

# **Technical requirements MediusFlow Cloud**

This document describes technical requirements for end clients that uses MediusFlow Cloud and was last updated September 19<sup>th</sup> 2016.

# 1 End user client requirements

## 1.1 Software requirements

The following operating systems are supported in combination with the web browsers mentioned below:

- Windows 7, Windows 8, Windows 8.1
- Windows 10 (supported from MediusFlow XI R29)
- Mac OS X Lion and later

The following Web browsers are recommended:

- Google Chrome, most recent stable version
- Chrome applies updates automatically. Medius makes every effort to test and support the most recent version.
- Mozilla Firefox, most recent stable version
- By default Firefox is set to update automatically but it can be changed to manual. Medius makes every effort to test and support the most recent version.
- Apple Safari, version 8.x or later

The following Web browsers are supported:

- Microsoft Edge, most recent stable version
- Microsoft Internet Explorer version 11.0

Updates can be done automatically through Windows Update.

Use this link to check overall browser usage statistics, it can be filtered on versions, regions, time intervals etc: <u>http://gs.statcounter.com/</u>

#### Supported vs recommended browsers

By Recommended browser, we mean the browsers where XI performs the best in terms of:

- \* User experience
- \* Performance
- \* Robustness
- \* Maturity

Supported browsers can be used, but they perform less well in the areas described above. For example:

- \* Manual tests have been executed for a shorter time, meaning that minor quirks can still exist
- \* Browsers that are not actively developed any longer and the vendor has set an End Of Life
- date (for example, Internet Explorer 11).
- \* Statistics based on usage (how much is a particular browser used by our customers)
- Noticeable degradation in terms of performance etc.



# 1.2 Hardware requirements

Below are the requirements on a local machine to make the user experience as good as possible.

- Processor: Dual-core Intel i5, 2GHz or better
- RAM: 4 GB
- Screen resolution: Minimal supported screen resolution is 1280x720. Recommended resolution is 1920x1080 or higher.

#### **Desktop virtualization**

If possible, avoid running MediusFlow on Citrix or any other desktop virtualization platform. If it cannot be avoided, make sure the thin clients are (at least) configured according to the requirements below. Otherwise, end-users will experience performance problems.

# 2 Integration requirements

MediusFlow Cloud can integrate to local services within customer networks. The most common integrations are:

#### **ERP** integration

Data exchange between MediusFlow and the ERP system

#### Active Directory integration

- Being able to import users from AD to MediusFlow
- Being able to authenticate (log in) with AD credentials on MediusFlow Cloud

# 3 General Integration Requirements

These are general requirements to be able to setup integrations with Mediusflow.

Customer is responsible to set up the integration server to fulfil these requirements.

#### 3.1 Integration Server

The ERP integration needs to send and fetch data to/from the ERP system. To do this there is a need to setup a Medius Integration Client in the local network (on premise at customer) that performs the data exchange between MediusFlow Cloud and the ERP system. The Integration Client is a Windows application that can be installed on any server fulfilling the following requirements (server can be shared with other applications):

Component	Requirement
OS	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2
CPU	2 GHz
RAM	4 GB



Disk

2 GB

### 3.2 Access

Access	Comment		
VPN	VPN credentials to integration server		
Server account	Administration rights on integration server		
ERP access	ERP credentials and access to ERP server/services from integration server		
MediusFlow XI	Integration server needs to have access to MediusFlow XI SOAP services.		
	Cloud environment		
	Port 9085 for outbound traffic		
	On premise		
	<ul> <li>Network communication between the Integration Server and the Mediusflow server</li> <li>Default port: 19308 (could be different in your project)</li> </ul>		
	Verify access on		
	https://cloud.mediusflow.com:9085/mediusflowIBSQA/IntegrationMessageService		
	IntegrationMessageService Service You have created a service. To test this service, you will need to create a client and use it to call the service. You can do this using the sycutil.exe tool from the command line with the following syntax:		
	<pre>svcutil.exe https://cloud14.mediusflow.com:9085/mediusflowsap0A/IntegrationMessageService?wsd1_</pre>		
	You can also access the service description as a single file: https://cloudi4.mediusflow.com:9005/mediusflowsapQA/IntegrationMessageService?singleWadl		
	This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:		
	C#		
	CLASS lest ( static void Main()		
	<pre>{     IntegrationMessageServiceClient client = new IntegrationMessageServiceClient(); </pre>		
	<pre>// Use the 'client' variable to call operations on the service.     // Always close the client.     client.Close();     } }</pre>		
	Visual Basic		
	<pre>Class Test    Shared Sub Main()    Dim Clent As IntegrationMessageServiceClient = New IntegrationMessageServiceClient()    ' Use the 'client' variable to call operations on the service.</pre>		
	<pre> ' Always close the client.</pre>		
FTP	Medius Consultants to transport deployment files to the Integration server		
	Port 21 need to be opened for outbound traffic		

For Cloud environment: In addition, these ports need to be open in the customer firewall for the Medius Integration Client:

Binding	Connectivity mode	Port
WSHttp2007RelayBinding	HTTPS, outbound	9085



## 3.3 Windows Roles and Features

The feature "Microsoft Identity Foundation" needs to be enabled.

- For Windows Server 2008R2, install from this link: <u>http://www.microsoft.com/en-us/download/confirmation.aspx?id=17331</u>
- For Windows Server 2012, install from "Add Roles and Features Wizard"

<b>B</b>	Add Roles and Features Wizard	
ESEIECT Features Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Add Roles and Features Wizard Select one or more features to install on the selected server. Features Subsystem for UNIX-based Applications [Deprecat Genet Client Telnet Client Telnet Server TFTP Client User Interfaces and Infrastructure (Installed) Windows Biometric Framework	DESTINATION SERVER TEST-LS15-EE1.test.deitterick.com Description Windows Identity Foundation (WIF) 3.5 is a set of .NET Framework classes that can be used for implementing claims-based identity in your .NET 3.5 and 4.0 applications. WIF 3.5 has been superseded by WIF classes that are provided as part of .NET 4.5. It is recommended that you use .NET 4.5 for supporting
	Windows Feedback Forwarder         ✓ Windows Identity Foundation 3.5         ○ Windows Internal Database         ▷ ◎ Windows PowerShell (Installed)         ▷ ○ Windows Process Activation Service         ○ Windows Server Shell (Installed)         ▷ ○ Windows Server Backup         ○ Windows Server Migration Tools         <	claims-based identity in your applications.

# 3.4 Software Installed

Software	Comment	Download
.NET	To be able to run integration engine	http://www.microsoft.com/en-
Framework 4.5		us/download/details.aspx?id=30653
Powershell	Used during deployment of integration	http://social.technet.microsoft.com/wiki/content
version 4.0 or	packages	s/articles/21016.how-to-install-windows-
later		powershell-4-0.aspx
Chrome	Preferred web browser for MediusFlow.	http://www.google.com/chrome/browser/deskto
	This is our recommendation, any other	<u>p/index.</u> ht <u>ml</u>
	supported browser is OK.	
SharpDevelop	Consultant tool for XML configuration	http://www.icsharpcode.net/OpenSource/SD/D
		ownload/
Winmerge	Consultant tool for diff configuration files	http://winmerge.org/downloads/
	during upgrades etc	
Astrogrep	Consultant tool for efficient file content search	http://sourceforge.net/projects/astrogrep/



## 3.5 Active Directory integration requirements

The Active Directory (AD) integration is used to keep the customer's local Active Directory users in sync with MediusFlow Cloud. The benefits are that the customer can import AD users and end users can log in with the AD user name and password.

The integration consists of two parts:

- User synchronization service
  - This service keeps the Mediusflow users in sync with the local Active Directory, this is provided by Medius
- ADFS (Active Directory Federation Services) installation provided and configured by the customer

To be able to use this feature there are some requirements that needs to be fulfilled on premise.

- On a Windows Server (This can be done on the integration server mentioned above.)
  - Being able to install a local Windows service to synchronize users with the MediusFlow cloud environment.

Depending on the security requirements on how to authenticate against the local ADFS server there are two options:

- Expose it on Internet
  - When exposing over Internet SSL/HTTPS should be used and a valid certificate is needed for the exposed host. This certificate is maintained and bought by the customer.
- Expose it internally
  - When exposing it internally end users need a VPN to company network to be able to log in to MediusFlow even though it's a Cloud service, or you need to be located within your company network.

#### 3.5.1 Server requirements for ADFS

Windows Server 2008 to 2012 uses ADFS 2.0. Read the full requirement specification from Microsoft here: <u>https://technet.microsoft.com/en-us/library/cc771145.aspx</u>

Windows server 2012 R2 and later uses ADFS 3.0. Read the full requirement specification from Microsoft here: <u>https://technet.microsoft.com/en-us/library/dn554247.aspx</u>