

ALM QC – Beginners guide to implement OTA API using Excel Macro(VB script)

Guide on steps to use OTA API in Excel Macro using Visual Basics (VB)

High Level Overview for implementing ALM QC-OTA API in Excel Macro using Visual Basic

1. Register ALM client on user machine which will run OTA API.

Application Lifecycle Management - **Tools**

ALM Connectivity

Enables you to integrate ALM with other tools.

ALM Lab Service

Enables you to remotely trigger functional tests and maintenance tasks on a testing host using ALM.
Install and configure the ALM Lab Service agent on functional testing hosts (such as VAPI and United Functional Testing) that need to connect to Lab Management.

ALM Client Registration

Deploys and registers ALM components on a client machine.

Shared Deployment for Virtual Environments

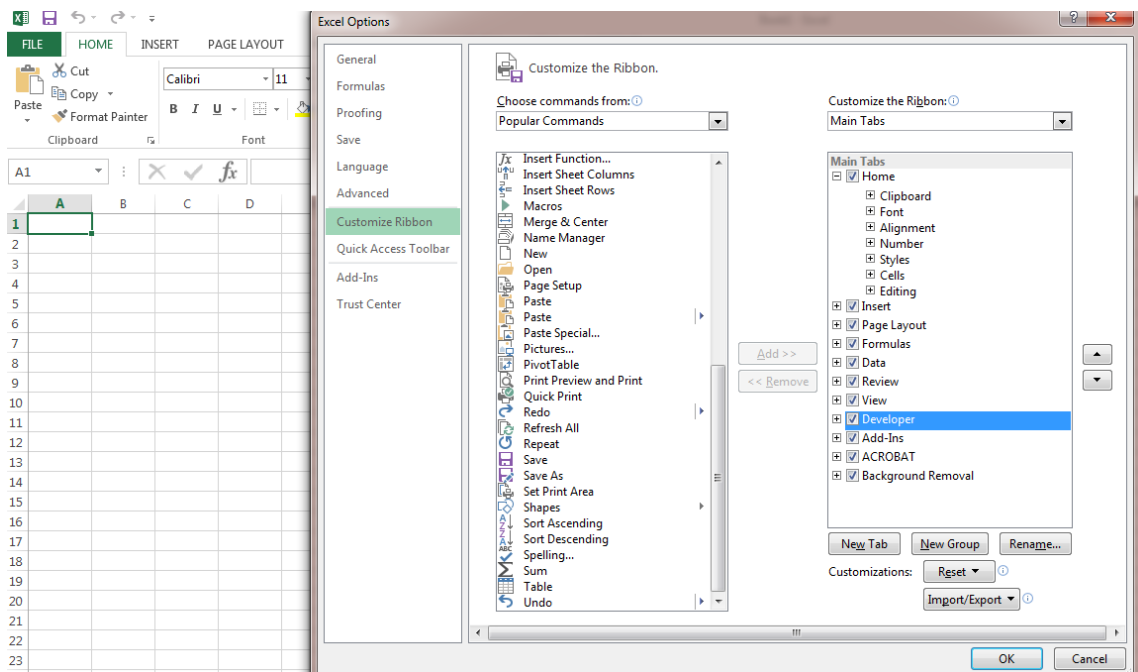
Deploys ALM components on a shared location of a client machine.

ALM WebGate Customization

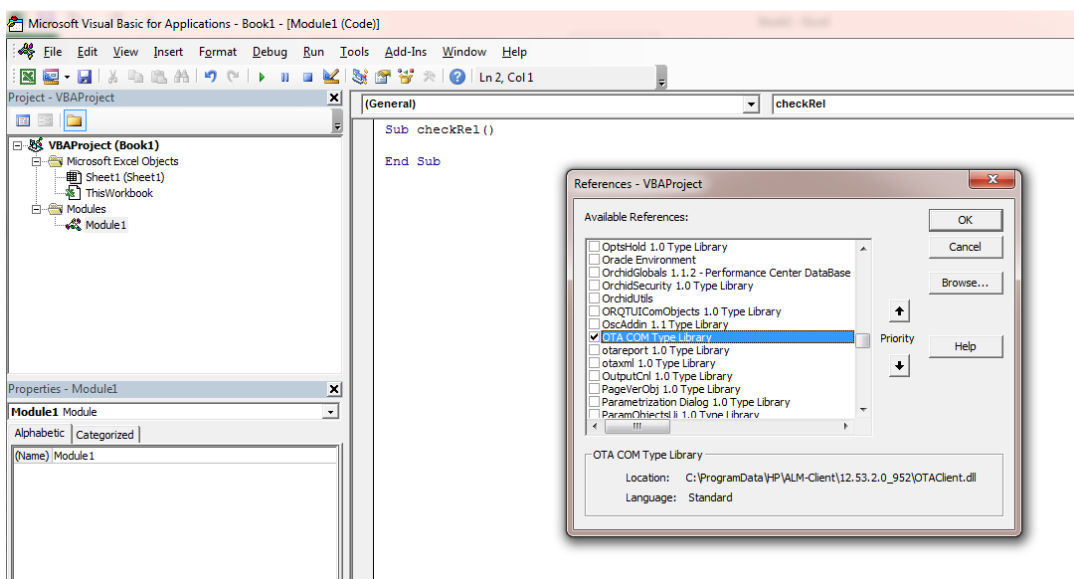
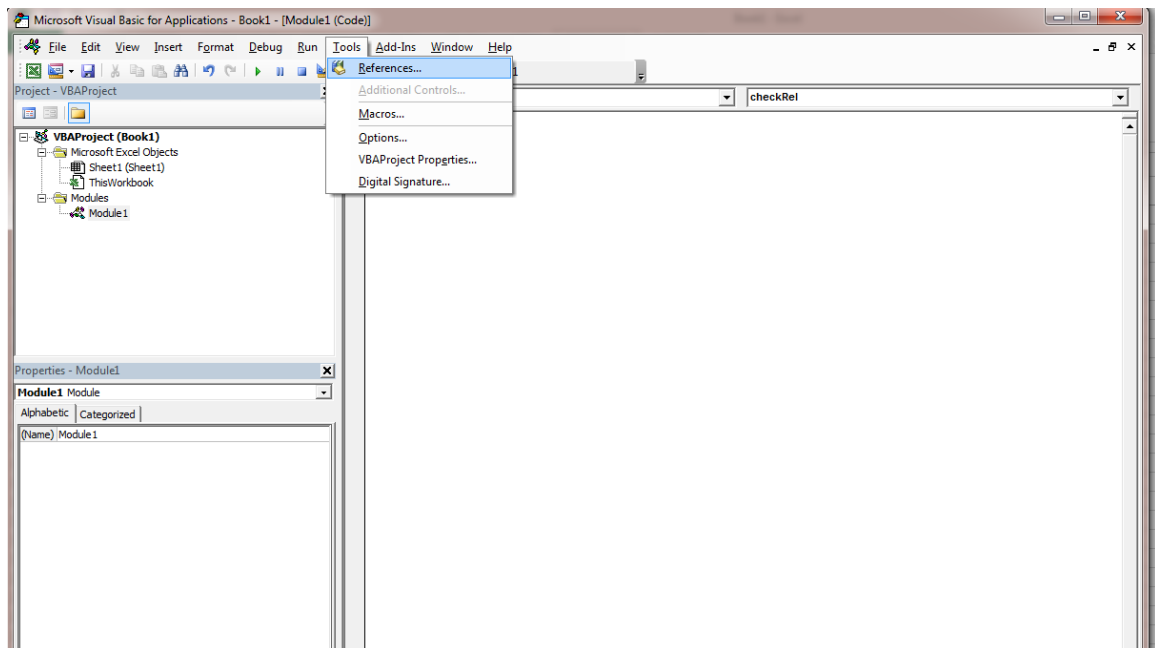
Customizes the WebGate client component.

More ALM Add-ins

2. Enable Developer Customize Ribbon , if not already enabled in Excel.



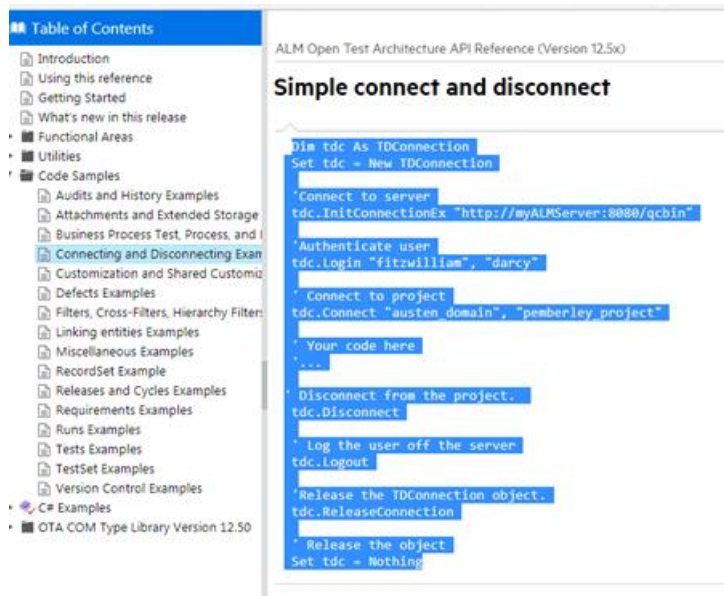
3. Enable OTA COM Type Library in Excel by going to Tools → References in Microsoft Visual Basic window.



4. Begin with creation of Macro by first connecting to ALM server . Sample codes are available in OTA API help center for different ALM QC versions

ALM HelpCenter URL

https://adnhelp.microfocus.com/alm/en/12.60/api_refs/ota/Default.htm#ota/topic96.html



Sample code to connect to ALM QC server

-----Code-----

Sub ALMQC_Connect()

On Error GoTo 0

'Connect to second project

Set tdc1 = New TDConnection

'Connect to server

tdc1.InitConnectionEx "https://xxx.saas.hpe.com/qcbin"

'Authenticate user

tdc1.Login "user_name", "password"

' Connect to project

tdc1.Connect "Domain_name", "Project_name"

' Your code here

'...

' Disconnect from the project.

tdc1.Disconnect

' Log the user off the server

tdc1.Logout

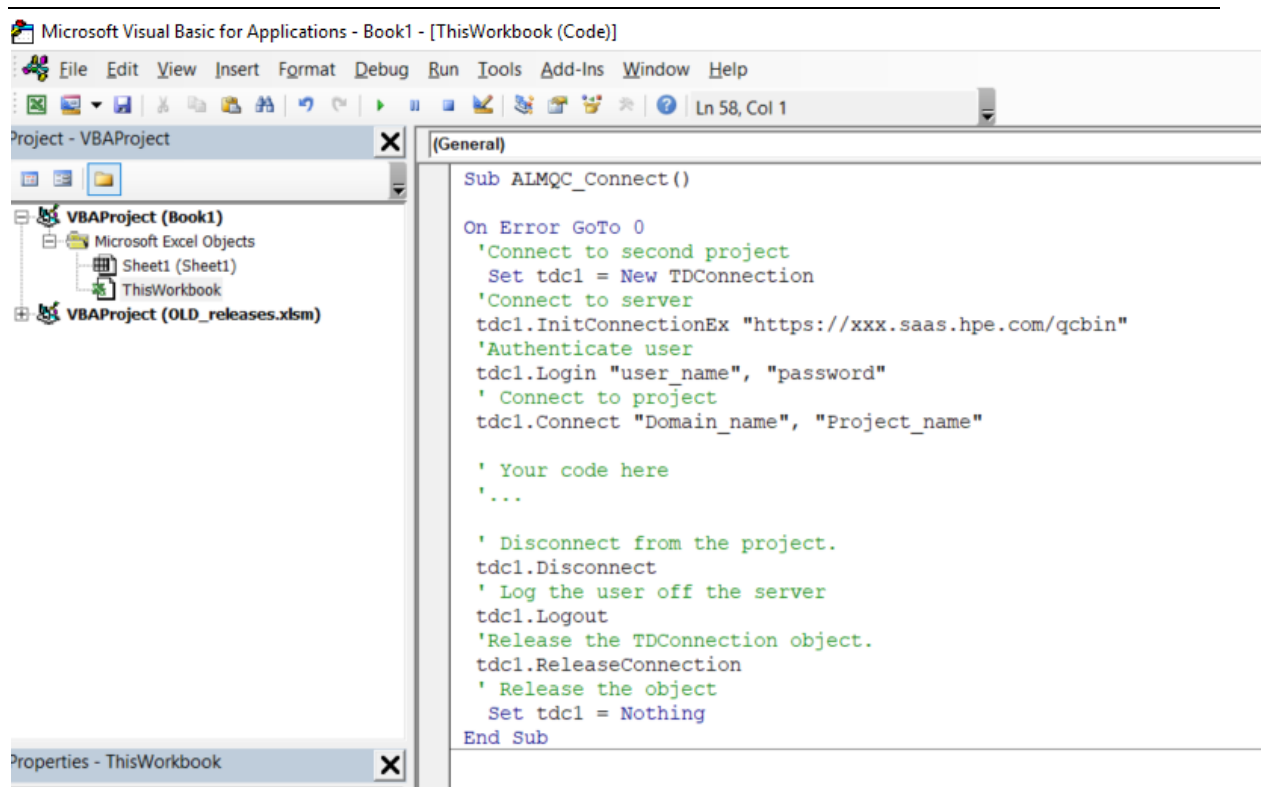
'Release the TDConnection object.

tdc1.ReleaseConnection

' Release the object

Set tdc1 = Nothing

End Sub



5. Then work on creating custom code to accomplish different requirements through OTA API . There are Sample codes available in Help Center that can be used and microfocus community also has sample codes for different use cases that can be used for reference to implement different requirements.

Micorfocus Community Link –

<https://community.microfocus.com/t5/ALM-Quality-Center/ct-p/sws-QC>

Help Center Link –

https://admhelp.microfocus.com/alm/en/12.55/online_help/Content/Resources/_TopNav/_TopNav_Home.htm

For OTA API reference - Advanced Help → API References → ALM Open Test Architecture API Reference

Examples –

- Sample OTA code to filter defects

<https://community.microfocus.com/t5/ALM-QC-User-Discussions/Need-Sample-OTA-code-to-filter-defects-and-grouping-them/m-p/1639004>

- Code samples in Help center

ALM Open Test Architecture API Reference Versions 12.50 and later

Introduction

Using this reference

Getting Started

What's new in this release

Functional Areas

Utilities

Code Samples

Audits and History Examples

Attachments and Extended Storage Exa

Business Process Test, Process, and Flo

Connecting and Disconnecting Examples

Customization and Shared Customization

Defects Examples

Filters, Cross-Filters, Hierarchy Filters E

Linking entities Examples

Miscellaneous Examples

RecordSet Example

Releases and Cycles Examples

Requirements Examples

Runs Examples

Tests Examples

TestSet Examples

Version Control Examples

C# Examples

OTA COM Type Library

Overview

Objects

ActionPermission Object

Code Samples > Defects Examples

Defects Examples

Create a defect

Defect to defect links

Follow-up flags for defect

Copy and paste a defect

Delete a defect

Defect links to tests and requirements

Change defect properties

Search for matching string

New version of an attachment

Mail a defect

Find similar defects

Download an attachment

Multiple field values

- Object references for OTA API in Help center

ALM Open Test Architecture API Reference
Versions 12.50 and later

Search

Bug Object

Members

Methods

Properties

Additional Interfaces

BugFactory Object

Members

Methods

Properties

Additional Interfaces

BusinessProcess Object

Command Object

Component Object

ComponentFactory Object

ComponentFolder Object

ComponentFolderFactory Object

ComponentParam Object

ComponentParamFactory Object

ComponentStep Object

ComponentStepFactory Object

Condition Object

ConditionFactory Object

ConfigurationCoverage Object

ConfigurationCoverageFactory Object

ConnectionSettings Object

ContentDefinition Object

ContentPart Object

ContentRoot Object

OTA COM Type Library > Objects > BugFactory Object

BugFactory Object

Members

Description

Services for managing defect records.

Remarks

Get a BugFactory object from [TDConnection.BugFactory](#).

Interfaces

Implemented Interface	Description
_IFactorySupportBatchLock	Extends IBaseFactory
IAlertableEntityFactory	A factory implements this interface to indicate that it can instantiate objects that implement the IAlertable interface.
IBaseFactory3	Provides basic object basic factory services, such as adding and removing factory child objects and creating lists of child objects.
IBaseFactoryEx	Enhances the IBaseFactory interface to support mailing.
IMailableFactory	Mail support for factories.
ISearchableFactory	Services to support text searches in properties of objects managed by a factory.

Thank You

