



# **AMX UNIX / Linux Installation Guide**

**Version 2.4**

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## Preface

Naviga Transmit (AMX) makes it easy to add customized, real-time, rich media content to your website. From thousands of media sources, we bring today's top headlines, and more to your website.

## About This Manual

This manual is intended for AMX administrators responsible for the installation and verification of the software on a Linux (Red Hat/CentOS) operating system. AMPS is a TCP-based protocol used to deliver data over the Internet.

## Typographical Conventions

This manual uses the following typographical conventions:

- *install-dir* represents the directory chosen at time of installation.
- **Bold** is used for names the user can enter; for example, all command names and filenames.
- A fixed space font is used for examples. Where user input needs to be distinguished from program output, **bold** is used for user input.
- Nonprinting characters and keyboard characters are capitalized and appear as follows:  
<EOF>, <CTRL-G>.
- [] Brackets enclose optional items in format and syntax descriptions.
- | A vertical bar separates items in a list of choices.
- # at the beginning of a line signifies a command line prompt.

## Customer Support

If you have any problems with the software or documentation, please contact Naviga Customer Support via telephone or email as described below.

Support Location	Telephone	Email
Roseland, NJ, USA	+1 (973) 422-0800	datasupport@navigaglobal.com

# 1 Introduction

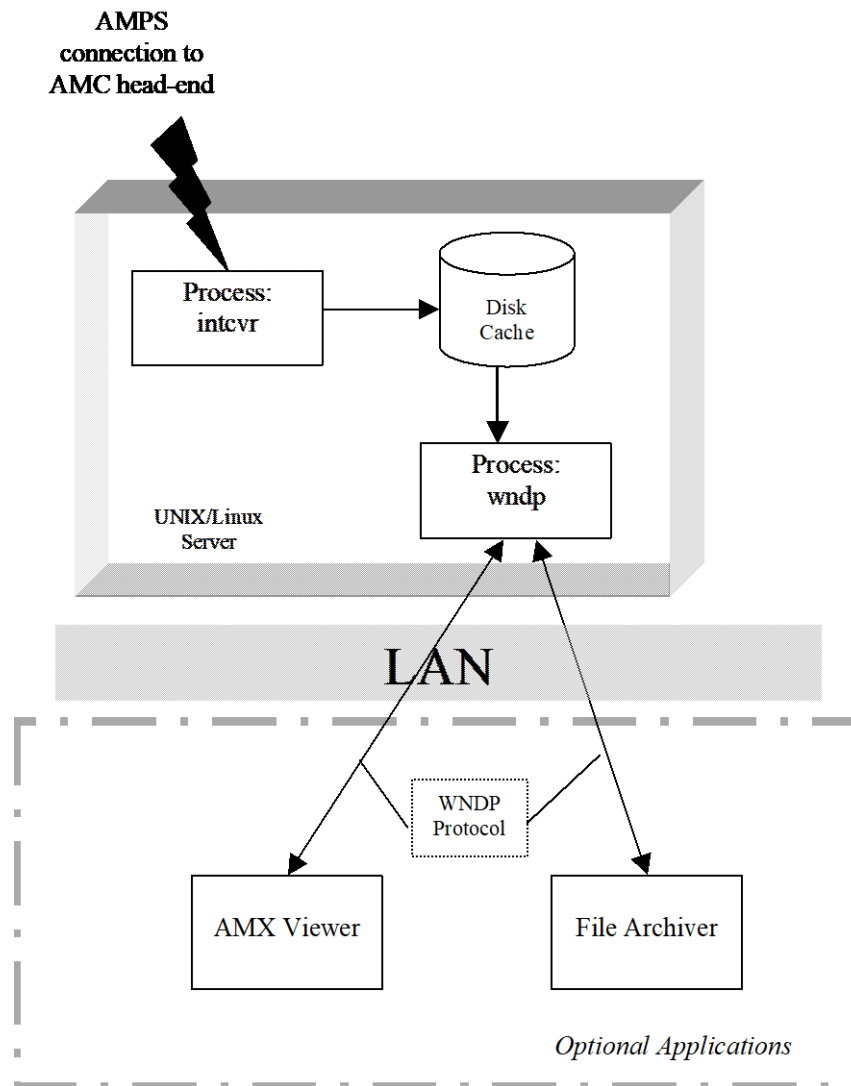
This manual describes the installation procedure for the Naviga Transmit (AMX) product for UNIX and Linux systems. It describes the preliminary steps necessary before you install the software. It also describes the basic installation process.

**Important: Please read through this entire manual before beginning the installation of the AMX software.**

## 2 Overview of Naviga AMX Package

The *AMX* software consists of:

- **AMX Interceiver.** This is a daemon (named `intcvr`) that maintains a connection between your system and the AMPS server at the Naviga location in Newark, NJ. This connection is used to transmit news and other information to your system.
- **WNDP Server.** This daemon (named `wndp`) caches the data (news) files created by the AMX Interceiver. It then provides a generic interface whereby one or more external programs (usually other daemons) can receive and process the news using the WNDP protocol.
- One or more applications that process the XMLNews stories and associated metadata files (RDF files).



**Figure 1 Overview of AMX Components**

As shown in Figure 1, the AMX WNDP Server accesses the disk cache of news and information that was received over the connection between the AMX Interceiver and the Naviga AMPS server. One or more applications may then receive the information from the AMX WNDP Server using the WNDP Protocol. These applications will usually be other daemons but may be any type of application that can establish a TCP connection to the WNDP Server. You may write these applications, or you may choose to use applications that are provided by Naviga (as described in this document). The File Archiver is an example of an application that connects to the AMX WNDP Server. It is described in more detail in this document. The news is transmitted to the attached applications using the Naviga implementation of the NITF XML format, plus additional metadata in a RDF format.

## 3 Installation Overview

The AMX installation consists of a single tar archive containing all the necessary components required for a full installation.

The tar archive will have the following naming convention:

**On Linux:**

`amx#.#-linux2.2.12-20.tar`

where:

`#.#` - the release version of the software  
`2.2.12-20` - the Linux kernel version

**Root access is required when running the installation program. It is recommended that all installations be performed from a directory other than /tmp. Information pertaining to both the new release being installed, as well as the prior release (when applicable) will be kept in sub-directories beneath the directory from which the installation is run. If /tmp was used, and the system was rebooted, all this information would be lost.**

### 3.1 Hardware Requirements

**Hardware Platform:** 32-bit or 64-bit Linux

**Operating System:**

For Linux, the AMX software was compiled based on the naming convention of the archive.

**Memory:** 256 MB

**Hard Drive Sizing:** 2.1 GB of hard disk space for software modules, documentation, and 7-day storage of AMX basic content, html pages, and indices (20-to-40 MB/day). Plan on up to 200-400 MB/day for content and indices as you add more news feeds.

**Disk Detailed:** (breakdown based on which components are installed)

- AMX Interceiver: 650 MB
- AMX Viewer: None (communicates to the WNDP Server and can run on a separate server)
- AMX File Archiver: 1200 MB (communicates to the WNDP Server and can run on a separate server)

Total Disk when installed on same server: 2.1 GB

**Internet:** Machine should have a permanent connection to the Internet. Note: AMPS uses port 443 (SSL – “Secure Socket Layer”). This port must be open in your firewall.

**DNS:** DNS Name Resolution must be fully operational for the machine to communicate back to the Naviga head-end.

**IMPORTANT LINUX NOTE:**

Make sure the slocate program is NOT configured to run. It might be configured via the `/etc/cron.daily/slocate.cron`. This program is the Security Enhanced version of the GNU Locate used to index new files as they are created into a local database. The large number of files created by AMX may cause serious system degradation. It is highly recommended that slocate NOT be run.

## 3.2 Installation components

The base level components of the tar archive are as follows:

- `AMX-UNIX-Linux-Install.doc` - This document.
- `README` - overview of installation package, licensing information, etc.
- `install` - AMX installation utility.
- `amx#.#-solaris2.x-sparc.install.tar.bz2` - actual AMX archive in compressed form.
- `bunzip2` - decompression utility used on all `*.bz2` archives.
- `CtrlFile` - installation control file required by the `install` utility.
- `optional#.#-solaris2.x-sparc.install.tar.bz2` - optional software archive in compressed form.

*Note: Under Linux, the .bz2 files will follow the naming convention outlined at the beginning of this section.*

The archive is intended to be installed from the directory in which it was unpacked. Using a different directory will only work if **all** files have been moved or copied.

## 3.3 Running the `install` script

The `install` script is used to perform the actual installation of software components on your system. This script requires root user permissions and does the following:

- Unpacks and creates a local installation tree for all software components in the chosen product.
- Sets correct permissions on all directories and files in the chosen release area.
- Saves a record of the installation in `/var/adm/amx/log/installation.log`. Please refer to the UNIX/Linux Administrator’s Guide for a detailed description of the `/var/adm/amx` directory tree.
- Displays information summarizing the products that have been installed.



- Restores prior release (use if installation was unsuccessful).
- Removes temporary installation files and the backup of the prior release (use if installation was successful).

Usage: install [product [-rollback|-clean]|-info]

-info	- Summarizes which products are installed
-rollback	- Restores prior release
-clean	- Removes temporary installation files and backup of prior release

## 4 Pre-installation data table

The following information will be required before proceeding with the installation. Please fill in all required information in the last column of the following table before starting:

Pre-installation data table.			
Item	Required/Optional	Description	Value <i>(fill this in)</i>
DNS	required	DNS Name Resolution is required for the AMX Interceiver to communicate back to the Naviga head-end. If DNS is not operational, installation can still take place. If you choose to start the release after installation, the AMX Interceiver will try forever to connect to the Naviga head-end until DNS is operational. No content will be received until DNS is restored.	( ) yes ( ) no
UNIX/Linux user account	required	For the initial installation, a valid administration account must be designated under which all AMX processes will be run. Typically, an administration account, such as nadmin, amxadmin etc. is used. <b>Do not attempt to give this account root privileges (UID of 0) as this will render the AMX system inoperable. Please contact your system administrator.</b>	username:
Installation directory	required (for initial installation only)	A valid directory into which the software is to be installed. Please refer to the <b>Hardware Requirements</b> outlined above for disk space requirements. The installation will fail if there is not sufficient space.	full pathname:
dedicated mail server	optional	A local mail server can be specified for outgoing email notification of the status of the AMX Interceiver and the WNDP Server.	mail server:

Pre-installation data table.			
Item	Required/Optional	Description	Value <i>(fill this in)</i>
email account(s)	optional	<p>The AMX software can be configured to automatically generate an email message under certain conditions. There are typically three conditions that warrant an automatic email notification:</p> <ol style="list-style-type: none"> <li>1. daily status notification to monitor system health.</li> <li>2. fatal condition encountered - one or more processes are down.</li> <li>3. new software release has been dynamically received and should be installed at the earliest possible convenience.</li> </ol> <p>Up to 10 email address can be specified to receive each of these notification types.</p>	<ol style="list-style-type: none"> <li>1. daily status _____</li> <li>2. fatal condition _____</li> <li>3. new software _____</li> </ol>
AMX account info: 1. Username 2. Password 3. Account number	required	The username, password and account number were given to you by customer support or the Naviga website.	<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> </ol>
Proxy information 1. server 2. port number	optional	If your site configuration is using a proxy server, you must enter this information so that AMX can communicate back to the AMPS head-end.	<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> </ol>
Stock Delimiter	optional	Stock Delimiter specifies the character that should be used to separate the company ticker symbol from its stock exchange symbol in the companyCode field in the XML news.meta file. Files arrive with : as the delimiter. This substitution should be performed only if downstream applications (e.g., Microsoft Indexer) cannot handle the : delimiter.	
AmxViewer installation directory	optional	AmxViewer is a utility for displaying real-time information as it is being received. It is intended to be used as part of an administrator's console to verify that news is flowing over the Internet from the Naviga AMPS head-end	full pathname:

Pre-installation data table.			
Item	Required/Optional	Description	Value <i>(fill this in)</i>
		to the server on which the AMX Interceiver is installed. <i>This application can be installed remotely if desired.</i>	
File Archiver: 1. installation dir 2. user account 3. Stock Delimiter	optional	The AMX File Archiver is used to populate a disk-based archive typically used by front end applications to retrieve and view incoming media content. <i>This application can be installed remotely if desired. If a Stock Delimiter was chosen during installation of required components, you MUST choose the same delimiter here.</i>	1. 2. 3.

## 5 Installing AMX

Some components of AMX (e.g., the Interceiver) are required and others (e.g., the AMX File Archiver) are optional. In either case, three steps should be performed to ensure a successful installation:

1. Run the install script.
2. Verify that installed program(s) run.
3. Delete temporary and backup files.

We now outline these three steps for each AMX component.

### 5.1 Required components

**When installing the required components of AMX, a symbolic link called /nwsys will be created to point to the user-chosen installation directory. This link must exist for AMX to function properly and should never be deleted or modified.**

The following procedure unpacks and installs the required components of AMX. It is assumed that the AMX tar archive has already been downloaded to your server and the installation is being run under the root (superuser) account.

1. Verify DNS Name Resolution is operational. (It is important to note that Naviga reserves the right to change the existing IP address of this server in the future.)

```
# nslookup amps.acquiremedia.com
Server:  dns.server.com
Address:  x.x.x.x
```

```
Non-authoritative answer:
Name:    amps.acquiremedia.com
Address:  63.236.87.111
```

*Note: Sometimes the above command is successful even when DNS is not fully configured. In such a case, it is usually the /etc/nsswitch.conf file which is incorrect.*

For Linux: `/bin/ping amps.acquiremedia.com`

Confirm that you do not receive the message: “*unknown host amps.acquiremedia.com*”. It is acceptable if the ping times out with “*no answer from amps.acquiremedia.com*”. If DNS is not configured properly, the ping will immediately return with the unknown host error.

2. Verify archive exists.

**On Linux:**

```
# ls amx*
amx1.7-linux2.2.12-20.tar
```

3. Verify the architecture and OS version match that of the AMX tar archive via the **uname** command.

**On Linux:**

```
# uname -r
2.2.12-20smp
```

*(Note: The trailing smp may or may not appear.)*

4. Unpack the tar archive. This can be done in any directory on the server.

**On Linux:**

```
# tar xvf amx9.3.2-linuxCentOS-6-64bit.tar
./amx9.3.2-linuxCentOS-6-64bit/
./amx9.3.2-linuxCentOS-6-64bit/amx9.3.2-linuxCentOS-6-64bit.install.tar.bz2
./amx9.3.2-linuxCentOS-6-64bit/AMX-UNIX-Linux-Install.doc
./amx9.3.2-linuxCentOS-6-64bit/amxviewer9.3.2-linuxCentOS-6-
64bit.install.tar.bz2
./amx9.3.2-linuxCentOS-6-64bit/CtrlFile
./amx9.3.2-linuxCentOS-6-64bit/install
./amx9.3.2-linuxCentOS-6-64bit/INSTALL
./amx9.3.2-linuxCentOS-6-64bit/LICENSE
./amx9.3.2-linuxCentOS-6-64bit/README
```

5. Run the installation utility to unpack, decompress and install the software archive. *(Note: In the following examples, the /pool directory was chosen for illustration purposes only. There is no requirement that this directory exist in order to perform the installation. Also, if this is not the first AMX component being installed on the server, you will not be prompted for a valid user account to be the owner of the software about to be installed.)*

```
# ./install amx
```

```
* * * * *
*
*      Acquire Media Installation Utility      *
*      =====                               *
*
*      copyright (C) 2004 Acquire Media Corporation *
*
* * * * *
```

Would you like to view the README file? (y/n) n

```
*****
*** First time installation detected. ***
*****
```

You must choose a valid user account to be the owner of the software which is about to be installed. Typically, an administration account, such as nadmin, amxadmin etc. is used. If at this time

there is no account to use, please create one, or contact your system administrator. (Control-C to exit and try again later)

Please enter valid user account now: nadmin  
You have entered: 'nadmin' Is this correct? (y/n) y  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2

Beginning software installation for Acquire Media Transmit

Preparing installation work area...  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/upgrade  
Uncompressing amx9.3.2-linuxCentOS-6-64bit.install.tar.bz2  
Unpacking archive amx9.3.2-linuxCentOS-6-64bit.install.tar  
Cleaning rollback area...  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback  
Performing installation - Mon Aug 26 16:59:25 EDT 2019  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/bin  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/conf  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/conf/skel  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/conf/system  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/docs  
Creating /pool/install/amx9.3.2-linuxCentOS-6-64bit/amx9.3.2/rollback/etc

Proceeding with installation.

SUCCESS: File installation complete

Running 'chkhost '  
Local cfg OK: Server = njdev9 IP Addr = 10.10.40.58

Running 'mxp\_init '  
Verifying crontab: remove mxpstart entries if present

Running 'setup\_global\_cfg -amx'

Running 'setup\_email\_cfg '

Running 'setup\_mxp\_boot -update'  
Installing /etc/rc.d/init.d/amx.init

Shutdown link /etc/rc.d/rc0.d/K90amx is installed  
Startup link /etc/rc.d/rc3.d/S90amx is installed

Running 'setup\_mxp\_cfg '  
System (process) configuration file has been updated  
Email triggers already defined

This server does not have a valid AMX configuration file.  
You will be prompted for the necessary information to create this file.  
You will need the following information before proceeding:

1. AMX Username (supplied with installation package)
2. AMX Password (supplied with installation package)
3. AMX Account Number (supplied with installation package)

4. Proxy information if applicable
  - a. proxy name or IP address
  - b. proxy port number (default is 8080)
5. OPTIONAL - server to connect to

Please enter AMX user name: AMX\_user  
You have entered: 'AMX\_user' Is this correct? (y/n) y

Please enter AMX password: AMX\_passwd  
You have entered: 'AMX\_passwd' Is this correct? (y/n) y

Please enter AMX account number: 123456  
You have entered: '123456' Is this correct? (y/n) y

\*\*\*\*\*  
PLEASE NOTE THAT USERNAME AND PASSWORD ARE CASE SENSITIVE  
\*\*\*\*\*

The following information has been entered:

AMX Username:	AMX_user
AMX Password:	AMX_passwd
AMX account number:	123456

Are all of these items correct? (y/n) y

The default amps server is amps2.acquiremedia.com  
Would you like to change this? (y/n) n

Is a proxy going to be used? (y/n) n  
System (communication) configuration files have been installed

Running 'setup\_registry\_bin '  
Installing mxpopt in /var/adm/amx/bin  
Installing amxopt in /var/adm/amx/bin  
Installing mxp.profile in /var/adm/amx/bin  
Installing mxp.cshrc in /var/adm/amx/bin

Since this is the first installation of AMX you have  
the option to avoid starting the system at this point in time.  
If you choose this option now you can start the system later  
by using the appropriate startup utilities. Please consult  
the AMX Administrators Guide for instructions.

Would you like to start AMX now? (y/n) n  
AMX will NOT be started.

installation for AMX is now complete.  
Once this installation has been verified as specified in the  
Installation Guide, please run ./install amx -clean

=====  
For a record of this installation, please refer to:  
/var/adm/amx/log/installation.log  
-----



6. Verify installation using the account specified during the install. (*Note: In the following example, the path variable for nadmin was modified to contain /nwsys/release/bin via the mxp.profile startup information – steps 6a and b.*)

```
# su - nadmin    (change from user root to user nadmin)
```

```
Sun Microsystems Inc.    SunOS 5.7    Generic    October 1998    (Solaris only)
```

6a. Add one of the following lines to your startup file (.cshrc, .bashrc etc):

```
source /var/adm/amx/bin/mxp.cshrc    (for csh, tcsh)
. /var/adm/amx/bin/mxp.profile        (for bash)
```

6b. Update your environment with new settings:

```
{nadmin} > source your_startup_file
```

```
{nadmin} > amxstatus    (verify all processes are up and running)
```

```
Release: 1.7
```

```

nlogd          running          3125

wndp            running          3176
wndpget        running          3177
emaild         running          3133

intcvr         running          3145 3148
                                NZ:UP
```

```
**** All processes are up and running ****
```

```
{nadmin} > windiag -n 2    (check Interceiver to verify byte counts in data section growing)
```

```
Connection:
```

```
State:                                Online
Runtime:                             0h 2m 35s
* Reconnects Today:                   0
Reconnects (0 day avg):               n/a
Last Disconnect GMT:                  n/a
Last Outage Duration:                 0h 0m 0s
* Total Outage Today:                  0h 0m 0s
* Average Outage Today:                n/a
Last Ping Time GMT:                   n/a
Last Ping Delay (ms):                 0
Avg Ping Delay (ms):                  0
* Max Ping Delay Today (ms):           0
Missed Sequences:                     0
```

```
Data:
```

```
* Bytes Recieved Today:                1148317
* Bytes Sent Today:                    3443
* Packets Received Today:               1343
* Packets Sent Today:                   172
Received Bytes per Sec (0 day avg):    0
Sent Bytes per Sec (0 day avg):         0
Last Data Interval:                    0h 0m 0s
```

```
Last Data Received GMT:          05-May-00  16:22:04
* Max Data Interval Today:      0h  0m  8s
ReXmits from Server:           0
ReXmits to Server:             0
```

**Connection:**

```
State:                          Online
Runtime:                        0h  2m 45s
* Reconnects Today:             0
Reconnects (0 day avg):         n/a
Last Disconnect GMT:            n/a
Last Outage Duration:           0h  0m  0s
* Total Outage Today:           0h  0m  0s
* Average Outage Today:         n/a
Last Ping Time GMT:             n/a
Last Ping Delay (ms):           0
Avg Ping Delay (ms):            0
* Max Ping Delay Today (ms):    0
Missed Sequences:               0
```

**Data:**

```
* Bytes Recieved Today:         1214403
* Bytes Sent Today:             3683
* Packets Received Today:       1439
* Packets Sent Today:           184
Received Bytes per Sec (0 day avg): 0
Sent Bytes per Sec (0 day avg):  0
Last Data Interval:             0h  0m  0s
Last Data Received GMT:         05-May-00  16:22:14
* Max Data Interval Today:      0h  0m  8s
ReXmits from Server:           0
ReXmits to Server:             0
```

{nadmin} > **exit** (*become root again*)

7. Remove temporary files. (Note: if you are not currently in the same directory that you started in, please return to there now.)

# **./install amx -clean**

```
* * * * *
*
*      Acquire Media Installation Utility      *
*      =====                               *
*
*      copyright (C) 2002 Acquire Media        *
*
* * * * *
```

Are you sure you want to remove temporary files for AMX? (y/n) **y**

Cleaning amx

Installation files for AMX (release 1.7) have been removed.

#

## 5.2 Optional components

Optional software components do not have to be installed on the same server as AMX. When choosing to install optional software remotely, the install utility, `CtrlFile` and `optional#.#...bz2` must be placed in the same directory on the remote server for proper installation.

### 5.2.1 AmxViewer

1. Run the installation utility to unpack, decompress and install the AmxViewer component archive. *Note: If News View is the first AMX component being installed on the server, you will be prompted for a valid user account to be the owner of the software about to be installed.*

```
# ./install amxviewer
```

```
* * * * *
*
*      Acquire Media Installation Utility      *
*      =====                               *
*
*      copyright (C) 2002 Acquire Media        *
*
* * * * *
```

```
Would you like to view the README file? (y/n) n
```

```
*****
*** First time installation detected. ***
*****
```

You must choose a valid directory where the software will be installed. The directory MUST reside locally on this server (i.e. not NFS mounted from any other server). Please consult the installation guide for disk space requirements. INSTALLATION WILL FAIL WITHOUT SUFFICIENT SPACE.

```
Please enter installation directory: [def: /pool/amx] <Enter>
You have entered: '/pool/amx' Is this correct? (y/n) y
Creating /pool/amx/tmp
Creating /pool/amx/tmp/xfer
Creating /pool/install/amxviewer1.7
```

```
Beginning software installation for AmxViewer
```

```
Cleaning installation work area...
Creating /pool/install/amxviewer1.7/upgrade
Uncompressing amxviewer1.7-solaris2.6-sparc.install.tar.bz2
Unpacking archive amxviewer1.7-solaris2.6-sparc.install.tar
Cleaning rollback area...
Creating /pool/install/amxviewer1.7/rollback
Performing installation - Fri May  5 12:29:19 EDT 2000
Creating /pool/amx/programs
```

```
Creating /pool/install/amxviewer1.7/rollback/programs
Creating /pool/amx/programs/cfg
Creating /pool/install/amxviewer1.7/rollback/programs/cfg
Creating /pool/amx/source
Creating /pool/install/amxviewer1.7/rollback/source
Creating /pool/amx/source/src
Creating /pool/install/amxviewer1.7/rollback/source/src
Creating /pool/amx/source/include
Creating /pool/install/amxviewer1.7/rollback/source/include
Creating /pool/amx/source/lib
Creating /pool/install/amxviewer1.7/rollback/source/lib
Creating /pool/amx/source/bin
Creating /pool/install/amxviewer1.7/rollback/source/bin
```

Proceeding with installation.

SUCCESS: File installation complete

Running '/pool/install/amxviewer1.Xm/upgrade/amxviewer\_init '  
AmxViewer system initialization complete.

installation for amxviewer is now complete.

Once this installation has been verified as specified in the  
Installation Guide, please run ./install amxviewer -clean

```
=====
For a record of this installation, please refer to:
/var/adm/amx/log/installation.log
-----
```

2. Verify installation of AmxViewer component. *(Note: In the following example, the path variable for nadmin was modified to contain /var/adm/amx/bin via the mxp.profile startup information – steps 2a and b.)*

```
# su - nadmin (change from user root to user nadmin)
```

```
Sun Microsystems Inc.   SunOS 5.7   Generic   October 1998   (Solaris only)
```

**Steps 2a and 2b are only necessary if the AmxViewer component is being installed on a server other than the required AMX component.**

2a. Add one of the following line to your startup file (.cshrc, .bashrc etc):

```
source /var/adm/amx/bin/mxp.cshrc      (csh, tcsh)
. /var/adm/amx/bin/mxp.profile          (bash)
```

2b. Update your environment with new settings:

```
{nadmin} > source your_startup_file
```

```
{nadmin} > /pool/amx/programs/amxviewer (check incoming news content)
```

```
12:30 COMTEX__  USDA opening livestock market summary-May 4
12:30 COMTEX__  Iraq Accuses U.S. of Holding Oil-Sector Related Applications
12:30 COMTEX__  ExxonMobil and Agip Announce Venture in Gulf of Mexico
12:30 COMTEX__  Baseball: Las Vegas Major League Baseball Line
12:30 COMTEX__  Petroglyph Energy, Inc. Receives Proposal for Acquisition of
12:30 COMTEX__  American Life League: Florida Partial Birth Abortion Ban pas
```

```

12:30 COMTEX__ IDB Finances Power Project in Panama
12:30 COMTEX__ Boulder, Colo., Companies Offer Family-Friendly Amenities to
12:30 COMTEX__ S. Leone Former Rebel Leader Orders to Free UN Hostages
12:30 COMTEX__ National Abortion Federation Targets Christian Teens and Roc
12:30 COMTEX__ All American Announces First Quarter Results; Record-Breakin
12:30 COMTEX__ Minnesota Wild Signs First Player
12:30 COMTEX__ Baseball: Update - PIRATES 0, CARDINALS 1 Bottom - third inn
12:30 COMTEX__ Boulder, Colo., Companies Offer Family-Friendly Amenities to
^C (to stop the amxviewer program use <CTRL-C>)
{nadmin} > exit (become root again)

```

3. Remove temporary files. (Note: if you are not currently in the same directory that you started in, please return to there now.)

```
# ./install amxviewer -clean
```

```

* * * * *
*
*      Acquire Media Installation Utility      *
*      =====                               *
*
*      copyright (C) 2002 Acquire Media        *
*
* * * * *

```

```

Are you sure you want to remove temporary files for AmxViewer? (y/n) y
Cleaning amxviewer
Installation files for AmxViewer (release 1.7) have been removed.

```