

Server Installation Guide

For DSS 4.3

Version: 04

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CHAPTER 1. Introduction

This Installation Guide is intended for IT Specialist and describes how to install DS 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 DS 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
- DS 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 DS Service puts the xml file extracted from Exchange Server. In this version of DS Service, Destination Store is Ftp Server, file server or ISS
DS Service (DSS)	DS 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.

DS Service Overview

The two main purposes of DS 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:

- **DS 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. DS 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**. DS 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:

- Exchange Connector
- Digital Sign



Figure 1. DS Service System – On Premises



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Figure 2. DS Service System – Azure





CHAPTER 2.

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

Install DS Service

Prepare for installation

To prepare for installation of DS Service, 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)

Dashboard	WELCOME TO SERVER MA	NAGER	
Local Server	E	Add Roles and Features Wizard	_ D X
All Servers File and Storage Services ▷	Select server ro Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more roles to install on the selected server. Roles Active Directory Certificate Services Active Directory Federation Services Active Directory lightweight Directory Services Active Directory lightweight Directory Services Active Directory Rights Management Services Application Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server	Description Web Server (IIS) Characteristic Console Web Server (IIS) Characteristic Console Web Server (IIS) Characteristic Console Web Server (IIS) Web Server (IIS) Web Server (IIS) Web Server (IIS) Management Tools (Tools) IIS Management Console Mediate Console Mediate Console Mediate Console Mediate Console Conso
			< Previous Next > Install Cancel

- ASP.NET 4.8





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

• Install .NET framework 4.8

Install DS Service

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





Figure 3. DS Service Installer Welcome page

Click Next to proceed with the installation.

🕼 DS Service - InstallShield Wizard	×			
License Agreement				
Please read the following license agreement carefully.	Δ			
Add-On Products software license agreement	^			
Important - read carefully before accessing Add-On Products softwar	re.			
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.

🔀 DS Service - InstallShield Wizard		×
IIS Information Please enter your information.		Δ
Please select website:		
Default Web Site		~
Please enter Application Name:		
DigitalSignService		
InstallShield	< Back N	lext > Cancel

Figure 6. IIS Information

Select website and click [Next].



🕼 DS Service - InstallShield Wizard	×
Ready to Install the Program	
The wizard is ready to begin installation.	Δ
Click Install to begin the installation.	
If you want to review or change any of your installation settings, on exit the wizard.	lick Back. Click Cancel to
InstallShield	
< Back In:	stall Cancel

Figure 7. Begin installation

The setup wizard now reports that the installer is ready to install DS 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.

ce - InstallShield Wizard	—		×
DS Service		{	Δ
Please wait while the InstallShield Wizard installs DS Service several minutes.	. This m	ay take	
Status;			
< Back Next	>	Can	cel
	ce - InstallShield Wizard DS Service gram features you selected are being installed. Please wait while the InstallShield Wizard installs DS Service several minutes. Status: www.selected.com	ce - InstallShield Wizard — DS Service gram features you selected are being installed. Please wait while the InstallShield Wizard installs DS Service. This m several minutes. Status: www.selected.com	ce - InstallShield Wizard — — — — — — — — — — — — — — — — — — —

Figure 8. Installing DS Service

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



🛃 DS Service - InstallShield Wiz	ard X			
C D	InstallShield Wizard Completed			
	The InstallShield Wizard has successfully installed DS Service. Click Finish to exit the wizard.			
	Show the Windows Installer log			
	< Back Finish Cancel			

Figure 9. Installation completed

Click [Finish] to complete DS Service installation process.

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

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

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

Remove DS Service

You may want to remove all DS 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.

Uninstall or change a program				
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.				
Organize 🔻				:==
Name ^	Publisher	Installed On	Size	Version
Browser for SQL Server 2016	Microsoft Corporation	1/25/2021	10.2 MB	13.2.5026.0
🔯 DS Service	Add-On Products	8/16/2021	192 MB	4.03.04.0017
E FileZilla Client 3.42.1	Tim Kosse	5/16/2019	26.4 MB	3.42.1
🛃 Microsoft Azure Active Directory	Microsoft Corporation	9/11/2019	14.7 MB	1.1.166.0
🛃 Microsoft Help Viewer 2.3	Microsoft Corporation	5/29/2020	12.1 MB	2.3.28107

Figure 10. Add or Remove Programs window



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

Νοτε

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 DS Service or remove them manually.