

BTIP XMedius Fax Server over BTIP trunk

version addressed in this guide : XMedius Fax Server Enterprise 8.0.0.300

Version of 25/03/2019



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1 Goal of this document

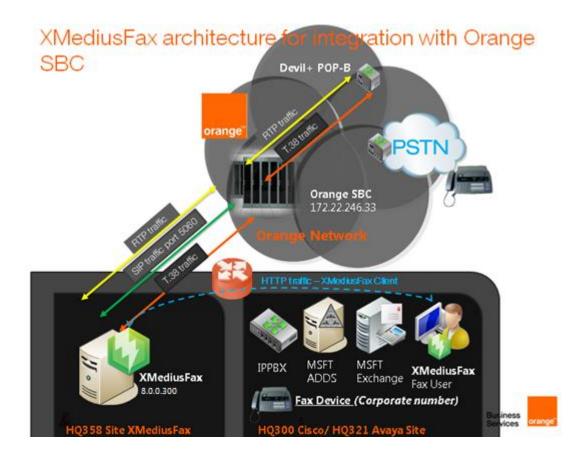
The aim of this document is to provide configuration guideline for XMedius Fax Server directly connected to Orange SBC via SIP trunk. This solution is certified in scope of Business Talk IP (BTIP) Service.



2 Solution architecture

2.1 Architecture: XMedius Fax Server directly connected to Orange SBC

Picture 1: XMedius Fax Server integration with Orange infrastructure SBC



3 Configuration prerequisites

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3.1 License installation on XMedius Fax Server

In addition to system components settings (users, sites, gateways and channels), some XMedius Fax features can be enabled or disabled depending on the license you purchased.

3.2 IP Address schema configuration

Collect IP Address of XMedius Fax Server which is required to configure properly dedicated XMF site on Orange infrastructure (SBC, iMSS, Application Server). Please, refer to section 4.2 which describe basics of Orange components configuration.

Collect IP Address of Orange SBC interface which is required to configure Peer List and Dial Plan on XMedius Fax Server.

For more details, please refer to section: T.38 Driver Properties Configuration (Managing a Dial Plan and Peer List).



4 Installation in High Availability mode

XMedius FAX provide high availability on two servers working in primary/backup mode. They are installed on separated machines and connected with each other in one FAX system.

Installation of XMedius FAX server in high availability mode consists of steps:

- Installing primary server it doesn't need additional configuration,
- Connecting backup server during installation "Connect to existing system" option must be chosen. Wizard will ask then for basic information to connect to primary server:
 - o IP address of primary server
 - o System administrator user name and password

After installation both nodes should be visible in XMedius Fax system monitor application:



4.1 Update XMedius Fax Server to version 8.0

Before upgrade stop the services by run <XMedius Fax>\bin\util\xmsc.exe -oa in console, as shown below.

C:\Program Files (x86)\XMediusFAX\Bin\Util>xmsc.exe -	-oa
Stopping xmproxyDone	
Stopping xmsmtpgatewayDone	
Stopping xmxmlgatewayDone	
Stopping xmdocumentrasterizerDone	
Stopping xmfaxdriverDone	
Stopping xmcoconfigDone	
Stopping xmfaxarchiveDone	
Stopping xmfaxmanagerDone	
Stopping xmconfigmanagerDone	
Stopping xmfaulttoleranceDone	
C:\Program Files (x86)\XMediusFAX\Bin\Util>_	

- 1. Initiate the installation using the installation Wizard:
- a) From the root directory of the XMedius Fax distribution media, double-click Setup.exe.



b) Click server button.

🖟 XMediusFAX - InstallShield Wizard		
E	Welcome to the InstallShield Wizard for the server applications of XMediusFAX 8.0.0.300.	
	The InstallShield(R) Wizard will install XMediusFAX on your computer. To continue, click Next.	
	© 2002-2015 Sagemcom Canada Inc. All rights reserved. Unauthorized duplication, copying and/or replication is strictly prohibited.	
	Protected by US Patents 4,994,926; 5,291,302; 5,459,584; 6,643,034; 6,785,021; 7,283,270. Protected by Canadian Patents 1,329,852; 2,101,327; 2,417,202. Additional US, Europe and Japan patents pending.	
< Back. Cancel		



😽 XMediusFAX - InstallShield Wizard			×
License Agreement Please read the following license agreem	nent carefully.		
END-USER LICENSE AGREEMENT	2		-
Important: By clicking I accept the t and installing the softwar bound by and are becoming License Agreement (hereins	e, You are a party to	consenting this End-Us	to be
1) PERMITTED USE. Sagemcom Canada, Inc. (SCI) grants You a non-transferable, non-exclusive right to use the conclosed SCL coffware (barajmafter the "Software")			
• I accept the terms in the license agreement \bigcirc I do not accept the terms in the license agreement			
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

c) Follow the Wizard installation (click Next button), accept License Agreement and click Next.

🔂 XMedi	iusFAX - InstallShield	l Wizard	×
Licens	e setup		24
_	demo license allows you	present) or install a demo license (new installation only u to use the system with one instance of each compor nels (2) and watermarks printed on every fax page.	r). The lent, a
InstallShie			
a rosoli pri re		< Back Next >	Cancel

d) Choose location of new license and click Next. On next screen click Install to begin the upgrade.



XMediusFAX Third Party Software Installer		
Please select the software that yo	ected, the 3rd party software listed below need to be installed on your computer. In want to automatically install and review the installation parameters by selecting each zed your system and automatically unchecked the software that are already installed.	
 WinPCap 4.1.3 ✓ GhostScript 9.16 MySQL Server 5.5 ✓ J2SE Runtime 1.8_65 ✓ Apache Tomcat 7.0 IIS-Tomcat Redirector ✓ Python 2.7.10 	WinPCap is required on your system. WinPCap is necessary to enable the network packet capture feature. WinPCap seems to be already installed on your system, this is why it is 'unselected' by default. You can still specify to re-install it.	
	The WinPCap installer can be found at the following location: C:\Users\Administrator\Desktop\XMediusFAX_8.0.0.300_fKeRL7eC6ZL Install WinPCap to the following location: C:\Program Files (x86)\WinPcap	
	OK	

e) Choose location and click OK. After installation click Finish.

5 XMedius Fax Server directly connected to Orange SBC

5.1 XMedius Fax Server components configuration

	Creating a Profile	
Step 1Immediately after installation, the Basic and No Faxing Rights provide are available, to which you can associate users. The Basic profile allows the user to fax at a normal fax priority, we three retries if a connection cannot be immediately established. The No Faxing Rights profile does not allow the transmission of You might also create new profiles and assign them to meet the specific fax needs of each user. It is also possible to create difference profiles for each department, thereby tailoring fax settings to departmental requirements rather than user requirements.In the MMC Snap-in, select the Profiles node of your site, and click on the Add to the		ociate users. fax at a normal fax priority, with be immediately established not allow the transmission of faxes. and assign them to meet the s also possible to create different by tailoring fax settings to
	In the MMC Snap-in, select the Profiles node The Profile Properties dialog appears.	e of your site, and click on the Add button.
	Parameter Name① Enter the name of the profile In the Profile Name field.	Parameter Value • XMF Warsaw
	 Select the Phone Books tab. If you want to assign phone books to the profile: In the Phone Books section, click Add. The Phone Book Properties dialog appears. Select a phone book in the Phone Book dropdown list. 	
	Note: A phone book must have been previously created. To create and populate a phone book refer to the Administration Guide – Web documentation.	
	Select the Billing Codes tab to Associating a Profile and a Billing Group - Once billing groups have been created, administrators can associate a billing group with a profile. The billing group can contain any number of billing codes and sub-billing codes which users can apply when faxing.	€ Default values are used
	• Click the Fax Options tab to set the fax priority and how it affects the order in	



	which the faxes are sent. This is however compounded by the number of retry attempts to send a fax.	Default values are used
	• Select the Security tab to apply security settings.	
	• Select the Notification tab to set Notifications. By default, incoming fax notifications are sent to the destinations in	Default values are used
	the Incoming Routing Table , or to the default destination specified in its properties. Outbound fax notifications are sent to the sender's e-mail address.	Default values are used
Step 2	Xmedius Fax number presentation	n on SIP trunk
	Configuration of number presentation	
	Orange SBC. Number presentation SIP INVITE message send by Fax s	
	SIP INVITE SDP() \rightarrow SIP From: sip:	
	Sites > Site name > Configuration > Profile	
	Phone Number Information section	
	Parameter Name	Parameter Value
	Parameter Name Phone Number Information section > Select Profile Phone Number Information checkbox	Parameter Value • checkbox must be enabled
	 Phone Number Information section Select Profile Phone Number 	
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF 	• checkbox must be enabled
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000 empty value
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000 empty value
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000 empty value
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000 empty value
	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number 	 checkbox must be enabled for example: 3580000 empty value
Step 3	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number Phone field can be empty, not required to provide phone number Phone Number Information Vise Profile Phone Number Information Fax: 3580000 Picture 2: Phone Number Information 	 checkbox must be enabled for example: 3580000 empty value Formation Formation configuration in Profile
Step 3	 Phone Number Information section Select Profile Phone Number Information checkbox In Fax field provide phone number "extension" compliant with XMF dialplan Phone field can be empty, not required to provide phone number Phone field can be empty, not required to provide phone number Phone Number Information Vise Profile Phone Number Information Fax: 3580000 Picture 2: Phone Number Information 	 checkbox must be enabled for example: 3580000 empty value Formation Formation configuration in Profile Formation configuration in Profile



Parameter Name	Parameter Value
• Enter the SMTP address of the user;	● 3580001@orange-multimedia.fr
this is a mandatory entry.	
• Use Profile Name to associate the user to a specific profile.	❷ Profile Name: Basic
Note: A profile is mandatory. If no profile exists, you can choose Basic or No Faxing Rights. If you want to create a new profile, refer to Step 1 .	
Tips: If the SMTP user has a corresponding Windows Domain account, use AD account to indicate that account in the format domain \ username .	
• Navigate to Personal Information tab in User Properties windows. Provide Phone Number Information details (Phone number and Fax number) for new user. Must be compliant with XMF dial plan.	Personal Information example: Phone: 3580001 Fax: 3580001

	 T.38 Driver Properties Configuration (Options, T.38, SIP) In the administration interface, you just need to access the properties of the Driver node of your host to configure general SIP properties and to configure SIP specific properties for listed gateways and associate number patterns to specific gateway. Warning: Parametrs locations on Driver Properties tabs can be different. It depends on T.38 driver release installed on the server. 	
Step 4		
	On Options tab the T.38 Channel	• When you acquire a new license, you



Configuration Section configuration.	need to update here the number of channels allowed according to this new license
On FoIP tab configure ECM (error correction mode).	• ECM may be enabled (Enabled ECM checkbox) or disabled. It depends on customer requirements.
	If Enabled: • Received Document Encoding set to Group 3 (1d) • Terminal Resolution Capacity set to High (200x200)
• In the Driver properties dialog, select the SIP tab. Provide port number under which SIP messages are received for UDP, TCP and TLS.	 The general SIP properties are the following Local SIP UDP Port - 5060 Local SIP TCP Port - 5060 Local SIP TLS Port - 5061 Print SIP Messages - Disabled Wait For DTMF Code Input - Disabled

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Driver Properties
Options FoIP SIP SIP Security H.323 Dial Plan Peer List Netv
Number of Channels:
Log Size (MB):
Information Logging Level:
Enable Log Archiving
Archive Retention (in days): 15
Display Name: SAGEM-XMEDIUS
FoIP Channel Configuration
Maximum Number Of Channels:* 2
Preferred Number Of Channels: 2
*Changes to properties marked with an asterisk will take effect when the
service is restarted.
OK Cancel
Picture 5: Example of Driver Configuration (Options tab)
Ficture 5. Example of Driver Configuration (Options tab)
Driver Properties X
Options FoIP SIP SIP SEcurity H.323 Dial Plan Peer List Netv
Options
Enable ECM*
Received Document Encoding:* Group 3 (1d)
Terminal Resolution Capacity:* High (200x200)
Call Delay (seconds): 0
*Changes to properties marked with an asterisk will take effect when the service is restarted.
Picture 6: Example of Driver Configuration (FoIP tab) with Disabled ECM
If XMedius Fax is installed in high availability mode driver settings must be
ured on all nodes visible in hosts list.



	 T.38 Driver Properties Configuration (Managing a Dial Plan and Peer List) By default, XMedius Fax assumes that all faxes are to be sent through a single gateway. The list SIP gateways (in our case it will be Orange SBC), called the Peer List, therefore displays the single gateway established when XMedius Fax was installed. The corresponding dial plan indicates that all numbers will use the only gateway available. By using a Peer List, you can manage separately the SIP or H.323 properties to use for each known gateway (or proxy) that communicate with the fax server. 		
Step 6	System Configuration > Hosts > XMF_Hos Button click on Driver container and select H	Properties.	
	In the Driver properties dialog, select the P o		
	Parameter Name • Click Add SIP Peer button. Adds a new SIP Peer and allows to configure its properties	Parameter Value • Checkbox Enable Log Archiving must be enabled. Set Archive Retention (in days) to value: 15.	
	• On General tab of Peer Properties window provide Host Name - The host name of the gateway (or proxy) to be added as a Peer.	● IP address of Orange SBC interface, for example: 172.22.246.33.	
	• On General tab of Peer Properties window provide the transport type (UDP, TCP or TLS) to be used by this Peer.	❸ Transport: UDP	
	• On General tab of Peer Properties window provide the port number of this Peer.	5 5 5 5 5 5 5 5 5 5	
	• On General tab of Delay Before Call Completion, Voice Call Timeout and SIP From Header Details.	 Delay Before Call Completion – 1 second Voice Call Timeout – 40 seconds Display name – empty User - \$SenderFax\$ Host - \$LocalHostIP\$ 	
	 On T.38 tab of Peer Properties window configure Outbound Initial Media Offer and CNG options. 	 Outbound Initial Media Offer - Audio CNG - Send CNG using RPT 	
	 On T.38 tab of Peer Properties window configure Delay before Re- INVITE. 	Delay before Re-INVITE - 2 seconds	
	On T.38 tab of Peer Properties	B LS redundancy (possible range 0-	



On Codecs tab click Add buttor choose codec from Available Co- list.	
Peer Properties General T.38 Codecs Inbound Modif	ication Table
Host Name: Transport: Port: 5060	172.22.246.33
Media Type: G.711 fallback delay after fax detection (Delay Before Call Completion (seconds): Voice Call Timeout (seconds): "user" parameter in SIP URI: VIA and CONTACT Headers Host Name C V.34 Enabled Use Proxy Host Name:	1 40 phone
SIP From Header Details Display Name: User: Host:	\$SenderFax\$ \$LocalHostIP\$
SIP Session Timer Use Session Timer Session Interval (seconds): 1800 Minimum Timer (seconds): 90	
	OK Cancel
	onfiguration – new Peer (Orange SBC) SIP Fre aders configuration

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Peer Properties	X	
General T.38 Codecs Inbound Modification Table		
Options		
Outbound Initial Media Offer: Audio		
CNG: Send using RTP		
Delay Before Re-INVITE (seconds): 2		
Leading T.38 "no-signal" Packets: 3		
Send T.38 Re-INVITE (Sending Side)		
Delay Before Re-INVITE (seconds): 2		
T38 Redundancy		
Low Speed Redundancy Depth: 2		
High Speed Redundancy Depth: 1		
Picture 8: Example of Driver Config	Juration - new Peer (Orange SBC)	
Peer Properties	×	
General T.38 Codecs Inbound Modification Table		
Options Supported Codecs		
Supported Codecs Add		
G.711 A-Law 8 kHz Remove		
Move Up		
Move Down		
Properties		
If the selected media type is "G.711 Passthrough" or "T		
must be in the list and all codecs that are not G.711 will	be ignored.	
Picture 9: Example of Driver Configuration	tion – new Peer (Orange SBC) Codec	
In the Driver properties dialog, select the Dia	al Plan tab.	
Parameter Name	Parameter Value	
• Click Add button. Provide number	• (asterisk)	
	Note: You must specify the entire fax number anticipated. Wildcards can be	
	entered:	
	 The asterisk (*) specifies any number of digits 	
	- The question mark (?)	
	specifies a single digit.	
	0 De em 170 00 040 00	
	Peer: 172.22.246.33 Proforence: 1 (Higher)	
Associated with a Number Pattern. Click Add button to select configured	Preference: 1 (Higher)	



Peer (Orange SBC).
 On General tab of Peer Properties window provide the transport type (UDP, TCP or TLS) to be used by this Peer.
Oriver Properties X Options FoIP SIP SIP Security H.323 Dial Plan Dial Plan Add D0* Add D0* Number Pattern Peers Add Domente Vumber Pattern: 00* Peers X Peers Preference Add Add 172.22.246.33 1 (Higher) Remove Properties Vortice OK Cancel Cancel
Picture 10: Example of Driver Configuration – Dial Plan configuration
Note : If XMedius Fax is installed in high availability mode driver settings must be configured on all nodes visible in hosts list.

	Incoming routing table (System Configuration)		
	XMedius Fax > System Configuration > Hosts > Incoming Routing TableIn the MMC Snap-in, select the Incoming Routing Table node and then click Add. TheRouting Table Entry Properties dialog appears		
Step 7			
	 Parameter Name ① Enter a valid DNIS/DID number in the Lower Bound field. 	Parameter Value ● 3580000	





• Enter a valid DNIS/DID number in the	2 3580099
Upper Bound field.	Note: The Lower Bound and Upper Bound values must have the same amount of digits and the Upper Bound value must be higher than the Lower Bound value.
• Select the site to which you want to associate these values, from the list in the Site field.	Site : Xmedius
 Enter the site Call Station ID in the CSID field. 	O CSID : XMedius

5.2 Orange components configuration

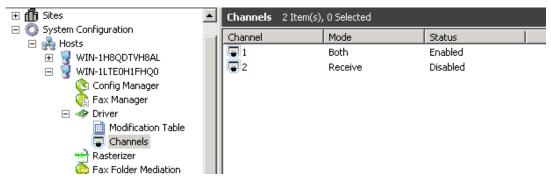
	VPN Sites for Customer A-IP TELEPHONY SIP Configuration on Orange Application Server (AS) and Orange SBC Configuration		
Site Parameters on AS and Orange SBC Configuration			
Step 1	Parameter Name Numbering plan which is compliant with numbers provided on XMedius Fax Server.	Parameter Value Private prefix: 358 Private range: 0000-0090	
	Public Number in Full Numbering List to realize incoming calls to XMF Users	 Incoming public number for XMF user example: Private Number: 3580001 Public Number: 33296082956 BTG Dom Flag: Enabled Optimised routing from other VPN: disabled 	
	• Verify configuration of Site Access on AS to reach SBC interface related to XMF site.	Please, verify this information with Orange Team. Default Orange configuration is used.	
	Verify configuration of iMSS.	Please, verify this information with Orange Team. Default Orange configuration is used.	
	Verify configuration of SBC to XMF site.	Please, verify this information with Orange Team. Default Orange configuration is used.	

6 Configuring High Availability

6.1 Channels configuration

Since Business Talk require system to work in Primary/Backup mode servers need appropriate configuration. In normal mode all faxes should be handled by primary server. It means that primary server must have enough channels to send and receive all fax calls. To provide high availability backup server must be also able to receive faxes in situation, when primary server is running but SBC cannot reach it. To receive and not send faxes backup server need special channel configuration.

Incoming faxes are more exposed to failures when channels are busy, because XMedius Fax will reply with 486 Busy if there are no available channels. Outgoing faxes will be stored in memory and send process will be postponed until channels are available. To provide fax service it is recommended to configure up to half channels as receive only. It will keep channels ready only for incoming faxes which cannot wait and must be handled immediately. To do so go to **Driver -> Channels** on primary server where all available channels are listed, right-click on chosen one and select properties.



Following window will appear where channel mode can be selected:

C	Channel Properties 🛛 🗙			
	-Channel S	ettings		
	Mode:	Both		
	Status:	Enabled		
	Channel:	1		
	🗖 Activa	te Destination/DNIS/DID		
	Destination/DNIS/DID;			
	OK Cancel			

Channels are activated in order based on its numerical ID. List contain all channels that are possible to configure but not all can be registered on both servers at the same time. It means that if all channels are registered on primary server, backup will not be able to send or receive any connection. Reccomended deployment requires proper amount of channels registered on



both servers. To set maximum and preffered amount of channels registered to each server right click on **Driver** and choose **Propeties** on proper server:

Driver Properties X				
Options FoIP SIP SIP Security H.323 Dial Plan Peer List Netv				
_ Options				
Number of Channels:				
Log Size (MB): 20				
Information Logging Level:				
✓ Enable Log Archiving				
Archive Retention (in days): 15				
🗖 Debug				
Display Name: SAGEM-XMEDIUS				
FoIP Channel Configuration				
Maximum Number Of Channels:* 2				
Preferred Number Of Channels: 2				
*Changes to properties marked with an asterisk will take effect when the service is restarted.				
OK Cancel				

Number of Channels – shows available amount of channels that can be registered. This value is specified in license and cannot be changed.

Maximum Number Of Channels – limits number of channels that can register to server.

Preferred Number Of Channels – specify number of channels that should be registered on a selected server during regular maintenance. Values set on servers should add up to number of channels available in license.

6.2 Recommendations

If there are no failures, primary server should handle all incoming and outgoing faxes. It means that primary server must have registered enough channels to provide fax service. Because incoming faxes are not queued it is recommended to set half channels to work as receive only. With minimal amount of channels which is two, one should work in both directions and second should be receive only. Number of channels on primary server depends of customer traffic and CAC requirements.

To provide high availability additional channels should be registered on backup server. It means that primary server must have enough channels to handle fax traffic and backup must have additional channels to receive faxes in case of network failure.



Note: For detailed description of recommended licensing refer to "BTIP SIP XMedius Fax Server Release 8.0.0.300 Technical Overview", chapter 4.2.3.

Backup server should have registered only channels for incoming faxes. It means that primary and secondary servers should have assigned the same amount of registered receive only channels. When primary server works, backup should not have registered any channels for sending faxes.

Channels are configured on each server independently. In configuration list channels are shown in registration order. It means that administrator can set which channels will be registered only when second server fails.

To clarify recommended solution assume that customer needs 10 channels to provide fax service. It means, that on primary server 5 channels should be registered as **receive only** and other 5 should work in **both** directions. Backup server also should have 5 channels registered as **receive only**. It means that customer needs 10 channels to provide fax service, but license to register 15 channels.

Because channel list allow configuring maximum amount of channels, rest should be set to work in **both** directions. They will become registered when other server fails.

	License contain 15 channels	
	Primary Server	Backup Server
Max. number of channels	15	15
Preferred number of channels	10	5
Channels modes*	 Both Both Both Both Both Both Both Receive Receive Receive Receive Receive Receive Receive Receive Receive Both 	 Receive Receive Receive Receive Receive Both Bo
	15. Both	15. Both

* Registered channels are bold.

10 channels registered on primary server provide fax service in standard mode. When SBC cannot reach primary server 5 channels on backup server are ready to answer call and receive fax. Failure of any on server causes registering all 15 channels on working node.

7 CAC (Call Admision Control) Configuration for XMedius Fax Server

CAC can be managed on XMedius Fax based on available license channels (by default 2 channels available- it means maximum 2 faxes in the same time).

	Updating the License When installing XMedius Fax on a new syster purposes. This default license enables one inst channels (T38 and fax boards) in evaluation m allows for 100 users and applies a watermark of	ance of each component and a total of two node and up to 10 sites with no time limit,		
Step 1	In the administration interface, go to General Settings ➤ Properties. The General Settings Properties dialog appears. Select the License tab.			
	 Parameter Name Click Update buton to provide new license. Navigate to the location where the new license file can be found. Click Open. Click OK in the License Updated confirmation dialog. 	Parameter Value • N/A		
	• Click View button to verify license. The content of the license file displays in your default text editor.	❷ N/A		



8 Traffic separation (T.38 & Data) on XMedius Fax Server

Traffic isolation for XMedius Fax Server based on 2 network interfaces (NICs). It is solution recommended by vendor.

- Primary interface called "T38" is dedicated for "fax" traffic: RTP/T.38/SIP.
- Secondary interface called "DATA" is dedicated for "all" data traffic from/to XMedius Fax Server, example: RDP, SMB, HTTP/S, etc.

All traffic is send via DATA NIC "corporate network". Static route needs to be defined (**route add 0.0.0.0 mask 0.0.0.0 126.17.45.254**).

CLI command: route add 0.0.0.0 mask 0.0.0.0 IP_Corporate_DFGW

Fax traffic is send via FAX NIC. Dedicated static route to Orange network need to be defined, example route to Orange SBC: (route add 172.22.246.0 mask 255.255.255.0 6.3.58.254)

CLI command: route add IP_OrangeSBC mask Mask_OrangeSBC XMF Network_DFGW

It is possible to use **batch script** or **GPO** to distribute static routes for **FAX/DATA NIC** on Windows Server 2003/2003/2003 R2/2008/2008 R2. It is also possible to add permanent routes using CLI.

	Updating the License		
Step 1	In the administration interface, go to General Settings ➤ Properties. The General Settings Properties dialog appears. Select the License tab.		
	Parameter Name ● Run ncpa.cpl (Network connections) and from menu select Advance → Advanced Settings. Set T38 NIC on first possition in Connection list. ● Add static routes for T.38 and DATA traffic isolation. route -p add destination mask netmask gatewayaddress The -p (permanent) switch makes it permanent.	Parameter Value N/A Example of script to add static routes: route /f rem Default route all traffic via Coroporate Network Interface route add 0.0.0.0 mask 0.0.0.0 126.17.45.254 rem Routes to Orange Network, example SBC route add 172.22.246.0 mask 255.255.255.0 6.3.58.254	

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A <u>d</u> dress 💊 Network Connectio	uns
Network Tasks	AN or High-Speed Internet
Create a new connectio	al Connecto Gigabi
Advanced Settings Ser Adapters and Bindings	? X
	ed in the order in which they are accessed by
Ott Connections: Image: Connections: Image: Connections: Image: Connections:	inection DATA
De V Pile and Prin V File and Prin V V Cient for Mi	rea Connection 2 T38: Inter Sharing for Microsoft Networks I Protocol (TCP/IP) icrosoft Networks t Protocol (TCP/IP)
	OK Cancel 014 test TRAFFIC ISOL
Picture 9: Netwo	ork Connection Advanced Setting – T.38 NIC priority