Technical requirements MediusFlow Cloud

This document describes technical requirements for end clients that uses MediusFlow Cloud and was last updated March 14th 2017.

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
- 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: http://gs.statcounter.com/

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 Medius Integration Client is a Windows application that can be installed on any server fulfilling the following requirements:

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
	   • For general security-related topics (e.g. IP addressed used by mediusflow.com) please refer to MediusFlow XI Cloud – Security whitepaper
	
	On premise
	   • Network communication between the Integration Server and the Mediusflow server
	   • Default port: 19308 (could be different in your project)
	
	Verify access on
	https://cloud.mediusflow.com:9085/mediusflowIBSQA/IntegrationMessageService
	
	   • You should get this picture in the web browser,

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:
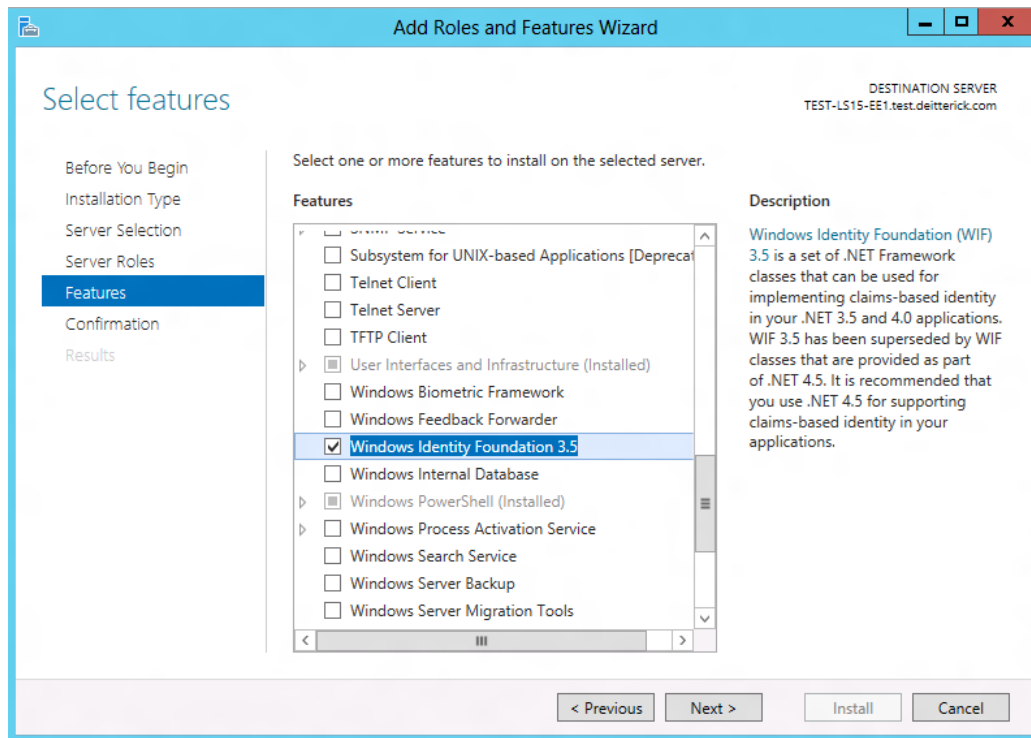
Binding	Connectivity mode	Port
WSHttp2007RelayBinding	HTTPS, outbound	9085

3.3 Windows Roles and Features

The Medius Integration Client is installed as a windows service application.

To be able to install the Medius Integration Client the server needs to have Windows Identity Foundation enabled.

- For Windows Server 2008R2, install from this link: http://www.microsoft.com/en-us/download/confirmation.aspx?id=17331

- For Windows Server 2012, install from "Add Roles and Features Wizard"

3.4 Software Installed

Software	Comment	Download
.NET Framework 4.5	To be able to run integration engine the Medius Integration Client	http://www.microsoft.com/en-us/download/details.aspx?id=30653
Powershell version 4.0 or later	Used during deployment of integration packages	http://social.technet.microsoft.com/wiki/contents/articles/21016.how-to-install-windows-powershell-4-0.aspx
Chrome	Preferred web browser for MediusFlow. This is our recommendation, any other supported browser is OK.	http://www.google.com/chrome/browser/desktop/index.html
SharpDevelop	Consultant tool for XML configuration	http://www.icsharpcode.net/OpenSource/SD/Download/

Winmerge	Consultant tool for diff configuration files during upgrades etc	http://winmerge.org/downloads/
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: https://technet.microsoft.com/en-us/library/cc771145.aspx

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

Windows Server 2008 supports ADFS 2.0, however the SSO features are incompatible with modern browsers. (it works with Firefox up to 3.5, Internet Explorer, but it does not work with Chrome). It is possible to use it, but users will need to enter their credentials for each login session.