

Cnario TM Suite 3.9.1 Installation Guide

November 2024

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Introduction

Cnario Suite is an all-in-one solution that allows content creation, editing, distribution, scheduling, monitoring, and control of an entire Digital Signage system - where one control station can support thousands of players and canvases. Cnario Suite consists of the following components:

- <u>Cnario Server</u> Our new Transfer Module Mechanism. The new mechanism is based on Client/Server approach. A new WCF service will be the communicator module that is responsible for transferring data to and from the Database. Three Services will be installed – DTS (Data Transfer Service), FHS (File Hashing Service), and TMS (Transfer Module Service).
- <u>Cnario Messenger</u> A comprehensive toolkit for content creation and management (CMS). It also provides full network administration including content distribution and monitoring.
- <u>Cnario Player</u> Is responsible for the playback engine operation and for the monitoring and controlling inputs sent to the Control Center application.
- <u>Chainmail Gateway</u> a server component, once installed, operates as a service, and enables unlimited scalability, redundancy and high efficiency of file transfer and caching.
 - <u>Chainmail Gateway Client –</u> a user interface tool for management and configuration of gateway instances, locally or remotely.





Cnario Suite Download

Please use the following links to download Cnario Suite 3.9.1 from YCD Download Center:

- <u>Cnario Server</u>
- <u>Cnario Messenger</u>
- Cnario Player
- <u>CM Gateway</u>
- <u>CM Gateway Client</u>

The Current Version is Cnario Suite 3.9.1 (build 453).

Cnario Suite 3.9.1 was developed and tested with Windows 10, Windows 11 and Windows Server (Cnario Server & Messenger, Cnario Player was not tested on a Windows Server) as the only supported operating systems and with hardware component that support DirectX 11.1 or newer.

If upgrading a Windows 7 or 10 installation or installing on a new machine, please contact support@ycdmultimedia.com with your specific version of windows for further details.





Cnario Suite Pre-Installation Requirements

For brand new installations and existing systems of the Cnario Server:

- Make sure you are running as Administrator with full permissions.
- Make sure you get the latest Windows updates installed (prior to Cnario SW installation).
- Make sure .Net 3.5 SP1 (includes 2.0 and 3.0) and the latest .Net is installed in Windows features (prior to Cnario SW installation).¹
- Make sure .Net 4.7.2 is installed
- Make sure HTTP activation feature is installed (prior to Cnario SW installation).²

👿 Windows Features	-		×
Turn Windows features on or off			?
To turn a feature on, select its check box. To turn a check box. A filled box means that only part of the	feature o feature i	off, clear s turned	its on.
 .NET Framework 3.5 (includes .NET 2.0 a Windows Communication Foundati Windows Communication Foundati Windows Communication Foundati .NET Framework 4.7 Advanced Services 	and 3.0) on HTTP on Non-I	Activatio HTTP Act	n tiva
ASP.NET 4.7			
HTTP Activation			
Message Queuing (MSMQ) Activ	/ation		
Named Pipe Activation			
TCP Activation			
TCP Port Sharing			<u>``</u>
			-
	ОК	Can	cel

- Make sure you get the latest GPU Driver updates installed (prior to Cnario SW installation).
- Make sure Windows firewall is turned off (during SW installation).
- Make sure that the Region & Language Settings on both Messenger and Server are identical³.
- If you are using Windows Server 2012 R2 OS, install Desktop Experience Features is mandatory prior to Cnario SW installation.
- Use Cnario Suite Installation Files (Cnario Server **must be installed** prior to Cnario Messenger).
- When setting up a single instance Messenger (CMS) station, begin with the Cnario Server installation, which will also install the SQL Database setup as well.
- When setting up a Player, only the Cnario Player installation file is required.
- Make sure all relevant Ports (8008, 8009, 8010 by default) are open to communication between the Server, Messengers, and Players.

³ Player Region & Language settings should preferably be identical – if multiple languages are required, all relevant language packs must be installed on the Server and Player PC's and for some languages Non-Unicode language must be defined locally on the player to properly present all characters.



¹ Only required when installing on a Windows Server OS.

² Only required when installing on a Windows Server OS.



 If using a Virtual Machine for Messenger, make sure full DirectX and Direct 3D elements are available, as well as assigned GPU. Otherwise, the Preview feature will be unavailable on Messenger.

For existing systems (SW update/upgrade):

- Backup Messenger and Server Tree.dat file.
- Backup existing SQL Database (using SQL Server Management Studio is recommended).
- Backup your Media folder, if the system is being migrated to a new hardware, make sure that the items in the Media folder retain the same file path.
- Upgrade all Players (Clients) first Before upgrading Server and Messenger (CMS).
- If necessary, you may send Player Upgrade Patch from Messenger to target Players to perform remote SW updated/upgrade, for more information please contact YCD support.

Notes:

 For specific user permissions and process privileges please refer to <u>'Cnario Products IT</u> <u>Requirements'</u> section.





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Installing Cnario Server

- Launch Cnario Server installation file, 'Cnario Server Setup 1.4.exe'. If the Prerequisites Wizard appears (see screenshot below), then it will proceed to install the prerequisites required for Cnario Server to operate. If this menu does not appear, then please proceed to step #3.
- 2. Click Next and follow the instructions that appear to install the required prerequisites.

next to a prerequisite to select it for	install or to skip it.	
lame	Version	Action
.NET Framework 4.5.2	Required: any. Found an accept	Skip
SQL Server Express 2012 SP1 x64	Required: 11.0 or higher. Found	Skip
Net 3.5 Installer	Required: 1.0.0 or higher. Foun	Install
Visual C++ 2008 SP1 x64 (MFC Se	Required: 30729.6161 or higher	Install
Visual C++ 2008 SP1 x86 (MFC Se	Required: 30729.6161 or higher	Skip
Visual C++ 2010 SP1 x86 (MFC Se	Required: 40219.325 or higher	Skip
Visual C++ 2010 SP1 x64 (MFC Se	Required: 40219.325 or higher	Skip
Visual C++ Redistributable for Vis	Required: 11.0.61030 or higher	Install
Visual C++ Redistributable for Vis	Required: 11.0.61030 or higher	Install
Visual C++ Redistributable for Vis	Required: 12.0.21005 or higher	Install
Visual C++ Redistributable for Vis	Required: 12.0.21005 or higher	Install

- 3. The Prerequisites Wizard will check for missing applications on the server OS prior to Server installation.
- 4. If SQL Server needs to be installed and you are unfamiliar with the process, please contact your IT administrator.⁴
- 5. Make sure to click on OK or Finish on all menus. The Cnario Server installation will continue after the Prerequisites Wizard has completed.

⁴ If SQL Server is remotely installed, "SQLCMD" utility is required to be installed or present (as part of other Microsoft utilities like SQL Management Studio) on server machine.





6. The next dialogue box describes the features that will be installed during this process. Go ahead and click Next when ready.



- 7. Next, choose **Windows Authentication** or specify the credentials that will be used to log into the SQL database.
- 8. In **Server Name**, enter the name of the SQL instance. Click on 'Test Connection' to test connectivity to the SQL database. If the connection is unsuccessful, double check the Server Name. See notes for additional information.

		×		×
UCD	Cnario Server Version 3.9.0 (build 615)		ycd	Cnario Server Version 3.8.5 (build 448)
Database Setti	ngs		Database Setti	ings
Please enter the d	latabase settings below	n an	Please enter the o	database settings below
Use Windows A	uthentication		✓ Use Windows /	Authentication
Server Name	\sqlexpress		Server Name	(local)
Login			Login	
Password			Password	
	Test Connection			Test Connection Connection Result ×
				Connection Succeeded
Cancel	Back N	lext	Cancel	©K <u>Dack</u> <u>Next</u>

Notes:

- If the SQL database server is installed locally (on the same machine as the Cnario Server), leave the default Server Name: (local)\sqlexpress or (local), depending on how the SQL Server instance was named.
- If the SQL database is installed on another computer, replace "(local)" with the IP address of the other computer. For example, replace "(local)\sqlexpress" with "150.50.60.70\sqlexpress".
- Do not proceed until you have a successful connection test. Contact your IT administrator for further assistance.





9. If you would like the Cnario Server to send you notifications and alerts, add applicable SMTP settings.⁵

			x
	dia	Cnario Server Version 3.8.5 (build	448)
Email Ad	dress		
Email addr	ess		
notification	n@ycdmutime	edia.com	
SMTP setti	ngs		
Host:			
Port:			
User:			
Password			
1 433 WOTU.			
Cancel		<u>B</u> ack	Next
		© 2010 VCD	Multimodia Inc.
		© 2019 YCD	wulumedia Inc.

10. For the Services Account Credentials, YCD recommends using **Local System**. If you think you should be using a specific user, choose **User** and enter the appropriate credentials. If you are uncertain which to use, choose Local System. For **Local System**, leave Login and Password fields empty.



- 11. Choose Next and the installation will begin. When it has completed, click on Finish, and move on to Installing Cnario Messenger.
- 12. Ready to Install

⁵ At this point in time, SSL\TLS connection is not possible to define.







13. Upgrade Step: DB Conversion Process

The conversion process handles the conversion of database objects to fit the new Cnario architecture.

This process may take some time.

In case the credentials have changed, then the conversion process will not start until the credentials will be inserted to the following window "Cnario admin credentials":

The default user credentials are user: "Admin" (case sensitive capital A) password: "fastfast" In case the credentials remained the same as the above then the next step is the conversion process:

Converting - DO NOT close	- 1	
10/11/2020 12:42:37 PM == Total windows: 15	~	
10/11/2020 12:42:37 PM == Layout conversion succeeded		
10/11/2020 12:42:38 PM ==		
10/11/2020 12:42:38 PM == LayoutName: Today Sont With HTMI		
10/11/2020 12:42:38 PM == Total windows: 6		
10/11/2020 12:42:38 PM == Layout conversion succeeded		
10/11/2020 12:42:39 PM ==		
10/11/2020 12:42:39 PM == Layout1D: 39		
10/11/2020 12:42:39 PM == Layourvame: Today Spot Content 10/11/2020 12:42:39 PM == Total windows: 10		
10/11/2020 12:42:39 PM == Lavout conversion succeeded		
10/11/2020 12:42:41 PM ==		
10/11/2020 12:42:41 PM == LayoutID: 40		
10/11/2020 12:42:41 PM == Layout Name: New Layout		
10/11/2020 12:42:41 PM == 10tal Windows: 3 10/11/2020 12:42:41 PM == 1 avait conversion successfed		
10/11/2020 12:42:43 PM ==		
10/11/2020 12:42:43 PM == LayoutID: 48		
10/11/2020 12:42:43 PM == LayoutName: Stoplight Portrait		
10/11/2020 12:42:43 PM == lotal windows: 11		
10/11/2020 12:42:45 PM == Layout conversion succeeded		Cnario admin credentials — 🗆 🗙
10/11/2020 12:42:45 PM == LavoutID: 49		
10/11/2020 12:42:45 PM == LayoutName: Stoplight Portrait		
10/11/2020 12:42:45 PM == Total windows: 11		Admin user name Admin
10/11/2020 12:42:45 PM == Layout conversion succeeded		
10/11/2020 12:42:46 PM == Lavor#ID: 55		
10/11/2020 12:42:46 PM == LayoutName: SkyMax New		Password
10/11/2020 12:42:46 PM == Total windows: 6		
10/11/2020 12:42:46 PM == Layout conversion succeeded		
10/11/2020 12:42:46 PM ==		Login
TO THE DED TELED TO THE PERIOD OF		

14. Server Installation Done & Cnario Configuration Icon created on the desktop



15. Server Configuration

a. "Server URL": during the installation, the default value is set on "HTTP", however when selecting "HTTPS", Server services will communicate with Messenger over a secured HTTP





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tunnel. To complete the SSL configuration, the following manual settings should be made at the IIS level after the setup:

- i. Check for SSL certificate.
- ii. Add as https binding to Cnario Server on port for example 444 using your SSL certificate.
- iii. Add an inbound firewall rule for port 443 (or other).
- b. A separate configuration is required for Web Messenger inbound access.

16. You can now browse to http://localhost/CnarioMessenger or https://localhost/CnarioMessenger or https://localhost/cnari





Installing Cnario Messenger⁶

- 1. Double click the **Cnario Messenger** installer file, 'Cnario Messenger Setup 3.9.1.exe'.
- 2. Accept the EULA



- **3.** Select the appropriate destination folder for the installation, or simply leave at default and click **Next.**
 - a. YCD recommends using the default destination folder, however you can select another folder.



- 4. Select either the 64- or 32-bit version (based on your Windows version).
 - a. When using Messenger on a 64-Bit Windows PC, YCD recommends using 64 Bit installation

⁶ Cnario Messenger can only be installed if it has a Cnario Server and a MSSQL Server to connect to.







5. Server Connection – Enter the server connection parameters and test connection

		×
ycd	Cnario Messenger Version 3.9.0 (build 701)	
Server Conn	ection	
Please enter th parameters be	ne server connection low	
☑ Use Windov	vs Authentication	
Server Name	LT-SHLOMI\SQLEXPRESS	
Login		
Password		
	Test connection	
Cancel	Back Next	
	© 2020 YCD Multimedia Inc	•

6. Enter Data Transfer Service URL







7. Ready to Install



8. Finish Installation







Installing Cnario Player

- 1. Double click the Cnario Player installer file, 'Cnario Player Setup 3.9.1.exe'.
- 2. Click on Start to begin the installation process once you have agreed to the terms and conditions.



3. Select destination folder for installation. If you are unsure, leave it at the default, and click Next.



 Next, select either the 64- or 32-bit version (based on your Windows version). Unless instructed otherwise, leave the 'Launch application at logon' and 'Create Default Display Device' checked. Click Next to proceed.







- 5. Click on Install to begin the installation. Note that prerequisites will be automatically installed, long with system files, during this process.
- 6. Finish installation process.



Notes:

• The Gateway and its Client are to be installed on separate workstations\servers\VM. Installation instructions are trivial and configuration support is done on a per-case basis. For more information, please contact YCD Support.





Certifying Cnario

- The first time either Cnario Messenger or Cnario Player is opened, you will be asked for a certificate. Follow the instructions below to generate a request, send it to YCD support, and activate your software.
 - a. If you received a "*[CertPortal] New demo activations*" **email** from YCD support, you can follow the instructions there and simply run the Cnario application you installed (Messenger / Player) and continue to <u>configure Chainmail</u>
 - b. **Cert Portal**: If you are a user and have access to the <u>Cert Portal</u> please activate the certification using the following manual <u>link</u>

Login Page
Email
sbar@ycdmultimedia.com
Password
The password field is required.
Log in
If you dont have a user, you can request one by contacting us
© 2021 - YCD Cert Portal, build: 1.2.7639.28879
Theme
Icons provided by Icons8





2. Double click the Cnario application icon (Messenger / Player). The following dialog box will annear

appear.		
🔛 C-nario Certification (Build 132)	—	\times
C-nario Product name :		
Messenger3		
Unique IDs :		
LOWING PROPERTY AND A		
Computer Description :		
10.0 H. A.		
Create Certificate Request		
Load Signed Certificate		
ОК		

- 3. Enter a computer description (for example: My Company Messenger) and click the Create Certificate Request.
- 4. Choose where to save the certificate request file.
- 5. E-mail the certificate request file to YCD Support.
- 6. Wait for a response from YCD support with the signed certificate.
- 7. Save the signed certificate on to the machine that is running the Cnario application.
- 8. If the above dialog box does not appear, simply open the Cnario application again.
- 9. Click on Load Signed Certificate and choose the signed certificate file and hit Open to load the certificate.
- 10. A confirmation window will appear, if the certificate was not loaded successfully, please contact YCD Support. Otherwise click OK.
- 11. Congratulations! Your application is certified.
- 12. If both Messenger and Player are certified, please proceed to Configuring Chainmail.



Configuring Chainmail⁷

- 1. Open Cnario Player, then click Cancel or hit ESC to stop the countdown to playback
- 2. Click on Network -> Machine Config.
- 3. Under the Local Designation, note the name of your Player machine (for use in the next section: Configuring the Chainmail Tree).

						_	
Basic setup	Advanced	Logging	Clock	Watchdog	Round-Robin	File Manag	ement
Local Desig	gnation :						
AndrewPla	yer						
Tree File La	cation						
C:\Users\u	ser\AppData	\Roaming)	tree.dat				
D	landara I						
base Fort i	wumber :	8008	÷				
Media Dire	ctories						
C·\Llsers\	ser\AnnData	Roaming	Chainm	ail-Data\			
C:\Users\L	iser\AppData	Roaming	Chainm	ail-Data∖			
C. WOBERS L	isel vibbioard	rhoaming	Cridinin	dii-L/dtd \			
c:\temp\							
c:\temp\	Demons						
c:\temp\ Add	Remove]
c:\temp\ Add	Remove]
c:\temp\ Add	Remove						1
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c:\temp\ Add	Remove						
c:\temp\ Add	Remove						

⁷ If you upgraded a Cnario 3.8 or earlier version, an automatic upgrade of the "Chainmail Tree" and a conversion of the old XML files onto an SQLite file is initiated automatically on the first run of the Cnario application.





Configuring the Chainmail Tree

1. In CnarioConfiguration, go to Tree Edit



Salabado Hotmont Hotmodalono o	5080
ADDomainPassword	
ADDomainQuery	(&(ObjectCategory=user)(memberof=CN=CnarioMessenger,CN=u
ADDomainUser	
apiUrl	http://LT-SHLOMI/CnarioWebApi
CollectReportsTimerIntervalSec	60
DateFormat	US
DebugLog	false
DefferedSneakernetTimeoutMS	5000
DeleteReportTables	False
DeleteTransferFiles	True
DeleteTransferTables	True
DeviceRulesPath	TransferFiles\DeviceRules
MaintenanceThreadIntervalSec	60
ObjectLockSecondsInterval	60
refreshTokenTimeoutInSecs	86400
RetentionInDaysOldUnused	10
RetentionInDaysReportData	30
RetentionInDaysTransferData	30
tokenTimeoutInSecs	600
UploadTempPath	Temp\
UserPermissionsMode	Mixed

- 2. Click on Add Node, and a new node will be created. Select this node, then under Node Name enter the name of your Messenger machine.
- 3. Select the **IP address** tab, then enter the IP address of your **Messenger** machine.
- 4. Repeat steps 2 and 3 for your **Player** machine.
- 5. Select the **Server** node, then click on the **IP address**, and enter the IP of your server machine. Note, if your **Messenger** and **Server** are installed on the same machine, enter the same IP address for both nodes.
- 6. While the Messenger node is selected, click on the **Message Links** tab.
- 7. Under **Node to link**, select the Server node, then click on **Add Message Link**
- 8. While the Message Links tab is selected, select the Server node
- 9. Under Node to link, select the Player node, then click on Add Message Link
- 10. Select the **Messenger** node once more, then click on the **File Links** tab
- 11. Under Node to Link select the Server node, then under Link Type select TCP outgoing, then click on Add File link
- 12. Select the **Server** node once more
- 13. Under Node to Link select the Player node, then under Link Type select TCP outgoing, then click on Add file link
- 14. Click on OK to continue and distribute your changes to the tree





🖳 Chainmail Ti	ree Editor		_3		×
Nodes : INUSMASTER INUSPLAYER MediaManager PanelDesigner		General Options IP Addresses Message Links File Links Spe Message links (links not initiated by this node are marked with IRUSPLAYER IRUSMASTER(')	red Limits RAS		_
Add Node	Delete Node	Node to link to Add	Message Link OK	Remov Message	e Link ancel





IT Requirements

User Account Policy

- User Rights Assignment/Adjust memory quotas for a process
 Purpose: Allows the applications to share the memory among them optimally
- User Rights Assignment/Debug Programs
 Purpose: Allows Cnario Watchdog to shut down and restart its peers
- User Rights Assignment/Increase Scheduling Priority *Purpose:* Allows CCCore.exe and Cnario Universal Player.exe to set the priority of their time-critical threads.
- User Rights Assignment/Profile Single Process
 Purpose: Allows CM Watchdog to log performance data
- User Rights Assignment/Profile System Performance Purpose: Allows CM Watchdog to log performance data
- User Rights Assignment/Shut down the system
 Purpose: Allows Watchdog to shut down the system restart it if restarting processes does not work
- User Rights Assignment/Create global objects
 Purpose: Allows CCCore.exe and Cnario Universal Player to create global objects required for flash playback under non-administrator user
- Firewall: Allow all processes listed under 'list of processes' below.

Network ports required

1. For Chainmail Communication:

8008- Message link between Master and Player 8009- File link from Master to Player (Forward file link) 8010- File link from Player to Master (Backward file link)

2. For Watchdog and broadcast Communication:

8111- For Watchdog itself 8112- Watchdog for Wolfpack (Used for Multi-Display)

3. Canvas Controller (where applicable):

8222 - 8223 Commands, TCP+UDP

8334 - Clock distribution, UDP

Windows Server

When installing a C-nario product on Windows Server Edition (2012 R2 and above):

- 1. Before commencing installation of the Cnario Product, ensure "Desktop Experience" Feature, "Microsoft.NET Framework" with all its versions and IIS 7 or later are installed on the server.
- 2. In case the DB installation fails due to missing component, make sure SQLCMD is installed. There is an option for remote Data Base installation for installing the Cnario Server. There





is a need to have SQLCMD installed for the database installation to take place.

If SQL Server or SQL Management Studio is already installed, there is no need for it since our softwa re includes it as part of the server installation.

Here is the link for the utility https://docs.microsoft.com/en-us/sql/tools/sqlcmdutility?view=sql-server-ver15

List of Processes (Case Sensitive)

- 1. WatchDog.exe
 - i. x64 (c:\program files (x86)\c-nario\c-nario Universal Player)
 - ii. x86 (c:\program files\c-nario\c-nario Universal Player)

2. CCCore.exe

- i. x64 (c:\program files\c-nario\c-nario Universal Player\CCCORE64)
- ii. x86 (c:\program files\c-nario\c-nario Universal Player\CCCORE)

3. C-nario Player.exe

- i. x64 (c:\program files (x86)\c-nario\c-nario Universal Player)
- ii. x86 (c:\program files\c-nario\c-nario Universal Player)
- 4. MFslave10.exe (MultiFlash player component)
 - i. x64 (C:\Program Files\C-nario\C-nario Universal Player\CCCore64\Plugins\MultiFlash\MFSlave10.exe)
 - ii. x86 (C:\Program Files (x86)\C-nario\C-nario Universal Player\CCCore\Plugins\MultiFlash\MFSlave10.exe)
- 5. Coherent (HTML5 renderer)
 - i. x64 (C:\Program Files\C-nario\C-nario Universal
 - Player\CCCore64\Plugins\CoherentPn\host\CoherentUI_Host.exe)
 - ii. X86 (C:\Program Files (x86)\C-nario\C-nario Universal Player\CCCore\Plugins\CoherentPn\host\CoherentUl_Host.exe)

Notes

Folder paths shown for C-nario Player. For Messenger, replace "\C-nario Universal Player\" with "\Messenger 3\".

List of Services

- 1. Cnario File Hashing Service.
- 2. Cnario Transfer Module Service.
- 3. Cnario Transfer Queue Manager Service.

List of Folders

Cnario applications require **full control** and **read/write access** to the following folders:

1. Tree.dat location:

i. Windows 10: C:\Users\<userName>\AppData\Roaming\tree.dat 2. Where AutoSystemSetter is being used:





- i. Windows 10: C:\ProgramData\
- 3. Chainmail folder:

i. Windows 10 (C:\Users\<userName>\AppData\Roaming\Chainmail-Data) 4. Cnario General Access Read and write Folders:

- i. %ProgramFiles%\C-nario
- ii. "%ProgramFiles% (x86)\C-nario"
- iii. "%ProgramFiles%\C-nario"
- iv. "%SystemDrive%\Temp"
- 5. Cnario products registry key locations:
 - i. X86 (HKEY_LOCAL_MACHINE\SOFTWARE\C-nario)
 - ii. X64 the path used for x86 AND path used for x64 (HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\C-nario)





YCD Support

Visit: <u>YCD Customer Portal</u> (Support Tickets & Solution Center)

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