

# EMC SourceOne QA Tool

## Install Validation Tool User Guide



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# INTRODUCE

## GENERAL

This utility is help to verify the installation of software production on Windows Platform.

- Support many common validation points after you installed a build. (See check list below)
- Base on config files to do validation. so it is easy for you to generate a config for your own product without change the source code.
- Do remote validation. This means you do not need to log on the target machine. This would be a great help if your product need to deploy on a many servers or in a complex environment.
- Support to export validation result (format as .log .csv .xml).

## Supported Check List

- Control Panel -> Uninstall Items Version Check
- Binary version Check (Product Version, File Version)
- Register check
- File or Folder check
- Database Check
- COM Register Check
- Windows Service Check
- EventLog Check
- GAC Assembly Check

## Pre-Request

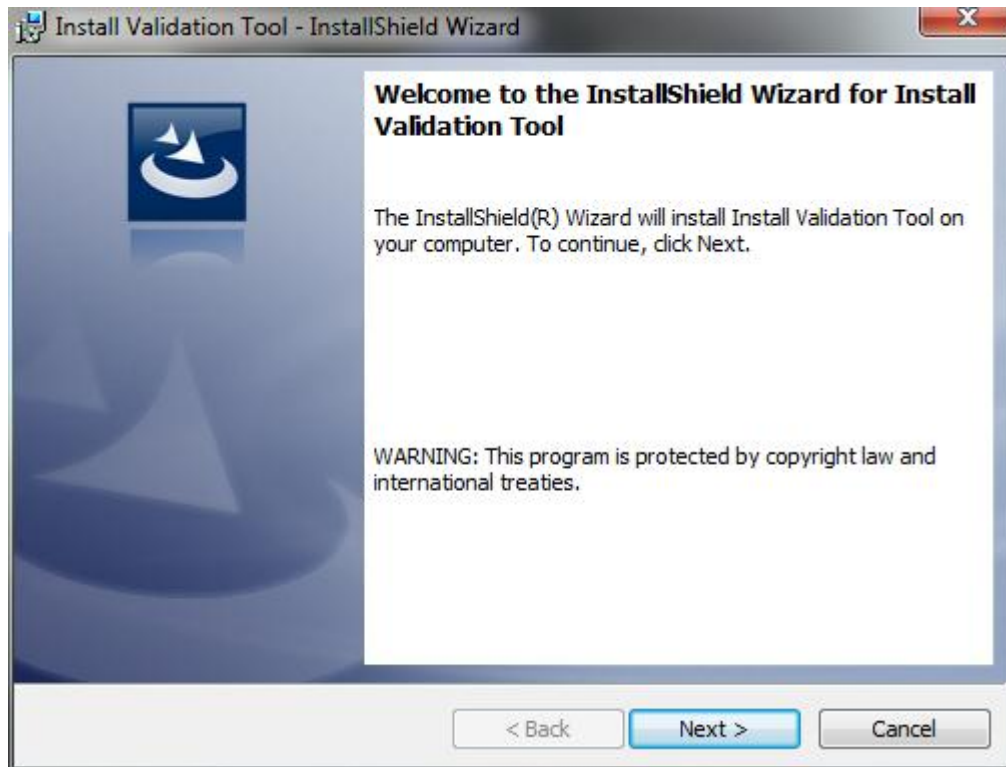
- .Net Framework 4.0 installed on the Client machine.
- .Net Framework 4.0 installed on the machine to do validation.

# BASIC USAGE

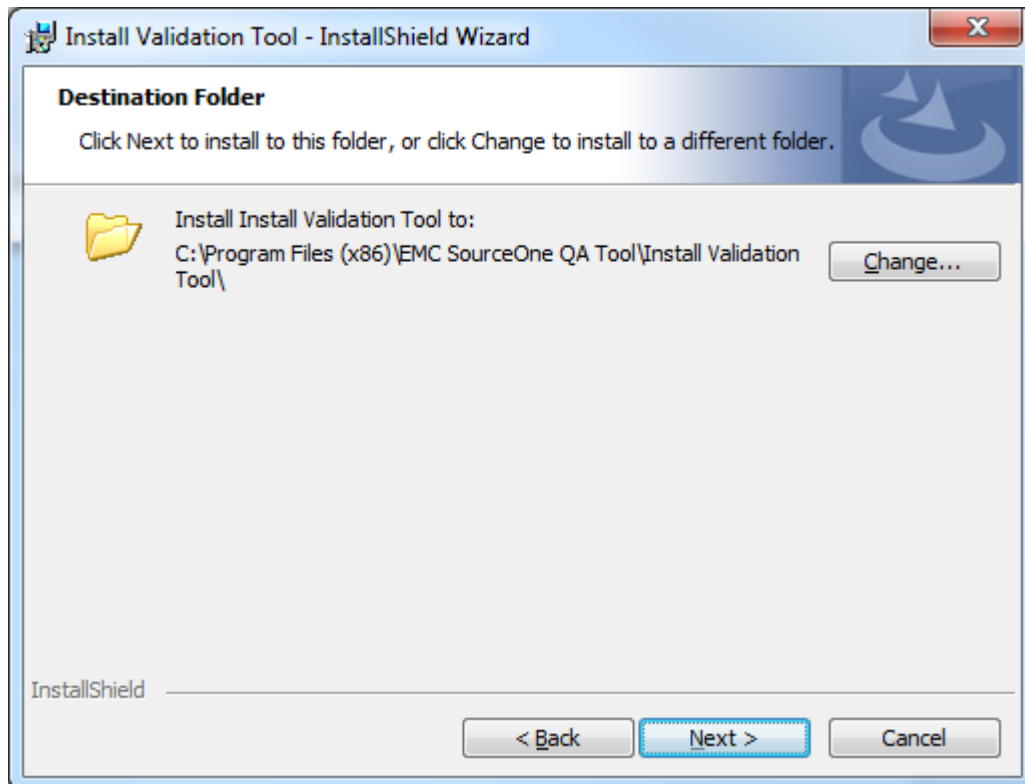
## INSTALL & UNINSTALL

### Install

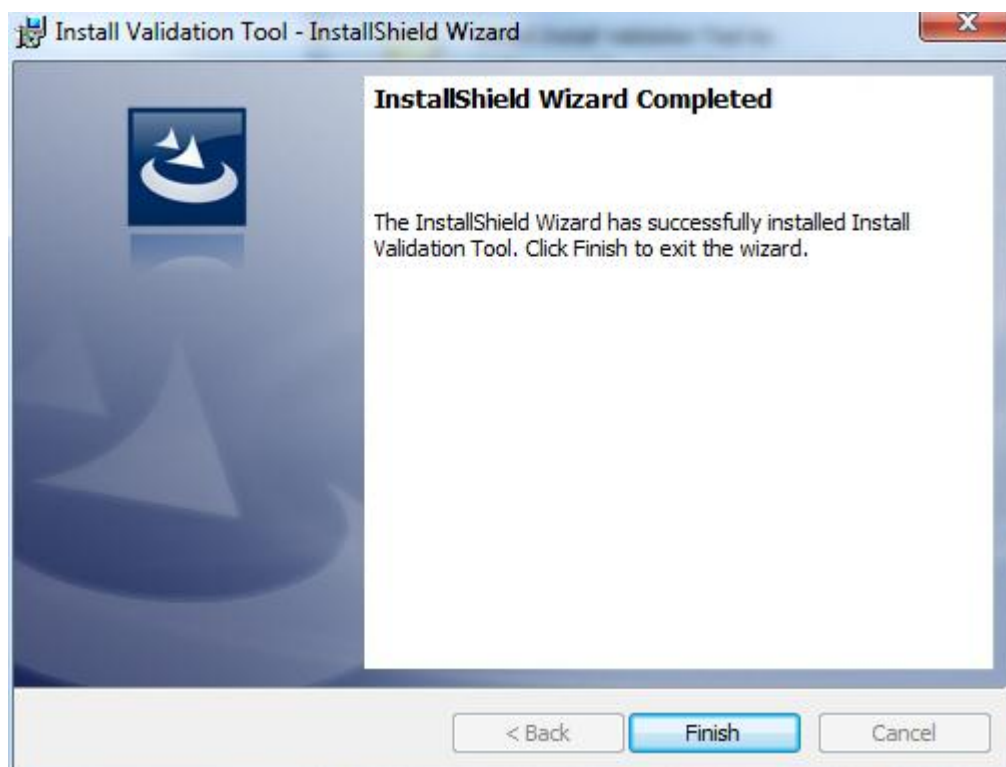
1. Get the latest version of the tool and double click to begin install



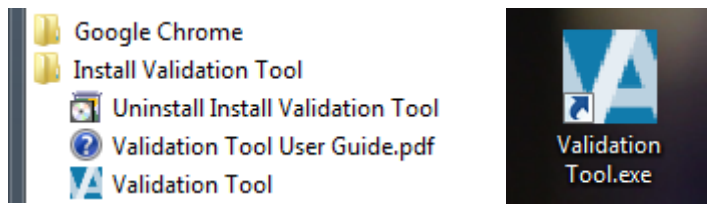
2. Choose the install path and finish the installation.



3. Wait for the installation finish.



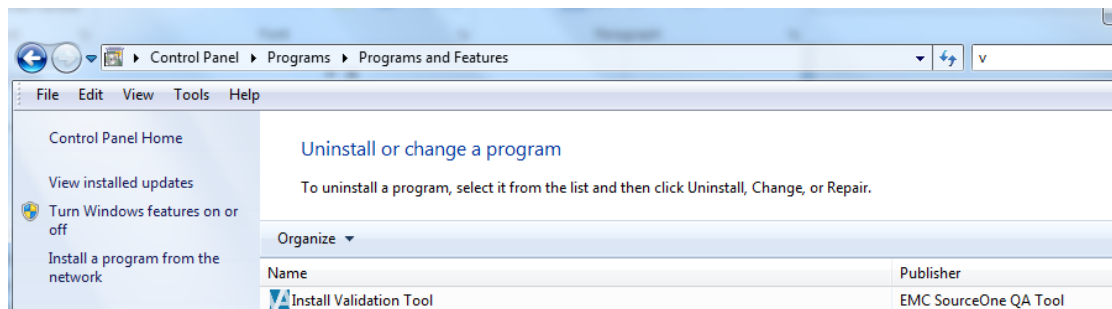
4. A shortcut of the tool will be created on Desktop and Start Menu



5. Wait for the installation finish

## Uninstall

1. You can uninstal this tool from Start menu or from Control Panel.

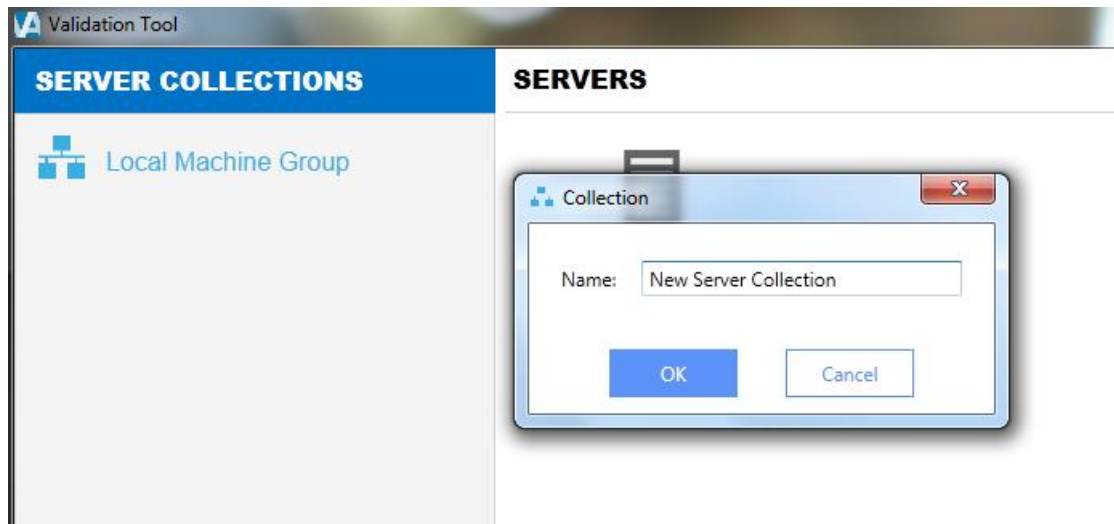


2. Wait for the uninstall finish

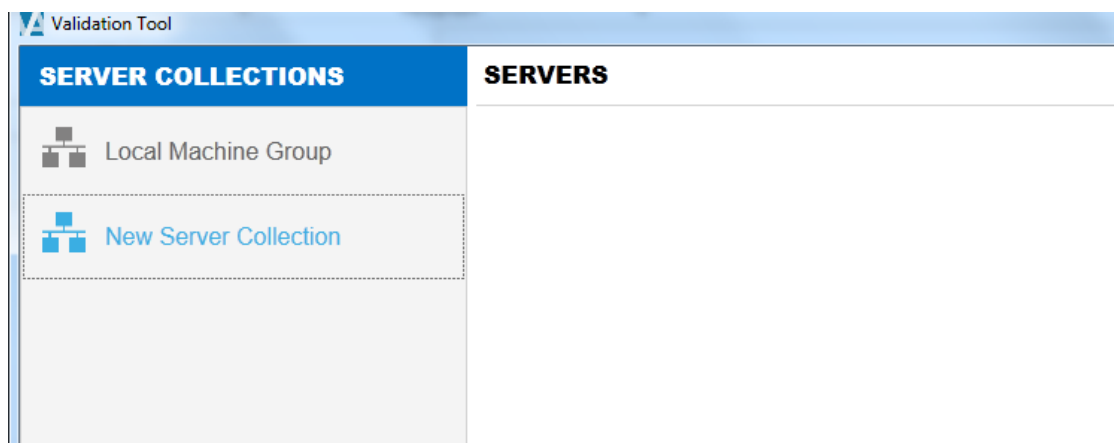
## SERVER COLLECTIONS

### Add Server Collection

1. Right Click the blank area of Server Collection, choose **Add Collection** in context menu

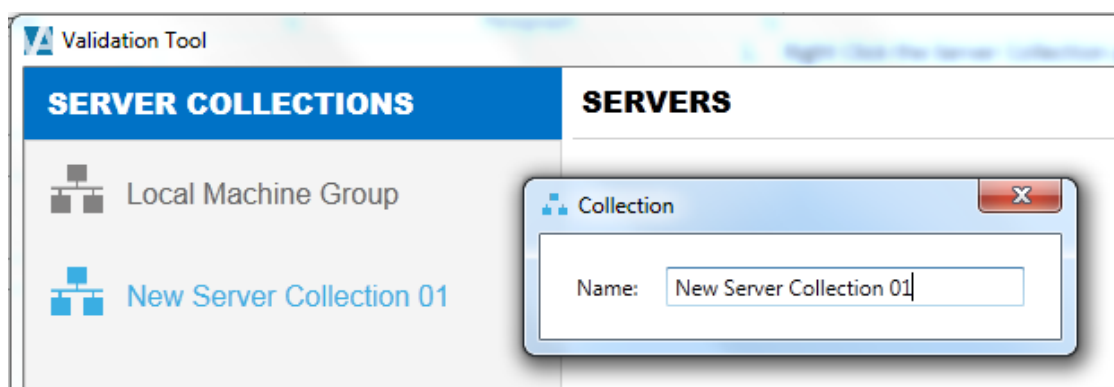


2. Input the collection name and click **OK**

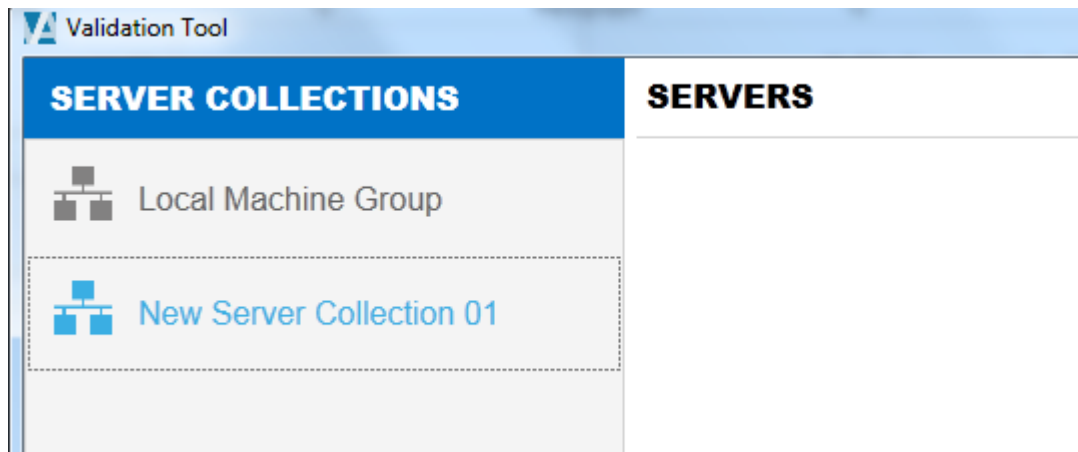


### Edit Server Collection

1. Right Click the Server Collection you want to edit, choose **Edit Collection** in context menu.

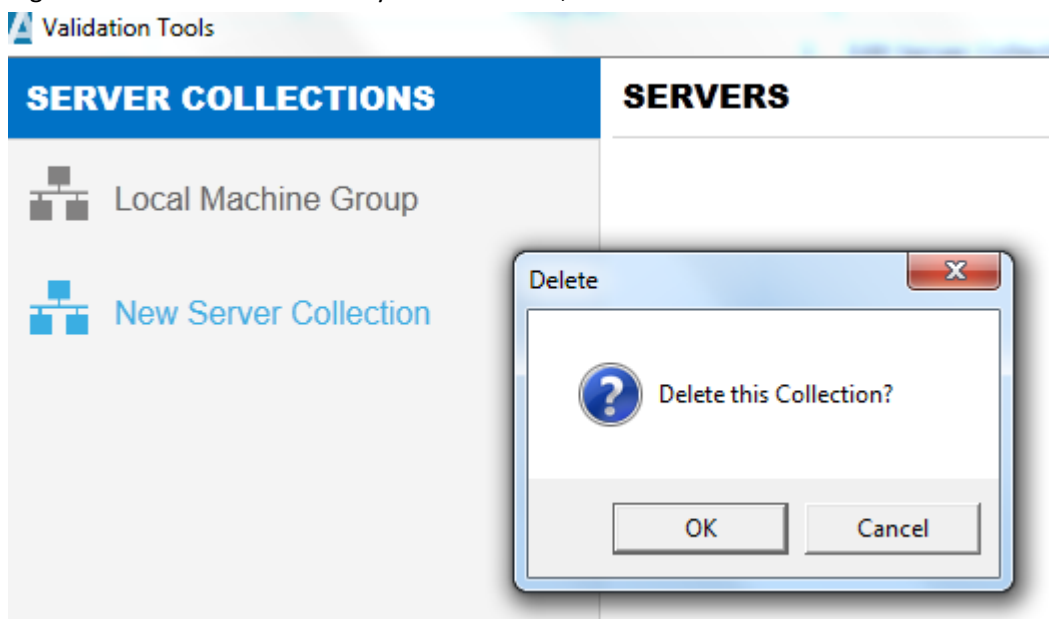


2. Change the collection name and close the dialog

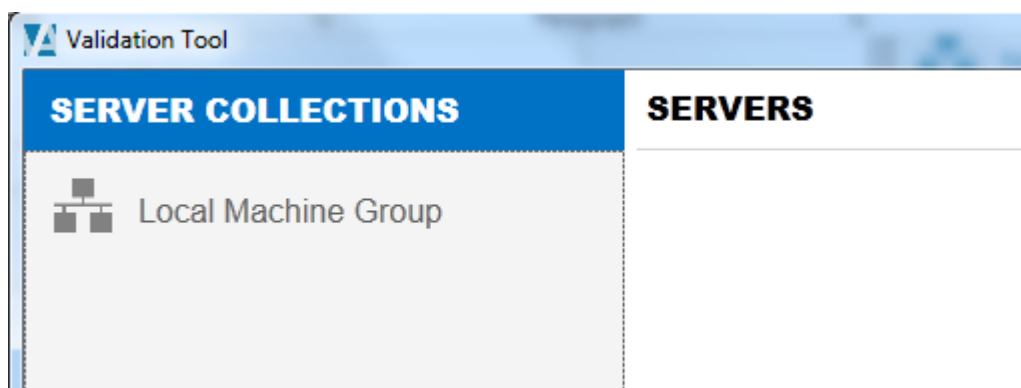


## Delete Server Collection

1. Right Click the Server Collection you want to edit, choose **Delete Collection** in context menu.



2. Click OK to confirm delete

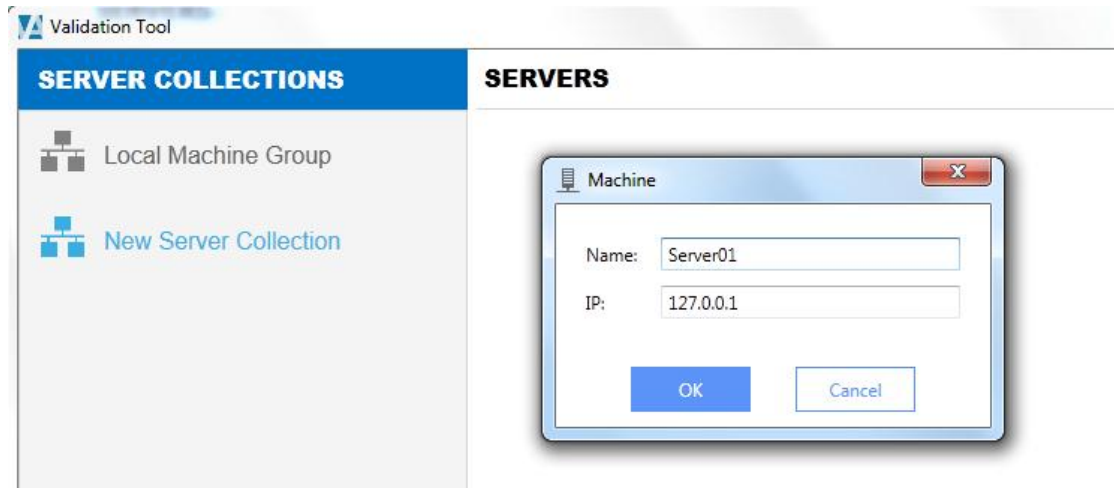




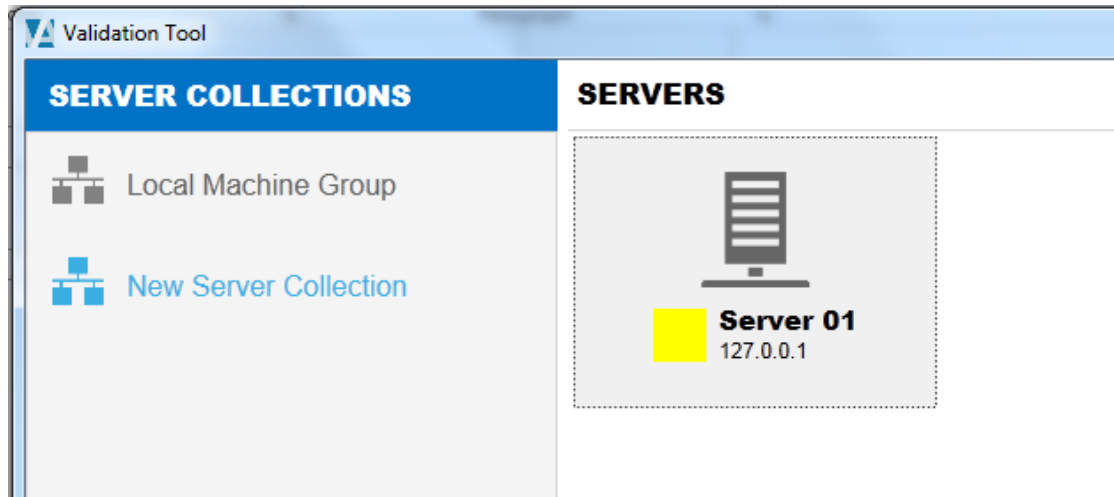
## SERVERS

### Add Server

1. Right Click the blank area of Servers, choose **Add Server** in context menu.

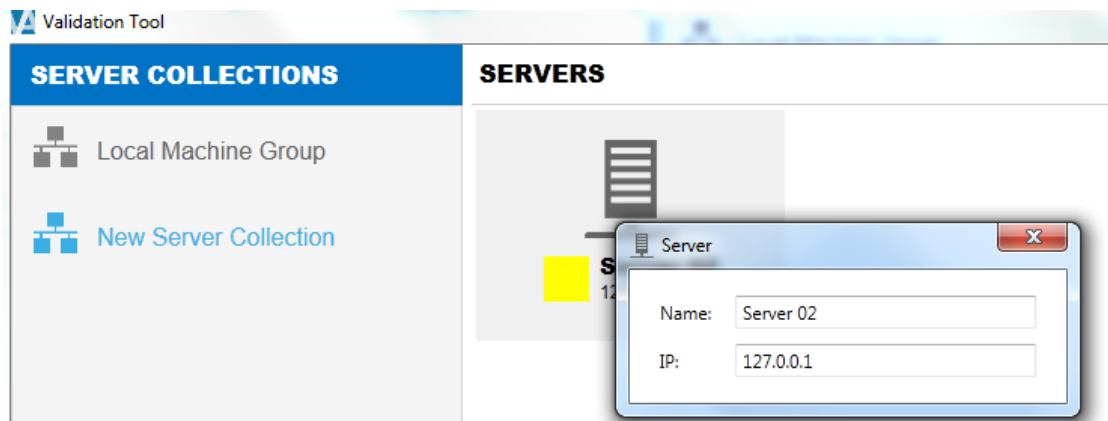


2. Fill the **Name**, **IP** of the server and click **OK** to add server

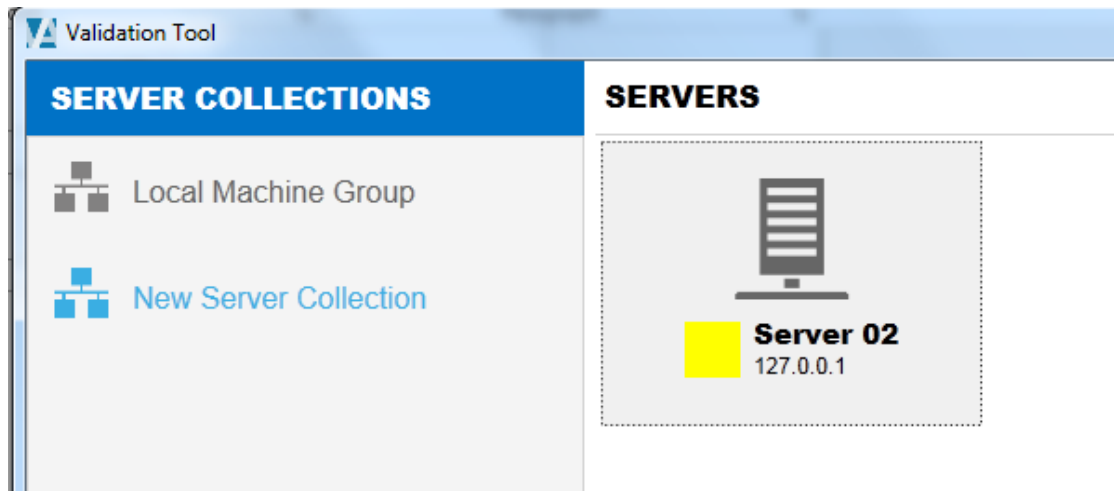


### Edit Server

1. Right Click the Server you want to edit, choose **Edit Server** in context menu.

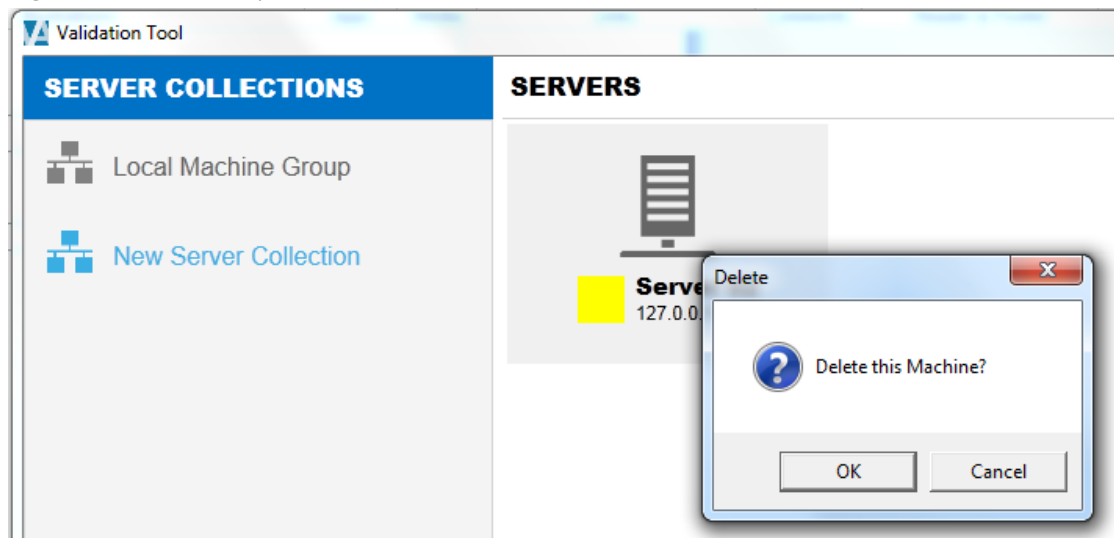


2. Change the **Name** or **IP** of the target server and close the dialog




## Delete Server

1. Right Click the Server you want to edit, choose **Delete Server** in context menu.




2. Click **OK** to confirm delete

 Validation Tool

SERVER COLLECTIONS

 Local Machine Group

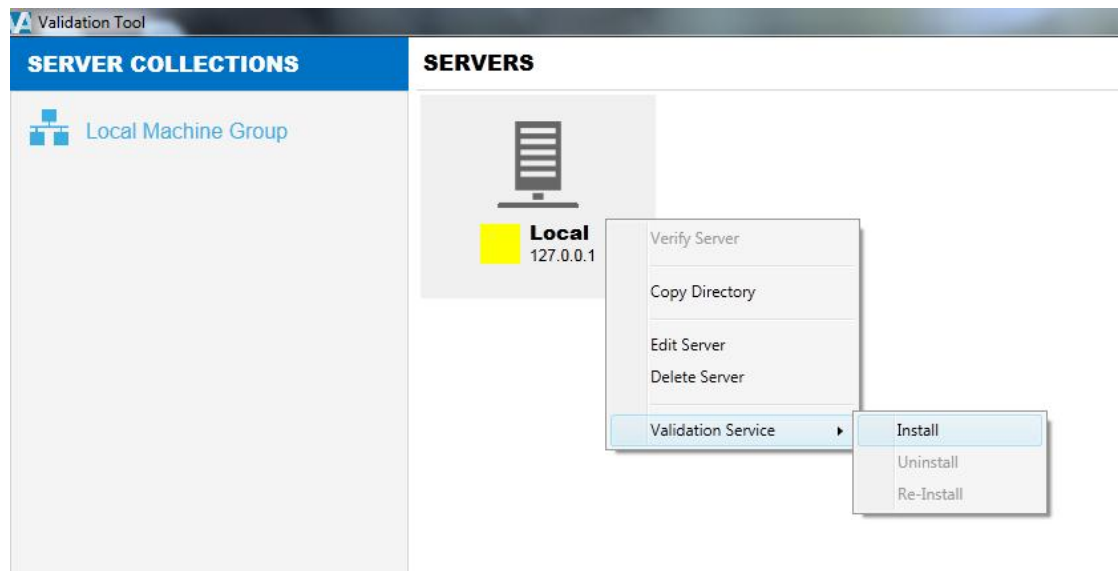
 New Server Collection

SERVERS

# VALIDATION SERVICE

## Install Validation Service

1. Right Click the Server you want to verify, choose **Validation Service->Install** in context menu

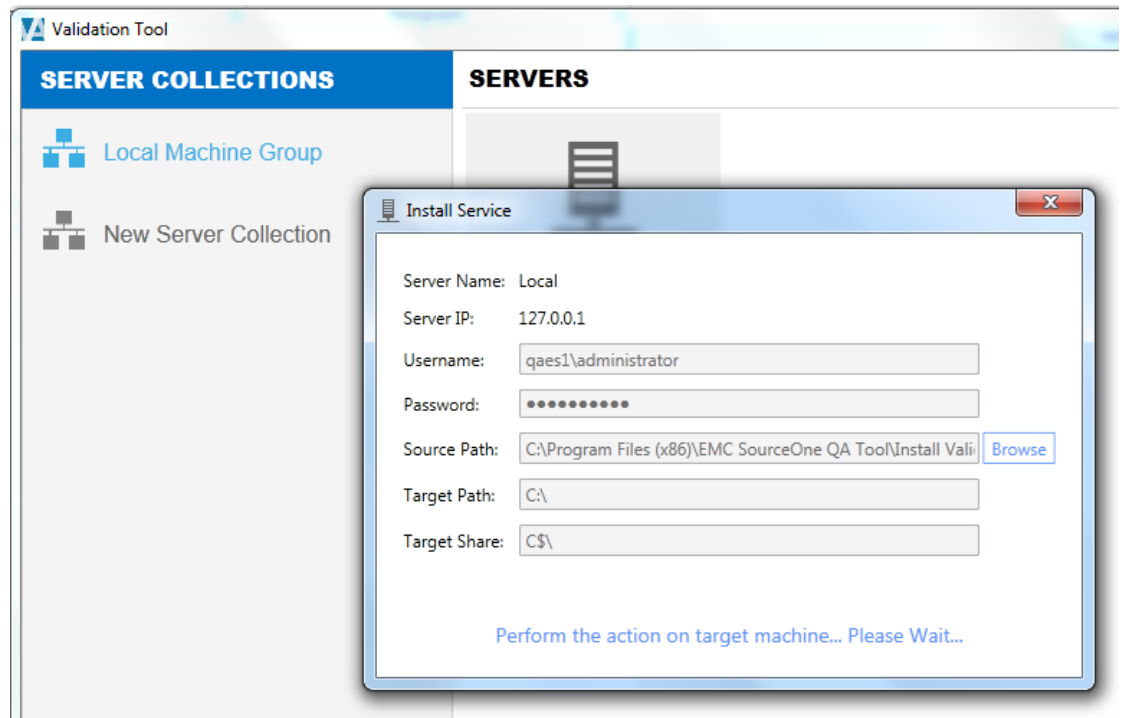


2. Fill the validation service install information
  - Username: this user is a local admin of target server
  - Password: password of the user
  - Source Path: the validation service binaries path
  - Target Path: the path of validation service on target server

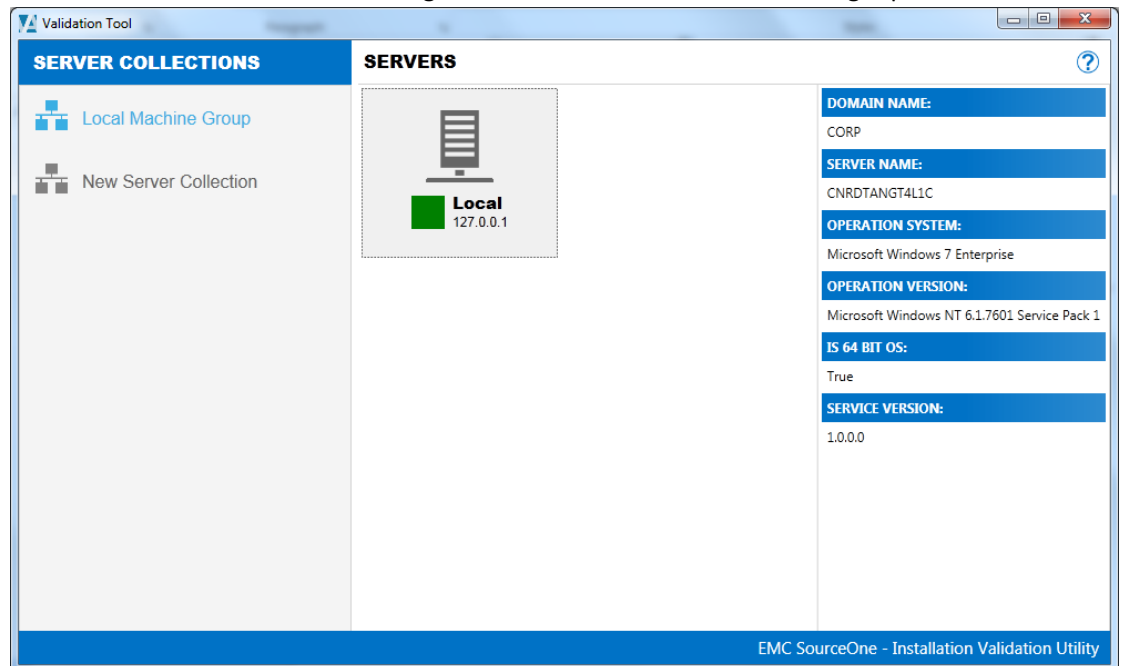
The screenshot shows the 'Install Service' dialog box. It contains the following fields and controls:

- Server Name: Local
- Server IP: 127.0.0.1
- Username: qaes1\administrator
- Password: masked with dots
- Source Path: C:\Program Files (x86)\EMC SourceOne QA Tool\Install Vali... with a 'Browse' button.
- Target Path: C:\
- Target Share: C\$
- Buttons: OK and Cancel.

3. Click OK to install Validation Service on target server

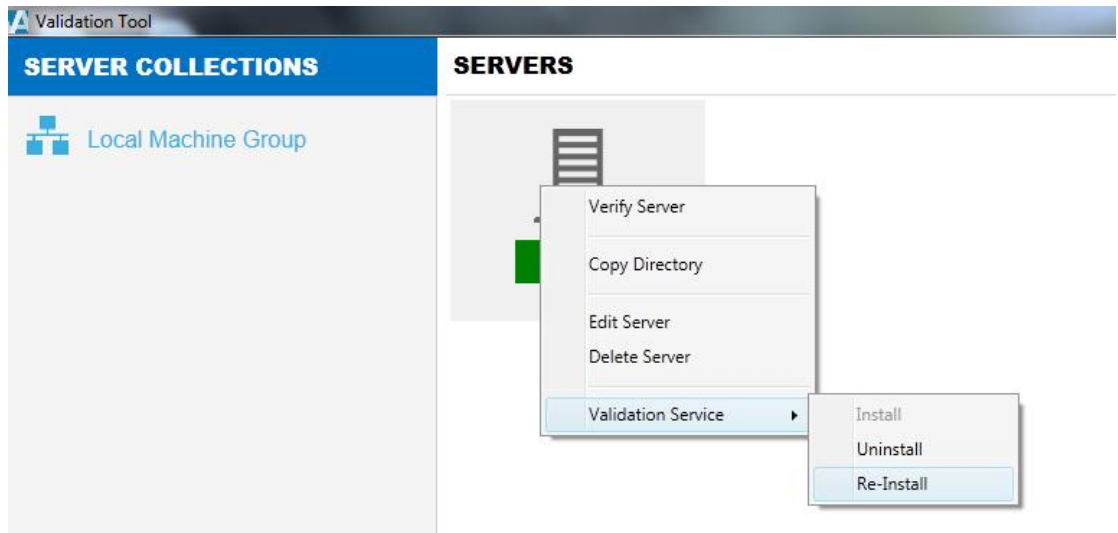


4. After validation service installed. Target server information will show on right panel.

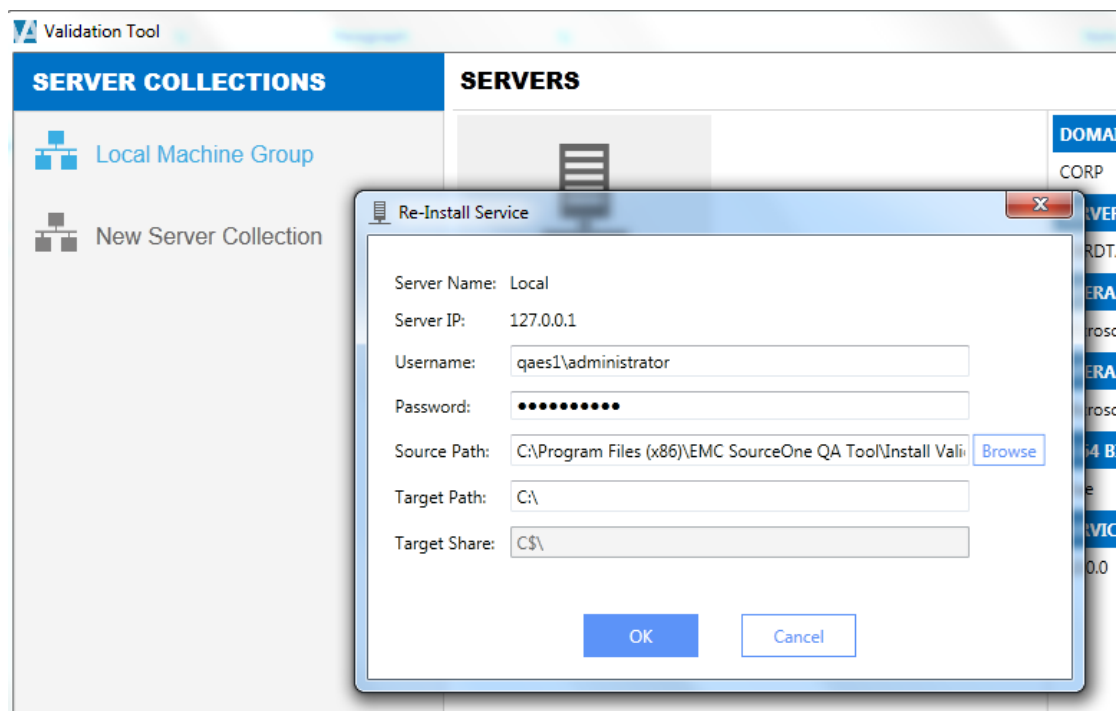


## Re-install Validation Service

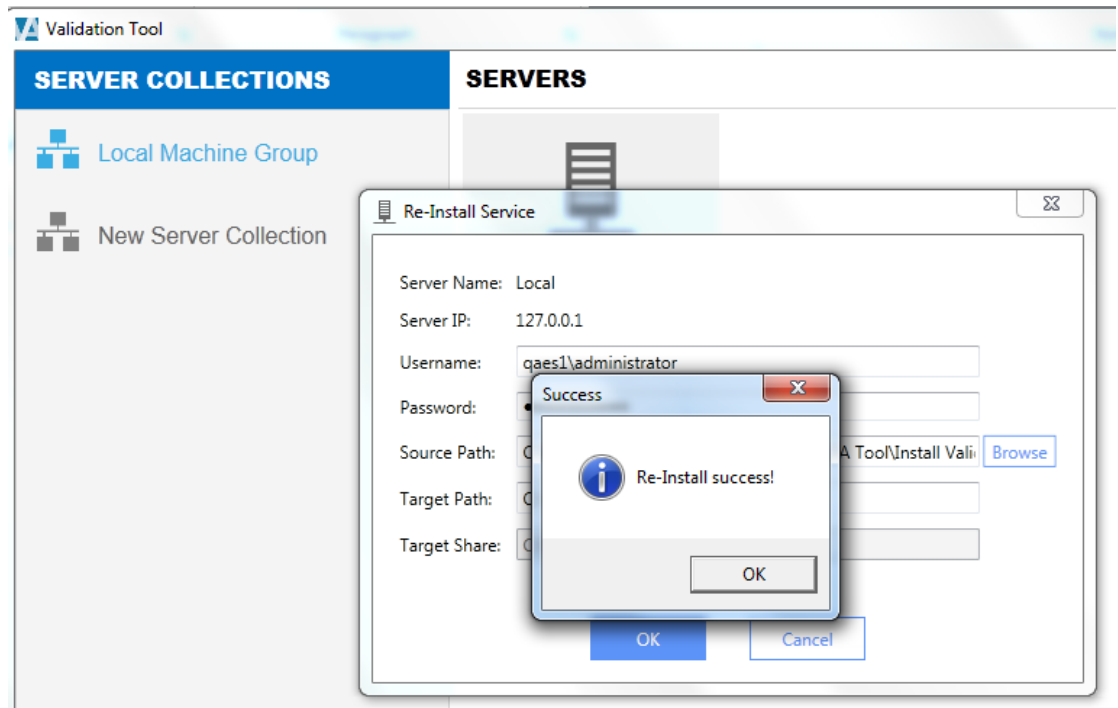
1. Right Click the Server you want to verify, choose **Validation Service->Install** in context menu



2. Fill the validation service install information
  - Username: this user is a local admin of target server
  - Password: password of the user
  - Source Path: the validation service binaries path
  - Target Path: the path of validation service on target server

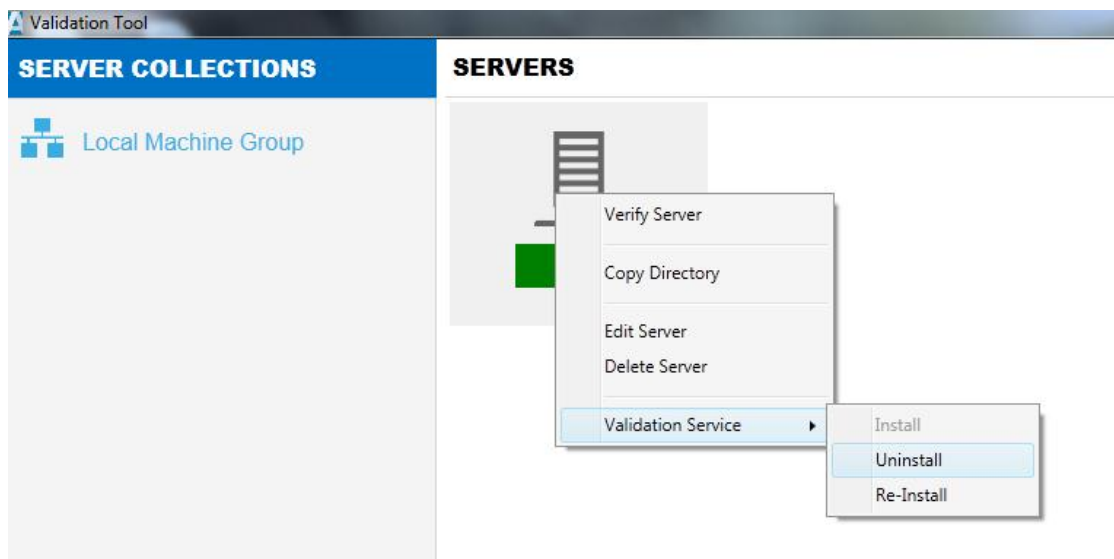


3. Click OK to install Validation Service on target server

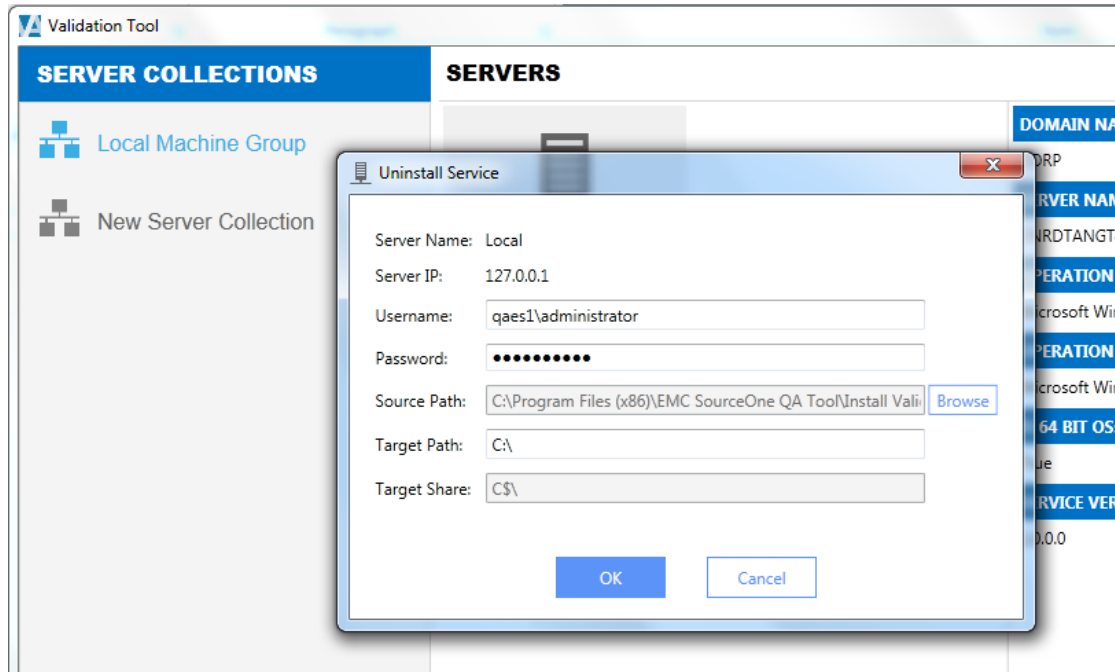


## Uninstall Validation Service

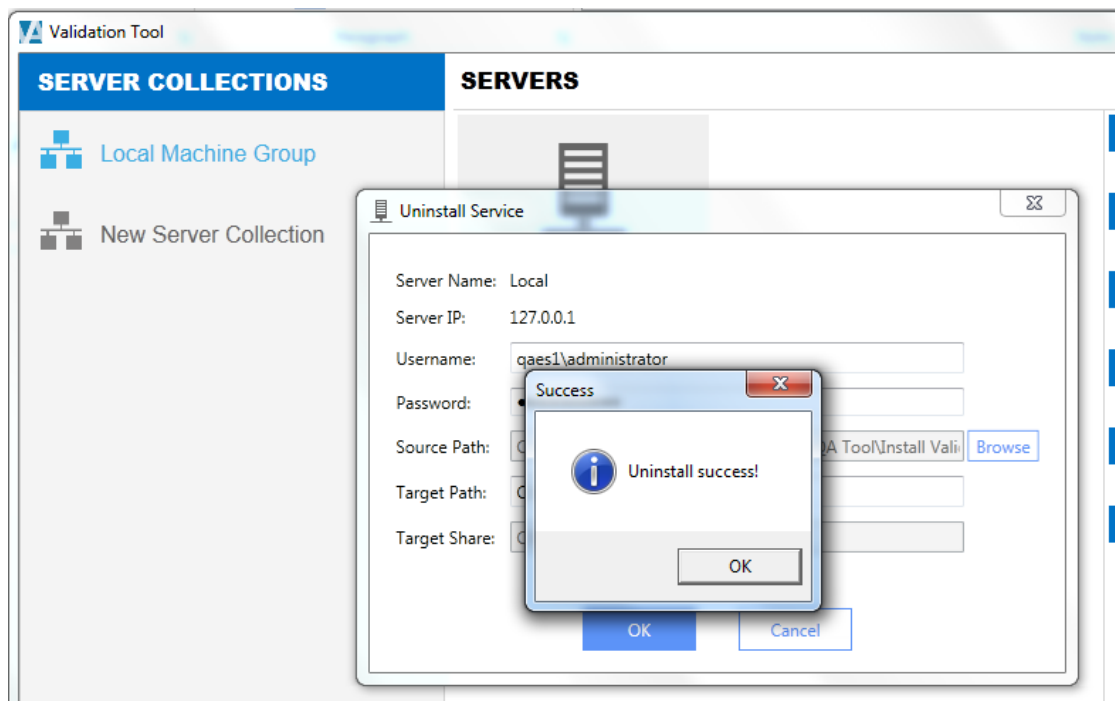
1. Right Click the Server you want to verify, choose **Validation Service->Uninstall** in context menu



2. Fill the validation service install information
  - Username: this user is a local admin of target server
  - Password: password of the user
  - Target Path: the path of validation service on target server



3. Click OK to install Validation Service on target server

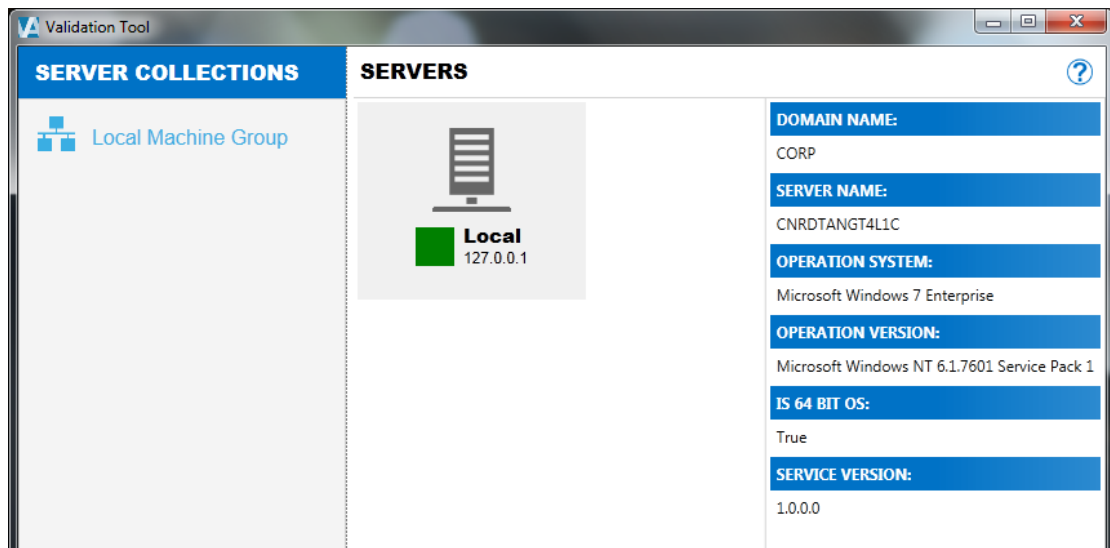




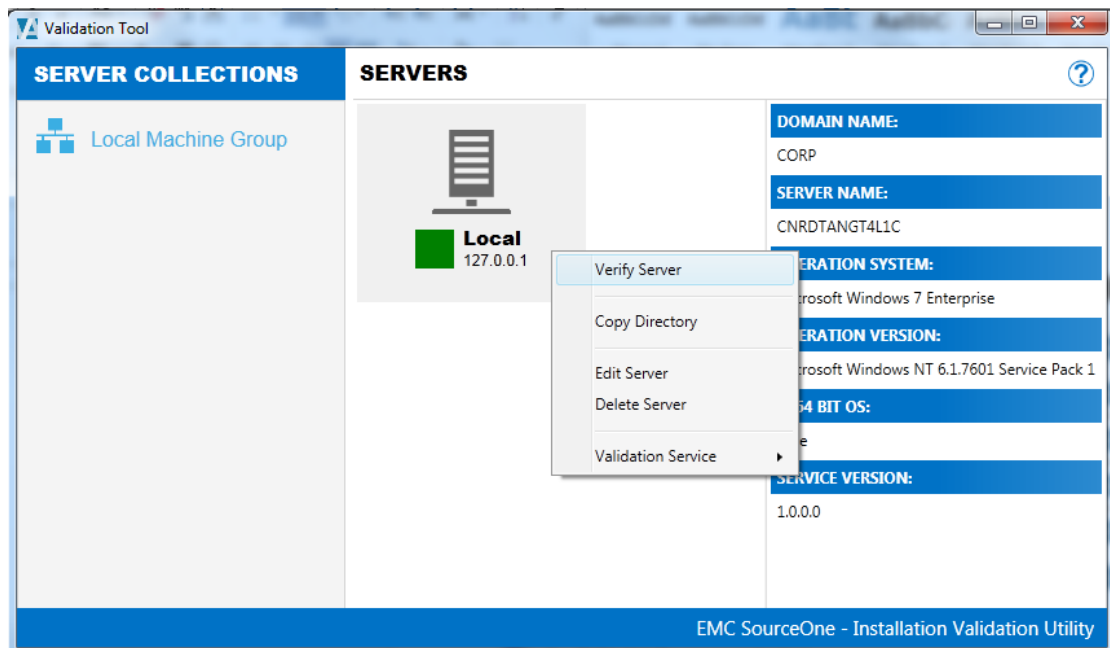
## VERIFY TARGET SERVER

### Do Validation On Target Server

1. Make sure [validation service is installed](#) on target server



2. Right click the server and select **Verify Server**



3. Fill the necessary information in validation settings

**Views of Validation Results:** three view is for show the validation result

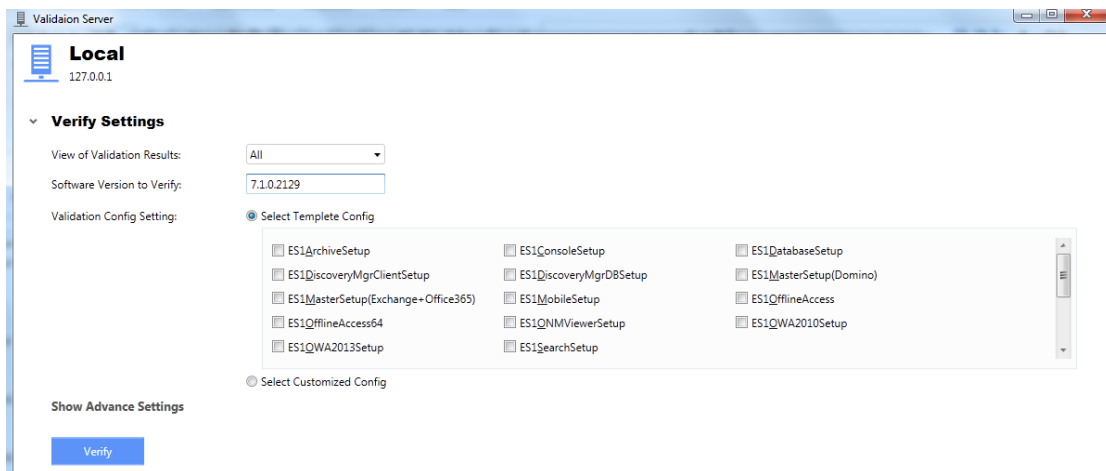
- a. All: All validation results
- b. PassOnly: All passed validation results
- c. FailOnly: All failed validation results

**Software Version to Verify:** the version of the build to verify

Format as [MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]

### Validation Config Setting:

- Select template configs to do validation
- Use custom config to do validation



- Expand **Show Advance Settings** to continue settings.

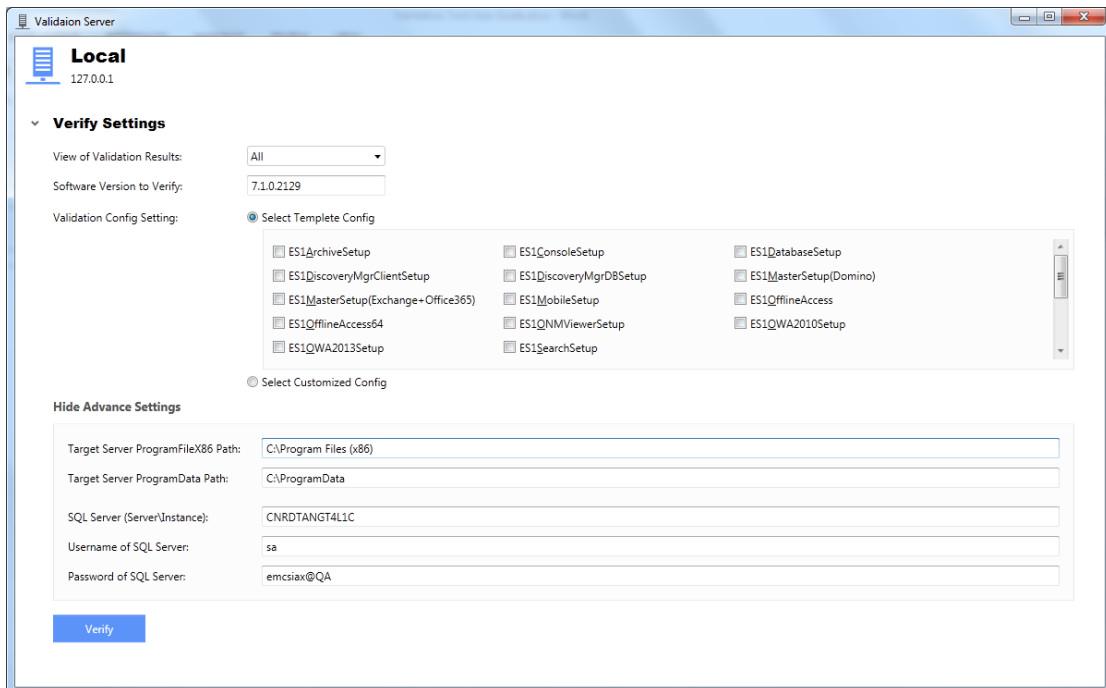
**Target Server ProgramFileX86 Path:** the ProgramFileX86 path in target server

**Target Server ProgramData Path:** the ProgramData path in target server

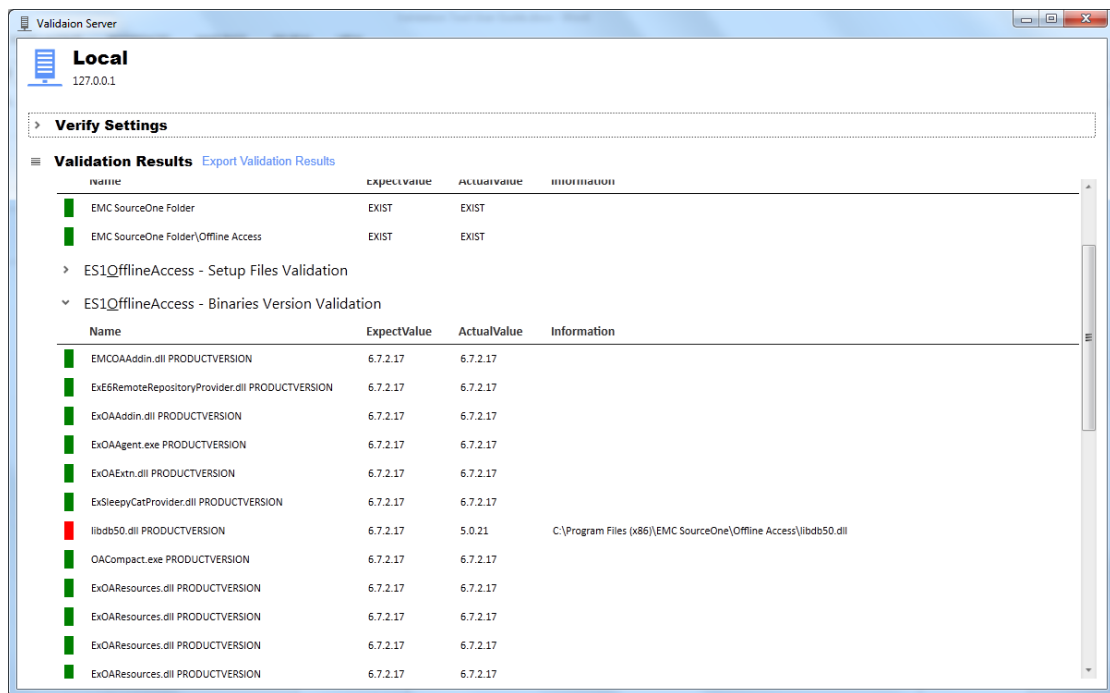
**SQL Server (Server\Instance):** the sql instance in target server

**Username of SQL Server:** the username of the sql server in target server

**Password of SQL Server:** the password of the sql server in target server



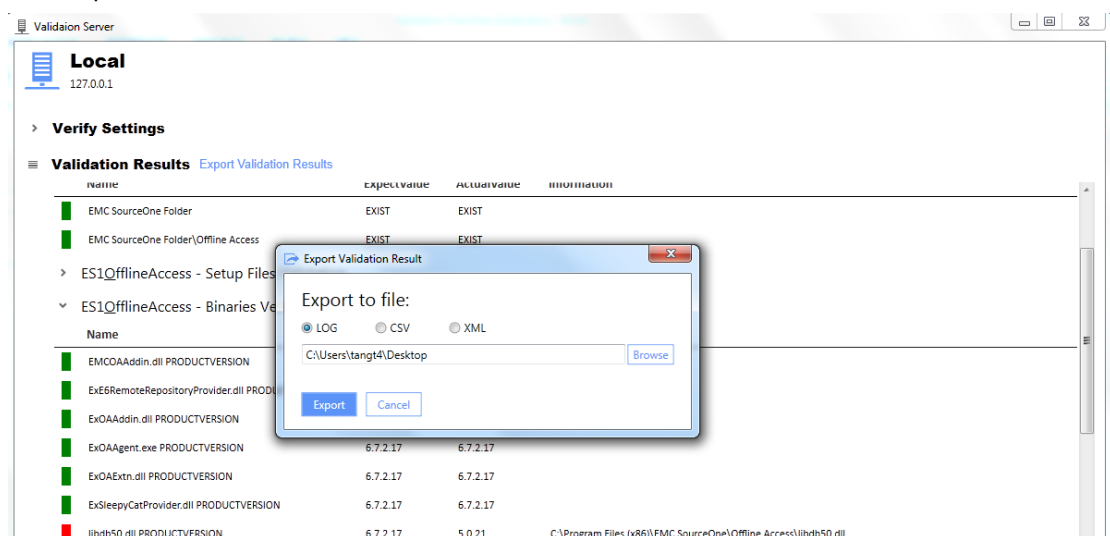
- Click **Verify** to do validation



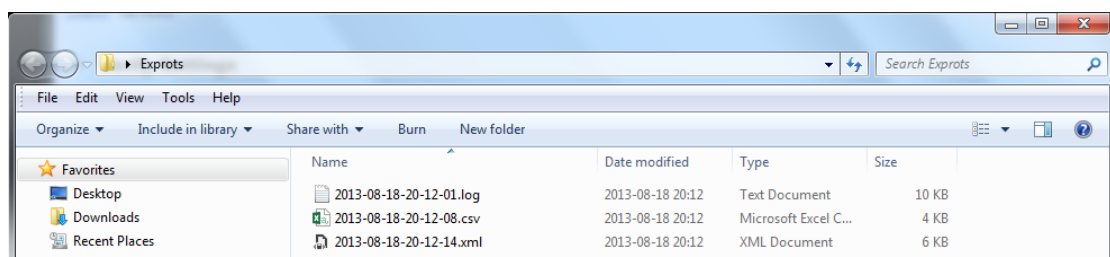
## Export Validation Results

After you [do validation on target server](#), you can export the validation results

1. Click Export Validation Result



2. Select export format (LOG, CSV or XML) and choose the export path, then click **Export**.



# ADVANCE USAGE

## APP CONFIG

You can find App.config in below location:

[Install Path]\EMC SourceOne QA Tool\Install Validation Tool

Below table listed the config item of the App.config

Item Name	Comments
client_RequestServiceVersion	The validation service required version for the client to use
service_sourceInstallPath	The default validation service binaries path
service_targetDefaultUsername	The default username of target server when install, uninstall, reinstall validation service
service_targetDefaultPassword	The default password of target server when install, uninstall, reinstall validation service
verify_defaultVersion	The default build version to verify
verify_defaultSqlServerUsername	The default sql server username in advance settings of validation
verify_defaultSqlServerPassword	The default sql server password in advance settings of validation
copy_sourceDefaultPath	The default path to copy from
copy_targetDefaultUsername	The default username of copy destination
copy_targetDefaultPassword	The default password of copy destination
copy_targetDefaultPath	The default target path to copy to

Once you changed above setting in App.config, please re-launch the application to take the new settings into effect.

# CUSTOMIZED VALIDATION CONFIG

You can generate customized validation config for specific product. The customized validation config is an xml file.

## Validation Group

Validation Group contains a bundle of validation items.

Below is the definition of a validation group

Attribute	Is Required	Value
type	Required	Supported below type: <b>COM</b> <b>EventLog</b> <b>Registry</b> <b>FILE</b> <b>Version</b> <b>Uninstall</b> <b>Database</b> <b>WinService</b> <b>GACAssembly</b>
groupName	Required	Name of the validation group. You can specify this value to distinguish group from each other

Below is an example of validation group

```
<Verify>
  <Group type="COM" groupName="Group Name 1">
    <!-- item definition in this group -->
  </Group>
  <Group type="Version" groupName="Group Name 2">
    <!-- item definition in this group -->
  </Group>
  <Group type="Uninstall" groupName="Group Name 3">
    <!-- item definition in this group -->
  </Group>
</Verify>
```

## Validation Item - COM

COM item is used to check whether a COM component is registered on target server.

Below is the definition of COM item

Attribute	Is Required	Value
name	Required	The name of a validation item
progID	Required	progID of a COM item
clsID	Required	clsID of a COM item

Below is an example of COM item:

```
<Item name="AEExample" progID="AEExample.CoAEExample.1" clsID="BFCB7173-61D4-488C-B0B9-7957C84CD6F4" />
```

## Validation Item – EventLog

EventLog item is used to check whether an EventLog item is created in target server.

Below is the definition of EventLog item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
logName	Required	The name of an EventLog item to verify

Below is an example of EventLog item:

```
<Item name="EMC" logName="EMC" />
```





## Validation Item – Registry

Registry item is used to check whether a Registry item is created on target server and it has the right value.

Below is the definition of Registry item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
subkey	Required	The subkey of a registry item
key	Required	The key name of a registry item to verify
value	Required	The value of the registry key to verify

Below is an example of Registry item:

```
<Item name="Master+" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key  
="Master+" >7.0.0.2301</Item>
```

## Validation Item – File

File item is used to check whether a File or Folder exist in target server.

Below is the definition of File item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
type	Required	Enumeration values: File Folder  Specific file or Folder to verify
value	Required	The path of the file of folder to verify

Below is an example of File item:

```
<Item name="EMC SourceOne Folder" type="Folder" >[ProgramFilePathX86]\EMC  
SourceOne</Item>
```

## Validation Item – Version

Version item is used to check whether a \*.exe or \*.dll file has the right product version or file version.

Below is the definition of Version item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
path	Required	The path of a version item to verify
type	Required	Enumeration values: File Directory  If type is Directory, the directory will be expanded as file version items recursively
versionType	Required	Enumeration values ProductVersion FileVersion
Value	Required	The version to verify

**White List Policy:** If a validation group contains a file version item and a directory version item which include that file version item. It will use file version item and **ignore** the file version item expanded in directory version item.

Below is an example of Version item:

```
<Item name="Common Files\EMC" path="[ProgramFilePathX86]\Common Files\EMC" type="directory" versionType="ProductVersion">7.0.0.2301</Item>
```

## Validation Item – Uninstall

Uninstall item is used to check whether a uninstall item has the right version in target server.

Below is the definition of Uninstall item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
productName	Required	The product name of an uninstall item to verify
value	Required	The version of an uninstall item to verify

Below is an example of Uninstall item:

```
<Item name="EMC SourceOne Master Services" productName="EMC SourceOne Master Services">7.0.0.2301</Item>
```

## Validation Item – Database

Database item is used to check whether a value exist in database on target server.

Below is the definition of Database item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
server	Required	The instance of a sql server on target server
uid	Required	The username of a sql server on target server
pwd	Required	The password of a sql server on target server
dbName	Required	The name of database on target server
sqlQuery	Required	The sql string to run on target server
value	Required	The value to verify, this value is the result for the sqlQuery run from target server

Below is an example of Database item:

```
<Item name="EMC.EmailXtender.JDF.VersionString" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity"
sqlQuery="SELECT VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF'">7.0.0.2301</Item>
```

## Validation Item – WinService

WinService item is used to check whether a Windows Service is created in target server.

Below is the definition of WinService item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
serviceName	Required	The name of a windows service to verify Notice: serviceName is a windows server name not a windows service display name

Below is an example of WinService item:

```
<Item name="EMC SourceOne Administrator" serviceName="ExAsAdmin"/>
```

## Validation Item – GACAssembly

GACAssembly item is used to check whether an assembly is exist in GAC.

Below is the definition of GACAssembly item

Xml Elements	Is Required	Value
name	Required	The name of a validation item
assemblyName	Required	The name of a GAC assembly
assemblyVersion	Required	The version of a GAC assembly

Below is an example of GACAssembly item:

```
<Item name="EMC.Interop.ExDoc.dll" assemblyName ="EMC.Interop.ExDoc "  
assemblyVersion="6.6.3.6" />
```

## Wildcard in Config

Below is the table of wildcard available in config

Wildcard Name	Comments
[ProgramFilePathX86]	For example In 64 bit OS, the path is: C:\Program Files (x86) In 32 bit OS, the path is: C:\Program Files Matched with ProgramFileX86 path on target server
[ProgramDataPath]	For example In Windows 2008R2, the path is: C:\ProgramData In Windows 2003R2, the path is: C:\Documents and Settings\All Users\Application Data Matched with ProgramData path on target server
[MajorVersion]	For example: 7.1.0.2143, Matched with Version in validation UI
[MinorVersion]	For example: 7.1.0.2143, Matched with Version in validation UI
[BuildVersion]	For example: 7.1.0.2143, Matched with Version in validation UI
[RevisionVersion]	For example: 7.1.0.2143, Matched with Version in validation UI
[SQLServerInstance]	Matched with SQL Server instance in validation UI
[SQLServerUsername]	Matched with SQL Server username in validation UI
[SQLServerPassword]	Matched with SQL Server password in validation UI



## Validation Config Example

Below is an example of validation config:

```
<?xml version="1.0" encoding="utf-8" ?>
<Verify>
  <!-- Registry Group: verify key value in HKLM -->
  <!-- [name]          Dispaly name of a verify item -->
  <!-- [subkey]        Subkey of an item to be verified -->
  <!-- [key]           Key name of an item to be verified -->
  <Group type="Registry" groupName="SourceOne All In One - Regedit Version Validation">
    <Item name="Console+" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="Console+" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="DiscoDB" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="DiscoDB" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="DiscoServer" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="DiscoServer" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="EXAS+" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="EXAS+" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="ExDB" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="ExDB" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="Master+" subkey="SOFTWARE\EMC\SOURCEONE\VERSIONS" key
="Master+" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="Worker+" subkey="SOFTWARE\WOW6432NODE\EMC\SOURCEONE\VERSIONS" key
="Worker+" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="Mobile" subkey="SOFTWARE\WOW6432NODE\EMC\SOURCEONE\VERSIONS" key
="Mobile" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="WebServices" subkey="SOFTWARE\WOW6432NODE\EMC\SOURCEONE\VERSIONS" key
="WebServices" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="WebSearchApp" subkey="SOFTWARE\WOW6432NODE\EMC\SOURCEONE\VERSIONS" key
="WebSearchApp" >[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
  </Group>
  <!-- EventLog Group: verify key value in HKLM -->
  <!-- [name]          Dispaly name of a verify item -->
  <!-- [logName]       Log item of the EventLog to be verified -->
  <Group type="EventLog" groupName="SourceOne All In One - EventLog Validation">
    <Item name="EMC" logName="EMC" />
  </Group>
  <!-- File Group: verify existence of a foler or a file -->
  <!-- [name]          Dispaly name of a verify item -->
  <!-- [path]          Path of a file or folder -->
  <!-- [type]          Specify "File" or "Folder" -->
  <Group type="FILE" groupName="SourceOne All In One - Files and Folders Validation">
    <Item name="EMC SourceOne Folder" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne</Item>
```

```

    <Item name="EMC SourceOne Folder\Database" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Database</Item>

    <Item name="EMC SourceOne Folder\Centera" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Centera</Item>

    <Item name="EMC SourceOne Folder\Console" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Console</Item>

    <Item name="EMC SourceOne Folder\DiscoveryManager"
type="Folder" >[ProgramFilePathX86]\EMC SourceOne\DiscoveryManager</Item>

    <Item name="EMC SourceOne Folder\ExDocMgmt" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\ExDocMgmt</Item>

    <Item name="EMC SourceOne Folder\ExOAService" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\ExOAService</Item>

    <Item name="EMC SourceOne Folder\EXPBA" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\EXPBA</Item>

    <Item name="EMC SourceOne Folder\ExShortcut" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\ExShortcut</Item>

    <Item name="EMC SourceOne Folder\Logs" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Logs</Item>

    <Item name="EMC SourceOne Folder\Notes" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Notes</Item>

    <Item name="EMC SourceOne Folder\Master" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Master</Item>

    <Item name="EMC SourceOne Folder\Search" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Search</Item>

    <Item name="EMC SourceOne Folder\SearchWS" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\SearchWS</Item>

    <Item name="EMC SourceOne Folder\Tools" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Tools</Item>

    <Item name="EMC SourceOne Folder\Work" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Work</Item>

    <Item name="EMC SourceOne Folder\Worker" type="Folder" >[ProgramFilePathX86]\EMC
SourceOne\Worker</Item>

</Group>

<!-- Version Group: verify file version, product version of a dll -->
<!-- [name]          Dispaly name of a verify item -->
<!-- [path]          Path of a check item -->
<!-- [type]          Specify "file" or "directory" -->
<!-- [versionType]   Specify "ProductVersion" or "FileVersion" -->
<Group type="Version" groupName="SourceOne All In One - Setup Files Validation">
    <Item name="EM Installation Files"
path="C:\ES1_EM_[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]\Setup\Windows
\" type="directory" versionType
="FileVersion">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EM Installation Files"

```

```

path="C:\ES1_EM_[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]\Setup\Windows
\" type="directory" versionType
="ProductVersion">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="DM Installation Files"
path="C:\ES1_DM_[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]\Setup\Windows
\" type="directory" versionType
="FileVersion">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="DM Installation Files"
path="C:\ES1_DM_[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]\Setup\Windows
\" type="directory" versionType
="ProductVersion">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
</Group>
<Group type="Version" groupName="SourceOne All In One - Binaries Version Validation">
    <Item name="[ProgramFilePathX86]\Common Files\EMC" path="[ProgramFilePathX86]\Common
Files\EMC" type="directory" versionType
="ProductVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
    <Item name="[ProgramFilePathX86]\Common Files\EMC" path="[ProgramFilePathX86]\Common
Files\EMC" type="directory" versionType
="FileVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
    <Item name="DiscoveryManager Client" path="[ProgramDataPath]\EMC
SourceOne\DiscoveryManager" type="directory" versionType
="ProductVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
    <Item name="DiscoveryManager Client" path="[ProgramDataPath]\EMC
SourceOne\DiscoveryManager" type="directory" versionType
="FileVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
    <Item name="[ProgramFilePathX86]\EMC SourceOne" path="[ProgramFilePathX86]\EMC
SourceOne" type="directory" versionType
="ProductVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
    <Item name="[ProgramFilePathX86]\EMC SourceOne" path="[ProgramFilePathX86]\EMC
SourceOne" type="directory" versionType
="FileVersion">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</Item>
</Group>
<!-- Uninstall Group: verify a software version info in ControlPanel->Uninstall -->
<!-- [name]          Dispaly name of a verify item -->
<!-- [productName]  Product name of an install item -->
<Group type="Uninstall" groupName="SourceOne All In One - ControlPanel Uninstall Version
Validation">
    <Item name="EMC SourceOne Database" productName="EMC SourceOne
Database">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="EMC SourceOne Discovery Manager Database" productName="EMC SourceOne
Discovery Manager
Database">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    <Item name="EMC SourceOne Discovery Manager Client" productName="EMC SourceOne Discovery
Manager Client">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

```

```

    <Item name="EMC SourceOne Discovery Manager Server" productName="EMC SourceOne Discovery
Manager Server">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Console" productName="EMC SourceOne
Console">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Master Services" productName="EMC SourceOne Master
Services">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Mobile Services" productName="EMC SourceOne Mobile
Services">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Native Archive Services" productName="EMC SourceOne Native
Archive Services">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Search" productName="EMC SourceOne
Search">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Web Services" productName="EMC SourceOne Web
Services">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

    <Item name="EMC SourceOne Worker Services" productName="EMC SourceOne Worker
Services">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>

</Group>

<!-- Database Group: verify value in database table -->
<!-- [name]          Dispay name of a verify item -->
<!-- [server]        Server name of a verify item -->
<!-- [dbName]        Database name of an verify item -->
<!-- [sqlQuery]      A sql query to run -->

<Group type="Database" groupName="SourceOne All In One - Version Info in Database
Validation">

    <!-- ES1Activity -->

    <Item name="EMC.EmailXtender.JDF.Version" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF'">[MajorVersion].[MinorVersion][BuildVersion]000</Item>

    <Item name="EMC.EmailXtender.JDF.VersionMajor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionMajor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.JDF'">[MajorVersion]</Item>

    <Item name="EMC.EmailXtender.JDF.VersionMinor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionMinor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.JDF'">[MinorVersion]</Item>

    <Item name="EMC.EmailXtender.JDF.BuildNumber" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
BuildNumber FROM VersionInfo WHERE Name = 'EMC.EmailXtender.JDF'">[RevisionVersion]</Item>

    <Item name="EMC.EmailXtender.JDF.VersionString" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF'">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
>

    <Item name="EMC.EmailXtender.JDF.StoredProcs.Version" server="[SQLServerInstance]"

```

```

uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF.StoredProcs'">[MajorVersion].[MinorVersion][BuildVersion]000</Item>
    <Item name="EMC.EmailXtender.JDF.StoredProcs.VersionMajor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionMajor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF.StoredProcs'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.JDF.StoredProcs.VersionMinor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionMinor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF.StoredProcs'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.JDF.StoredProcs.BuildNumber" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
BuildNumber FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF.StoredProcs'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.JDF.StoredProcs.VersionString" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Activity" sqlQuery="SELECT
VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.JDF.StoredProcs'">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVe
rsion]</Item>
    <!-- ES1Archive -->
    <Item name="EMC.EmailXtender.PBA.Version" server="[SQLServerInstance]"
dbName="ES1Archive" uid="[SQLServerUsername]" pwd="[SQLServerPassword]" sqlQuery="SELECT
Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA'">[MajorVersion].[MinorVersion][BuildVersion]000</Item>
    <Item name="EMC.EmailXtender.PBA.VersionMajor" server="[SQLServerInstance]"
dbName="ES1Archive" uid="[SQLServerUsername]" pwd="[SQLServerPassword]" sqlQuery="SELECT
VersionMajor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.PBA'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.VersionMinor" server="[SQLServerInstance]"
dbName="ES1Archive" uid="[SQLServerUsername]" pwd="[SQLServerPassword]" sqlQuery="SELECT
VersionMinor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.PBA'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.BuildNumber" server="[SQLServerInstance]"
dbName="ES1Archive" uid="[SQLServerUsername]" pwd="[SQLServerPassword]" sqlQuery="SELECT
BuildNumber FROM VersionInfo WHERE Name = 'EMC.EmailXtender.PBA'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.VersionString" server="[SQLServerInstance]"
dbName="ES1Archive" uid="[SQLServerUsername]" pwd="[SQLServerPassword]" sqlQuery="SELECT
VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA'">[MajorVersion].[MinorVersion][BuildVersion].[RevisionVersion]</Item>
    >
    <Item name="EMC.EmailXtender.PBA.StoredProcs.Version" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Archive" sqlQuery="SELECT
Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA.StoredProcs'">[MajorVersion].[MinorVersion][BuildVersion]000</Item>
    <Item name="EMC.EmailXtender.PBA.StoredProcs.VersionMajor" server="[SQLServerInstance]"

```

```

uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Archive" sqlQuery="SELECT
VersionMajor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA.StoredProcs'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.StoredProcs.VersionMinor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Archive" sqlQuery="SELECT
VersionMinor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA.StoredProcs'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.StoredProcs.BuildNumber" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Archive" sqlQuery="SELECT
BuildNumber FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA.StoredProcs'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.PBA.StoredProcs.VersionString" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Archive" sqlQuery="SELECT
VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.PBA.StoredProcs'">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVe
rsion]</Item>
    <!-- ES1Search -->
    <Item name="EMC.EmailXtender.Search.Version" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Search" sqlQuery="SELECT
Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.Search'">[MajorVersion].[MinorVersion].[BuildVersion]000</Item>
    <Item name="EMC.EmailXtender.Search.VersionMajor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Search" sqlQuery="SELECT
VersionMajor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.Search'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.Search.VersionMinor" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Search" sqlQuery="SELECT
VersionMinor FROM VersionInfo WHERE Name = 'EMC.EmailXtender.Search'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.Search.BuildNumber" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Search" sqlQuery="SELECT
BuildNumber FROM VersionInfo WHERE Name =
'EMC.EmailXtender.Search'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.Search.VersionString" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="ES1Search" sqlQuery="SELECT
VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.Search'">[MajorVersion].[MinorVersion].[BuildVersion].[RevisionVersion]</I
tem>
    <!-- DiscoveryManager -->
    <Item name="EMC.EmailXtender.DiscoveryCollector.Version" server="[SQLServerInstance]"
uid="[SQLServerUsername]" pwd="[SQLServerPassword]" dbName="DiscoveryManager"
sqlQuery="SELECT Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector'">[MajorVersion].[MinorVersion].[BuildVersion]000</Item>
>
    <Item name="EMC.EmailXtender.DiscoveryCollector.VersionMajor"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"

```

```

dbName="DiscoveryManager" sqlQuery="SELECT VersionMajor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.VersionMinor"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT VersionMinor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.BuildNumber"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT BuildNumber FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.VersionString"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector'">[MajorVersion].[MinorVersion][BuildVersion].[Revisio
nVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.StoredProcs.Version"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT Version FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector.StoredProcs'">[MajorVersion].[MinorVersion][BuildVersi
on]000</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.StoredProcs.VersionMajor"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT VersionMajor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector.StoredProcs'">[MajorVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.StoredProcs.VersionMinor"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT VersionMinor FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector.StoredProcs'">[MinorVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.StoredProcs.BuildNumber"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT BuildNumber FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector.StoredProcs'">[RevisionVersion]</Item>
    <Item name="EMC.EmailXtender.DiscoveryCollector.StoredProcs.VersionString"
server="[SQLServerInstance]" uid="[SQLServerUsername]" pwd="[SQLServerPassword]"
dbName="DiscoveryManager" sqlQuery="SELECT VersionString FROM VersionInfo WHERE Name =
'EMC.EmailXtender.DiscoveryCollector.StoredProcs'">[MajorVersion].[MinorVersion][BuildVersi
on].[RevisionVersion]</Item>
</Group>
<!-- Services Group: verify service has installed in the server-->
<!-- [name] Windows Service name of a verify item -->
<Group type="WinService" groupName="SourceOne All In One - Windows Service">
    <Item name="EMC SourceOne Address Cache" serviceName="ExAddressCacheService"/>
    <Item name="EMC SourceOne Address Resolution"
serviceName="ES1AddressResolutionService"/>

```

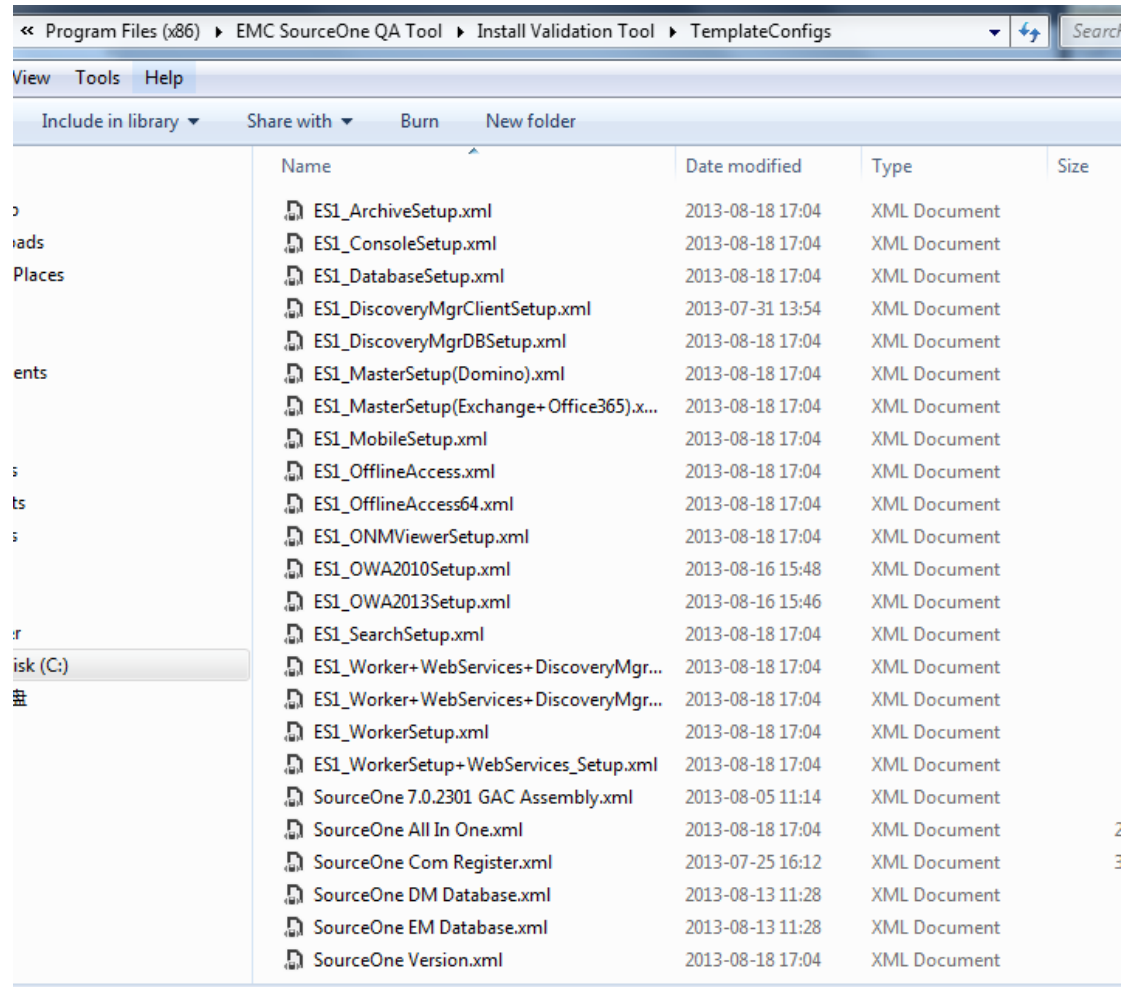
```
<Item name="EMC SourceOne Administrator" serviceName="ExAsAdmin"/>
<Item name="EMC SourceOne Archive" serviceName="ExAsArchive"/>
<Item name="EMC SourceOne Discovery Manager Worker" serviceName="DCWorkerService"/>
<Item name="EMC SourceOne Document Management Service" serviceName="ExDocMgmtSvc"/>
<Item name="EMC SourceOne Indexer" serviceName="ExAsIndex"/>
<Item name="EMC SourceOne Job Dispatcher" serviceName="ExJobDispatcher"/>
<Item name="EMC SourceOne Job Scheduler" serviceName="ExJobScheduler"/>
<Item name="EMC SourceOne Mover Agent" serviceName="ES1MoverAgent"/>
<Item name="EMC SourceOne Offline Access Retrieval Service"
serviceName="ExDocMgmtSvcOA"/>
  <Item name="EMC SourceOne Query" serviceName="ExAsQuery"/>
  <Item name="EMC SourceOne Search Service" serviceName="ExSearchService"/>
</Group>
</Verify>
```



## CREATE VALIDATION TEMPLATE

Template is configs use frequently. You can create your own template configs with below steps:

1. [Create a validation config](#).
2. put the config under below location:  
[Install Path]\EMC SourceOne QA Tool\Install Validation Tool\TemplateConfigs
3. Tool will pick up all configs under TemplateConfigs folder as templates.



<< Program Files (x86) > EMC SourceOne QA Tool > Install Validation Tool > TemplateConfigs				
View Tools Help				
Include in library Share with Burn New folder				
	Name	Date modified	Type	Size
	ES1_ArchiveSetup.xml	2013-08-18 17:04	XML Document	
	ES1_ConsoleSetup.xml	2013-08-18 17:04	XML Document	
	ES1_DatabaseSetup.xml	2013-08-18 17:04	XML Document	
	ES1_DiscoveryMgrClientSetup.xml	2013-07-31 13:54	XML Document	
	ES1_DiscoveryMgrDBSetup.xml	2013-08-18 17:04	XML Document	
	ES1_MasterSetup(Domino).xml	2013-08-18 17:04	XML Document	
	ES1_MasterSetup(Exchange+ Office365).x...	2013-08-18 17:04	XML Document	
	ES1_MobileSetup.xml	2013-08-18 17:04	XML Document	
	ES1_OfflineAccess.xml	2013-08-18 17:04	XML Document	
	ES1_OfflineAccess64.xml	2013-08-18 17:04	XML Document	
	ES1_ONMViewerSetup.xml	2013-08-18 17:04	XML Document	
	ES1_OWA2010Setup.xml	2013-08-16 15:48	XML Document	
	ES1_OWA2013Setup.xml	2013-08-16 15:46	XML Document	
	ES1_SearchSetup.xml	2013-08-18 17:04	XML Document	
	ES1_Worker+ WebServices+ DiscoveryMgr...	2013-08-18 17:04	XML Document	
	ES1_Worker+ WebServices+ DiscoveryMgr...	2013-08-18 17:04	XML Document	
	ES1_WorkerSetup.xml	2013-08-18 17:04	XML Document	
	ES1_WorkerSetup+ WebServices_Setup.xml	2013-08-18 17:04	XML Document	
	SourceOne 7.0.2301 GAC Assembly.xml	2013-08-05 11:14	XML Document	
	SourceOne All In One.xml	2013-08-18 17:04	XML Document	2
	SourceOne Com Register.xml	2013-07-25 16:12	XML Document	3
	SourceOne DM Database.xml	2013-08-13 11:28	XML Document	
	SourceOne EM Database.xml	2013-08-13 11:28	XML Document	
	SourceOne Version.xml	2013-08-18 17:04	XML Document	