

TIMESYNC 4 INSTALLATION AND CONFIGURATION MANUAL



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INTRODUCTION

TimeSync is an application and service for Windows that uses a local or internet time source to set the time on a computer or a network.

FEATURES

- Easy to install and setup
- Synchronises time on a computer or server from a local or internet time source
- Can provide activity logs to file, syslog and event log with options available for level of logging required
- Can adjust how often the service sets the time
- Customisable settings for how to correct the time if it is incorrect
- Email alerts when synchronisation is lost via SMTP
- Displays statistics of the current time source
- Option to set the server or computer as an NTP server
- Export and Import configuration for backup and restore
- Compatible with Windows 8 and Windows Server 2012
- Install on Domain Controllers without disabling W32Time
- Command Line option to import settings into TimeSync upon install (for Automated Installs)
- Install on Windows Server Core



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INSTALLATION

Upon installing the TimeSync application, you will be prompted to disable Win32 time. Please note: You should <u>not</u> disable Win32 time, but you should prevent it from setting the time on your computer.

SUPPORTED OPERATING SYSTEMS

Desktop OS

- Windows XP 32 bit
- Windows Vista 32 and 64 bit
- Windows 7 32 and 64 bit
- Windows 8 32 and 64 bit

Server OS

- Windows Server 2003 32 and 64 bit
- Windows Server 2008 32 and 64 bit
- Windows Server Core 2008 32 and 64 bit
- Windows Server 2008 R2 64 bit
- Windows Server Core 2008 R2 64 bit
- Windows Server 2012 64 bit
- Windows Server 2012 64 bit

SYSTEM REQUIREMENTS

- Processor: 400 MHz Pentium processor or equivalent (Minimum); 1GHz Pentium processor or equivalent (Recommended)
- RAM:96 MB (Minimum); 256 MB (Recommended)
- Hard Disk: Up to 5MB required for the application and up to 500 MB of available space may be required due to .NET 3.5 included as a dependency
- CD or DVD Drive: Not required
- Display: 800 x 600, 256 colours (Minimum); 1024 x 768 high colour, 32-bit (Recommended)



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APPLICATION INSTALLATION

Run the Installation file, 'setup64.exe' for 64 bit systems and 'setup32.exe' for 32 bit systems. Click 'Next >' to continue.



If you are happy with folder name for the Start Menu, then click 'Next >'



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Setup - Timesync		
Select Start Menu Folder		
Where should Setup place the prog	ram's shortcuts?	Ċ
Setup will create the proor	am's shortcuts in the follow	ing Start Menu folder.
To continue, click Next. If you woul	d like to select a different fo	Browse
Innesyne		Drowse

If you would like a desktop icon, click 'Next >' if not then uncheck the box first.

Select Additional Tasks		
Which additional tasks should	l be performed?	Ő
Select the additional tasks yo then click Next.	ou would like Setup to perform wh	ile installing Timesync,
Additional icons:		
🔽 Create a desktop icon		

If you are happy with the selections and options, click 'Install.'

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Setup - Timesync	
Ready to Install Setup is now ready to begin installing Timesync on your computer.	
Click Install to continue with the installation, or click Back if you want to r change any settings.	eview or
Start Menu folder: Timesync Additional tasks: Additional icons: Create a desktop icon	*
< < Back Install	Cancel

The Install process will begin and .NET 3.5 and Visual C++ will also be installed as dependencies.

Setup - Timesync	
Installing Please wait while Setup installs Timesync on your computer.	20
Installing Visual C++ 2012 Redistributable	
	Cancel

Once the installation has finished you can launch the application straight away by clicking 'Finish'.

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Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	Abo
Serve	ers			Pr Ac Last	otocol: ddress: t Sync:		
	Add	Remove			Start	Service	







SERVER CORE INSTALLATION

Launch or start PowerShell and install the .NET Framework with the following command:

Install-WindowsFeature -name Net-Framework-Core

Once this has installed exit PowerShell.

Run the Installation file, 'setup64.exe' for 64 bit systems and 'setup32.exe' for 32 bit systems from its saved location.

The GUI installer will start and follow the 'Application Installation' instructions.





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UNATTENDED INSTALLATION

Launch Command Prompt and run the Installation file, 'setup64.exe' for 64 bit systems and 'setup32.exe' for 32 bit systems from its saved location.

You can add arguments to the command to customise the install process. The recommended arguments are below:

/config=<location of xml file exported from timesync> = Specifies the configuration
file to import

/SP- = supresses the 'do you want to install...' messages

/verysilent = Makes the installer very silent. Will not show any messages or dialog boxes

/SUPPRESSMSGBOXES = Supresses the message boxes

/norestart = Will not restart the PC if one is required

The config argument allows you to specify a config file to automatically add the configuration to the software. This requires setting up TimeSync on a single computer first and exporting the configuration. This makes it easier to add the same configuration to multiple computers on a network without having to configure them individually.



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APPLICATION OVERVIEW

MAIN TAB

The Main Tab allows you to add different time sources to reference in order to set the time. This can be a local source, such as a GPS / Radio Clock or an Internal NTP Server, or an external source, such as an internet NTP Server. The information from each added source will be displayed on the right and you have the option to start or stop the TimeSync Service.

Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	Abou
Serve	ers			Pi A Las	rotocol: ddress: t Sync:		
	Add	Remove			Start	Service Service	



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SETTINGS TAB

The Settings Tab allows you to set where the application sends logging information to. By default this is the computer or servers own Event Log.

You can choose log to a file on the computer in a location that you specify and/or to syslog if your network has a syslog server.

You also have the ability to choose what type of messages are logged.

and the second division of	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	Abou
Loggi	ing						
To	o file:						
To To	o syslog:))			
V To	Event Log	3					
Log	ging Option	s					
	.og informat	tion messages] Log en	or messages			
	og warning	messages	Log tim	e changes			
1		, moodgoo 📖		i i i i i i i i i i i i i i i i i i i			
1	151 15						
1							
1							



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SETTING THE TIME TAB

The Setting the Time Tab allows you to configure the application to set the time as frequent of infrequent as required.

It also allows for you to set a maximum correction that the application is allowed to make should the time on the computer be incorrect.

The intervals parameter allows you to set the time intervals for the correction to be made every time the time is set.

Main	Settings	Setting th	e Time	Alerts	Informatio	n NTP S	erver li	mport/Export	About
How	often the ti	me is <mark>s</mark> et							
Q-	$\tilde{\xi}=\tilde{\xi}$	9 Q	<i>p</i>	9 9	<u>8</u> - 8	9.9	2	1 minute	
Adjus	t time in int	ervals			Maxir	num correc	tion allow	wed	
0	ALMANKS	*141(41)*14	No ste	epping	Q	a externa		No Maxi	mum



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ALERTS TAB

The Alerts Tab allows you to configure the application to send an alert email to a specific individual if there is a loss of synchronisation. An SMTP enabled mail server is required for this.

Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	About
Ena	able Alerts						
-E-Ma	il Details —						
SMT	P Server:				Failures: 3		×
SMT	FP Email:	[
SM	TP User:	[
SM	TP Pass:						
To	Address:						
į	Vlessage:	Time synchronisati	on has b	een lost			



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INFORMATION TAB

The Information Tab displays the current information about the time source and the last correction made to the computer.

💋 TimeSync	
Main Settings Sett	ting the Time Alerts Information NTP Server Import/Export About
Statistics	
Last time corrected:	Never
Last correction:	•
Time Source:	Unknown
<u></u>	OK Cancel Apply Help



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NTP SERVER TAB

The NTP Server Tab allows you to make the computer or server the application is running on into an NTP Server of a Stratum Level set by you.

Main	Settings	Setting the	e Time	Alerts	Informa	ation	NTP S	erver	Impo	ort/Export	About
NTP	able NTP S Stratum	erver									
Ů-	A. (4	9 Ş	9	ġ.	9 - 8	3	Å	Ŋ.	9	<u>E</u>)	1
				ОК		Cance	el D	Ap	ply		Help



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IMPORT/EXPORT TAB

The Import/Export Tab allows you to back up your configuration as a security measure and restore your configuration should anything happen to the application or the computer/server.

Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	About
In Confi	nport iguration	You can import a TimeSync. This ca another computer	saved co an be us	onfiguration fro eful when rein	om <mark>an XML fi</mark> le Istalling or movi	created by ng TimeSync to	
E Confi	xport guration	You can export yo make it easier to b	our currer oackup	nt settings and	d time sources t	o an XML file to	C



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ABOUT TAB

The About Tab displays basic information about the application such as the version and build number. It also has links to the company website and the company support site should any support be required.

Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	Abou
	14	TimeSy	nc				
n	P	Version: 4.0.1.	7				
GAI	LEON	Copyright © 20 http://www.gal	12 Galleo sys.co.ul	on Systems Lto <u>k</u>			
		For support, ple	ase visit	our support si	te		
		http://galleonsi	upport.co	<u>m</u>			



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CONFIGURATION

MAIN TAB

The Main Tab is where you will need to add your time source for the service to use to set the time. You start this process by clicking the 'Add' button.

Mart	Settings	Setting the Ten	e Aiets	informations	NTP Sever	Inpot/Epot	About
Sev	815			Pro Adi Last	koosi dreas Sync:		
	Add	Penove			Star	t Service Service	

This will open a new little window for you to enter the details for the time source.

Time Sour	ce
Protocol:	Galleon MSF Radio
Address:	
Name:	

There are several options to choose from.







Time Sour	ce
Protocol:	Galleon MSF Radio
Address:	Galleon MSF Radio Galleon DCF Radio
Name:	Galleon WWVB Radio Galleon GPS Radio

- Galleon MSF Radio Used to synchronise the time from any of our MSF products (TS and AC product ranges)
- Galleon DCF Radio Used to synchronise the time from any of our DCF products (TS and AC product ranges)
- Galleon WWVB Radio Used to synchronise the time from any of our WWVB products (TS and AC product ranges)
- Galleon GPS Radio Used to synchronise the time from the TS-700-GPS and TS-900-GPS products
- Galleon GPS Used to synchronise the time from the remaining GPS products (TS and AC product ranges)
- NTP Server Used to synchronise the time from an NTP Server on the network (NTS product range) or an external NTP Server located over the internet

If you have selected a Radio or GPS time source then make sure it is plugged into the computer or server and the COM port should already be selected, if not then choose it from the list. All that remains is to give it a name and click 'OK'.

nine Sour	ce
Protocol:	Galleon MSF Radio
Address:	СОМЗ 🔹
Name:	Radio Clock

If you have selected the NTP Server time source, simply type in the internal IP address of the server or the external name address of the internet server. All that remains is to give it a name and click 'OK'.

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Time Sour	ce
Protocol:	NTP Server
Address:	192.168.0.150
Name:	NTS-6001-GPS

Time Sour	ce
Protocol:	NTP Server
Address:	0.pool.ntp.org
Name:	Internet Time Server

The Server will now be added to your list.

Main	Settings	Setting the Time	Alerts	Infom	nation	NTP S	erver	Import/E	Export A
Serve	rs								
NTS-	6001-GPS				Pro	otocol:			
					Ad	ldress:			
					Last	Sync:			
							Start	Service	
	Add	Remove					Stop	Service	

You can now start the service by clicking 'Start Service'. Click 'Apply' to apply and save the settings.





Main	Settings	Setting the Time	Aints	2-fam	ation	NTP	Server	Inpot/Expot	About
Serve									
1175	4001-025		_		Pa	stocal			
					N	idreas.			
					Lad	Sync			
					0				
-							Start	: Service	
	A05	Renove					See	Service	

Once started, the service will start using the time source to synchronise and ascertain the time.

Han	Settings	Setting the Ter	Hertis	2-form	ation NTP	Server	inpot/Expot
Serve	**				-		-
415	1681 985				Protocol	: NIP	Server
					Address	: 192.	168.0.150
					Last Sync	:	
					5510		
						(Day)	t Sanina
-		(Breeze	i i		_		C CHER WILLING
	A00	PS#INOV#				Sin	p Service

Once the time source has synchronised and the application has retrieved the time, the information will be displayed.





M TimeSync	
Main Settings Setting the Time Alerts Inform	ation NTP Server Import/Export About
Servers	Protocol: NTP Server
	Address: 192.168.0.150
	Last Sync: Thu Jan 10 14:35:29 2013
	Start Service
Add Remove	Stop Service
ОК	Cancel Apply Help
you need to remove a time source at any tir	ne, click the 'Remove' button.
you need to remove a time source at any tir	ne, click the 'Remove' button.
you need to remove a time source at any tir	ne, click the 'Remove' button.
you need to remove a time source at any tir	ation NTP Server Import Export About
f you need to remove a time source at any tir	ation NTP Server Import Export About Protocol NTP Server Address 192 192 0 150
you need to remove a time source at any tir	ation NTP Server Import Export About Protocol NTP Server Address 192 198 0 150 Last Sync: Thu Jan 10 14 35 25 2013
F you need to remove a time source at any tir	ne, click the 'Remove' button.
f you need to remove a time source at any tir	ne, click the 'Remove' button.
f you need to remove a time source at any tir	ne, click the 'Remove' button.
F you need to remove a time source at any tir	ne, click the 'Remove' button.

This will open up a little pop-up, checking that you wish to complete this action. Clicking 'Yes' will complete the action and clicking 'No' will cancel the action.



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SETTINGS TAB

The Settings Tab is where you choose what messages to log and where to log them to. The Event Log is selected by default.

Main	Settings	Setting the Time	Alerts	Information	NTP Server	Import/Export	About
Loggi	ng						
To 📃	o file:						
T To	syslog:						
To To	Event Loc	1					
	ning Option						
Eug	an information	3 Hon moore					
	DO INIONNA	uon messages	j Log en	or messages			
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	a second a second s					
	.og warning	messages	Log tim	ne changes			
	.og warning	messages	Log tim	ie changes			
	.og warning	messages 👘] Log tim	ne changes			
<u> </u>	.og warning	messages 🛛] Log tim	ie changes			

To log to file, check the corresponding box and choose a location for the file to go.

V To file:	C:\Users\stuart.thomas	son\Desktop\test4	
To Ever	Log		
Logging Or	lons	Los and statements	
E Leg we	ing messages	Log time changes	

To log to syslog, check the corresponding box and enter the IP address of the syslog server.





Logging	
To file: CNUsers'atuat th	omason'/Desktop/deat k
To syslog: 192.168.1.10	
😿 To Event Log	
Logging Options	
🗐 Log information messages	E Log error messages
E Log warning messages	E Log time changes

Select which type of message you would like to log to each destination by checking the corresponding boxes.

To file	C:\Uses\utuet.th	omason/ Desktop/d	ed i	
🗹 To nynkog	192,168.1.10			
I To Event	Log			
Logging Op	tions mation messages	🔽 Log error mes	sages	
Log war	ning messages	Log time cha	nges	
	1031 3723	04.07 - 26 - 3		

Clicking the 'Apply' button saves these settings.

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SETTING THE TIME TAB

The Setting the Time Tab is where you adjust the frequency that the time is set on your computer as well as the maximum correction the application is allowed to make and the intervals at which the application can make any corrections.

Main Settings Setting the Time A	Nerts Information NTP Server Import/Export Abo
How often the time is set	
D	
* • • • • • • •	1 minute
Adjust time in intervals	Maximum correction allowed
No stepp	bing No Maximum
	OK Cancel Apply Help
requercy can be set at one of	the following:
1 minute	• 2 hours
2 minutes	6 hours
5 minutes	 12 hours
10 minutes	• 1 day
15 minutes	• 1 week
30 minutes	• 2 weeks
1 hour	• 4 weeks
adjustment intervals can be set	t to one of the following:
No stepping	• 50 milliseconds
1 millisecond	 75 milliseconds
2 milliseconds	• 100 milliseconds
5 milliseconds	• 250 milliseconds
10 milliseconds	• 500 milliseconds
25 milliseconds	1 second
naximum correction can be set	t to one of the following:
mumixem on	• 5 seconds
10 millisocondo	• • • • • • • • • • • • • • • • • • • •
10 milliseconds	
10 milliseconds 20 milliseconds	 15 seconds 1 minuto
10 milliseconds 20 milliseconds 50 milliseconds	 10 seconds 15 seconds 1 minute 2 minutes
10 milliseconds 20 milliseconds 50 milliseconds 100 milliseconds	 10 seconds 15 seconds 1 minute 2 minutes 5 minutes
10 milliseconds 20 milliseconds 50 milliseconds 100 milliseconds 200 milliseconds	 10 seconds 15 seconds 1 minute 2 minutes 5 minutes 10 minutes
10 milliseconds 20 milliseconds 50 milliseconds 100 milliseconds 200 milliseconds 500 milliseconds	 15 seconds 15 seconds 1 minute 2 minutes 5 minutes 10 minutes 30 minutes

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An example of this is if the time is wrong on your computer by 22 minutes, this is within a maximum correction of 30 minutes, and can be adjusted at intervals of 1 second when the time is set every minute.

The intervals setting is there for time sensitive systems that would crash (or similar) if the time changed too much in one adjustment. Most other scenarios would be perfectly fine with no stepping set.



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ALERTS TAB

The Alerts Tab is where you set the application to email an individual when a loss of synchronisation occurs. SMTP must be enabled on the email server that you wish to use.

This is disabled by default, but can be enabled by checking the box at the top of the tab.

Main	Settings	Setting the Time	Alerts	Information	NTP Serv	er inpot/	Expot Abou
🔽 Enat	ole Alerts						
E-Mail	Details						
SMTP	Server.				Failures:	3	•
SMT	Enal:						
SMT	P User:						
SMT	P Pase:						
To A	ddress.						
M	nanager	Time synchronisa	fion has b	een kod			

Start entering the information required with the SMTP Server address first.

Main Setting	s Setting the Time Alerts Information	on NTP Server Import/Expo	ot
Enable Alet			
E-Mai Detais			
SMTP Server:	192.168.1.4	Failures: 3	
SMTP Email:			
SMTP User			
SMTP Pase			
To Athens			
	The sector is the back of the		
101041010124_04	Tierses agencommunications these Depends Root		

Enter the email address of the user it is to be sent from.

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Main Settings	Setting the Time Alerts Informat	tion NTP Sen	er inpot/Espot	Abou
Z Enable Alerta				
E-Mai Detais				
SMTP Server:	192.168.1.4	Failures:	3	٠
SMTP Email:	stuart.thomason@galleonmail.com			
SMTP User:				
SMTP Pase				
To Address				
Message	Time synchronisation has been loaf			

Enter the username for that account.

Main	Settings	Setting the Ten	e Alerta	Information	NTP Sen	eer inpot	Abot Abo
IZ Enab	le Aletta						
E-Mail (Details						
SMTP	Server.	192.168.1.4			Failures:	3	
SMTP	Email:	dust honason@galeonnal.com		nail.com			
SMTR	0 User:	stuart.thomason					
SMT	Pass						
To A	Adress:						
Me	anage:	Time synchronia	ation has I	been koel			

Enter the password for that account.

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Main	Settings	Setting the Time	Alerts	Information.	NTP Ser	i der	Inpot/Expot	Abou
iz in	shie Alets							
E-Ma	i Details							
SMT	P Server:	192.168.1.4			Failures:	3		•
SMT	IP Enal:	duat thomason@g	pailiecorum	al con				
SM	TP User:	duat thomason						
SM	TP Pass:							
To	Address	(
	Annage:	Time synchronisation	on has b	een kod				

Enter the address the email will be sent to.

Main Se	ntir qu	Setting the Time	Alerta	Reformation	NTP Ser	ver inpot/	Geport Abox
IZ Enable	Aints						
E-Mai De	tals						
SMTP Se	ever.	192.168.1.4			Failures	3	
SMTP (inal:	stuat thomason@galeormal.com		mail.com			
SMTP	liter:	duat Ponason					
SMTP	Pase	-					
To Add	lress:	support@galleonm	ail.com				
Mess	iage:	Time synchronisation	on has b	icen ket			
				_			~

You can leave in the default message or customise it yourself.

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Main Settings	Setting the Time Alefs Information	an NTP Sen	er Inpot/Espot	Abou
Enable Alerta				
E-Mail Details				
SMTP Server	182.168.1.4	Failures:	3	•
SMTP Email:	duat thomason@galeormal.com			
SMTP User:	duat thomason			
SMTP Pase	_			
To Address	support@paleormal.com			
Message:	Time synchronisation has been lost			

Select the number of failures allowed before the email is sent.

Man Settings	Setting the Time Riefs Information	an INTP Serv	er inpot/Espot	Abou
🗷 Enable Aleta				
E-Mai Details		_		
SMTP Server:	192 168 1.4	Failures:	8	-
SMTP Enal:	stuat Ponason@galeonnal.com		1	
SMTP User:	duat Ponason		5	
SMTP Pass	-		10	
To Address	support@galeormal.com			
Message	Time synchronisation has been lost			

Once you are happy with the configuration, click the 'Apply' button to save the changes.





Main	Settings	Setting the Time	Alerts	Information	NTP Serv	er in	post/Expost	Abou
iz fre	die Aints							
E-Ma	Details							
SMT	Server:	192 168 1.4			Failures:	1		•
SMT	P Enal:	duat Ponason@	palleonn	al.com				
SM	TP User:	duat thomason						
SM	TP Pase							
Te	Address	Napon Egaleore	al com					
	lessage	Time synchronisation	on has b	een kut				

Your alerts are now set up so that you are alerted as soon as something goes wrong.

Enable Alerts			
– E-Mail Details –			
SMTP Server:	192.168.1.4	Failures:	1
SMTP Email:	stuart.thomason@galleonmail.com		
SMTP User:	stuart.thomason		
SMTP Pass:			
To Address:	support@galleonmail.com		
Message:	Time synchronisation has been lost		
	ОК С	ancel	Apply

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NTP SERVER TAB

The NTP Server Tab is where you can set the computer or server to "act" like an NTP Server and allow NTP requests.

This is disabled by default, but can be enabled by checking the box at the top of the tab.

Man	Setter	en la	Settin ver	y the	Terre	Aierts	formati	0m 1	NTP 1	lever	lings	ot.Ex	bot	Rod
NTP S	hen.m													
9														1

Set the Stratum Level you would like the computer to be equivalent to.

18	Main	Settings	Setter	a the	Time	Aints	1	pmat	ion	NTP 5	ever	impo	nt/Export	Abo
	E End	ble NTP 5	ierver											
11	NTP S	Stratum												
Ш	-	0	G.	10	17	77	5	33	14	1	10	G.	<i>U</i> ()	2
Ш														
ll														
						04		-					7	MACK!
						OK		0	110		1	iiiii		1966

Finally, click the 'Apply' button to save the changes.

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Main	Settings	Setting the	e Tine	Aietts	2 dam	alian	NTP 5	e.ne.	Inpo	e/Equi	E Abou
NTP	sble NTP 5 Stratum	ierver									
	V										2

Your computer or server will now "act" like an NTP Server and accept NTP requests.



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This can be confirmed by using an NTP checking tool on another computer on the network.

GAL					
Mode:	3 - Client				
Leap Indicator:	0 - No Warning				
Stratum:	2 - Secondary Reference				
Version Number:	3				
Poll Interval:	64				
Precision:	4.52312848583266E+74				
Root Delay:	0				
Root Dispersion:	0				
Reference ID:	71.80.83.0 (71.80.83.0)				
Reference Timestamp:	04/01/2013 16:21:08				
Originate Timestamp:	04/01/2013 16:21:37				
Receive Timestamp:	04/01/2013 16:21:37				
Transmit Timestamp:	04/01/2013 16:21:37				
Round Trip Delay:	90				
Local Clock Offset:	6				
NTP Server (Hostname o	r IP Address)				
192.168.1.10					

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IMPORT/EXPORT TAB

The Import/Export Tab allows you to make a backup of your configuration and the ability to restore your configuration should anything go wrong.

Clicking the 'Export' button opens up a window to select where the file should be saved to in order to back up your configuration.

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Clicking the 'Import' button opens up a window to select where the file should be retrieved from to restore your configuration.

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TECHNICAL SUPPORT

SUPPORT WEBSITE

Should you require any Technical Support on this product, please go to galleonsupport.com where you can find access to the Knowledgebase, for general information.

For any further questions please submit a ticket detailing the problems or technical issues you are having, and a member of the Technical Support Team will be available to support you. When submitting a ticket, please give as much information as possible.

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galleonsupport.com website with Knowledgebase and Support Ticket links.

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The Technical Support Knowledgebase.

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The Technical Support Ticket System.

WARRANTY AND MAINTENANCE

WARRANTY

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