

# Adeptia AS2 Setup Guide using JSCAPE

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### **DOCUMENT INFORMATION**

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### PREFACE

This document gives you detailed information about the integration of JSCAPE MFT Server AS2 application with Adeptia Suite.

#### **Pre-requisites**

- You should have Adeptia Suite Installed on the server/servers (in case of cluster).
- JSCAPE (version 9.0.2.112) will be installed on the Adeptia Servers as windows service with Log On as properties configured for Admin users.
- You should have the JSCAPE Server (9.0.2.112 version) installer, activation keys and certificates available.
- Make sure you have certificates from trading partners for AS2 server you want to connect.
- You should have database access credentials of Adeptia Log database to add new tables( if required)
- You should have "AdeptiaSuite\_6\_2\_12June\_2014" applied that includes the support of JSCAPE integrated B2B logs.

#### **Target Audience**

This document is intended for all users of Adeptia Suite, who wants to exchange EDI data through AS2 protocol using JSCAPE MFT Server tool and integrate it with Adeptia Suite.

#### Other resource materials

The following other resource materials are available:

Title	Description
Developer Guide	This document covers a detailed description of all activities and services of Adeptia Suite that are available to a developer. It acts as a guideline to use these services seamlessly and use them in a design environment using Adeptia Suite.

### HOW IS THIS GUIDE ORGANIZED?

This guide is organized into the following sections:

Section	Description
Preface	Introduction to this document
Introduction	Introduction to the JSCAPE Server
Install JSCAPE Server	Provides steps to install JSCAPE Server

Section				Description
Configure	JSCAPE	Server	to	Detailed step-wise description for setting up JSCAPE server
Communicate through AS2				and to be able to communicate through AS2 protocol

### **CONVENTIONS**

The following tables list the various conventions used in Adeptia documentation. We follow these conventions to help you quickly and easily identify particular elements, processes, and names that occur frequently in documents.

#### **Typographical conventions**

This guide uses the following typographical conventions:

Convention	Description
Italic Text	Indicates a reference or title of a publication.
Monospaced Text	Indicates code examples, syntax, or system messages.
Monospaced Bold Text	Indicates system commands that you enter.

#### **Graphical conventions**

This guide uses the following graphical conventions:

Convention	Description
0	Indicates additional information that may be of interest to the reader
	Indicates cautions that, if ignored, can result in damage to software or hardware

# **CONTACTS/REPORTING PROBLEMS**

These sections present contact information for a variety of situations.

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# Introduction

This document aims at providing detailed steps to install and configure JSCAPE MFT server and integrate it with Adeptia. JSCAPE MFT server supports the data exchange through AS2 protocol and facilitates the communication between different Trading Partners who want to exchange EDI files in a highly secured and efficient manner. AS2 protocol is operated over http(s) protocol and is a highly secure means of communication as it can encrypt and sign the files before sending. Adeptia has provided this functionality of AS2 communication with the help of third party vendor i.e. JSCAPE MFT Server. JSCAPE MFT Server would receive files from different trading partners and would place them on the local servers from where Adeptia would pick those files for further processing.

# **Steps to Install JSCAPE MFT Server**

To install JSCAPE MFT Server on a Windows platform perform the following:

- 1. Download JSCAPE on Server where Adeptia is installed ( in case of cluster select primary server)
- 2. Run the install.exe installation file for JSCAPE MFT Server.



- 3. Follow the steps in the installation wizard and complete the installation process.
- 4. If you are running any firewall software make sure that it is setup to allow JSCAPE MFT Server to run.
- 5. Start the JSCAPE MFT Server Service.
- 6. Launch JSCAPE MFT Server Manager to configure your server and login into the web GUI. See figure below.

JSCAPE MFT Server   Login	
Username* Adeptia Password	Login

# Configure JSCAPE MFT Server to communicate with other AS2 servers

AS2 communication between two servers requires certificates to be exchanged between servers if they are transferring encrypted and signed messages over AS2. This section will help you in enabling AS2 on JSCAPE MFT server.

### **CREATING DOMAIN IN JSCAPE SERVER**

- 1. Login into the JSCAPE MFT server Web Interface and it will ask you to create a domain.
- 2. You can also open the Server Manager manually and Go to Server > New Domain option. .(See Figure 1)

me Server -	Help	<ul> <li>Logout</li> </ul>											
over Domains	Network	nterfaces											
					Uploa	aded	Down	oaded		Quota			
Domain Name	State	Current Connection	Current Transfer	Total Conne	Bytes	Files	Bytes	Files	Uploads	Downloads	Transfers	Start Date	Stop Da

3. The "New domain wizard" is displayed. Follow the wizard to quickly create a new domain for AS2 protocol.(See Figure2)

Nev	w Domain (step 1 of 4	t)	
	Domain Name Setup domain na	me and description.	
	Name*	adeptiadomain	
	Description	Domain created for Adeptia.	
			<ul> <li>≺ Back Next &gt; Cancel</li> </ul>

#### Figure2: New Domain Creation Step 1



Name should be a unique name and should not have spaces for domain name. Make sure to choose the name carefully as it may not be changed once created.

4. After filling the requested information move to step2 of "New domain wizard" and select the AS2 service from the drop-down. (See Figure 3)

New Doma	in (step 2 of 4	l)	×
Don Setu	nain Service Ip domain serv	vice.	
Prot	ocol	AS2 V	
	e niira		
_			
		< Back Next> C	ancel

Figure3: New Domain Creation Step 2

5. In step3 select the value for "Store data to" as per your requirement to store the data related to user domain and account. (See Figure4)

Domain Datastor Setup domain dat	e Service astore service.	
Store data to	file per record	
Directory*	%installdir%/users/%domain%	Browse
Add Varia	able	

Figure4: New Domain creation step 3

0	File per record: Select this option to have separate files created to maintain the information for every domain.
	File: Select this option to have one single file will maintain the information for all domains.
	Database: Select this option to store information in database. The database scripts are available in/JSCAPE MFT Server/etc in your installation directory.

6. In step 4 select the value for "Log to" as per your requirement to store the logs related to JSCAPE server from the drop down.(See Figure 5)

Domain Log Ser Setup domain Io	vice g service.	
Log to	file	
Directory*	%installdir%/logs/%domain%	Browse
File rotat	ion  e daily	
	<ul> <li>monthly</li> </ul>	
	Ille size reaches 10	
Add Var	lable	

#### Figure5: New Domain Creation step 4

7. Now using JSCAPE MFT Server Manager you can select the domain and click the "Start" button located in the lower left of JSCAPE window to start the services.(See Figure6)

ver Domains	Network	terfaces											
					Uploa	ded	Downle	baded		Quota			
Linmain Name	State	Current Connection	Current Transfer	Total Conne	B)tes	Files	Bites	Files	Uploads	Downloads	Transfers	Start Date	
Containivanie													Stop Dat

Figure6: Start Domain Screen

# ENABLE AS2 SERVICES FOR JSCAPE SERVER

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to Server > Settings option. A new screen will open.(See Figure7)

Home	Server - Help -	Logout
	New Domain	
Server	Start Domains Stop Domains Pause Domains Resume Domains	ces
2	Key Manager	
	Settings	
	License type	
	License owner	
	License binding host	

Figure7: Server > Settings Screen

3. Select the Web option from the settings screen and select the "Web" tab.(See Figure8)

👼 Manager Service	Web	REST	AS2	Miscellaneous	Resources	Web D	Documen	tViewer
🎲 Domain Startup			R					
Web		LD OLIVIE					1000	
P JDBC Drivers		HTTP on	host n host	0.0.0.0		port	80 443	
🚖 Email								×.
😍 Failover	НТ	TPS						
🔊 Search Index	Pri	vate key	ex	ample_rsa 🛛 🗸				
🕰 JMX		HTTPS di SSL/TLS I	ent certifi renegotia	cate required tion allowed				

Figure8: Server Settings Web Screen

4. Check the check-boxes for the "HTTP on host" and "HTTPS on host" under Web Server section and configure the IP/hostname and port for them.(See Figure9)

🛃 Manager Service	Web	REST	AS2	Miscellaneous	Resources	Web	Documen	t Viewe
🚯 Domain Startup	w	B SERVE	R					
Web	-		59			_	-	
P JDBC Drivers	HTTP on host			192.168.1.1		~ por	8090	0
🕞 Email		) HTTPS o	n host	192.168.1.1		v por	9443	~
🏷 Failover	н	TPS						
🔊 Search Index	Pri	vate key	e	ample_rsa 🗸 🗸				
🕰 JMX		HTTPS di	ent certifi	cate required				

Figure9: Server Settings Web Server Enabled



*Please ensure that the port provided above should match with the Adeptia Server port if running on same the machine* 

5. Select AS2 tab on the same screen and check the "Enable AS2" check-box. Provide the Upload directory for the AS2 messages. This directory is relative to users root directory where AS2 message data will be stored under installation directory. (See Figure 10)

Vanager Service	Web	REST	A\$2	Hiscellaneous	Resources	Web Document Viewer
Domain Startup	R Er	able AS2				
Web	- 14	ESSAGES				
JDBC Drivers		Decryptor	Hey	examp	ole rea 👽	
Email	0	Receipt si	gning key	examp	ne_rsa 💌	
Colour.	R	eceipt signa	ture algor	ithm SHA1	with RSA 👻	
ratover	8	Encryptor	required			
Search Index	0	Signature	required			
JMC		Allow mea	sages vi	thout filename		
		Overaria	existing fil	es when found	-	
	8	Bindura	ther/tocate	d transfers to user	adeptiouser	under comain adeptiadomain
	0	icad orec	ORA.	/as2		
	~	and a state of the				
						A

Figure10: Server Settings AS2 Enabled

6. Provide the other details as per your requirement.

7. Click OK button at the bottom to save and apply the changes.



Enable the "Bind unauthenticated transfers to user \_\_\_\_\_ under domain \_\_\_\_\_" property and provide the any user and domain name in this to be able to receive files from other AS2 applications that do not provide username and password authentication for AS2 file transfer.

# **CREATING A USER PROFILE FOR THE DOMAIN**

A user is a valid account that may be used to login to a domain's service. To create users follow below steps:

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to "Domains" tab and select the domain created.
- 3. After selecting the domain click on the "Edit" button at the bottom. This will open a new window.
- 4. Select the "Users" option from the left pane.
- 5. Click on "Add" button at the bottom to add a new user for the domain.(See Figure11)

Domain "adeptiadomain"	(running)									
I Datastore	Users	Templates								ľ
🔊 Time Access	·									
🗟 Banned Files	N	ame		Login	Owner	Company			Administrator	1
Compliance										
🕫 IP Access										
() DLP										
© Connections										
🦌 Triggers										
S Authentication										
& Users										
55 Groups	l r	10 • 14 4	Page 1 of 1 > >	0						
Reverse Provies								Displa	ing 0 to 0 of 0 items	
😡 Directory Monitors										-
🎒 Drop Zones	6	Iser Record					Add	dl Coor	Quotas Delete	al
URL Branding		and the form					r	an (Conh)	arows Derew	4.

Figure11: User Module Screen

6. It will ask for the template to create the user. Select the default template. (See Figure 12)

User Templa Specify new	ate user template.		
Template	Default	~	

Figure 12: Default Template for User Creation

7. In the Info section of the "Add User" screen provide the details like – name, login name, password etc. for the user profile.(See Figure 13)

pecify new user param	eters.				
nfo Paths Quo	tas IP Access	Domain Administration	Web	1	
LIGER					
Name	a da ati a una a				
Login	adeptiauser				
Password	adeptiauser				
Re-type password					
Email					
Company					
Phone					
Groups					
					·
SETTINGS					
Coshlad					
Enable ad-boc e	-mail transfers				
Owner		~			
Expires on	07/08/2014				
		- A.			

Figure13: User Credentials for User Creation

8. Now go to the Paths tab and click on Add button if not already present or you can edit the existing one. (See Figure14)

y user parameters.				
Paths Quot	IP Access	Domain Administration	Web	
Path	Real P	ath/Reverse Proxy		Permissions
Up Down				Add Edit Delete
	Paths Quot: Path	Paths Quotas IP Access Path Real P Up Down	Paths     Quotas     IP Access     Domain Administration       Path     Real Path/Reverse Proxy	Paths     Quotas     IP Access     Domain Administration     Web       Path     Real Path/Reverse Proxy

Figure14: Path Settings for User

Provide the UNC path in the 'Real Path' field. UNC path is the network path to the shared drive where you want to store the files received through the AS2 file transfer and click on OK. Like - <u>\ServerNameorIP\SharedFolderName</u>. This will result in the creation on upload directory or JSCAPE at the specified network location. (See Figure15)

Virtual path Setup virtua	l path parameters.		
Path*	/		
Real path	\\Server\SharedPath	Browse	
Reverse p	roxy*		
Create dire	ectory if not found		
Include in	search index		
PGP encry	pt uploads		Settings
Enable DL	P		Settings.
Secured			
Denied			
Permission	s		
Add Variable			

Figure15: Add Virtual Path Screen



To have the UNC path be recognized by the JSCAPE server you need to have certain settings done for the windows service of the JSCAPE. For more detail you can refer to *Configuring JSCAPE service* 

10. Click on the OK button at the bottom to save and apply the changes. (See Figure 16)

Domain "adeptiadomain"	(runnin)	)						
1) Datastore	Users	Templates						
🔊 Time Access	_							
Banned Files	1	lame		Login	Owner	Company	Admir	ristrator
2 Compliance	1	deptauser		adeptiauser				
🗐 IP Access								
1) DLP								
Q Connections								
🍗 Triggers								
S Authentication								
🔒 Users								
S Groups	ſ	10 1 16 16	Page 1 of 1	0 8				_
🗞 Reverse Proxies							Displaying 1 to	1 of 1 items
😡 Directory Monitors								
🏮 Diop Zones		Una Press					 Ourier	Public
URL Branding		User Napot			 		copy Codas	Lieiete

Figure16: User Created for Domain

# **Setup JSCAPE Failover server**

JSCAPE MFT Server can be configured to synchronize all configuration changes to a failover server. The purpose of a failover server is that in the event the production server goes down the failover server can quickly take over the duties of the production server.

# PRE-REQUISITE

• You can install JSCAPE Failover Server on the secondary cluster node of Adeptia suite.



We always recommend installing JSCAPE on Independent Server to have better performance. If you are not using Adeptia Cluster try setting up JSCAPE failover server on independent server on the same network.

- The failover JSCAPE MFT Server should have same version as that of your primary server.
- To configure the JSCAPE Server for failover follow the same installation steps followed to install and configure your primary server.
- The JSCAPE installed on the failover server is running.

# **STEPS TO DEFINE FAILOVER SERVER**

Failover server will be defined on your JSCAPE Primary server. Please follow below steps:

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to Server > Settings option. A New screen will show-up.(See Figure 17)

Home	Server -	Help 👻	Logout			
	New Dom	nain				
Server	Start Dom Stop Dom Pause Do Resume	ices				
-	Key Mana	iger				
	Settings					
I	License type					
1	License owner					
	icense bindin	nhost				

Figure17: Server > Settings Option

3. In the New Screen go to "Failover" module.(See Figure18)

Home Server	▪ Help ▪ Li	gout		
👸 Manager Service	Failover IP Subs	ihiion		
🚯 Domain Startup	-FALOVER SER	FR		
🜒 Web	Host/P*	192 168 1 2		
🖉 JDBC Drivers	Pot	10880		
🖻 Email	Timeout (sec)	10 🗘		
👌 Failover	Password*	adeptia		
🖓 Search Index				
a nix	🖉 Stat domainiser	ices after synchronization		
	🗹 Enable automati	failover sener synchronization		
				Sin

#### Figure18: Failover Module Settings

- 4. Provide the IP/Hostname, Port, username and other credentials of the secondary server to be used as Failover.
- 5. Click on the "Synchronize State" button at bottom of window if you are synchronizing the configurations of Primary and Secondary server for the first time. Also, you can perform this whenever you want to manually synchronize the data between the servers.
- 6. You can check the Enable automatic failover synchronization check-box after that for synchronizing any configuration change on the Primary server with the secondary server in real-time.

- 7. You can check the Start domain/Services after synchronization check-box to start the domain services on the Secondary server after the synchronization is performed because at the time of synchronization domain services are stopped at the secondary server.
- 8. Now go to the IP Substitution tab and provide the IP of the Primary server in the IP field and IP of the Failover server in the Substitution IP field. (See Figure 19)

IP Substitution	Marking and	
Specity IP subs	atution.	
IP	192.168.1.1	
Substitution IP	192.168.1.2	

Figure19: IP Substitution Screen



You can also setup your Primary and failover JSCAPE MFT servers in Cluster for Load Balancing and proxy management. For more on Cluster setup refer to Appendix-ConfigureJSCAPECluster

# **Configure Trading Partner Accounts**

In JSCAPE you will have to create Trading Partner profiles to communicate with the clients for data exchange. Follow the below steps to create Trading Partner.

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to "Domains" tab and select the domain created in above steps.
- 3. After selecting the domain click on the "Edit" button at the bottom.
- 4. Select the "Trading Partners" options from the left pane of the window. Click on the "Add" button to add a new Trading Partner.(See Figure 20)

Home Server	• Help • Logaut				
Domain "adeptiadomain"	(running)				
Barneo Files	Trading Partners				
Compliance					
📴 IP Access	Name 🔺	Company	Protocol	Server	
U) DLP					
Connections					
Managers 🖌					
Authentication					
& Users					
🕵 Groups					
Reverse Provies					
😡 Directory Monitors					
🎒 Drop Zones					
<b>O</b> URL Branding					
Trading Partners					Add
Contacts					

Figure20: Trading Partner Pane for Domain

5. A new "Add Trading Partners" screen will show up and select the desired communication protocol. (See Figure 21)

dd Trading Part	ner	
Add Trading Specify new	Partner trading partner protocol.	
Protocol	AS2 🗸	
	AFTP	
	AS2	OK Cancel
	FTP	
	FTPS implicit	
	FTPS explicit	
	SFTP/SCP	
	WebDAV	

Figure 21: Trading Partner Protocol Selection Screen

6. Provide the name and other details for the Trading Partner. (See Figure 22)

dd Tradina Dartor		
specify trading parts	ter parameters.	
BASIC		
Name*	M. Trading Partner	
Company	My tracing- anner	
E-mail		
CONNECTION		
1101 +		
Timoout	http[s]://hostname:port/as2/incoming	
Lisemame	30 Sec	
Paceword	UserLoginName@DomainName	
r asswurd		
0.01		
aar		
Host key	~	
Client Key	1	
	6.	
		Test Ser

Figure 22: Trading Partner Configuration Screen

7. Then scroll down on the screen and provide all the remaining parameters to configure the partner. (See Figure23)

Specify trading partner par	rameters.	
-	vacir.oginitaninggovinanintaning	
Password .		
SSL		
- and and a state of the state		
Host key	~	
Client Key		
Contraction		
MESSAGE		
From ID*	LocalUserName	
To ID*	TradingPartnerAS2Identifier	
Receipt	synchronous	
Receipt timeout	5 🗘 min	
Encryption key	~	
Francisking strendth of	3DES-CBC 🗸	
Encryption algorithm		
Elicryption algorithm	example_rsa 🗸 🗸	

Figure23: Trading Partner Server Screen

<b>URL</b> : provide the URL for communicating to the partner over AS2 protocol.
Username: username of the partner. Ex. user@domain
Password: password provided by the trading partner for its user.
From ID: provide your JSCAPE username.
<b>To ID:</b> provide the username of the trading partner.
Encryption key: select the certificate provided by client from the Host key if you wish to
send encrypted messages to your trading partner.
Signing key: select your signing key from the server key if you want to sign the
outbound messages for that trading partner.

8. Click on the "Test Server" button at the left bottom if you wish to verify trading partner details. After that click on OK button to apply the changes. (See Figure 24)

Banned Files	Trading Partners			
Compliance				
🕫 IP Access	Name •	Company	Profecol	Server
U DLP	NyTradingPather		AS2	http://192.158.1.1.8090/as2/incoming
() Connections				
🍗 Triggers				
D Authentication				
🔓 Users				
S Groups				
🖏 Reverse Praxies				
🕼 Directory Monitors				
👙 Drop Zones				
URL Branding				
Trading Partners				Add Edit Test Delete
@ Contacts				

Figure24: Trading Partner Created

# **Configure JSCAPE with Adeptia**

JSCAPE stores all incoming AS2 messages (files) in the "Upload directory" provided in the Server > Settings > Web > AS2 Directory field.

Adeptia will read the files received through JSCAPE for further processing or information retrieval. To enable Adeptia picking the files below configuration steps are required to be followed on both JSCAPE and Adeptia Server.

# **CONFIGURATIONS FOR JSCAPE**

- Create Trigger in JSCAPE to run a batch file that will invoke a utility to rename and move the file.
- Bind the Trigger with SQL Query Action to log the incoming messages in Adeptia Log Database.

A

# 0

A single Trigger with "File Upload" option selected as Event type can be created to pick the files from all the Trading partners and performing above stated actions on them. A single trigger can have multiple actions defined which can be performed on the priority basis.

For Batch file you can contact Adeptia Support as they will provide a utility having the batch file and instructions to deploy.

#### Create Trigger in JSCAPE to run a Batch file to rename file with unique identifier

Follow the below steps to call a batch for renaming the file with unique identifier for Adeptia.

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to "Domains" tab and select the domain.
- 3. After selecting the domain click on the "Edit" button at the bottom.
- 4. Select the "Triggers" option from the left pane.
- 5. Click on "Add" button and then provide the Trigger Name and Description for the trigger. (See Figure 25)

Domain "adeptiadomain"	(running)												
() Logging	Triggers	Recent	Settings	Actions	Functions								
🗽 Reports	·												
🖏 AS2 Nessages	Name	e		Event Type		 Enabled		Condition		Actions			
Datastore													
🔊 Time Access													
🗟 Barned Files													
Compliance													
📁 IP Access													
U) DLP													
Connections													
🍗 Triggers													
S Authentication													
🔓 Users													
S Groups	Up	Down							Add	Edit	Copy Ru	n Dele	10
🛃 Reverse Provies													

Figure25: Add Trigger Screen

6. Select the Event Type as "File Upload" and click on 'Next' button to define the Trigger Condition. (See Figure 26)

frigger (step 1 of	3)	
Add Trigger Specify trigger	parameters.	
Name*	TriggerAtFileUpload	
Event type	File Upload 🗸 🗸 😮	
Description	Trigger to look for the Files Uploaded to your server.	
🔲 Ignore trigge	r events while domain is stopped	
Enabled		
Run asynchr	onous	
🗷 Fire Trigger 8	Fror event if an error occurs	
	< Back Next >	Car

Figure26: Add Trigger Screen

7. Move to Trigger Action window and select the Action as "Run Process" and click on OK.(See Figure 27)

Specify	dd Action		8
	Add Action Select action	n type.	
	Action	Run Process	<b>e</b>
			OK Cancel
Up	Down		Add Edit Delete

Figure 27: Run Process Trigger Action

8. Provide the Absolute File Path and file name in the "Program" field for your batch file. Define the space separated arguments in the "Arguments" field; you can use pre-defined variables also. Provide the name and path for creating output and error stream for the batch execution. (See Figure 28)

Parameters Advance	d	
Program*	C:\PathToPatch\Batch.bat	Browse
Arguments	%LocalPath% argument2	0
Success Return Value*	0	8
Output Stream*	C:\Output.log	Browse 😵
Error Stream*	C:\Error.log	Browse 🔮

Figure28: Run Process Trigger Credentials

You can make use of the pre-defined variables for getting the path and file name of the uploaded file to be renamed by clicking on the "Add Variable" button. You can make of pre-defined functions in JSCAPE by clicking on the "Add Function" button as per your requirements Refer below to configure the Run Process Trigger Action <u>Running Batch script to rename file incoming file in jscape</u>

9. Click OK to save and click 'Apply' to apply the changes.

#### Bind the Trigger with SQL Query Action to log the incoming messages in Adeptia Log Database

AS2 message information is needed to record in Adeptia Log database for further integration and processing.

#### Steps to be followed to Insert Data in SQL Table:

1. Access Adeptia Log database and ensure it has the table with name "AU\_AS2Logs". Please create the table if it is not available.



Refer to the Appendix for SQL Queries and Instructions to apply: <u>SQL Query to log data into log table</u>

- 2. Login into the JSCAPE MFT server Web Interface.
- 3. Go to "Domains" tab and select the domain.
- 4. After selecting the domain click on the "Edit" button at the bottom.
- 5. Select the "Triggers" option from the left pane. (See Figure 29)

Domain "adeptiadomain"	(paning)				
() Logging	Triggers Recent Settings	Actions Functions			
a Reports					
Ny AS2 Messages	Name	Event Type	Enabled	Condition	Actions
Datastore	TriggerAtFileUpload	File Upload	true		Rename File
👷 Time Access					
👰 Banned Files					
Compliance					
P Access					
() DLP	]				
Q Connections					
🍖 Triggers					
🗊 Authentication					
👌 Users	]   -				
🗱 Groups	Up Dawn				Add Edt Cooy Run Delete
🛃 Reverse Provies					

#### Figure29: Trigger Pane

- 6. Select the same trigger that was created for Run Process Action and click on "Edit" button.
- 7. Edit Trigger screen would be displayed. Click on 'Next' button to define the Trigger Condition.(See Figure 30)

Specify trigger	r parameters.
Event type	File Upload 🗸 😨
Description	Trigger to look for the Files Uploaded to your server.
🔲 Ignore trigge	r events while domain is stopped
Enabled	
Run asynchr	onous
Fire Trigger 8	Error event if an error occurs

Figure30: Edit Trigger Screen

8. After that define the Trigger Action as "SQL Query" and click on OK to define the SQL Credentials. (See Figure 31)

Spec Ad	Id Action		
Renan	Add Action Select action	n type.	
	Action	Sql Query	<b>V</b> @
			OK Cancel
Up	Down		Add Edit Delete

Figure 31: Selecting SQL Query in Action

9. Provide the jdbc credentials in the respective fields and type in your SQL query that you want to execute through the trigger. You can also use the "Add Variable" option to insert AS2 message data into the table dynamically by making use of the pre-built variables provided by JSCAPE Server. (See Figure 32)



arameters	Advanced			
Jdbc Url*		jdbc.mysql://hostname:port/DatabaseName	0	
Username*		Username	0	
assword			V	

Figure 32: SQL Query credentials screen

- 10. Click Ok to finish.
- 11. Select the above created event and click on "Apply" button at the bottom to apply the new changes.

### **CONFIGURATIONS FOR ADEPTIA**

• Create a file event in Adeptia to read files from the common network location for further processing. This file event can be used in Adeptia flows or B2B to read the files.

# Steps to create a file event in Adeptia to read files from the common network location for further processing

- 1. Login into Adeptia Server
- 2. Go to Develop > Events > File Event
- 3. Click on Create New option to create a File Event
- 4. Select trigger type as On File Created
- 5. Provide the common folder locations (used in batch file) under File Base Location.
- 6. In file include criteria provide the filename or any wildcard operators like-(\*.\*)
- 7. Bind the event with the process that will use the AS2 files
- 8. Activate the event



You can refer to Developer Guide section of Adeptia Suite for more information on Event Creation.

# **Receiving AS2 messages**

To receive AS2 messages in JSCAPE MFT Server the sender may require from you a number of parameters. These parameters are as below:

# **REQUIRED PARAMETERS FOR AS2 FILE RECEIVE**

#### URL

#### http[s]://hostname:[port]/as2/incoming/

Where hostname is the hostname or IP address and port is the port as set in Server > Settings > Web panel of JSCAPE MFT Server Manager Ex.https://192.168.1.1:443/as2/incoming/

#### Username

#### username@domain

Where username is the user Login name as provided during User creation and domain is the JSCAPE MFT Server domain to which the user belongs. Ex.test@localhost

#### Password

The password for the specified user name. Ex.password

Note: AS2 message data will be stored in the directory with name provided in the "Upload directory" field as provided in the Server > Settings > Web > AS2 Directory field. This Upload Directory will be created on the location defined in the Real Path field of the User created in the JSCAPE MFT server.

# Sending AS2 messages

You can send files to the trading partner both manually as well as automatically by using Triggers.



If the incoming messages are encrypted using your public key then you can select key to decrypt the messages from decryption key drop down in Server>Setting>Web>AS2.

#### Sending an AS2 message manually

To send an AS2 message manually you can go to the AS2 Messages module for your domain and click the "Send File" button. You will be prompted for the AS2 trading partner and the file to send. (See Figure 33)

👸 Salistos	AS2 Illessages
& Description	
A Ser/ces	Date A Uber Trading Pather Type Message D Filename XS2 From XS2 To WDN Status
(i) Logging	Send AS2 File
🚹 Reports	Send AS2File
AS2 Messages	specy raang panet ano te.
🗐 Datastore	Tradingpather WittadingPather V
🔮 Time Access	rve 🔼 Boxes
Banned Files	OK Carol
& Compliance	
📴 IP Access	
1 OLP	
() Connections	
🍆 Triggers	Refresh Send File View Resend Dokte
El éstherération	

Figure33: Manually Send Files

#### Sending an AS2 message automatically

You can send an AS2 message automatically in response to configured events using the Triggers and the Trading Partner File Upload or Trading Partner Regex File Upload actions. The basic steps that you need to perform are to create a Trigger with "Current Time" as Event Type and select a specific partner to send files. Follow the below steps to automatically send files to trading partners when files are placed in specified folders.

#### **CREATING TRIGGER TO SEND FILES AUTOMATICALLY**

1. Login into the JSCAPE MFT server Web Interface.

- 2. Go to "Domains" tab and select the domain created in above steps.
- 3. After selecting the domain click on the "Edit" button at the bottom.
- 4. Select the Directory Tab and click on Add button to add a new one. (See Figure 34)

Domain "adeptiadomain" (	(grinnun)			•			
D Banneo Hies	Directory Monitors Set	ings					
Compliance		20-01 D					
P Access	Name •	Directory	Interval	Quota	Owner	Events	Recursive
() DLP							
Connections							
🀚 Triggers							
🗊 Authentication							
🛔 Users							
🗱 Groups							
🖏 Reverse Provies							
🚺 Directory Nonitors							
🁙 Drop Zones							
URL Branding							
Trading Partners	Datash					444 5.4	Dun Delate
@ Contacts	(Valeas)						Ton Lenge

#### Figure34: Directory Monitor Screen

5. Provide the name and the UNC path of the network location from where you want to pick the file to transfer. (See Figure 35)

Setup directory mon	itor nitor parameters.	
BASIC		
Name*	DirectoryMonitor	
Directory*	\\Server\SharedPath	Browse
Monitor reci	ursively	
SETTINGS		
Monitor inte	nval 600 🛟 sec	
Latency per	iod 5 🗘 sec	
Owner	adeptiauser 💙	
🔲 Enable quo	ta 100 🗘 MB	
EVENTS		
<ul> <li>Monitor file</li> </ul>	add	
🔲 Monitor file	change	
Monitor file	delete	
File exceed	s age of 10 🛟 days	

Figure35: Directory Monitor Settings

6. Now go to the "Triggers" option from the left pane. (See Figure 36)

Domain "adeptiadomain"	(running)													
(i) Logging	Triggers	Recent	Settings	Actions	Functions									
🚹 Reports														
₽ <sub>0</sub> AS2 Messages	Nam			Event Type		E	nabled	C	andition		Action	15		
🔋 Datastore														
🔗 Time Access														
Barned Files														
Compliance														
📁 IP Access														
() DLP														
Connections														
🍗 Triggers														
D Authentication														
🔒 Users														
S Groups	Un	Dava								0	144 E.4	t Carry	Rin	Dalata
te Reverse Proxies	- op									Ľ	-	0.00		Louis Vil

Figure36: Triggers Pane for Domain

- 7. Click on the "Add" button to add a new Trigger.
- 8. Provide the name in the Name field and then select the Event type from the EVENT TYPE drop-down as "Directory Monitor File Added". (See Figure 37)

Add Trigger Specify trigger	r parameters.	
Name*	TriggerToSendFilesAutomatically	
Event type	Directory Monitor File Added 🛛 🗸 😵	
Description	Trigger to Monitor directories for files and to send them	
🔲 Ignore trigge	r events while domain is stopped	
Enabled		
Run asynchr	ronous	
Fire Trigger I	Error event if an error occurs	

Figure37: Triggers Creation Step1

- 9. Click on Next button and then configure the Trigger Condition if you have a need to run the action associated with the Trigger to execute only after the Trigger condition gets satisfied.
- 10. Proceed next to add a Trigger Action that could to be performed on the occurrence of the event. Click on the "Add" button at bottom and select an appropriate action from the Add Action screen. You can select "Trading Partner Regex File Upload" option and click on OK to configure details regarding this action. (See Figure 38)

Specify	tridder actions. Add Action		
	Add Action Select action	n type.	
	Action	Trading Partner Regex File Upload	K Cancel
	Down	R.	dd Edit Delete

Figure38: Triggers Creation Step3

- 11. Select the Trading Partner to send file from the "Partner" drop-down on the "Add Trading Partner Regex File Upload Action" screen.
- 12. Browse the Local directory from where you want to send the files to the Partner. Also, configure the Regular expression that will be used to filter out files from the list of files to be sent to the Trading partner. (See Figure 39)

should assess hereistere	8.		
Parameters Advance	ced		
Partner	M/TradingPartner	~	
Local Directory	\\Server\SharedPath		Browse
Regular Expression	**		
Expression Type	Wildcard	~	
Remote Directory	C:/		
Passive			
Transfer Mode	binary	~	
Perform Checksum	1		
E Fail If No Files Four	nd		
Delete On Success			

Figure 39: Triggers Action Creation



Partner: Select the Trading partner to send file

Local Directory: Directory path from where the files should be picked for data exchange Regular Expression: Files matching the expression would be picked for transfer Remote Directory: Directory path where the files would be stored on trading partner or client machine

13. Configure other parameters as per requirement and click on OK button to save and apply changes. (See Figure 40)

igger (step 3 of 3)	
Trigger Actions Specify trigger actions.	
Action	Description
Trading Partner Regex File Upload	Uploads a file list to trading partner server which matches with the regul
Up Down	Add Edit Delete

Figure 40: Triggers Action Created

14. After this you can see the newly created event in the Triggers Screen for your domain. Select the trigger and click on the "Apply" button at the bottom to save and apply the changes.

#### Resending an AS2 message

You can manually resend an AS2 message. For this select the "AS2 Messages" from the left pane of your domain services. Browse for the desired message from the AS2 Messages module and click the "Resend" button. (See Figure 41)

🗟 Salistica	AS2 Messages								
& Description									
	Date +	User Trading Partner	Tjpe	Message ID	Filenama	AS2 From	AS2 To	NEN	Status
() Logging	12.19.44.07-10-2014	NyTradingPartner	request	40003372921	180 consumernew.tet	LocalServerNam	e TradingPartner4S2ide	sync	talled
h Reports		Resend AS2 Message				8			
🖏 AS2 Messages		Resend AS2 mess	age.						
) Datastore		400193872921186987313	7824647717519	295330@61059432	39028521327.677002928	8194286214>'?			
🔊 Time Access			K	Ok Cano					
Banned Files			-						
Compliance									
📁 P Access						~			
(∦ CLP							1		
() Connections								~	
🐂 Triggers	Refresh Serd File	D					We	Reser	d Delete



#### Viewing AS2 messages

A history of all AS2 messages sent and received for a domain is maintained under "AS2 Messages" module in JSCAPE MFT Server Manager. You can select any message there and view its details.

# **Configure JSCAPE Server Backup**

It is always advised able to take backup of your applications as in case of any disaster we can redeploy the backups and start are applications without much loss of time. You can also define Triggers in JSCAPE to automatically take backups of your server at regular intervals.

#### Steps to setup Automatic Backup

You can follow below steps to configure automatic backup.

- 1. Login into the JSCAPE MFT server Web Interface.
- 2. Go to "Domains" tab and select the domain.
- 3. After selecting the domain click on the "Edit" button at the bottom.
- 4. Select the "Triggers" option from the left pane.
- 5. Click on "Add" button and then provide the Trigger Name and Description for the trigger.
- 6. Select the Event Type as "Current Time" and click on 'Next' button to define the Trigger Condition. (See Figure 42)

Specify trigger	r parameters.	
Name*	TriggerToTakeBackUpOfJscape	
Event type	Current Time 🗸 😵	
Description	Trigger to Take Automatic BackUp of JSCAPE Configurations	
Ignore trigge	er events while domain is stopped	
Enabled		
Run asynchr	ronous	
Fire Trigger I	Error event if an error occurs	

Figure42: Current Time Event Action

7. In the Trigger Condition define the time conditions when you want to perform the backup. Ex. Below image shows condition to run back-up on every Monday at 8 PM in evening. (See Figure 43)

Trigger Conditions. Enter optional trigger conditions. Trigger conditions are defined as a logical expression used to filter events based on event properties. Example: (Hour = 5 AND Minute = 0) OR (Hour = 22 AND Minute = 30) Expression	Trigger (step 2 of	0		
Expression	Trigger Cond Enter optiona a logical expr Example: (Ho	ions. trigger conditions. Trigger conditions are define ssion used to filter events based on event prop r = 5 AND Minute = 0) OR (Hour = 22 AND Minu	ed as erbes. te = 30)	
	Expression 😵			
(Hour = 20) AND (Minute = 0) AND (DayOfWeek = 1)	(Hour = 20	AND (Minute = 0) AND (DayOfWeek	= 1)	
A				
Variables Functions Constants Operators AND OR	Variables	Functions Constants	Operators	AND OR
Time Expression Test Expression	Time Express	on	Ţ	estExpression
Rack Next> Cancel			< Back	Next > Cancel

Figure43: Trigger Condition Screen

8. Click on Next and select the Trigger Action as "System Configuration Backup" and click on OK. (See Figure 44)

A	dd Action	
	Add Action Select actio	on type.
	Action	System Configuration Backup
		OK Cancel
-	Dawn	

Figure 44: System Configuration Trigger Action

9. Populate the required parameters and click on OK. (See Figure 45)

Parameters Advance	ed		
Destination Directory*	C:\BackUps	Browse	0
Server Directory*	C:\Program Files\JSCAPE MFT Server	Browse	0

Figure45: System Configuration Backup credentials screen

- 10. Click OK to finish and click "Apply" to apply the changes.
- 11. Select the trigger and click Run to verify that the backup archive is created successfully.

# Appendix

# **CONFIGURE JSCAPE IN CLUSTER FOR LOAD BALANCING**

We can establish two JSCAPE MFT Servers in cluster to perform load balancing for the incoming data traffic. Load balanced servers help us to achieve high availability for your critical file transfers. To setup JSCAPE MFT servers in cluster you need to install and configure the JSCAPE MFT Gateway application. Below section explains the steps to install and configure JSCAPE MFT Gateway to setup cluster.

#### **Pre-requisite**

- Two JSCAPE MFT Servers installed and configured as Failover that should have the same configurations, i.e. same users, same services, etc.
- A machine equipped with two NICs. One NIC on your machine should connect to the network containing your JSCAPE MFT servers, while the other NIC should connect to the network containing your client(s) i.e. Internet and should have static IP. The machine should be a different server other than the machines on which JSCAPE Failover is setup.

#### Step to Install JSCAPE MFT Gateway

To install JSCAPE MFT Gateway on a Windows platform perform the following:

- 1. Download JSCAPE Gateway on a different server other than JSCAPE Failover setup.
- 2. Run the install.exe installation file for JSCAPE MFT Server.



You can download JSCAPE MFT Gateway from <u>http://www.jscape.com</u>. The direct link to download JSCAPE MFT Gateway is <u>http://www.jscape.com/downloads/jscape-reverse-proxy</u>

3. Follow the steps in the installation wizard and complete the installation process. (See Figure 46)

Specify server manag	ement connection settings.	
Host/IP*	0.0.0.0	· •
Port	20880 ≑	
Timeout (sec)	30 🚔	
Administrator login		
Administrator passwo	rd	
Confirm password		
HTTP host/IP*	0.0.0	+
HTTP port	20881 🚔	

Figure46: Installation Wizard Screen

 Host/IP: Provide the hostname or IP of the machine to install the JSCAPE Gateway Port: By default JSCAPE Gateway service runs on 20880 port but you can also change it. Administrator login: Provide the login name to run the JSCAPE Gateway service as administrator.
 Administrator password: Provide the password for administrator HTTP host/IP: Provide the hostname or IP of the machine where you are installing JSCAPE Gateway to access Gateway application over HTTP. HTTP Port: Provide the port on which you want to access the Gateway application through your browser over HTTP. By default it is 20881.

- 4. If you are running any firewall software make sure that it is setup to allow JSCAPE MFT Gateway to run.
- 5. Start the JSCAPE MFT Gateway Service.
- 6. Launch JSCAPE MFT Gateway and it will ask you for the credentials to login into the Gateway Desktop manager. (See Figure 47)

Connection Settings
Management connection settings Specify management connection parameters.
Host*
Port 20880 🜩
Timeout 30 🗬 sec
Username*
Password*
<u>O</u> K <u>C</u> ancel

Figure 47: JSCAPE MFT Gateway Login Screen

Host/IP: Provide the hostname or IP configured during installation of JSCAPE Gateway.
Port: Provide the port configured during installation of JSCAPE Gateway.
Username: Provide the administrator login name configured during installation of JSCAPE Gateway.
Password: Provide the administrator password configured during installation of JSCAPE Gateway.

#### Adding a Cluster in JSCAPE MFT Gateway

i

To configure a cluster in JSCAPE MFT Gateway follow the below steps:

- 1. Run the Gateway Desktop manager application.
- 2. Go to "Clusters" option displayed on the left pane. (See Figure 48)

#### JSCAPE MFT Server Integration Guide

<i>2</i> .	JSC	CAPE MFT Gateway	<b>Z</b> 2	×
<u>File H</u> elp				
Server	Clusters			
Logging	Name	Protocol	Hosts	
P Access Clusters				
			Aga Ean Delete	
-				_
Connected				

Figure 48: JSCAPE MFT Gateway Screen

3. Click on 'Add' button to add a new cluster. A new window would pop-up.(See Figure 49)

	Add cluster	×
Cluster Specify cluster param	eters.	
Name*	AS2_Cluster	
Protocol	HTTP	
IP binding time to live	60 🖨 min	
Host	Port	Status
Up Down	Add	Edit Delete
		<u>QK</u> <u>Cancel</u>

Figure49: Add Cluster Screen

#### Adeptia AS2 Setup Guide using JSCAPE

4. Provide the name for your cluster and select the protocol as "HTTP". Now click on "Add" button on bottom of "Add Cluster" screen to add hosts/nodes to your cluster. A new 'Add Host' would open up.(See Figure 50)

Add host	×
Server host Specify server host connection parameters.	-10
Host* 192.168.1.1	ן
Port 80	
Timeout 30 💭 sec	
🗹 Enabled	
<u>O</u> K <u>C</u> ancel	]

Figure 50: Add Host Window



Host: Provide the hostname or IP of the Primary JSCAPE MFT Server.
Port: Provide the port on which HTTP services are running on Primary JSCAPE MFT server.
Note: 192.168.1.1 is given for demonstrative purpose only, your Primary JSCAPE MFT Server may have been configured on some other host or IP.

5. Click on Ok to add the first host to the cluster. Now again repeat step 4 to add second host (JSCAPE MFT Failover server) to your cluster. (See Figure 51)

Converb	Add host t
Specify s	erver host connection parameters.
Host*	192.168.1.2
Port	80
Timeout	30 - sec
🗹 Enab	led

Figure 51: Add Host Screen



*Note: 192.168.1.2 is given for demonstrative purpose only, your Failover JSCAPE MFT Server may have been configured on some other host or IP.* 

i.

6. Click on OK button after configuring the failover node in the cluster. Now you would see both the host under the Add Cluster screen.(See Figure 52)

	Add cluster		×
Cluster Specify cluster paramete	rs.		
Name*	S2_Cluster		
Protocol	60 🖨 min		
Host	Port	Status	
192.168.1.1	80	enabled	_
Up Down	A		te
		<u>O</u> K <u>C</u> and	el

Figure 52: Add Cluster Screen with configured Hosts

7. Click on OK to create the cluster. You could now see your cluster created on JSCAPE Gateway Manager Screen.(See Figure53)

*		JSCAPE MFT Gateway		¥ 7 X
Eile Help				
Server	Clusters			
Logging	Name	Protocol	Hosts	
😅 IP Access	AS2_Cluster	HTTP	192.168.1.1:80 192.168.1.2:80	
Glusters			Add Edit Del	ste
Connected				

Figure 53: JSCAPE MFT Gateway screen

#### Adding the HTTP service

To configure service in JSCAPE MFT Gateway follow the below steps:

- 1. Run the Gateway Desktop manager application.
- 2. Go to "Services" option displayed on the left pane. (See Figure 54)

2.	JSCAPE MFT Gateway	¥ 7 X
Eile Help		
Server	Services FTP/S RAW HTTP/S	
Ar Sentces Clugging GIP Access a Clusters	Protocol Local host Local port Remote host Remote port Cluster	
	Add Edit Dele	rte
Connected		

Figure 54: JSCAPE MFT Gateway Screen

3. Click on 'Add' button to add a new service. A new window would pop-up.(See Figure 55)

Add service	×
Proxy service Specify proxy service parameters.	
Protocol HTTP	
Local host"  Local port  80  Cluster  AS2_Cluster  Remote host"  Remote port  80  Replace HTTP response content	
Enable URL rewriting Settings	
 وی	ncel

Figure 55: Add Service Screen



- 4. Check the "Cluster" check-box and select the cluster created by you for JSCAPE MFT Server. Click on OK to create the service.
- 5. You can now see your service created on the Service Pane. (See Figure 56)

		JS	CAPE MFT Gateway			
Eile Help						
Server	Services FTP/S	RAW HTTP	18			
Server	Protocol HTTP	RAWV HTTPJ	El Local port	Remote host	Remote port	Cluster AS2_Cluster
				C	Add	it Dejete
Connected						

#### Figure 56: JSCAPE MFT Screen with Service configured

#### **Enable HTTP service on JSCAPE MFT Server**

You need to enable HTTP service on the Primary JSCAPE MFT server in order to receive messages routed from JSCAPE MFT Gateway. Follow the below steps to enable HTTP service on JSCAPE MFT server:



- 1. Run the JSCAPE MFT Manager on the Primary JSCAPE server.
- 2. Go to Server > Settings option. New window will pop-up.(See Figure 57)

						JSCAPE MFT Server	Manager		2 7 🗙
<u>E</u> ile	9	<u>S</u> erver	<u>H</u> elp		- 16				
		New	Domain	Ctrl-N					
H	56	Start	Domains	Ctrl+Alt-A	ices				
		Stop	Domains	Ctrl+Alt-O	State	Current Connections	Current Transfers	Total Connections	Uplos
	IC	Paus	e Domains	Ctrl+Alt-P	unning	0	0	0	0 byt
		Res	ume Domains	Ctrl+Alt-R					
		Key I	danager	Ctrl+Alt-K					
		Setti	ngs	Ctrl+Alt-S					
	L								
	1	R		* 1011F					
	<u> </u>	Start	Sto		Pause	Resume	Add	Edit Status	Delete
	_	1000							
-									
Co	nne	ected: d	etault (127.0.0	.1:10880]					5MB of 455MB

Figure 57: JSCAPE MFT Server Manager Screen

3. Now select the "Services" option from the left pane. A new window would pop-up.(See Figure 58)

			Dom	hain	(running	0				×
Statistics Description Services Legging Regards AS2 Messages Datastare Sime Access Banned Files Compliance DP Connections Triggers Authentication Sers Groups Reverse Provies Oropy Zones Directory Monitors Directory Monitors Contacts	Services	FTP/S Protocol	SFTP/SCP	AFTP Hostil	HTTP/S	0 WebDAWS	3 Port		Details	
	P []	Pause	Resume					Ad	d Delet	e lose

#### Figure58: Services Screen

4. Click on the 'Add' button at bottom to add the new service. A new window would pop-up.(See Figure 59)

Add Service	×
Domain Service Specify service parameters.	
Protocol HTTP/S	
I HTTP	
I HTTPS	
QK <u>C</u> ancel	

Figure 59: Add Service Screen

- 5. Now select the "HTTP/S" as the protocol and click OK to add HTTP service.
- 6. Now you can receive as2 messages routed from JSCAPE Gateway to your server.

### SQL QUERY TO LOG DATA INTO LOG TABLE

This section describes how the triggers should be setup in JSCAPE MFT Server so that the logs related to the AS2 data transfer are stored in the database with the help of provided SQL Queries.

#### **Pre-requisite**

- JSCAPE server version 9.0.2.112 is installed and running.
- You should have the access credentials for the Adeptia Log database and the AU\_AS2Logs table created in the Log database.
- You should have all the SQL queries for AS2 log insertion.

#### Inserting logs for File Uploaded through AS2 on JSCAPE Server

To get the logs inserted into the Log Database we need to create a single trigger in JSCAPE with multiple trigger actions defined in the a certain order that is defined in the steps below:

- 1. Create a Trigger in JSCAPE Server with "File Upload" selected as the Event Type.
- 2. Configure the Trigger Condition and then proceed to define the Trigger Action.
- 3. First add the trigger action "Rename File" to append the time-stamp to the incoming file.

Ð	For adding the Time-stamp to the incoming file use following values for the Rename File trigger action parameters: <b>File</b> : %LocalPath%
	<b>DestinationFile:</b> %LocalDir%/%Month%-%DayOfMonth%-%Year%_%Hour%-%Minute% %Second%-%Millisecond%_%Name%
	—

4. After that add the "SQL Query" trigger action in the same Trigger. This SQL Query action will log the information of the incoming file to the Log Database of the Adeptia.



5. After defining all the trigger actions click on OK. (See Figure 60)

Trigger Actions	
Specify trigger actions.	
Action	Description
Run Process	Executes a new process.
Sql Query	Executes a database SQL query.
Up Down	Add Edit Delete
Up Down	Add Edit Delete

Figure60: File Uploaded Trigger Action Screen

6. Select the newly created Trigger from Trigger manage page and click on "Apply" to make the new changes into effect.

#### Inserting Logs for the MDN Receipt send on Reception of file

Whenever a file is uploaded to your JSCAPE server it automatically sends a MDN receipt of that file to the trading partner that uploaded the file to your server. To inert the logs of the MDN receipts sent out follow the below steps:

1. Create a trigger in JSCAPE server with Event Type selected as "AS2 Receipt Sent". (See Figure 61)

TriggerForAS2ReceiptSent	
t type AS2 Receipt Sent 🗸 😮	
cription	
	1.
gnore trigger events while domain is stopped 🗸	
nabled	
tun asynchronous	

Figure61: Trigger Event Type Screen

- 2. Configure the Trigger condition and move forward to define the trigger action.
- 3. Now select the Trigger Action as "SQL Query" and define the SQL Query parameters as below:



- 4. After that click on Ok.
- 5. Select the newly created Trigger from Trigger manage page and click on "Apply" to make the new changes into effect.

#### Inserting Logs for the Files sent to the Trading Partner

You can also insert the logs for the files to be sent to your Trading partners by defining a Trigger as described in the below steps:

- 1. Create a trigger with Event Type selected as "Directory Monitor File Added".
- 2. Define Trigger conditions and proceed to trigger action.
- 3. First define a trigger action as "SQL Query" to log the information about the file to be sent to the trading partner. Provide the parameters as follows for the action.

Ð

SQL Query Action parameters:

*Jdbc url:* Provide the jdbc URL of the Adeptia Log Database *Username:* Username of the Adeptia Log Database *Password:* Password for the Adeptia Log database *Use the following QUERY in the SQL Query trigger action:*  INSERT INTO AU\_AS2LOG(AU\_LOCAL\_DIR, AU\_DOMAIN\_NAME, AU\_FILE\_NAME, AU\_FILE\_SIZE, AU\_FILE\_MODIFICATION\_TIME, AU\_TIMESTAMP, AU\_TYPE, AU\_STATUS) values('%Directory%', '%DomainName%', '%Name%', '%FileLength%', '%FileModificationTime%', unix\_timestamp('%Year%-%Month%-%DayOfMonth% %Hour%:%Minute%:%Second%')\*1000+%Millisecond%, 'OUTBOUND', 'Ready to send')

- 4. After that add a new trigger action as "Trading Partner Regex file Upload" to send files to your trading partner. Refer to the document to create the Trading partner regex File upload action.
- 5. After that again add a new "SQL Query" trigger action to log the status of the file send to the Trading partner into the Log database.

1	SQL Query Action parameters: Jdbc url: Provide the jdbc url of the Adeptia Log Database Username: Username of the Adeptia Log Database Password: Password for the Adeptia Log database Use the following QUERY in the SQL Query trigger action:
	UPDATE AU_AS2LOG SET AU_STATUS='SENT' WHERE AU_FILE_NAME='%Name%'

- 6. After that click on Ok.
- 7. Select the newly created Trigger from Trigger manage page and click on "Apply" to make the new changes into effect.

#### Inserting Logs for the MDN Receipt received on Sending a File

You can log the MDN Receipt details into the log database for all the files sent to the trading partners through AS2 protocol. Follow below steps to log MDN receipt details:

1. Create a trigger with Event Type selected as "AS2 Receipt Received".(See Figure 62)

Add Trigger Specify trigge	r parameters.	
Name*	TriggerForAS2ReceiptReceived	
Event type	AS2 Receipt Received 🚽 😵	
Description		
		1.
🔲 Ignore trigge	er events while domain is stopped 🗸	
Enabled		
Run asynchi	ronous	
Fire Trigger	Error event if an error occurs	

#### Figure62: Trigger Event type Screen

- 2. Define Trigger conditions and proceed to trigger action.
- 3. Define the Trigger action as "SQL Query" and configure the parameters as defined below:



SQL Query Action parameters: Jdbc url: Provide the jdbc URL of the Adeptia Log Database Username: Username of the Adeptia Log Database Password: Password for the Adeptia Log database Use the following QUERY in the SQL Query trigger action: INSERT INTO AU\_AS2LOG(AU\_AS2\_FROM, AU\_AS2\_TO, AU\_CLIENT\_HOST, AU\_CLIENT\_PORT, AU\_DISPOSITION\_ACTION, AU\_DISPOSITION\_SENDING\_MODE, AU\_DISPOSITION\_TYPE, AU\_DOMAIN\_NAME, AU\_ORIGINAL\_MESSAGEID, AU\_RECEIPT\_MESSAGEID, AU\_TYPE, AU\_TIMESTAMP) VALUES('%As2From%', '%As2To%', '%ClientHost%', '%ClientPort%', '%DispositionActionMode%', '%DispositionSendingMode%', '%DispositionType%', '%DomainName%', '%OriginalMessageId%', '%ReceiptId%', 'RECEIPT RECEIVED', unix\_timestamp('%Year%-%Month%-%DayOfMonth% %Hour%:%Minute%:%Second%')\*1000+%Millisecond%)

- 4. After that click on Ok.
- 5. Select the newly created Trigger from Trigger manage page and click on "Apply" to make the new changes into effect.

#### **Defining a Misfire handling Trigger**

You can create a trigger in JSCAPE server that can handle if any of the events misfires or through some exception. It can also be used to log the information of the files send to the partner that failed due to some exception. Follow the below steps to configure a misfire handing event:

- 1. Run the JSCAPE application server manager.
- 2. Go to "Domains" tab and select the domain.
- 3. After selecting the domain click on the "Edit" button at the bottom.
- 4. Select the "Triggers" option from the left pane.
- 5. Create a new trigger with Event type selected as "TriggerErrorEvent".(See Figure63)

Add Trigger Specify trigge	r parameters.	
Name*	TriggerToRunInCaseOfError	
Event type	Trigger Error 🗸 🌚	
Description		
🔲 Ignore trigge	er events while domain is stopped	4
Enabled		
Run asynch	ronous	
Fire Trigger	Error event if an error occurs	

Figure63: Trigger Event Type Screen

- 6. Define the trigger condition and proceed to define trigger action.
- 7. Add a trigger action as "SQL Query" and configure the parameters as defined below.

0	SQL Query Action parameters: Jdbc url: Provide the jdbc url of the Adeptia Log Database Username: Username of the Adeptia Log Database Password: Password for the Adeptia Log database Use the following QUERY in the SQL Query trigger action:
	UPDATE AU_AS2LOG SET AU_ERROR_MESSAGE='%ActionMessage%', AU_STATUS='ERROR' WHERE AU_FILE_NAME='%TriggerErrorMessage%'

- 8. After that click on Ok.
- 9. Select the newly created Trigger from Trigger manage page and click on "Apply" to make the new changes into effect.

### **CONFIGURING JSCAPE SERVICE**

You may need to have files dropped and picked from network or shared drives while sending/receiving files from JSCAPE server. By default, JSCAPE server's windows service is created with 'Local System' account which has limited permission sets and does not allow JSCAPE to interact with shared drives. You need to explicitly configure this setting.

#### Steps to configure JSCAPE Windows service

Follow the below steps to configure JSCAPE services:

- 1. Go to the Start Menu of the Windows and select the run service.
- 2. Type in services.msc in the run and click on go.
- 3. Locate the JSCAPE services in the services window and right click on it to select properties. (See Figure 64)

File Action View	Help					
Services (Local)	Services (Local)					
	JSCAPE MFT Server	Name	Description	Status	Startup Type	Log On As
		SCAPE MFT Gate	JSCAPE MF		Manual	Local System
	Stop the service	SCAPE MFT Server	JSCAPE MF	Started	Automatic	Local System
	Mestan the service	🔍 KtmRm for Distrib	Coordinates		Start	Network Service
		😪 Link-Layer Topolo	Creates a N		Stop	Local Service
	Description:	G Microsoft .NET Fr	Microsoft		Pause	Local System
	JSCAPE MET Server	🔍 Microsoft .NET Fr	Microsoft		Resume	Local System
		Content Microsoft .NET Fr	Microsoft		Partart	Local System
		G Microsoft .NET Fr	Microsoft		Nestan	Local System
		Microsoft iSCSI Ini	Manages In		All Tasks	<ul> <li>Local System</li> </ul>
		🔍 Microsoft Softwar	Manages so			Local System
		🎧 Mobile Broadban	Provide serv	Sta	Refresh	Local System
		🔍 Motorola Device		Sta	Properties	Local System
		🔍 Mozilla Maintena	The Mozilla			Local System
		G Multimedia Class	Enables rela	Sta	Help	Local System

Figure 64: JSCAPE MFT server services

4. Go to the "Log On" as tab in the properties window and select the "This account" option and provide the Account name and password for an administrator account in the Windows.(See Figure65)

Jen lei ai	Log On	Recover	y Dependencies	
Log on O Loc	as: al System Allow servi	account ce to inter	act with desktop	
This account: Password: Confirm password:		A	dministrator	Browse
		•	•••••	
		ord:	•••••	

Figure65: Properties Pane

- 5. Click on "Apply" and then on Ok to apply the changes.
- 6. To apply the changes you need to restart the JSCAPE services.

# **RUNNING BATCH SCRIPT TO RENAME FILE INCOMING FILE IN JSCAPE**

Adeptia provides a java utility to append the file with sender ID and the time stamp for generating unique files. The utility is provided as a zip file which can be extracted. The extracted zip contains the batch file which can be executed to rename the incoming file name.

#### Steps to run the utility

Follow the below steps to run the utility to rename the incoming files in JSCAPE:

- 1. Extract the utility zip folder.
- 2. Place the extracted folder in the JSCAPE default installation directory.
- 3. Go to JSCAPE web Interface > Domains > Triggers and create a trigger with "File Upload" as criteria.
- 4. Select the Run Process Action for the Trigger action.
- 5. Provide the name and absolute path of the batch file located in the extracted folder placed in the JSCAPE default installation directory.
- 6. This batch requires two arguments as input. Provide the arguments separated by space in the "Arguments" field of the Trigger action. First argument will be %LocalPath% this is a variable that holds the filename along with its complete path. Second argument is the target location where the file would be placed upon renaming.
- 7. Provide the location for the Output stream generated by the Batch file at any desired location in the "Output Stream" field.
- 8. Provide the location for the Error stream generated by the Batch file at any desired location in the "Error Stream" field.
- 9. Click on Ok.

10. Then Click on "Apply" to apply the changes in the trigger.