

Server Installation Guide

For DSS 4.2

Version: 01

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CHAPTER 1. Introduction

This Installation Guide is intended for IT Specialist and describes how to install Digital Sign Service system.

The document consists of the following chapters:

- <u>Introduction</u> chapter gives you the structure of the document as well as an overview of the Digital Sign Service software.
- Installation chapter provide you steps that you need to follow in order to install the DSS software.

In this chapter:

- Definitions, Acronyms and Abbreviations
- Digital Sign Service Overview



Terminology List

Term	Definition
AD (Active Directory)	Service that provides the means to manage the identities and relationships that make up network environments.
Destination store	The place to where Digital Sign Service puts the xml file extracted from Exchange Server. In this version of Digital Sign Service, Destination Store is Ftp Server, file server or ISS
Digital Sign Service (DSS)	Digital Sign Service is a software designed to collect data from Exchange Server and store it in a specific location as well as update data on Exchange Server when receiving request.
Exchange Connector	The system which can use the xml output from DSS. Digital signs assigned to those systems read the content of the XML files. In this case appointment content for multiple calendar accounts are stored in one XML
Group or distribution list	List of users joined together as one entity. Created in AD or on Exchange Server.
IIS (Internet Information Service)	A Web server with integrated, reliable, scalable, secure, and manageable capabilities available over an intranet, the Internet, or an extranet, and is a tool for creating a strong communications platform for dynamic network applications.
Microsoft .NET Framework	A set of Microsoft software technologies for connecting information, people, systems, and devices. It enables a high level of software integration through the use of Web services: small, discrete, building-block applications that connect to each other as well as to other, larger applications over the Internet.
Microsoft Exchange Server	Server software enabling you to send and receive electronic mail and other forms of interactive communication through computer networks.
UTC (Coordinated Universal Time)	Equivalent to mean solar time at the prime meridian, formerly expressed in GMT.

Digital Sign Service Overview

The two main purposes of Digital Sign Service are:

- To extract appointment information from assigned MS Exchange calendar accounts and place this information in standard XML files, so they can be used for further processing by digital signage.
- To collect user input from digital signs. Based on this input, DSS can modify the content of assigned MS Exchange calendar accounts.

The basic DSS components are as follows:

- **Digital Sign Service backend (DSS backend)** provides the options for saving the configuration of the connecting information, destination store, filtering output data and logging.
- **Digital Sign Windows Service** collects data from Exchange Server and stores it in a specified destination. The service functions in Loop- or interval-based which means that data will be synchronized from the Exchange server at specified intervals or whenever it is requested. Digital Sign Service can perform full synchronization: all data is replicated from the Exchange server and from Domain Controller (Active Directory).



• **Digital Sign REST Service** provides the ability for a **third-party program** to communicate with the Exchange Server in order to update data on the Exchange Server. The functionalities that the Web service provides are **End current meeting**; **Extend current meeting**; and **Book a new meeting**.

DSS synchronizes data from the Exchange server to two **destination stores**. Digital Sign Service **backend** provides the options for saving the configuration of those stores, including filtering and settings for private appointments. The destination stores are listed below:

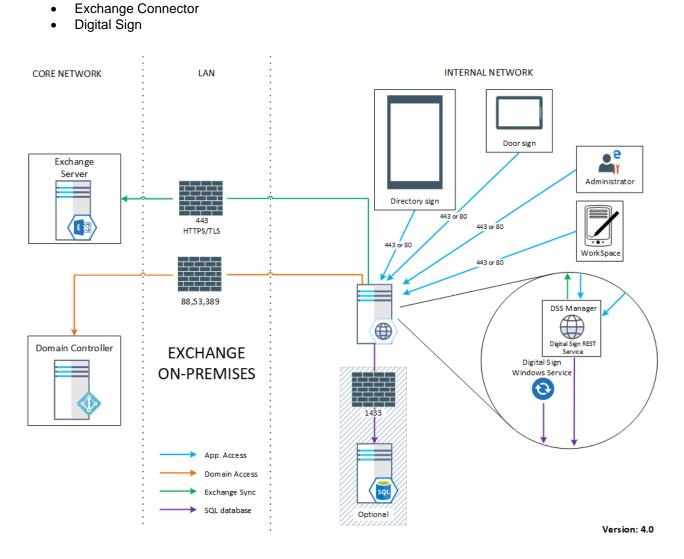


Figure 1. Digital Sign Service System – On Premises



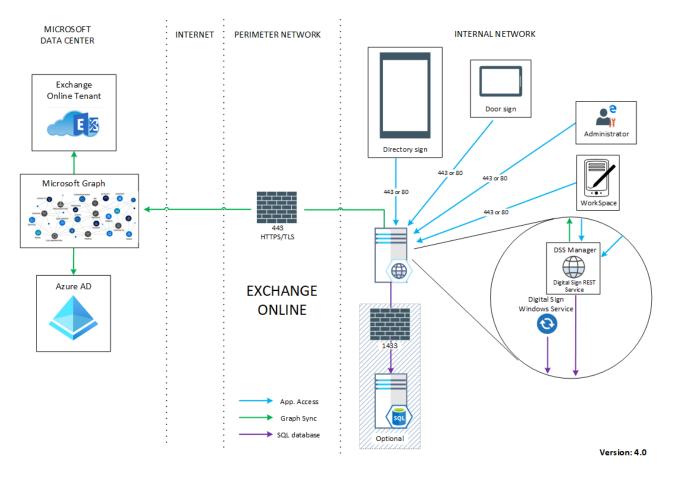


Figure 2. Digital Sign Service System – Azure



CHAPTER 2.

NOTE: For security purpose, we recommend using SSL when doing configuration for Digital Sign Service.

Install Digital Sign Service

Prepare for installation

To prepare for installation of DSS for Server, please have a look at the following sections:

- Go to System Requirements page to know how to set up prerequisite software
- Install required IIS components, including:
 - Web Server (IIS)

Local Server	Add Roles and Features Wizard	_ D X
All Servers File and Storage Services ▷ Select se	ver roles	DESTINATION SERVER RCTOLEC.COM
Before You Installation	e Roles	Description
Server Sele Server Role Features Confirmatio Results	 Active Directory Corfficate Services Active Directory Pomain Services Active Directory Lightweight Directory Services Active Directory Lights Management Services Application Server DHCP Server DNS Server Fax Server I File and Storage Services (1 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Desktop Services Volume Activation Services Web Server (105) Windows Deplayment Services 	Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure. Image: Add Roles and Features Wizard Add features that are required for Web Server (IIS): The following tools are required to manage this feature, but do in have to be installed on the same server. Image: Web Server (IIS) Web Server (IIS) Image: Meanagement Tools [Tools] IIS Management Console
	Windows Server Essentials Experience Windows Server Update Services	Include management tools (if applicable) Add Features Can

- ASP.NET 4.5

Select features	
Before You Begin Installat Before you begin	Select one or more features to install on the selected server.
Server Selection	 INET Framework 3.5 Features (1 of 3 installed)
Server Roles	▲ III .NET Framework 4.5 Features (2 of 7 installed)
Features	✓ NET Framework 4.5 (Installed)
Confirmation	ASP.NET 4.5
Results	WCF Services (1 of 5 installed)
	Background Intelligent Transfer Service (BITS)
	BitLocker Drive Encryption

- .NET Extensibility 4.5
- ISAPI Extensions
- ISAPI Filters

Select server ro	les
Before You Begin	Select one or more roles to install on the selected server.
Installation Type	Roles
Server Selection	
Server Roles	▲ ■ Performance (1 of 2 installed)
Features	✓ Static Content Compression (Installed)
	Dynamic Content Compression
Confirmation	▲ Security (1 of 9 installed)
Results	Request Filtering (Installed)
	Basic Authentication
	Centralized SSL Certificate Support
	Client Certificate Mapping Authentication
	Digest Authentication
	IIS Client Certificate Mapping Authentication
	IP and Domain Restrictions
	URL Authorization
	Windows Authentication
	. Application Development
	.NET Extensibility 3.5
	✓ .NET Extensibility 4.5
	Application Initialization
	□ ASP
	ASP.NET 3.5
	ASP.NET 4.5
	CGI
	✓ ISAPI Extensions
	✓ ISAPI Filters
	Server Side Includes
	WebSocket Protocol
	FIP Server

NOTE: If other IIS components are enabled, they do not need to be removed.

• Install .NET framework 4.8



Install Digital Sign Service

After you have launched the Digital Sign Service setup wizard, you will see the welcome screen as shown in the figure below:

妃 Digital Sign Service - InstallShield Wizard 🛛 🕹				
2	Welcome to the InstallShield Wizard for Digital Sign Service			
	The InstallShield(R) Wizard will install Digital Sign Service on your computer. To continue, dick Next.			
WARNING: This program is protected by copyright law and international treaties.				
	< Back Next > Cancel			

Figure 3. Digital Sign Service Installer Welcome page

Click Next to proceed with the installation.

🞲 Digital Sign Service - InstallShield Wizard	×
License Agreement	
Please read the following license agreement carefully.	
	_
Add-On Products software license agreement	<u>^</u>
Important - read carefully before accessing Add-On Products software.	
By accessing or otherwise utilizing the services of the software, you agree to be bound by the terms of this Add-On Products Software License Agreement. If you do not agree to the terms of this Add-On Products Software License, you are not allowed to copy or use the software and you must therefore promptly return this package to the place from which you obtained it for a full refund. This License gives you the right to use Add-On Products, Exchange Central accessing the number of clients / mailboxes written on the License.	
Limitations on Reverse Engineering, Decompilation, and Disassembly You may not reverse engineer, decompile, or disassemble the Software, except and only to	~
I accept the terms in the license agreement Print	
\bigcirc I do not accept the terms in the license agreement	
InstallShield	
< Back Next > Cancel	

Figure 4. License Agreement

Select "I accept the terms in the license agreement" and click [Next].



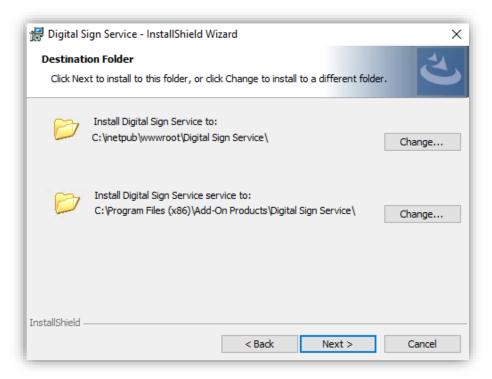


Figure 5. Destination Folder

Select destination folders for your installation, or you can use the default destination. Click [Next] to continue.

🞲 Digital Sign Service - InstallShield Wizard	×
IIS Information Please enter your information.	と
Please select website:	
Default Web Site	~
Please enter Application Name:	
DigitalSignService	
InstallShield	
< Bac	k Next > Cancel

Figure 6. IIS Information

Select website and click [Next].



🖟 Digital Sign Service - InstallShield Wiza	rd		×
Ready to Install the Program			4.
The wizard is ready to begin installation.			
Click Install to begin the installation.			
If you want to review or change any of yo exit the wizard.	our installation setti	ngs, dick Back. C	lick Cancel to
*			
InstallShield	< Back	Install	Cancel

Figure 7. Begin installation

The setup wizard now reports that the installer is ready to install Digital Sign Service on your Computer. You can review the installation settings specified during the previous steps by clicking [**Back**]. If you are sure that everything has been specified correctly, click [**Install**] to begin the installation.

🖟 Digital Si	ign Service - InstallShield Wizard —	×
	Digital Sign Service gram features you selected are being installed.	と
P	Please wait while the InstallShield Wizard installs Digital Sign Service. This may take several minutes.	
	Status:	
InstallShield -		
	< Back Next > C	ancel

Figure 8. Installing Digital Sign Service

When the installation is complete, a screen will appear informing you about the result of that installation.



🛃 Digital Sign Service - InstallShield Wizard 🛛 🗙		
ی	InstallShield Wizard Completed The InstallShield Wizard has successfully installed Digital Sign	
	Service. Click Finish to exit the wizard.	
	< Back Finish Cancel	

Figure 9. Installation completed

Click [Finish] to complete Digital Sign Service installation process.

After this, you can go to the link with the following format to begin using Digital Sign Service.

http://Servername/DigitalSignService (e.g. http://AddOn.com/DigitalSignService)

or http://ServerIPaddress/DigitalSignService (e.g. http://213.128.1.157/DigitlalSignService)

Remove Digital Sign Service

You may want to remove all Digital Sign Service components from your computer, follow the steps below:

Uninstallation of DSS software

From the **Start** menu, select **Control Panel**, **Programs and Features**. The list of all programs installed on your computer will appear. It will look like on the figure below.

🛐 add-on - Programs and Features				
\leftarrow \rightarrow \checkmark \uparrow $\overline{\mathfrak{g}}$ > Control Panel > Programs > Programs and Features				
Control Panel Home	Uninstall or change	a program		
View installed updates To uninstall a program, select it from the list and then a				
Turn Windows features on or off Organize •				
	Name	Publisher		
	Digital Sign Service	Add-On Products		
	ResourceCentral	Add-On Products		

Figure 10. Add or Remove Programs window

Select the **Digital Sign Service** entry from the list and click [**Uninstall**]. Confirm your decision to remove Digital Sign Service from your computer.

Post-Removal Cleanup

In uninstallation process, DSS backend Setup Wizard removes all the installed components from your computer. However, it removes only the files and folders that were previously installed. Some of the files will not be removed. These are the newly created files in the folder to which DSS backend was installed. DSS backend installation folder is located at:

C:\inetpub\wwwroot\Digital Sign Service

You will need to manually remove these files and folders.

In particular, another DSS backend folder will also need to be removed. It is by default located at:

C:\ProgramData\Add-On Products\Digital Sign Service

You will need to remove the folder with the files inside.

NOTE

If you changed the names of the files or folders belonging to DSS backend, DSS Setup Wizard will not be able to remove them.

Give the renamed files and folders their original names before you begin removing Digital Sign Service or remove them manually.