TRS Viewer 4.0.0300 SRD

ELECTRONIC SIGNATURES

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Tran Ba Don	Collaborated	Approved	23-Apr-2019 06:52:01 AM
Truong Ngoc Anh	Approved	Approved	25-Apr-2019 01:06:33 AM
Vu Thi Thanh Huyen	Approved	Approved	23-Apr-2019 07:36:28 AM

TRS Viewer 4.0.0300 System Requirements Definition

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Prepared by:
DXC Technology
www.dxc.technology

Document Approval

The following signatures indicate approval of this document and its content.

Project Manager

Name: Anh Truong

Signature/Date: Signed/Dated via e-Sig in FirstPoint_____

Technical Lead

Name: Don Tran

Signature/Date: Signed/Dated via e-Sig in FirstPoint_____

Test Director

Name: Huyen Vu

Signature/Date: Signed/Dated via e-Sig in FirstPoint_____

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Revision History

Version	Date	Updated by	Comments
0.1	11-Dec-2018	Phuoc Dang	Document created from TRS Viewer 4.0.0300 SRD Added *VeevaVault* in sections • 5.2 Web Server • 5.3 Agent Server
1.0	09-Jan-2019	Phuoc Dang	Published to v1.0 for approval.
1.1	22-Apr-2019	Don Tran	JIRA# VWR-1494 Updated section 5.2 Web Server with the following: • Added Oracle 12.2.0.1 (64-bit) Client to Recommended and Supported • Remove Oracle 12.1.0.2 (64-bit) Client from Recommended Updated section 5.4 Database Server with the following: • Added Oracle 12.2.0.1 (64-bit) Client to Recommended and Supported • Remove Oracle 12.1.0.2 (64-bit) Client from Recommended
2.0	22-Apr-2019	Don Tran	Published to v2.0 for approval.

Contents

Figures/Tables

1.   Overview

TRS Viewer is a web based application designed for regulatory submission viewing. TRS Viewer is a scalable enterprise system that allows an organization utilize the system based required number of users. This document defines the hardware and software requirements.

2. Assumptions

A typical Validation/Production environment is set up as per the recommended hardware & software as illustrated in the Architecture diagram that is provided in this specification.

3. Architecture Diagram

3.1 Intranet setup diagram

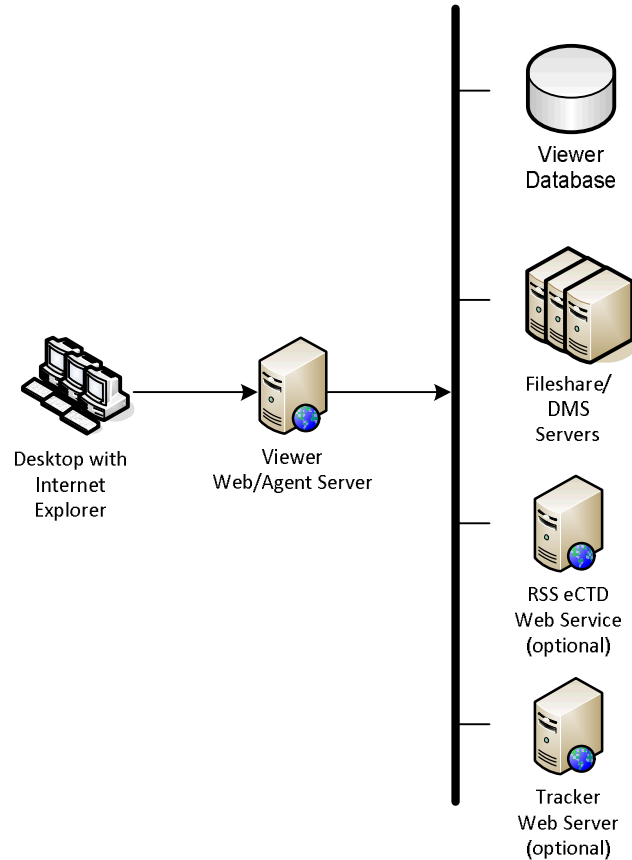This system setup is recommended for internal network users (intranet).

Figure 1 – TRS Viewer system setup (Intranet)

3.2   Internet setup diagram

This system setup is recommended for external network users (e.g. over public internet using SSL).
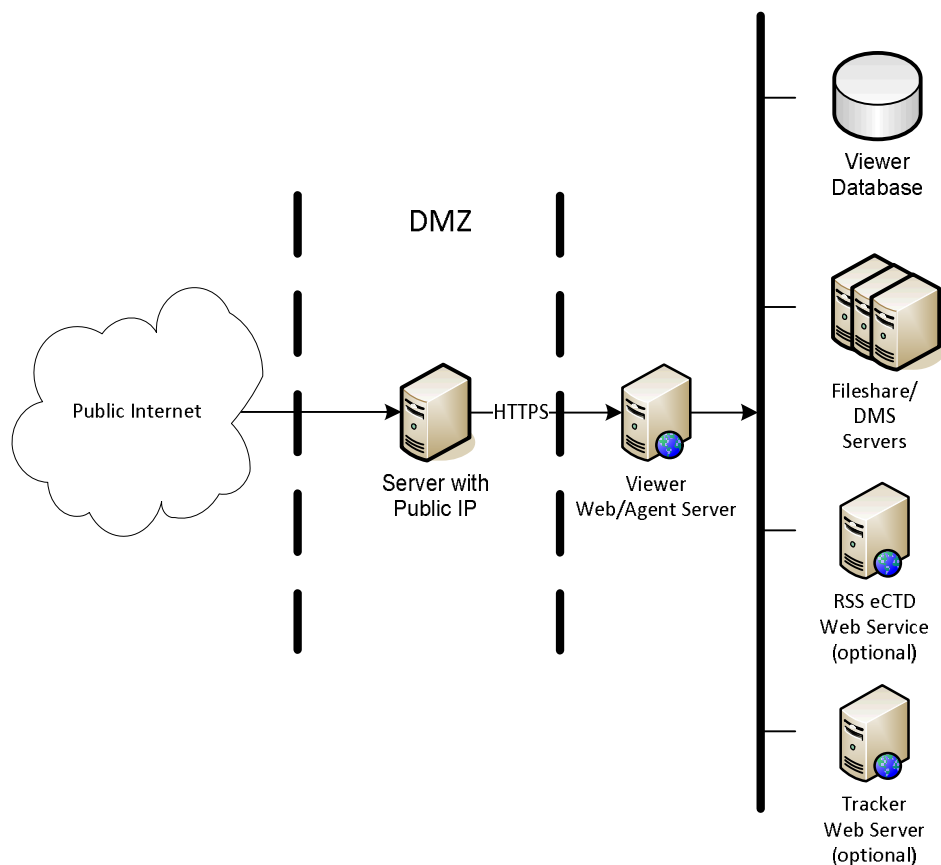

Figure 2 – TRS Viewer system setup (Internet)

4. Hardware Requirements

This section defines the hardware requirements for the system.

4.1 Client

This section defines the recommended hardware requirements for the client machine.

Client	Recommendation
Central Processing Unit (CPU) Speed	2.5 Ghz or faster processor
Random Access Memory (RAM)	4.0 GB or greater
Hard Disk Drive (HDD) Space	50 GB or higher available
Display	1024 x 768 or higher resolution
Network Adapter	1Gigabit Network Adapter

Table 1 - Client Hardware Requirements

4.2 Web Server

This section defines the recommended hardware requirements for the web server.

Web Server	Recommendation
Central Processing Unit (CPU) Speed	3.0 GHz or faster quad-core processor
Random Access Memory (RAM)	8.0 GB or greater
Hard Disk Drive (HDD) Space	500 GB or more of available hard disk space for the software application.
Network Adapter	2 x 1 Gigabit Network Adapters paired using smart load balancing.

Table 2 - Web Server Hardware Requirements

4.3 Agent Server

This section defines the recommended hardware requirements for the agent server.

Agent Server	Recommendation
Central Processing Unit (CPU) Speed	3.0 GHz or faster quad-core processor
Random Access Memory (RAM)	8.0 GB or greater
Hard Disk Drive (HDD) Space	250 GB of available hard disk space for the software application.
Network Adapter	2 x 1 Gigabit Network Adapters paired using smart load balancing.

Table 3 - Agent Server Hardware Requirements

4.4   Database Server

Please refer to database software vendor specifications for supported and recommended hardware and software details.

4.5   File Server

If a location within the Web or Agent server has not been allocated as the designated file server (output and cache location), an additional designated server can be allocated.

File Server	Recommendation
Type	File Share (SMB)
Central Processing Unit (CPU) Speed	2.9 GHz or faster quad-core processor
Random Access Memory (RAM)	8.0 GB or greater
Hard Disk Drive (HDD) Space	> 100 GB hard disk array[1]
Adapter	2 x 1 Gigabit Network Adapters paired using smart load balancing or Fiber Channel connection to Solution platform Enterprise Server.

Table 4 – File Server Hardware Requirements

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[1] File server capacity must be monitored and forecasted based on the expected throughput expected by Caching Agents

5. Software Requirements

This section details the software requirements for the system. Although specific versions are mentioned, this does not mean that all possible combinations of the third party software can be used and will be certified.

DXC reserves the right to determine upon market and client request to test, validate and certify specific software configurations for the initial release and subsequently after the release.

5.1 Client

Client	Supported	Recommended
Operating System	Windows 7 SP1 (64 bit, English) Windows 8.1[2] (64 bit, English) Windows 10 (64 bit, English)	Windows 8.1[2] (64 bit, English) Windows 10 (64 bit English)
Other Applications	Microsoft .NET Framework 4.6.1 Microsoft .NET Framework 4.6.2 Microsoft .NET Framework 4.7.2	Microsoft .NET Framework 4.7.2
	FireFox, Google Chrome, Internet Explorer 11, Microsoft Edge	Internet Explorer 11, Microsoft Edge
	*Adobe Acrobat 11.0.13 (with VLM and/or ViewerPDFPlugin) *Adobe Acrobat DC (with VLM and/or ViewerPDFPlugin) *Adobe Acrobat 2017 (with VLM and/or ViewerPDFPlugin)	*Adobe Acrobat DC (with VLM and/or ViewerPDFPlugin[3]) *Adobe Acrobat 2017 (with VLM and/or ViewerPDFPlugin[4])
	Microsoft Office 2013 SP1 (English) Microsoft Office 2016 (English)	Microsoft Office 2013 SP1 (English) Microsoft Office 2016 (English)
Other Applications	Microsoft Visual C++ 2015 Redistributable (x86)[5] http://www.microsoft.com/en-us/download/details.aspx?id=48145	Microsoft Visual C++ 2015 Redistributable (x86)[5] http://www.microsoft.com/en-us/download/details.aspx?id=48145

***Note** – In order to use Virtual Link Manager (VLM) in conjunction with Viewer, please refer to the applicable TRS Publishing System Requirements document for additional details.

Table 5 - Client Software Requirements

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[2] Default .NET Framework for Win 8.1/2012 R2 server is 4.5.1
[3] Required for hyperlink navigation when viewing PDF content within Adobe Acrobat
[4] Required for hyperlink navigation when viewing PDF content within Adobe Acrobat
[5] Required for Virtual Link Manager 4.0.0200.

5.2   Web Server

Web Server	Supported	Recommended
Operating System	Windows Server 2012 R2[2] Standard Windows Server 2016 Standard	Windows Server 2012 R2[2] Standard Windows Server 2016 Standard
Database Client	Oracle 12.1.0.2 (64- bit) Client Oracle 12.2.0.1 (64-bit) Client	Oracle 12.2.0.1 (64-bit) Client
	SQL Server Management Studio 2012 SP3 (optional) SQL Server Management Studio 2014 SP1 (optional)	SQL Server Management Studio 2014 SP1 (optional)
DMS	VeevaVault	VeevaVault
	SharePoint 2013	SharePoint 2013
	Documentum 7.2, 7.3	Documentum 7.3
	FirstDoc 6.3, 6.4, 7.0.04, 7.0.05, 7.0.07	FirstDoc 7.0.07
	FileShare (SMB)	FileShare (SMB)
Other Applications, API's or SDK's	Microsoft .NET Framework 4.6.1 Microsoft .NET Framework 4.6.2 Microsoft .NET Framework 4.7.2	Microsoft .NET Framework 4.7.2
	Internet Information Services (ASP.NET 4.5/4.6, ASP and IIS 6 Management Compatibility enabled within Web Server IIS Roles) WebSocket protocol	Internet Information Services (ASP.NET 4.5/4.6, ASP and IIS 6 Management Compatibility enabled within Web Server IIS Roles) WebSocket protocol
	DFC Runtime Environment 7.2 DFC Runtime Environment 7.3	DFC Runtime Environment 7.3
	Microsoft Visual C++ 2015 Redistributable (x64) http://www.microsoft.com/en-us/download/details.aspx?id=48145	Microsoft Visual C++ 2015 Redistributable (x64) http://www.microsoft.com/en-us/download/details.aspx?id=48145
	SharePoint Foundation 2013 Client Object Model Redistributable http://www.microsoft.com/en-us/download/details.aspx?id=35585	SharePoint Foundation 2013 Client Object Model Redistributable http://www.microsoft.com/en-us/download/details.aspx?id=35585
DXC Software Integrations	*TRS Publishing 4.0.0300	* TRS Publishing 4.0.0300

Table 6 - Web Server Software Requirements

***Note** – In order to integrate Viewer with TRS Publishing for viewing in-progress dossiers, please refer to the applicable TRS Publishing System Requirements Definition document (SRD) for additional details.

5.3   Agent Server

Agent Server	Supported	Recommended
Operating System	Windows Server 2012 R2² Standard Windows Server 2016 Standard	Windows Server 2012 R2² Standard Windows Server 2016 Standard
Database Client	Oracle 12.2.0.1 (64- bit) Client Oracle 12.1.0.2 (64- bit) Client	Oracle 12.2.0.1 (64-bit) Client
	SQL Server Management Studio 2012 SP3 (optional) SQL Server Management Studio 2014 SP1 (optional)	SQL Server Management Studio 2014 SP1 (optional)
DMS	VeevaVault	VeevaVault
	SharePoint 2013	SharePoint 2013
	Documentum 7.2, 7.3	Documentum 7.3
	FirstDoc 6.3, 6.4, 7.0.04, 7.0.05, 7.0.07	FirstDoc 7.0.07
	FileShare (SMB)	FileShare (SMB)
Other Applications, API's or SDK's	Microsoft .NET Framework 4.6.1 Microsoft .NET Framework 4.6.2 Microsoft .NET Framework 4.7.2	Microsoft .NET Framework 4.7.2
	Internet Information Services (ASP.NET 4.5/4.6, ASP and IIS 6 Management Compatibility enabled within Web Server IIS Roles) WebSocket protocol	Internet Information Services (ASP.NET 4.5/4.6, ASP and IIS 6 Management Compatibility enabled within Web Server IIS Roles) WebSocket protocol
	DFC Runtime Environment 7.2 DFC Runtime Environment 7.3	DFC Runtime Environment 7.3
	Microsoft Visual C++ 2015 Redistributable (x64) http://www.microsoft.com/en-us/download/details.aspx?id=48145	Microsoft Visual C++ 2015 Redistributable (x64) http://www.microsoft.com/en-us/download/details.aspx?id=48145
	SharePoint Foundation 2013 Client Object Model Redistributable http://www.microsoft.com/en-us/download/details.aspx?id=35585	SharePoint Foundation 2013 Client Object Model Redistributable http://www.microsoft.com/en-us/download/details.aspx?id=35585
DXC Software Integrations	*TRS Publishing 4.0.0300	* TRS Publishing 4.0.0300

Table 7 - Agent Server Software Requirements

*__Note__ – In order to integrate Viewer with TRS Publishing for viewing in-progress dossiers, please refer to the applicable TRS Publishing System Requirements Definition document (SRD) for additional details.

5.4   Database Server

Database Server	Supported	Recommended
Database Components	Oracle 12.1.0.2 64 bit Oracle 12.2.0.1 64 bit	Oracle 12.2.0.1 64 bit
	Microsoft SQL Server 2014 SP1 Microsoft SQL Server 2014 SP2	Microsoft SQL Server 2014 SP2

Table 8 - Database Server Software Requirements

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