

## Advantech AE Technical Share Document

Date	2018/11/16	SR#	1-3604773941
Category	■FAQ □SOP	Related OS	N/A
Abstract	How to use C# to implement HTTPS RESTful command for iRTU device		
Keyword	C#, HTTPS, RESTful		
Related Product	ADAM-3600, ECU-1152, ECU-1251		

### ■ Problem Description:

This document explains how to use C# to implement HTTPS RESTful command for iRTU device.

### ■ Answer:

Please refer to this document for basic usage of RESTful command for iRTU device.

<http://forum.adamcommunity.com/viewthread.php?tid=96463>

To support HTTPS, we modified the codes with following items.

1. Skip SSL certification.
2. Create the Cookie response after system login.

The execution result as followings.

1. Send "PUT" request for session ID.

The screenshot shows a window titled "ADAM-3600 REST sample". It contains the following fields and values:

- IP address: 172.16.12.14 / syslog\_in
- URL: https://172.16.12.14/syslog\_in
- Account: root
- Password: \*\*\*\*\*
- Method: PUT (selected from a dropdown menu)
- Patch Data: {"password":"00000000"}
- Send HTTPS request: A button that has been clicked.
- JSON data: {"session\_id":"0442ca3268e7fb8a655f0f2c78dc099bc42"}

## 2. Send Get data tags

ADAM-3600 REST sample

IP address: 172.16.12.14 / data/tags

URL: https://172.16.12.14/data/tags

Account: root

Password: \*\*\*\*\*

Method: GET

Patch Data:

Send HTTPS request

JSON data:

```
{
  "#SYS_UPTIME": {
    "value": "75702",
    "quality": "0000H",
    "timestamp": "1540347596.827916"
  },
  "#SYS_CURRENT_TIME": {
    "value": "1540347596",
    "quality": "0000H",
    "timestamp": "1540347596.827924"
  },
  "#SYS_CPU_FREQ": {
    "value": "629145600",
    "quality": "0000H",
    "timestamp": "1540273552.897799"
  },
  "#SYS_MEM_SIZE": {
    "value": "242.25 MB",
    "quality": "0000H",
    "timestamp": "1540273552.899466"
  },
  "#SYS_CPU_USED": {
    "value": "4.00%",
    "quality": "0000H",
    "timestamp": "1540347596.828547"
  },
  "#SYS_MEM_USED": {
    "value": "18.38%",
    "quality": "0000H",
    "timestamp": "1540347596.828547"
  }
}
```

ADAM-3600 REST sample

IP address: 172.16.12.14 / data/ai\_value/slot\_0/ch\_0

URL: https://172.16.12.14/data/ai\_value/slot\_0/ch\_0

Account: root

Password: \*\*\*\*\*

Method: GET

Patch Data:

Send HTTPS request

JSON data:

```
{
  "Ch": 0, "En": 0, "Rng": 1, "Val": 32760,
  "Eg": 0, "Evt": 0, "LoA": 0, "HiA": 0, "HVal": 0,
  "HEg": 0, "LVal": 0, "LEg": 0, "SVal": 0,
  "ChH": 0, "ChL": 0
}
```

There is more information in the source codes. <https://gitlab.com/John.Sun/adam-3600-rest>