

Methods of interaction with the ArtZvit program through the Com-interface

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Interface registration

The interface is registered during program installation if "Integration with other programs" is selected. It is also possible to do this from the command line.

Registration: Artzvit.exe register

The launch must be administered. As a result, a text file register.txt and unregister.txt will be created in the directory, in which the log of the regasm command is placed, which shows the success of registration. If the operating system is 64-bit, then files with the x86 prefix will be created for 32-bit programs.

As a result of registration the COM interface of interaction with the ArtZvit.IArtZvitCom1C program becomes available. For 1C, the name is different for historical reasons - ArtZvit.Com1C.

The following is a description of the available methods.

Initialization

```
void Initialization();
```

The method must be called after the object is created.

Example code on VB

```
Private Sub Command1_Click()  
    Dim art1 As ArtZvit.IArtZvitCom1C  
    Set art1 = New ArtZvit.ArtZvitCom1C  
    art1.Initialization  
  
End Sub
```

In the following examples, we will assume that the variable art1 is already initialized.

Test method

```
string Test(String text);
```

Method for tape transfer test. Returns the input tape

Last mistake

```
string GetLastError();
```

If an error occurs as a result of any method and you are unable to intercept it properly, its text can be retrieved using this method

Version

```
string Version();
```

Get the ArtZvit version. It can be used in the future at expanding interfaces to understand what operations are available.

Update the counterparty

```
void UpdateOrInsertContragent(  
    String organizationCode,  
    String code,  
    String name,  
    String taxNumber,  
    String address,  
    String phoneNumber,  
    String mailAddress,  
    String mainOfficeName);
```

Where organizationCode is the USREOU (Unified State Register of Enterprises and Organizations of Ukraine) code of the current organization, code – is the USREOU code of the counterparty

Code example on VB

```
art1.UpdateOrInsertContragent "30404750", "3333333333", "Test", "444444444444", " address",  
"543-43-43", "client@a.net", " Main office "
```

Update the employee

```
void UpdateOrInsertEmployee(  
    String organizationCode,  
    String code,  
    String name,  
    String middlename,  
    String surname,  
    String sex,
```

String birthday,
String startDate,
String endDate,
String isCitizenOfUkraine,
String availabilityEmpBook,
String availabilitySpecialStazh,
String categoryInsuranceRatesId,
String categoryInsuredId);

Dates are set in the format «yyyyMMddHHmmss».

Import report

```
void Import( String filename, String bodyXml);
```

The finished XML report is imported using this method

Export Report

```
string GetTaxBill(String filename);
```

Returns any XML report in the database, regardless of the method name

Receiving information about Tax invoices/settlement adjustments for tax invoices by filter

```
string FilterTaxBills( String organizationCode,  
String filter);
```

The search filter is specified by XML of the following type:

```
<Filter>
```

```
< Import >0</Import>
```

```
<SendDate>
```

```
<StartDate>yyyyMMddHHmmss</StartDate>
```

```
<EndDate>yyyyMMddHHmmss</EndDate>
```

```
</SendDate>
```

```
<RegisterDate>
```

```
<StartDate>yyyyMMddHHmmss</StartDate>
```

```
<EndDate>yyyyMMddHHmmss</EndDate>
```

```
</RegisterDate>
```

```

<CreationDate>
<StartDate>yyyyMMddHHmmss</StartDate>
<EndDate>yyyyMMddHHmmss</EndDate>
</CreationDate>
<ReportStatus>1</ReportStatus>
<ReportStatus>2</ReportStatus>
<StateByTickets>3</StateByTickets>
<StateByTickets>4</StateByTickets>
<ReportType>3</ReportType>
<ReportType>4</ReportType>
<Filename>111.xml</Filename>
<Filename>111.xml</Filename>
<Filename>111.xml</Filename>
<ExtId>111116</ExtId>
<ExtId>111117</ExtId>
<Number>111116</Number>
<Number>111117</Number>
<BuyerCode>111116</BuyerCode>
<BuyerCode>111117</BuyerCode>
<SellerCode>111116</SellerCode>
<SellerCode>111117</SellerCode>
<BuyerEdrpou>111116</BuyerEdrpou>
<BuyerEdrpou>111117</BuyerEdrpou>
<SellerEdrpou>111116</SellerEdrpou>
<SellerEdrpou>111117</SellerEdrpou>
</Filter>

```

Import – possible values

- 1 - (for imported),
- 0 - (for their own)

ReportStatus – document status, possible values:

- 0 - ("Not signed ")
- 1 - ("Accountant Signature ")
- 2 - ("Director's signature ")
- 3 - ("Stamp signature")
- 4 - ("Ready to send")
- 5 - ("Sent")
- 6 - ("Employee's sign")
- 7 - ("Imported ПН")
- 8 - ("Received from ЕРПН")
- 9 - ("Sent to counterparty ")
- 10 - ("Mistaken")
- 11 - ("Signed by seller ")
- 12 - ("Ready for sending to counterparty ")
- 13 - ("The sign of the first individual")
- 14 - ("The sign of the second individual")
- 15 - ("Sign of the buyer's employee ")
- 16 - ("Pseudo-report ")
- 17 - ("Draft ")

StateByTickets – the status of the document on the receipts, possible values:

- 0 - ("Not specified "),
- 1 - ("Accepted"),
- 2 - ("Accepted with comments")
- 3 - ("Not accepted "),
- 5 - ("Accepted by decision of the Commission ")
- 6 - ("Not accepted by decision of the Commission "),
- 7 - ("Blocked ")
- 8 - ("Accepted by decision of the complaint "),
- 9 - ("Not accepted by decision of the complaint ")
- 10 - ("The complaint was left without consideration "),
- 11 - ("Accepted by court decision ")

In the case of the absence of any block, it not taken into account.

As a result we receive XML of such type:

```
<?xml version="1.0" encoding="windows-1251"?>
<ResultList>
  <TaxBill>
    <Filename>26590030049726J1201007100000089310120152659.XML</Filename>
    <ExtId>111116</ExtId>
    <ReportStatus>8</ReportStatus>
    <CreationDate>20150116000000</CreationDate>
    <SendDate>20150116000000</SendDate>
    <Number>897</Number>
  </TaxBill>
  <TaxBill>
    <Filename>26590030049726J1201007100000076710120152659.XML</Filename>
    <ExtId>111117</ExtId>
    <ReportStatus>8</ReportStatus>
    <CreationDate>20150115000000</CreationDate>
    <SendDate>20150116000000</SendDate>
    <Number>768</Number>
  </TaxBill>
```

</ResultList>

Code example on VB

```
Dim result As String  
  
result = art1.FilterTaxBills("90000081", "<Filter><Import>0</Import>  
<CreationDate><StartDate>20150114000000</StartDate><EndDate>20150116000000</EndDate><  
/CreationDate><ReportStatus>8</ReportStatus><ReportStatus>7</ReportStatus></Filter>")
```

Receiving information about the report by filter

```
string FilterReports( String organizationCode,  
String filter);
```

This method is similar to receiving PN / RK, but the filter on Import, CreationDate and parameters of the seller / buyer is absent.

External ID

The filters of the last 2 methods and their results have an ExtId field - this is the report ID of the external system. The following methods will work with this ID.

Delete report

```
void Delete( String extId);
```

Combine reports to a package

```
void LinkReport( String parent, String child);
```

Update report list

```
void Refresh();
```

Set ID

```
void SetExtId(String filename, String extId);
```

Create a report online

Next we will describe the IReport1C interface and its methods for filling the report. You can create an object for this interface using the following method:

```
IReport1C Create( String organizationCode,  
                String template,  
                String year,  
                String month,  
                String period,  
                String state,  
                String extId  
                );
```

Where period takes value:

- 1 - month
- 2 - quarter
- 3 - half-year
- 4 - 9 months
- 5 - year

State takes values:

- 1 - Reporting
- 2 - New reporting
- 3 - Clarifying

Code example on VB

```
Dim report As ArtZvit.IReport1C  
Set report = art1.Create("90000081", "J1201008", "2016", "8", "1", "1", "111116")
```

The next actions we will do with the object report.

Set the value of the report parameter

```
void SetItem(String name, String value);
```

Code example on VB

```
report.SetItem "H03", "1"
```

```
report.SetItem "HNAMEBUY", " the name of the counterparty "
```

```
report.SetItem "HKBUY", " counterparty payer code"
```

Set the value of the tabular parameter of the report

```
void SetTableItem( String rownum, String name, String value);
```

Code example on VB

```
report.SetTableItem "1", "RXXXXG5", "1"
```

```
report.SetTableItem "2", "RXXXXG5", "2"
```

```
report.SetTableItem "3", "RXXXXG5", "3"
```

Save report

```
void Save();
```

When this method is called, all the work of creating a report, generating a file name, etc.

Working with checks

Information about checks

```
String FilterChecks(String filter)
```

You can filter by dates and checkouts

```
<Filter>
```

```
<ORDERDATETIME>
```

```
<StartDate>20180409091925</StartDate>
```

```
<EndDate>20210409091925</EndDate>
```

```
</ORDERDATETIME>
```

```
<CASHREGISTERNUM>7000001521</CASHREGISTERNUM>
```

```
<CASHREGISTERNUM>7000000343</CASHREGISTERNUM>
```

```
</Filter>
```

Returns the parameters of checks stored in the local database::

CASHREGISTERNUM - box office number

DOCSUBTYPE- -subtype of the document

DOCTYPE - document type

ORDERDATETIME - registration time

ORDERNUM- document number at the box office

ORDERTAXNUM - fiscal number

UID is a unique identifier

Id - the number of the document in the database ArtZvit, used in the following method

Body of Check

```
String LoadCheck(String id)
```

Initiate ArtZvit by password

```
void SetPassword(String password)
```

The password is set, the same as for entering the ArtZvit. The following methods does not work without calling this method.

Check registration

```
String RegisterCheck(String bodyXml, String organizationCode)
```

bodyXml - XML check that meets the requirements of the tax

organizationCode - the USREOU code of the organization, the key of the employee of the Registry Operator whose check will be registered.

As a result, we get:

ORDERTAXNUM - fiscal number of the check

ORDERDATETIME - date and time of check registration

QRCODE - a link to the tax site to generate a QR on the check