

BOXTEL CLIENT MODULE with RealSync Document

Change Log

Date	Version	
31/08/2024	1.0.0.9	.Net framework has downgraded to 4.8 from 4.8.1 due to compatibility issue with WINDOWS SERVER 2016.
21/08/2024	1.0.0.8	Command ID reordered
11/08/2024	1.0.0.7	Fixed a bug in Delete User
20/06/2024	1.0.0.6	More commands were added
17/06/2024	1.0.0.5	"Send Commands To Device" feature added
10/06/2023	1.0.0.4	Device Online status feature has added.
01/06/2023	1.0.0.3	Fix : Applied Some Minor Changes
24/05/2022	1.0.0.2	Added feature to upload Photo along with Attendance log
20/04/2022	1.0.0.1	Fix : Applied Some Minor Changes
01/04/2022	1.0.0.0	First Release

Boxtel Client Module with RealSync will receive the logs in real time then Upload the 3rd party server. This module does support various BOXTEL Attendance terminals like FB-20, FB-30, BIOFACE-50, BIOFACE-60, FA-70, AIPRO-10, AIPRO-20 and AIPRO-30. This module can install from WINDOWS 7+, .Net Framework 4.8.1. This module can handle multiple Biometric Terminals request. We recommend that WINDOWS SERVER is a best choice to handle more than 4 Biometric Terminals.

3rd party server must reply using below response format

```
{
  "returnStatus" : "true",
  "returnMessage": "Successfully connected",
  "returnValue": ""
}
```

ReturnStatus : Boolean, true / false

ReturnMessage : Non null string. A message to show to user

ReturnValue : Non null string. It could be any additional value.

Test Connection API (Get method) response format

```
{
  "returnStatus" : "true",
```

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```
"returnMessage": "Successfully connected",  
"returnValue": ""  
}
```

Attendance log API (Post method) Payload in JSON Format

```
{  
  "biometricUserID": "",  
  "clockDateTimeD": "dd/MM/yyyy HH:mm:ss",  
  "cloudID": "",  
  "machineNoN": 0,  
  "workCodeN": 0,  
  "statusC": "",  
  "verifyC": "",  
  "PhotoC": "",  
  "reserved1C": "",  
  "reserved2C": ""  
}
```

Server Response in JSON Format

```
{  
  "returnStatus": "true",  
  "returnMessage": "Successfully added",  
  "returnValue": ""  
}
```

Online Status API (Post method) Payload in JSON Format

```
{  
  "cloudID": "",  
  "LastOnlineTimeC": "dd/MM/yyyy HH:mm:ss"  
}
```

Server Response in json format

```
{  
  "returnStatus": "true",  
  "returnMessage": "Successfully updated",  
  "returnValue": ""  
}
```

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Send Command API (Post method) Payload in JSON Format

If no command to send then returnStatus must be false otherwise true.

This API must supply only one command at a time. Maintain a status of each command to identify that which command is yet to send, already sent and command completed status.

```
{
    "cloudIDC":""
}
```

Server Response in JSON Format

```
{
    "returnStatus": "true",
    "returnMessage": "",
    "returnValue": {
        "deviceCommandN": 1,
        "cloudIDC": "",
        "biometricUserIDC": "",
        "param1C": "",
        "param2C": ""
    }
}
```

Command Completed API (Post method) Payload in JSON Format

```
{
    "deviceCommandN": 0,
    "cloudIDC": "",
    "biometricUserIDC": "",
    "param1C": "",
    "param2C": ""
}
```

Server Response in json format

```
{
    "returnStatus": "true",
    "returnMessage": "Successfully updated",
    "returnValue": ""
}
```

Get Sent Command List API (Post method) Payload in JSON Format

When our middle ware system call this API, your software must check command sent but not completed status then send response to the calling application.

```
{
```

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```

    "deviceCommandN":0,
    "cloudIDC": "",
    "biometricUserIDC": "",
  }

```

Server Response in json format

```

{
  "returnStatus": "true",
  "returnMessage": "",
  "returnValue": "" {
    "deviceCommandN":1,
    "cloudIDC": "",
    "biometricUserIDC": "",
    "param1C": "",
    "param2C": ""
  }
}

```

Get Device Info API (Post method) Payload in JSON Format

```

{
  "cloudIDC": "",
  "totalManagerN": 0,
  "totalUserN":0,
  "totalFaceN":0,
  "totalFPN":0,
  "totalCardN":0,
  "totalPWDN":0
}

```

Server Response in json format

```

{
  "returnStatus": "true",
  "returnMessage": "Successfully updated",
  "returnValue": ""
}

```

Upload User Info API (Post method) Payload in JSON Format

```

{
  "cloudIDC": "",
  "biometricUserIDC": "",
  "staffNameC": "",
  "rFIDC": "",
  "pWDC": "",
  "fingerCountN":0,
  "downloadedFingerTemplateN":0,
}

```

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```
"isFaceEnrolledC": "",  
"downloadedFaceTemplateN": 0,  
"privilegeC": "",  
"isEnabledC": ""
```

```
}
```

Server Response in json format

```
{  
  "returnStatus" : "true",  
  "returnMessage": "Successfully updated",  
  "returnValue": ""  
}
```

Upload User Template Info API (Post method) Payload in JSON Format

```
{  
  "cloudIDC": "",  
  "biometricUserIDC": "",  
  "templateNoN": 0,  
  "templateTypeC": "",  
  "templateC": "",  
  "duressC": ""  
}
```

Server Response in json format

```
{  
  "returnStatus" : "true",  
  "returnMessage": "Successfully updated",  
  "returnValue": ""  
}
```

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Pending User Template to download API (Post method) Payload in JSON Format

```
{
    "cloudIDC": "",
}
```

Server Response in json format

```
{
  "returnStatus" : "true",
  "returnMessage": "Successfully updated",
  "returnValue": "{
    "cloudIDC": "",
    "biometricUserID=C": "",
    "staffNameC": "",
    "rFIDC": "",
    "pWDC": "",
    "fingerCountN": 0,
    "downloadedFingerTemplateN": 0,
    "isFaceEnrolledC": "",
    "downloadedFaceTemplateN": 0,
    "privilegeC": "",
    "isEnabledC": ""
  }"
}
```

Download User Info API (Post method) Payload in JSON Format

```
{
    "cloudIDC": "",
    "biometricUserIDC": ""
}
```

Server Response in json format

```
{
  "returnStatus" : "true",
  "returnMessage": "Successfully updated",
  "returnValue": "{
    "cloudIDC": "",
    "biometricUserIDC": "",
    "staffNameC": "",
    "rFIDC": "",
    "pWDC": "",
    "fingerCountN": 0,
    "downloadedFingerTemplateN": 0,
    "isFaceEnrolledC": "",
    "downloadedFaceTemplateN": 0,
  }"
}
```

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```

    "privilegeC": "",
    "isEnabledC": ""
  }
}

```

Download User Template API (Post method) Payload in JSON Format

```

{
  "cloudIDC": "",
  "biometricUserIDC": "",
  "templateNoN": 0,
  "templateTypeC": "",
  "templateC": "",
  "duressC": ""
}

```

Server Response in json format

```

{
  "returnStatus": "true",
  "returnMessage": "Successfully updated",
  "returnValue": {
    "cloudIDC": "",
    "biometricUserIDC": "",
    "templateNoN": 0,
    "templateTypeC": "",
    "templateC": "",
    "duressC": ""
  }
}

```

AVAILABLE COMMANDS

Command Id	Command Description	Server Response
1	To Clear Admin Lock Send	deviceCommandN = 1, cloudIDC = device cloud id
2	Get Device Info (Registered User, FP, Face count	deviceCommandN = 2, cloudIDC = device cloud id
3	Get All Attendance log	deviceCommandN = 3, cloudIDC = device cloud ID
4	Get All user info from biometric terminal (Including RFID Card, Password, Fingerprint & Face	deviceCommandN = 4, cloudIDC = device cloud ID to download all user

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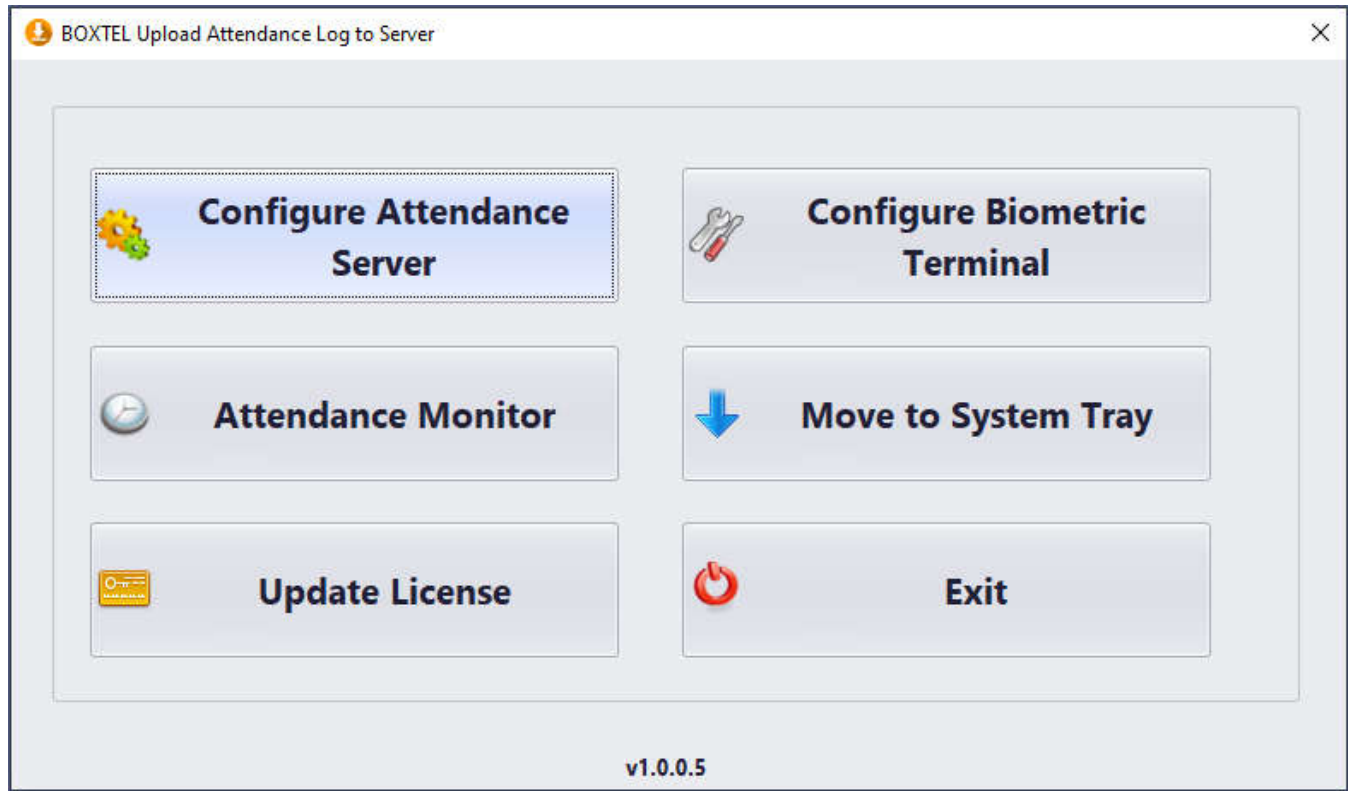
	template)	information from biometric terminal to database
5	Upload User Info to another biometric terminal (including Name, RFID Card, Password, Fingerprint & Face)	deviceCommandN = 5, cloudIDC = device cloud id, biometricUserIDC = enroll number to upload user information to biometric terminal from database
6	Enable User	deviceCommandN = 6, cloudIDC = device cloud id, biometricUserIDC = enroll number to enable the user
7	Disable User	deviceCommandN = 7, cloudIDC = device cloud id, biometricUserIDC = enroll number to disable the user
8	Delete User	deviceCommandN = 8, cloudIDC = device cloud id, biometricUserIDC = enroll number to delete the user

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Main Menu screen



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Configure Attendance Server

Configure Attendance Server

Attendance Server URL

Real Sync Port No.

https://demo-htm.boxtelsystems.com

81

API END POINT (* All API End Point must prefix with slash "/")

Test API End Point

Attendance Log

/testapi

/attdlog

Online Status

Upload Device Info.

/onlinestatus

/uploaddeviceinfo

Send Command

Command Completed

/sendcommand

/commandcompleted

Upload User

Download User

/uploaduser

/downloaduser

Reply from Server

Test Server

Save URL

Exit

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Configure Attendance Terminal

Attendance Monitor

Listening Port No.

Attendance Server URL


Attendance Log API End Point

Reply from Server

Initializing Server...
starting Server Module...
Result : Success...!

Start Real Sync Server

Stop Real Sync Serer

 Exit

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