



Admin Web Service API Reference

**iAnywhere<sup>®</sup> Mobile Office 5.7**

Document ID: DC01166-01-0570-01

LAST REVISED: *September 2009*

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## About Admin Web Service

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The admin web service API enables developers to maintain Mobile Office server from remote web service clients. The functions cover device management, template management, license management, logging and reporting.

## WSDL File

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To obtain the WSDL file of the admin web service, install the Mobile Office server, and set up the admin web service virtual directory in IIS. Open a web browser and point to the following URL. The server name needs to be changed based on the actual installation.

<http://YourWebServer/MobileOffice/Admin.asmx?WSDL>

## Configuring the Mobile Office Admin Web Service

---

The installation of the iAnywhere Mobile Office Admin web service and Mobile Office Sample Admin Web site currently requires the Administrator to manually create virtual directories in IIS. For the current version, the IIS server hosting the Mobile Office admin web service must run on the same machine as the Mobile Office server. ASP.Net 2.0 is required to run the Mobile Office admin web service. ASP.Net 2.0 and ASP.Net AJAX Extensions 1.0 or above are required to run the admin sample web site. The actual path may be different depending on the Mobile Office installation configuration. To configure the Admin Web Service, implement the following four steps.

### 1) Update the Path System Variable

Open the **Control** Panel and double-click on the **System** icon.

Click the **Advanced** tab and click the **Environment Variables** button.

In the **System variables** window, double-click the **Path** item and add the following path in the **Variable value** field: C:\Program Files\iAnywhere Mobile Office\Bin

Click the **OK** buttons.

### 2) Create a Virtual Directory for Admin Web Service

1. From the **Start** menu, click **Administrative Tools** and select **Internet Information Services (IIS) Manager**.

Expand the name of the local computer and then expand **Web Sites**.

Right-click on **Default Web Site**, click **New**, and then click **Virtual Directory**.

When the Welcome to the Virtual Directory Creation Wizard launches, click **Next**.

On the **Virtual Directory Alias** page, type **MobileOffice** for the virtual directory in the Alias field and then click **Next**.

On the **Web Site Content Directory** page, browse to the location of C:\Program Files\ iAnywhere Mobile Office \Bin\WebServices.

Select the **WebServices** directory, click **OK**, and then click **Next**.

On the **Virtual Directory Access Permission** page, click the **Read** and the **Run Scripts (such as ASP)** checkboxes and then click **Next**.

On the final screen of the wizard, click **Finish**.

Right-click on the newly created **MobileOffice** directory and click **Properties**.

Select the **ASP.NET** tab and verify that the ASP.NET version is 2.0. If not, change it to 2.0 and click **OK**.

Assign administrator privilege to the user account running the Admin web service application. The Admin web service requires administrator privilege, which is not provided by the default ASPNET account. There are many ways to do so depending on the IIS and web site configuration. Two easy options are provided here for reference:

**Option 1:**

- Open C:\WINDOWS\Microsoft.NET \ Framework \ v2.0.50727 \ Config\Machine.config
- Replace <processModel autoConfig="true"/> with <processModel userName="SYSTEM" password="AutoGenerate" />

(To apply this option on Windows Server 2003, the process model of IIS 6 must be IIS 5.0 isolation mode.)

**Option 2:**

- Open C:\Program Files\ iAnywhere Mobile Office \Bin\WebServices\Web.config
- Uncomment line <!--identity impersonate="true" userName="accountname" password="password"/-->, and replace "accountname" and "password" with a user credential having administrator privilege.

### 3) Create a Virtual Directory for Sample Admin Web Site

1. In the **Start** menu, click **Administrative Tools** and select **Internet Information Services (IIS) Manager**.

Expand the name of the local computer and then expand **Web Sites**.

Right-click on **Default Web Site**, click **New**, and then click **Virtual Directory**.

When the **Welcome to the Virtual Directory Creation Wizard** launches, click **Next**.

On the **Virtual Directory Alias** page, type **AdminWebConsole** for the virtual directory in the Alias field and then click **Next**.

On the **Web Site Content Directory** page, browse to the location of C:\Program Files\ iAnywhere Mobile Office\Tools\WebServices Samples\WebConsole.

Select the **WebConsole** directory, click **OK**, and then click **Next**.

On the **Virtual Directory Access Permission** page, click the **Read** and the **Run scripts (such a ASP)** checkboxes and then click **Next**.

On the final screen of the wizard, click **Finish**.

Right-click on the newly created **AdminWebConsole** virtual directory, and click **Properties**.

Select **ASP.Net** tab and verify the ASP.NET version is 2.0. If not, change it to 2.0.



#### 4) Restart the Computer and Verify the Configuration

1. Open Internet Explorer and go to <http://localhost/MobileOffice/Admin.aspx>

The page should show the available web methods in admin web service.

Change the URL to <http://localhost/AdminWebConsole/Default.aspx>

The page should show the Admin web console application's default page.

*Note:* For the current implementation, before registering devices through admin web service methods, at least one template needs to be configured on the server side by the Mobile Office Admin Win32 application. The template used by web methods must contain the valid value for the following settings:

Connection:

- Company ID
- Server Name
- Server Port

User Registration:

- Email From

## Admin Web Service - Custom Types

---

### AdminUser

Information about administrator user account

#### Syntax

```
public struct AdminUser
{
    public int DeviceID;
    public string UserName;
    public int DeviceStatus;
}
```

#### Members

##### DeviceID

Unique identifier of a device

##### UserName

Administrator account user name

##### DeviceStatus

The current status of a device. The possible values are:

<b>1</b>	<b>Registered</b>
<b>2</b>	<b>Online</b>
<b>3</b>	<b>Offline</b>
<b>4</b>	<b>Expired</b>
<b>5</b>	<b>Disabled</b>

## BackendUser

Containing the backend user information.

### Syntax

```
public struct BackendUser
{
    public string FullName;
    public string ShortName;
    public string GroupList;
    public int ExistingRegistrationCount;
}
```

### Members

**FullName**

The full user name in the backend server.

**ShortName**

The short name in the backend server.

**GroupList**

The list of group names the user belongs to.

**ExistingRegistrationCount**

The count of the total device registration for this user

## CloneRequest

Containing request information to clone a new device registration from an existing device registration.

### Syntax

```
public struct CloneRequest
{
    public string UserName;
    public string BackendFullName;
    public int ExistingDeviceID;
    public string EmailCC;
    public string EmailBody;
    public string EmailFrom;
    public string EmailSubject;
    public string ActivationCode;
    public int ExpirationHours;
    public bool SendSMS;
    public string SMSAddress;
    public string SMSUserInstruction;
    public string SMSActivationInformation;
}
```

### Members

#### UserName

The user name for the new registration. This member is optional.

#### BackendFullName

The backend full name for the new registration. This member is optional.

The BackendFullName property is used to identify the user linked to the registration. It is also used when sending technical notifications like errors or registration e-mails. The following is the list of supported Groupware platforms and the value to be used for the BackendFullName property:

Exchange = Unique Mailbox Alias (e.g. JSMITH)  
Domino = FullName (e.g. JOHN SMITH/DOMINO\_DOMAIN)  
IMAP/POP3 = E-Mail Address (e.g. JSMITH@DOMAIN.COM)

In order register the user in no groupware mode, set this member to an empty string ("");

If this member has its default value (NULL), or is explicitly set to NULL, then the BackendFullName in the existing device registration (specified by ExistingDeviceID) will be used into the new cloned registration.

#### ExistingDeviceID

The device id of the existing registration to be cloned.

**EmailCC**

The cc address for sending the activation email. This member is optional.

**EmailBody**

The registration email body. This member is optional.

If the email body contains any of the following place holders, the place holders will be replaced by the actual server settings when sending the activation email to the devices.

%CLIENT_DOWNLOAD_ADDRESS%	Client software download address
%SERVER_NAME%	Server name
%SERVER_PORT%	Server port
%COMPANY_ID%	Company ID
%USER_NAME%	User name
%ACTIVATION_CODE%	Activation code
%ACTIVATION_EXPIRATION%	Activation code expiration date

**EmailFrom**

The from address for sending the activation email. This member is optional.

**EmailSubject**

The subject of the activation email. This member is optional.

**ActivationCode**

The activation code for the new device registration. This member is optional.

**ExpirationHours**

The expiration datetime of the new device registration. This member is optional.

**SendSMS**

Flag to indicate whether to send a SMS activation message to the device.

**SMSAddress**

The SMS Address to send the activation SMS message. This member is ignored if SendSMS is false. If SendSMS is true, then a valid SMS address should be provided either in this field or in existing device registration. . This member is optional.

**SMSUserInstruction**

Set the content of user instruction SMS message. This member is optional.

**SMSActivationInformation;**

Set the content of activation SMS message. This member is optional.

**Remarks**

If any optional members are missing when sending the registration request, the corresponding setting from the existing device registration (the device registration to be cloned) will be used. If the settings are also

missed in the existing device registration, then the default property value will be used. The default property value can be obtained from [GetPropertyDefinitions](#) method.

#### See Also

[GetPropertyDefinitions](#)

## DeliveryReport

Represent a delivery record in reporting database.

#### Syntax

```
public struct DeliveryReport
{
    public string UserName;
    public string DeviceName;
    public int ItemType;.
    public bool ServerToClient;
    public int InsertedItems;
    public int UpdatedItems;
    public int DeletedItems;
}
```

#### Members

##### UserName

The user name of the reporing entry.

##### DeviceName

The device name for the reporting entry, if the device name is empty, then the delivery count is for all the devices belonging to the specified user.

##### ItemType

The type of the delivery report, as indicated by the following table

0	Contacts
1	Calendar
2	Tasks
3	Notepad
4	Inbox
5	Outbox
6	SendItems
7	Drafts
8	DeletedItems
9	Unknown

##### ServerToClient

Indicate whether the delivery items are sending from server to client, or from client to server.

**InsertedItems**

The count of inserted items

**UpdatedItems**

The count of updated items

**DeletedItems**

The count of deleted items.

## LicenseInfo

The server's license information.

**Syntax**

```
public struct LicenseInfo
{
    public bool IsRegistered;
    public int AvailableLicense;
    public int TotalLicense;
    public string SerialNumber;
    public DateTime ExpireDate;
}
```

**Members****IsRegistered**

The flag to indicate whether the server is registered or not. The other fields are valid only if the server is registered.

**AvailableLicense**

The remaining license number that can be used.

**TotalLicense**

The total license number assigned to the server.

**SerialNumber**

The serial number registered for the server.

**ExpireDate**

The license expiration date.

## LicenseRequestResponse

The result of a license request.

### Syntax

```
public struct LicenseRequestResponse
{
    public int ErrorCode;
    public string ErrorMessage;
    public string ServerName;
    public string Version;
    public string RSAKey;
    public string PublicKey;
}
```

### Members

**ErrorCode**

The error code of the request.

**ErrorMessage**

The message to describe the request result.

**ServerName**

The server name of the license request.

**Version**

The server software version.

**RSAKey**

The server's RSA key.

**PublicKey**

The server's public key.



## LogEntry

Represent a log record in log database.

### Syntax

```
public struct LogEntry
{
    public string DeviceName;
    public string UserName;
    public string Category;
    public string Status;
    public DateTime StartTime;
    public DateTime EndTime;
    public DateTime LastModified;
    public string ComputerName;
    public string Summary;
}
```

### Members

**DeviceName**

The device name for the log entry.

**UserName**

The username for the log entry

**Category**

The category of the log entry

**Status**

The status of the log entry

**StartTime**

The start time of the log entry

**EndTime**

The end time of the log entry

**LastModified**

The last modified time of the log entry

**ComputerName**

The computer name of the log entry. Only useful in load balance environment.

**Summary**

The summary of the log entry.

**Remarks**

If an operation has not yet finished, or if an operation gets interrupted abruptly in the middle without submitting its ending time, then the returned log entry for this operation will not have a valid endtime. In this case, the EndTime field will be set to the default value of (1/1/0001 12:00:00 AM).

**PropertyDefinition**

Property definition that can be used for managing template and device settings.

**Syntax**

```
public struct PropertyDefinition
{
    public int ID;
    public string Name;
    public int Type;
    public string Category;
    public string Description;
    public object DefaultValue;
    public int Platform;
    public bool ReadOnly;
    public bool SyncToDevice;
}
```

**Members**

**ID**

The unique property id.

**Name**

The name of the property, the property name is not unique.

**Type**

The type of the property value. The possible values include

1	Bool
2	Int
3	string

**Category**

The category of the property.

**Description**

The description of the property.

**DefaultValue**

The default value of the property. Some properties may not have default values.

**Platform**

The platforms which support this property. The value is a bitwise mask of all the supported platform as indicated by the following values

1	MS Pocket PC
2	MS Smartphone
4	Symbian
8	MS Windows

**ReadOnly**

Indicate whether the property value is a constant and can not be changed.

**SyncToDevice**

Indicate whether the property can be synced to device.

**PropertyItem**

Define a single property's data.

**Syntax**

```
public struct PropertyItem
{
    public int PropertyID;
    public int Mask;
    public object PropertyValue;
    public int DisplayMode ;
}
```

**Members****ID**

The unique property id.

**Mask**

When setting or getting a property's data, this mask field indicates which fields contain the valid data for the request, for example, in order to change an property's display mode to DisplayOnly (true) without changing the property's value, the mask field can be set as 2 when calling the SetDeviceSettings method, so that the PropertyValue field in the structure will be ignored.

The mask field can contain the following values:

0	All fields contain valid values
0x1	PropertyValue field contains valid value
0x2	DisplayMode field contains valid value

**PropertyValue**

The value for the property.

**DisplayMode**

The display mode of the property on device side, the valid values are as follows:

0x0	Property value can be updated on device
-----	---

0x1	Property value is for display only on device
-----	--

**Remarks**

If a DisplayMode is set to true, then the property can be viewed from the device, but it can not be updated by the device user.

**RegistrationRequest**

The request to register a device.

**Syntax**

```
public struct RegistrationRequest
{
    public string UserName;
    public string BackendFullName;
    public string EmailCC;
    public string EmailBody;
    public string EmailFrom;
    public string EmailSubject;
    public string ActivationCode;
    public int ExpirationHours;
    public bool SendSMS;
    public string SMSAddress;
    public string SMSUserinstruction;
    public string SMSActivationInformation;
}
```

**Members****UserName**

The user name for the new registration.

**BackendFullName**

The backend full name for the new registration.

The BackendFullName property is used to identify the user linked to the registration. It is also used when sending technical notifications like errors or registration e-mails. The following is the list of supported Groupware platforms and the value to be used for the BackendFullName property:

Exchange = Unique Mailbox Alias (e.g. JSMITH)  
 Domino = FullName (e.g. JOHN SMITH/DOMINO\_DOMAIN)  
 IMAP/POP3 = E-Mail Address (e.g. JSMITH@DOMAIN.COM)

In order to register the user in no groupware mode, set this member to an empty string ("");

**EmailCC**

The cc address for sending the activation email. This member is optional.

**EmailBody**

The registration email body. This member is optional.

If the email body contains any of the following place holders, the place holders will be replaced by the actual server side settings when server sends the activation emails.

%CLIENT_DOWNLOAD_ADDRESS%	Client software download address
%SERVER_NAME%	Server name
%SERVER_PORT%	Server port
%COMPANY_ID%	Company ID
%USER_NAME%	User name
%ACTIVATION_CODE%	Activation code
%ACTIVATION_EXPIRATION%	Activation code expiration date

**EmailFrom**

The from address for sending the activation email. This member is optional.

**EmailSubject**

The subject of the activation email. This member is optional.

**ActivationCode**

The activation code for the new device registration. This member is optional.

**ExpirationHours**

The expiration datetime of the new device registration. This member is optional.

**SendSMS**

Flag to indicate whether to send a SMS activation message to the device.

**SMSAddress**

The SMS Address to send the activation SMS message. This member is ignored if SendSMS is false. If SendSMS is true, then a valid SMS address should be provided in this field. This member is optional if SendSMS is false.

**SMSUserInstruction**

Set the content of user instruction SMS message. This member is optional.

**SMSActivationInformation;**

Set the content of activation SMS message. This member is optional.

**Remarks**

If any optional members are missing when sending the registration request, if a template name is provided with the request, the missing setting will be replaced by the template settings. If the template name is not provided or if the property value is not defined in the template, then the default property value will be used. The default property value can be returned from [GetPropertyDefinitions](#) method.

**See Also**[GetPropertyDefinitions](#)[RegisterUsersBySettings](#)[RegisterUsersByTemplate](#)**RegistrationResponse**

Containing the device registration response information.

**Syntax**

```
Public struct RegistrationResponse
{
    public string UserName;
    public string BackendFullName;
    public int DeviceID,
    public int ErrorCode,
    public string ErrorMessage
}
```

**Members****UserName**

The user name for the new registration.

**BackendFullName**

The backend full name for the new registration.

**DeviceID**

The unique device identifier generated for the new registration.

**ErrorCode**

The returned error code for the request. The possible values are:

0	Success
1	Database operation error
2	Email operation error
3	Invalid argument
4	Unknown error
5	Invalid application ID
6	Invalid template setting

**ErrorMessage**

The detailed message returned from server for the request.

## RequestResponse

Containing the request response information.

### Syntax

```
Public struct RequestResponse
{
    public int DeviceID,
    public int  ErrorCode,
    public string  ErrorMessage
}
```

### Members

#### DeviceID

The unique device identifier for the original request.

#### ErrorCode

The returned error code for the request. The possible values are:

0	Success
1	Database operation error
2	Email operation error
3	Invalid argument
4	Unknown error
5	Invalid application ID
6	Invalid template setting

#### ErrorMessage

The detailed message returned from server for the request.

## ReregistrationRequest

The request to reregister a device.

### Syntax

```
public struct ReregistrationRequest
{
    public int ExistingDeviceID;
    public string EmailCC;
    public string EmailBody;
    public string EmailFrom;
    public string EmailSubject;
    public string ActivationCode;
    public int ExpirationHours;
    public bool SendSMS;
    public string SMSAddress;
    public string SMSUserInstruction;
    public string SMSActivationInformation;
}
```

### Members

#### ExistingDeviceID

The existing device id to be reregistered. The device id will be deleted after the reregistration.

#### EmailCC

The cc address for sending the activation email. This member is optional.

#### EmailBody

The registration email body. This member is optional.

If the email body contains any of the following place holders, the place holders will be replaced by the actual server side settings when server sends the activation emails.

%CLIENT_DOWNLOAD_ADDRESS%	Client software download address
%SERVER_NAME%	Server name
%SERVER_PORT%	Server port
%COMPANY_ID%	Company ID
%USER_NAME%	User name
%ACTIVATION_CODE%	Activation code
%ACTIVATION_EXPIRATION%	Activation code expiration date

#### EmailFrom

The from address for sending the activation email. This member is optional.

#### EmailSubject

The subject of the activation email. This member is optional.



**ActivationCode**

The activation code for the new device registration. This member is optional.

**ExpirationHours**

The expiration datetime of the new device registration. This member is optional.

**SendSMS**

Flag to indicate whether to send a SMS activation message to the device.

**SMSAddress**

The SMS Address to send the activation SMS message. This member is ignored if SendSMS is false. If SendSMS is true, then a valid SMS address should be provided either in this field or in existing device registration. . This member is optional.

**SMSUserInstruction**

Set the content of user instruction SMS message. This member is optional.

**SMSActivationInformation;**

Set the content of activation SMS message. This member is optional.

**Remarks**

If any optional members are missing when sending the reregistration request, the missing setting will be replaced by the settings from the old device ID's registration. If the property value is not defined in the old device's registration, then the default property value will be used. The default property value can be returned from [GetPropertyDefinitions](#) method.

**See Also**

[GetPropertyDefinitions](#)

[ReregisterDevices](#)

## ReregistrationResponse

Containing the reregistration result.

### Syntax

```
public struct ReregistrationResponse
{
    public int OldDeviceID;
    public int DeviceID;
    public int ErrorCode;
    public string ErrorMessage;
}
```

### Members

#### OldDeviceID

The device ID to be reregistered. This device id will be deleted after the reregistration.

#### DeviceID

The new device ID generated on the reregistration.

#### ErrorCode

The returned error code for the request. The possible values are:

0	Success
1	Database operation error
2	Email operation error
3	Invalid argument
4	Unknown error
5	Invalid application ID
6	Invalid template setting

#### ErrorMessage

The detailed message returned from server for the request.

## SubfolderSettings

Information about a single subfolder

### Syntax

```
public struct SubfolderSettings
{
    public string Path;
    public bool Enabled;
    public int PreviewSize;
    public int PastDays;
}
```

### Members

#### Path

The subfolder path. The subfolder path is the unique identifier of subfolders. If a subfolder has a parent, then the path also includes the parent subfolder's name. Parent and child subfolder names are separated with '\r' character.

#### Enabled

Boolean flag that enables or disables syncing of subfolder items between the device and the server

#### PreviewSize

The maximum number of characters (KB) in an email that are downloaded from the server to the device

#### PastDays

Determines the number of days the device will retain previously downloaded emails. Applies to subfolders enabled in the future

## TemplateInfo

Information about a template defined on server.

### Syntax

```
public struct TemplateInfo
{
    public string Name;
    public int ID;
    public string Description;
}
```

### Members

#### **Name**

The template name.

#### **ID**

The template ID.

#### **Description**

The brief description of the specified template

## UserDevice

Containing the information of a registered mobile device.

### Syntax

```
public struct UserDevice
{
    public string UserName;
    public string BackendFullName;
    public string DeviceType;
    public string DeviceModel;
    public int DeviceID;
    public string DeviceName;
    public int DeviceStatus;
    public int PendingItems;
    public DateTime LastDeliveryDate;
    public DateTime ActivationCodeExpireDate;
    public string ClientVersion;
}
```

### Members

#### UserName

The Mobile Office user name.

#### BackendFullName

The user's fullname or unique identifier in backend server.

The BackendFullName property is used to identify the user linked to the registration. It is also used when sending technical notifications like errors or registration e-mails. The following is the list of supported Groupware platforms and the value to be used for the BackendFullName property:

Exchange = Unique Mailbox Alias (e.g. JSMITH)  
 Domino = FullName (e.g. JOHN SMITH/DOMINO\_DOMAIN)  
 IMAP/POP3 = E-Mail Address (e.g. JSMITH@DOMAIN.COM)  
 No Groupware = empty string or null

#### DeviceType

The type of the mobile device. The device must connect to server at least once to have this information. The following table lists the supported device type strings:

Device Type String	Description
ce	For Windows Mobile Professional (WM6) or Pocket PC (WM5) device
smartphone	For Windows Mobile Standard (WM6) or Smartphone (WM5) device
epoc	For Symbian device
iphone	For iPhone

**DeviceModel**

The model of the mobile device. The device must connect to server at least once to have this information.

**DeviceID**

The unique identifier for a registered device generated and maintained by Mobile Office server.

**DeviceName**

The device name reported by a device. The device must connect to server at least once to have this information.

**DeviceStatus**

The current status of a device. The possible values are:

1	Registered
2	Online
3	Offline
4	Expired
5	Disabled

**PendingItems**

The pending items on the server side that needs to be sent to the device. The device must connect to server at least once to have this information.

**LastDeliveryDate**

The datetime of last item delivered from server to device. The device must connect to server at least once to have this information.

**ActivationCodeExpireDate**

The datetime of the expiration date of the device registration.

**ClientVersion**

The version number of the Mobile Office client. The device must connect to server at least once to have this information.

**Remarks**

The DeviceType, DeviceModel, and DeviceName fields in the UserDevice structure will contain an empty string before the first time the device connects to the server. The LastDeliveryDate field will contain a default datetime value of "1/1/0001 12:00:00AM" before the first time the device connects to server. These default values will be replaced by the real values after the device successfully connects to the server at least once.

## Admin Web Service - Operations

---

### Device Management

#### AddAdminUser

Adds a new administrator user account

##### Syntax

```
public RequestResponse AddAdminUser
(
    string strUserName,
    string strActivationCode,
    int iExpirationHours
)
```

##### Request Parameters

**strUserName**

The unique name to identify a new administrator user account.

**strActivationCode**

Activation code for the admin user account

**iExpirationHours**

Number of hours before the account expires if not activated

##### Response

RequestResponse object to indicate the result of this operation

##### See Also

[RequestResponse](#)

#### CloneDeviceRegistration

Register a device by cloning an existing device registration.

##### Syntax

```
public ReregistrationResponse [] CloneDeviceRegistration
(
    CloneRequest[] cloneRequests
)
```

**Request Parameters****cloneRequests**

The array of clone request objects

**Response**

Array of RegistrationResponse objects.

**Remarks**

This method creates a new device registration by copying settings from an existing device registration.

**See Also**

[RequestResponse](#)

**DeleteAdminUser**

Deletes an existing administrator user account

**Syntax**

```
public RequestResponse DeleteAdminUser  
(  
    int iDeviceID  
)
```

**Request Parameters****iDeviceID**

Integer unique identifier for an administrator user account

**Response**

RequestResponse object to indicate the result of this operation

**See Also**

[RequestResponse](#)



## DeleteDevices

Delete registered devices from server.

### Syntax

```
RequestResponse[] DeleteDevices( int[] iDeviceIDs )
```

### Request Parameters

#### **iDeviceIDs**

The array of device IDs that will be deleted from server

### Response

Array of RequestResponse objects.

### See Also

[RequestResponse](#)

## DeleteUser

Delete all registered devices from the server for the specified user.

### Syntax

```
public RequestResponse[] DeleteUser( string strUserName )
```

### Request Parameters

#### **strUserName**

The user name for the deleting operation

### Response

Array of RequestResponse objects.

### See Also

[RequestResponse](#)

**GetAdminUserList**

Returns a list of administrator user accounts

**Syntax**

```
public AdminUser[] GetAdminUserList ( )
```

**Request Parameters**

none

**Response**

Array of AdminUser objects.

**See Also**

[AdminUser](#)

**GetDeviceList**

Return all registered devices from server.

**Syntax**

```
public UserDevice[] GetDeviceList()
```

**Request Parameters**

None

**Response**

Array of UseDevice objects.

**Remarks**

This method returns all the registered devices on server. Use SearchDeviceList method to limit the records returned from the server.

**See Also**

[UserDevice](#)

## GetDeviceListForSingleUser

Return all registered devices for a single user.

### Syntax

```
public UserDevice[] GetDeviceListForSingleUser( string strUserName )
```

### Request Parameters

**strUserName**

The user name to get the device list

### Response

Array of UseDevice objects.

### Remarks

This method returns all the registered devices belonging to a single user.

### See Also

[UserDevice](#)

## GetDeviceSettings

Return all property settings for a registered device.

### Syntax

```
public PropertyItem[] GetDeviceSettings( int iDeviceID )
```

### Request Parameters

**iDeviceID**

The device ID

### Response

Array of PropertyItem objects.

### Remarks

This method returns all the properties of a registered device.

### See Also

[PropertyItem](#)

## GetGroupwareType

Returns groupware type configured for this server instance

### Syntax

```
public string GetGroupwareType ( )
```

### Request Parameters

None.

### Response

String representation of groupware type that the current server instance is configured with.

Groupware type can be one of the following values:

Groupware Type	Description
Email	Server is configured to work in POP/SMTP mode.
Domino	Server is configured for Lotus Domino enterprise backend
Exchange	Server is configured for Microsoft Exchange enterprise backend
None	No Groupware server installation

## GetSubfolderList

Returns a list of subfolders available for a specific device

### Syntax

```
public string[] GetSubfolderList  
(  
    int iDeviceID  
)
```

### Request Parameters

**iDeviceID**

Unique device identifier for the request.

### Response

String array listing all available subfolders for a device.

### Remarks

The subfolder path is the unique identifier of subfolders. If a subfolder has a parent, then the path also includes the parent subfolder's name. Parent and child subfolder names are separated with '\r' character.

## GetSubfolderSettings

Returns subfolder settings for a given device

### Syntax

```
public SubfolderSettings[] GetSubfolderSettings  
(  
    int iDeviceID  
)
```

### Request Parameters

**iDeviceID**

Unique device identifier for the request.

### Response

SubfolderSettings array listing all available subfolders for a device.

### See Also

[SubfolderSettings](#)

## KillDevices

Sends a remote request to specified clients to initiate deletion of client-side data. For more information about kill-pill functionality, refer to iAnywhere Mobile Office Administrator Guide, “Issuing the Kill Pill” section.

### Syntax

```
public RequestResponse[] KillDevices  
(  
    string[] strDeviceNames  
)
```

### Request Parameters

**strDeviceNames**

String array listing device names

### Response

RequestResponse array to indicate the result of this operation

### See Also

[RequestResponse](#)

## RegisterUsersBySettings

Register new device registration by specifying detailed settings. When using this method to register users, no template is required.

### Syntax

```
public RegistrationResponse[] RegisterUsersBySettings
(
    RegistrationRequest[] requests,
    PropertyItem[] settings
)
```

### Request Parameters

#### requests

Array of registration request objects. This parameter specifies the per user registration settings.

#### settings

The property settings used to register the devices. This parameter specifies the common settings that apply to the current registrations for all users.

ReadOnly properties cannot be included in the settings parameter, otherwise an exception will be thrown. Refer to PropertyDefinition for details of the device readonly properties.

The ServerName (PropertyID: 1) must be specified in the settings parameter, and it is the only property required for this parameter. There is no default value for ServerName property. All other properties are optional.

### Response

Array of RegistrationResponse objects.

### Remarks

This method registers multiple devices using the detailed property settings. If any optional property is not set in the registration request, the value will be replaced by the default property value.

If a property is not specified in any of the parameters, then the default property value will be used in the registrations. Be sure the default values (for example, the port number, CompanyID, etc.) match the server configuration.

The value of the following properties can be specified in both **RegistrationRequest[] requests** and **PropertyItem[] settings** parameters. If they are specified in both parameters, then the value specified in the requests parameter ( i.e. the per user registration settings) will apply. If the value specified in the request parameter is null (for string type) or 0 (for integer type), then the value specified in the settings parameter will apply. If a property is not specified in any of the parameters, then the default property values will apply.

Property ID	Description	RegistrationRequest field
901	Registration expiration	ExpirationHours

902	Activation email body	EmailBody
903	Registration email CC list	EmailCC
905	Activation email from	EmailFrom
906	Activation email subject	EmailSubject
907	SMS activation user instruction	SMSUserInstruction
908	SMS activation information	SMSActivationInformation
909	SMS activation address	SMSAddress

**See Also**[RegistrationRequest](#)[PropertyItem](#)[RegistrationResponse](#)**RegisterUsersByTemplate**

Register new devices by a template setting.

**Syntax**

```
public RegistrationResponse[] RegisterUsersByTemplate
(
    string strTemplateName,
    RegistrationRequest[] requests
)
```

**Request Parameters****strTemplateName**

The template name for registering the devices.

**requests**

Array of registration request objects.

**Response**

Array of RegistrationResponse objects.

**Remarks**

This method registers multiple devices using a template definition. If any optional property is not set in the registration request, the value will be replaced by the template settings. If the missing property is not defined in the template, then the default property value will be used for the device registration.

The specified template must have the valid value defined for the following properties:  
server name, port, company id, and activation email's from address.

**See Also**[RegistrationRequest](#)[RegistrationResponse](#)

## ReregisterDevices

Reregister a device.

### Syntax

```
public ReregistrationResponse[] ReregisterDevices
(
    ReregistrationRequest[] reregistrationRequests
)
```

### Request Parameters

#### **reregistrationRequests**

The information for the new device registration.

### Response

Array of ReregistrationResponse objects.

### Remarks

This method reregisters multiple devices. If any optional property is not set in the reregistration request, the value will be replaced by settings from the old device registration. If the old device registration does not have the property defined either, then the default property value will be used for the registration.

The reregistration will generate a new device ID, and the old device ID will be deleted.

### See Also

[ReregistrationRequest](#)

[ReregistrationResponse](#)



## RequestTraceFilesFromDevices

Sends a remote request to specified clients to initiate transfer of client-side trace files

### Syntax

```
public RequestResponse[] RequestTraceFilesFromDevices
(
    int[] iDeviceIDs
)
```

### Request Parameters

#### iDeviceIDs

Integer array listing device IDs

### Response

RequestResponse array to indicate the result of this operation

### Remarks

When the request is processed, the trace files will be saved into "ClientTrace" folder in "Data" folder as specified during the installation of MobileOffice.

Trace file names have the following file name structure:

yyyyMMddHHmmss\_UserName\_DeviceName\_FileName

You can manage the debug trace level and the size of this diagnostic trace log. These settings can be obtained/modified using GetDeviceSettings and SetDeviceSettings webservice calls.

**Debug Trace Level** property item sets the level of detail (from 1 to 5). A higher value increases the level of detail, but also increases the time to upload the device log.

**Debug Trace Size** property item sets the size of the debug trace log on the device. The larger the size, the more time it takes to upload the device log.

### See Also

[RequestResponse](#)

## SearchBackendUsersByGroup

Search backend users based on group name. This method is only supported by Notes backend.

### Syntax

```
public BackendUser[] SearchBackendUsersByGroup  
(  
    string strGroupNameFilter  
)
```

### Request Parameters

#### **strGroupNameFilter**

All users belong to the matched group filter will be returned. This parameter can not be null or empty. The match is case insensitive.

The group name filter is a pattern match starting from the beginning of each group's name, for example, search filter of "Test" will include users in group of "test", "TestGroup", but not include the users in "GroupTest".

### Response

Array of BackendUser objects.

### Remarks

This method return all backend users who belong to the group specified by the group name filter.

### See Also

[BackendUser](#)

## SearchBackendUsersByName

Search backend users based on user name. This method is only supported by Notes and Exchange backend.

### Syntax

```
public BackendUser[] SearchBackendUsersByName  
(  
    string strUserNameFilter  
)
```

### Request Parameters

#### **strUserNameFilter**

The user name to be searched on. This parameter can not be null or empty. The match is case insensitive.

The user name filter is a pattern match starting from the beginning of each user's first name and last name. For example, search filter "first" will include both users of "FirstJoe LastJoe" and "LastJoe FirstJoe", but not include "JoeFirst JoeLast".

### Response

Array of BackendUser objects.

### Remarks

This method returns all backend users whose names match the search filter.

### See Also

BackendUser

## SearchDeviceList

Search registered device list based on input condition

### Syntax

```
public UserDevice[] SearchDeviceList(UserDevice searchCondition)
```

### Request Parameters

#### **searchCondition**

The search filter.

### Response

Array of UserDeivce objects.

### Remarks

This method returns all matched devices' registration.

In the searchCondition parameter, for members of string type, the search is case insensitive. String search uses a wildcard pattern match and all records beginning with the search criteria will be returned. In order to return the records that contain the search criteria in the middle of the data, wildcard symbol (\*) should be used at both the beginning and the end of the search filter. For example, if the user name search filter is "jo", it will match "Jonathan" but not "Maryjo". If the user name search filter is "\*jo\*", it will match both "Jonathan" and "Maryjo".

For members of integer type, exact match "=" will be used.

If the string search filter's value is null (empty), or an integer search filter's value is -1, the search filter will be ignored in the search.

Searching by DateTime fields are not supported. The value specified in LastDeliveryDate and ActivationCodeExpireDate fields will be ignored..

### See Also

[UserDevice](#)

## SendUpgradeToDevices

Sends a retry request to specified devices to perform upgrade of client applications. The specified devices must have Client Auto Upgrade property enabled.

### Syntax

```
public RequestResponse[] SendUpgradeToDevices
(
    int[] iDeviceIDs
)
```

### Request Parameters

#### iDeviceIDs

Integer array listing device IDs

### Response

RequestResponse array to indicate the result of this operation

### Remark

If the Client Auto Upgrade property (Property ID: 1405) is set to true in the device settings, when the administrator upgrades to a new version of the iAnywhere Mobile Office, the new version of the client software will be automatically pushed to all the devices with Client Auto Upgrade enabled. So, normally, it is not required to call this method to upgrade the device side software.

However, if a device has Client Auto Upgrade enabled, but fails to update its software to the server side version, then calling this method will send to a retry command to the device to trigger a software upgrade operation.

If a device has Client Auto Upgrade property disabled, then calling this method on that device has no effect, the retry command will be ignored by the device.

### See Also

[RequestResponse](#)

## SetDeviceSettings

Update property settings for devices.

### Syntax

```
public RequestResponse[] SetDeviceSettings
(
    int[] iDeviceIDs,
    PropertyItem[] settings
)
```

**Request Parameters****iDeviceIDs**

The device IDs to set the settings.

**settings**

The settings to update for the specified devices

**Response**

Array of RequestResponse objects.

**Remarks**

The identical settings will be applied to all the devices specified in iDevicesIDs parameter.

**See Also**

[PropertyItem](#)

[RequestResponse](#)

**SetSubfolderSettings**

Set subfolder settings for a registered device

**Syntax**

```
public RequestResponse SetSubfolderSettings
(
    int iDeviceID,
    SubfolderSettings settings,
    bool bApplySettingsToAllChildFolders
)
```

**Request Parameters****iDeviceID**

Unique device identifier for the request.

**settings**

New settings that should be applied to a specified subfolder.

**bApplySettingsToAllChildFolders**

The flag to indicate whether to apply the settings to all child subfolders, if they exist.

**Response**

RequestResponse indicating the result of the operation.

**Remarks**

In order to set common settings to all available subfolders, set Path in SubfolderSettings to an empty string and bApplySettingsToAllChildFolders flag to true.

All parameters in SubfolderSettings are required. If only one parameter needs to be updated, call GetSubfolderSettings first, modify the parameter, followed by SetSubfolderSettings call.

**See Also**

[SubfolderSettings](#)

[RequestResponse](#)

## Template Management

### AddTemplate

Add a template definition to be used for device registration.

#### Syntax

```
public void AddTemplate
(
    string strTemplateName,
    string strTemplateDescription,
    PropertyItem[] settings
)
```

#### Request Parameters

**strTemplateName**

The unique name to identify the new template.

**strTemplateDescription**

A brief text to describe the template

**settings**

The settings to specified for this template

#### Response

None. An exception will be thrown if the operation fails.

#### Remarks

For properties not specified in settings parameter, the default property value will be used to create the template

#### See Also

[PropertyItem](#)



## DeleteTemplate

Delete an existing template defined on server.

### Syntax

```
public void DeleteTemplate( string strTemplateName)
```

### Request Parameters

**strTemplateName**

The name of the template to be deleted.

### Response

None. An exception will be thrown if the operation fails.

## GetPropertyDefinitions

Get all the available properties defined on the server for the current backend, including property id, name, category, description, type and default value.

### Syntax

```
public PropertyDefinition[] GetPropertyDefinition()
```

### Request Parameters

None

### Response

Array of PropertyDefinition objects.

### Remarks

This method returns all the properties that can be used to register a device or create a template.

### See Also

[PropertyDefinition](#)

## GetTemplateList

Get a list of templates defined on server.

### Syntax

```
public TemplateInfo[] GetTemplateList()
```

### Request Parameters

none.

### Response

A templateInfo object array.

### See Also

[TemplateInfo](#)

## GetTemplateSettings

Get the settings of a template.

### Syntax

```
public PropertyItem[] GetTemplateSettings( string strTemplateName )
```

### Request Parameters

**strTempateName**

The template name to get the settings.

### Response

A PropertItem object array.

### See Also

[PropertyItem](#)

## SetTemplateSettings

Set the settings of a template.

### Syntax

```
public void SetTemplateSettings  
(  
    string strTemplateName,  
    PropertyItem[] settings  
)
```

### Request Parameters

**strTempateName**

The template name to get the settings.

**settings**

The settings to be changed for the template

### Response

none

### See Also

[PropertyItem](#)

## License Management

### GetLicenseInfo

Get the license information of the server.

#### Syntax

```
public LicenseInfo GetLicenseInfo()
```

#### Request Parameters

None

#### Response

A license information object.

#### See Also

[LicenseInfo](#)

### RequestLicense

Submit the serial number of the server to request the license.

#### Syntax

```
public LicenseRequestResponse RequestLicense( string strSerialNumber )
```

#### Request Parameters

##### **strSerialNumber**

The serial number for the server to request the license

#### Response

A license request response object.

#### Remarks

If the server is connected to internet through a proxy server, use RequestLicenseWithProxy method to request a license.

#### See Also

[LicenseRequestResponse](#)

## RequestLicenseWithProxy

Submit the serial number to request the license for server through a proxy server.

### Syntax

```
public LicenseRequestResponse RequestLicenseWithPrxoy
(
    string strSerialNumber,
    string strProxy,
    int iProxyPort,
    string strProxyUserName,
    string strProxyPassword
)
```

### Request Parameters

**strSerialNumber**

The serial number for the server to request the license

**strProxy**

Proxy server name or ip address

**iProxyPort**

Proxy server port

**strProxyUserName**

The user name, if the proxy server requires to authenticate users.

**strProxyPassword**

The password, if the proxy server requires to authenticate users.

### Response

A license request response object.

### Remarks

Only use this method if the server is connected to internet through a proxy server.

### See Also

[LicenseRequestResponse](#)

## Logging and Reporting

Reporting API is not supported on No Groupware servers.

### DeleteLogData

Delete the log data for the specified user or device.

#### Syntax

```
public int DeleteLogData
(
    string strUserName,
    string strDeviceName,
    DateTime startTime,
    DateTime endTime
)
```

#### Request Parameters

**strUserName**

The user name for the deletion. If the username is null or empty string, it matches all users. Case insensitive match.

**strDeviceName**

The device name for the deletion. If the device name is null or empty string, it matches all devices for the specified user. Case insensitive match.

**startTime**

The start time of the log to be deleted. Only those log entries whose start time is larger than the specified **startTime**, or whose start time is null will be deleted.

**endTime**

The end time of the log to be deleted. Only those log entries whose end time is smaller than the specified **endTime**, or whose end time is null will be deleted.

#### Response

The actual entries have been deleted from the log database.

## DeleteDeliveryReportByDevice

Delete the delivery report for the specified device.

### Syntax

```
public int DeleteDeliveryReportByDevice
(
    string strDeviceName,
    DateTime startTime,
    DateTime endTime
)
```

### Request Parameters

**strDeviceName**

The device name for the deletion. If the device name is null or empty string, it matches all devices. Case sensitive match.

**startTime**

The start time of the delivery report to be deleted. Only those reports whose start time is larger than the specified **startTime** will be deleted.

**endTime**

The end time of the delivery report to be deleted. Only those report records whose end time is smaller than the specified **endTime** will be deleted.

### Response

The actual record number that have been deleted from the reporting database.

### Remarks

Since delivery report table stores the delivery information on hourly step, the minute and second information specified in starttime and endtime parameter will be ignored, and truncated to 0 when searching the database.

## DeleteDeliveryReportByUserName

Delete the delivery report for the specified user.

### Syntax

```
public int DeleteDeliveryReportByUserName
(
    string strUserName,
    DateTime startTime,
    DateTime endTime
)
```

### Request Parameters

**strUserName**

The user name for the deletion. If the user name is null or empty string, it matches all devices. Case insensitive match.

**startTime**

The start time of the delivery report to be deleted. Only those reports whose start time is larger than the specified **startTime** will be deleted.

**endTime**

The end time of the delivery report to be deleted. Only those report records whose end time is smaller than the specified **endTime** will be deleted.

### Response

The actual record number that have been deleted from the reporting database.

### Remarks

Since delivery report table stores the delivery information on hourly step, the minute and second information specified in starttime and endtime parameter will be ignored, and truncated to 0 when searching the database.



## GetDeliveryReportByDevice

Get the delivery report for a specified device.

### Syntax

```
public DeliveryReport [] GetDeliveryReportByDevice
(
    string strDeviceName,
    DateTime startTime,
    DateTime endTime
)
```

### Request Parameters

**strDeviceName**

The device name to get the delivery report. If the device name is null or empty string, it matches all device. Case sensitive match.

**startTime**

The start time of the delivery records to be returned. Only those reports whose start time is larger than the specified **startTime** will be returned.

**endTime**

The end time of the delivery records to be returned. Only those reports whose end time is smaller than the specified **endTime** will be returned.

### Response

An array of DeliveryReport objects.

### Remarks

Since delivery report table stores the delivery information on hourly step, the minute and second information specified in starttime and endtime parameter will be ignored, and truncated to 0 when searching the database.

### See Also

[DeliveryReport](#)

## GetDeliveryReportByUserName

Get the delivery report for the specified user.

### Syntax

```
public DeliveryReport [] GetDeliveryReportByUserName
(
    string strUserName,
    DateTime startTime,
    DateTime endTime
)
```

### Request Parameters

**strUserName**

The user name to get the delivery report. If the user name is null or empty string, it matches all device. Case insensitive match.

**startTime**

The start time of the delivery records to be returned. Only those reports whose start time is larger than the specified **startTime** will be returned.

**endTime**

The end time of the delivery records to be returned. Only those reports whose end time is smaller than the specified **endTime** will be returned.

### Response

An array of DeliveryReport objects.

### Remarks

Since delivery report table stores the delivery information on hourly step, the minute and second information specified in starttime and endtime parameter will be ignored, and truncated to 0 when searching the database.

### See Also

[DeliveryReport](#)

## GetLogData

Get the log data for the specified user or device.

### Syntax

```
public LogEntry [] GetLogData
(
    string strUserName,
    string strDeviceName,
    DateTime startTime,
    DateTime endTime,
    int iMaxEntries,
    string strFilter,
    out int iTotalsRecordsAvailable
)
```

### Request Parameters

**strUserName**

The user name to get the log data. If the username is null or empty string, it matches all users. Case insensitive match.

**strDeviceName**

The device name to get the log data. If the device name is null or empty string, it matches all device for the specified user. Case insensitive match.

**startTime**

The start time of the log to be returned. Only those log entries whose start time is larger than the specified **startTime**, or whose starttime is null will be returned.

**endTime**

The end time of the log to be returned. Only those log entries whose end time is smaller than the specified **endTime**, or whose end time is null will be returned.

**iMaxEntries**

The maximal records to returned.

**strFilter**

The search filter to look up within the log entry's summary field. Case insensitive match.

**iTotalsRecordsAvailable**

Output parameter to indicate the total records available on the server side based on the current search conditions. Comparing the returned value of this parameter to iMaxEntries to find out whether there are more records available on the server side..

**Response**

An array of LogEntry objects.

**See Also**

[LogEntry](#)