's pictures

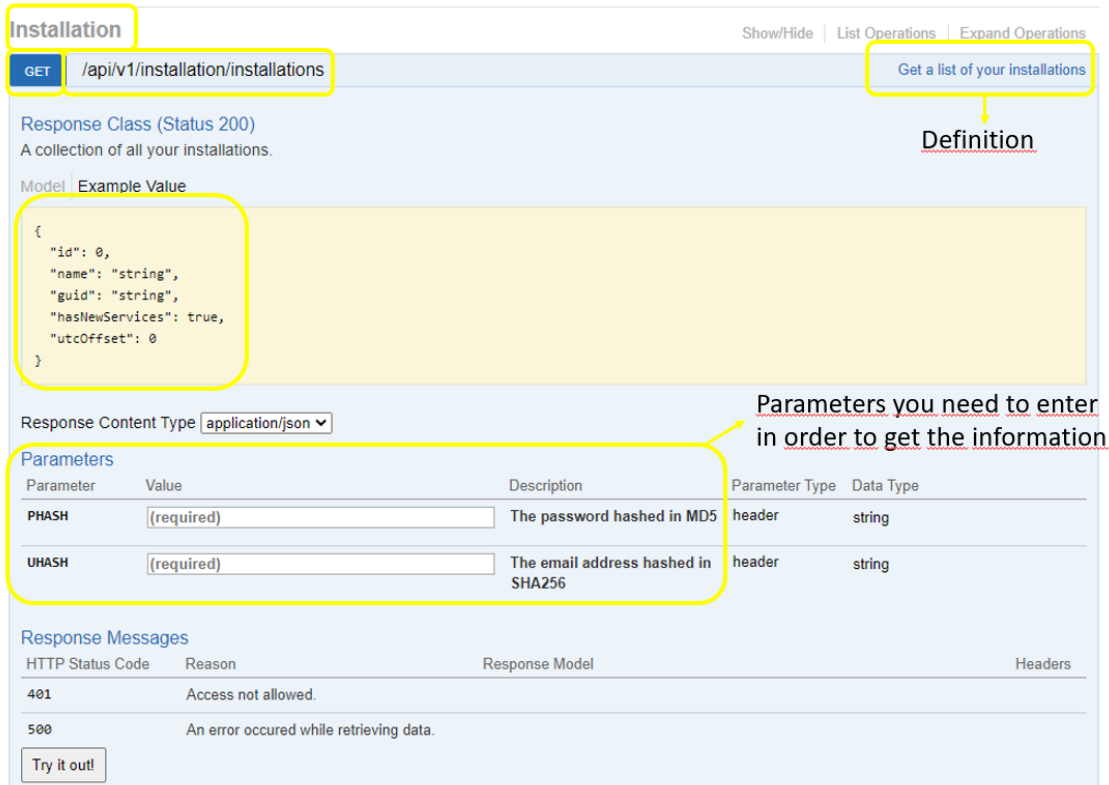
When you access to Studer API <https://api.studer-innotec.com/swagger/ui/index>, it will show you these 4 submenus and an index with its operation list available (See image below).



## Can I access my Xtender installation through web services?

When you click in a particular operation, it will expand and show its structure

Example:



Installation Show/Hide | List Operations | Expand Operations

**GET** /api/v1/installation/installations Get a list of your installations

Response Class (Status 200)  
A collection of all your installations.

Model Example Value

```
{
  "id": 0,
  "name": "string",
  "guid": "string",
  "hasNewServices": true,
  "utcOffset": 0
}
```

Response Content Type

**Parameters**

Parameter	Value	Description	Parameter Type	Data Type
PHASH	<input type="text" value="(required)"/>	The password hashed in MD5	header	string
UHASH	<input type="text" value="(required)"/>	The email address hashed in SHA256	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Access not allowed.		
500	An error occurred while retrieving data.		

Parameters you need to enter in order to get the information

Independently of the operation you want to perform, you need to supply at least 2 parameters: Email address and password to get access. These values must be encoded for security reasons.

- Password must be encoded in MD5
- Email address must be encoded in SHA256

You can use this tool for this task:

<https://emn178.github.io/online-tools/md5.html> (To encode in MD5)

<https://emn178.github.io/online-tools/sha256.html> (To encode in THS256)

Note: PHASH and UHASH parameters are special because they must be passed in Header's request.

A useful tool to test, it is a third party SW called Postman.

<https://www.postman.com/downloads/>