

Cerify
Automated Video Content Verification System
Quick Start User Manual



071-2680-06

Tektronix

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Automated Video Content Verification System
Quick Start User Manual

This document supports software version 7.5 and above.

www.tektronix.com

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Tektronix

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Cerify Technical Support

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For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

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Environmental Considerations

Product End-of-Life Handling

Observe the following guidelines when recycling an instrument or component:

This section provides information about the environmental impact of the product.

Equipment Recycling

Production of this equipment required the extraction and use of natural resources. The equipment may contain substances that could be harmful to the environment or human health if improperly handled at the product's end of life. In order to avoid release of such substances into the environment and to reduce the use of natural resources, we encourage you to recycle this product in an appropriate system that will ensure that most of the materials are reused or recycled appropriately.



This symbol indicates that this product complies with the applicable European Union requirements according to Directives 2002/96/EC and 2006/66/EC on waste electrical and electronic equipment (WEEE) and batteries. For information about recycling options, check the Support/Service section of the Tektronix Web site (www.tektronix.com).

Perchlorate Materials. This product contains one or more type CR lithium batteries. According to the state of California, CR lithium batteries are classified as perchlorate materials and require special handling. See www.dtsc.ca.gov/hazardouswaste/perchlorate for additional information.

Preface

The Cerify application is an automated system for testing compressed digital media. This manual provides installation instructions and a high-level operational overview of this product.

Product Description

The Cerify software checks file-based digital audio/video content in a consistent and configurable manner. Files can be checked for correct digital encoding and against baseband quality parameters. Cerify provides both broadcast and production operations with a fast, cost effective QC solution.

The Cerify system can be integrated with your existing infrastructure using the CeriTalk API to interface with asset management systems and provide a completely automated workflow. A Web-based user interface allows test results to be viewed from any network connected workstation.

System Requirements

Prerequisites

The system must meet the following hardware and software prerequisites:

Hardware Prerequisites. Cerify runs on a variety of PC hardware. Consequently, the choice of hardware is determined by performance and throughput requirements for your installation. This section recommends hardware configuration for some scenarios in which Cerify is typically used.

Cerify can be installed as either of the following two configurations on a given computer:

- **Single channel.** A single channel installation is one that is licensed to test a single media file at a time. Such installations are normally performed on a PC or a laptop computer and are suitable for situations where a low throughput is sufficient and performance is not critical.
- **Multichannel.** A typical multichannel installation of Cerify tests 4-8 media files at a time on a single unit. Due to the high throughput and performance requirements that are expected from such installations, it is recommended that server class hardware and operating systems be used in such cases.

In addition to the throughput required, the hardware requirements for such installations also depend heavily on the mode of operation that will be used. For more information on the modes of operation of Cerify, refer to the *Modes of Operation* section in the Cerify User Manual.

The general guidelines that should be followed when selecting hardware are:

- Processor: 3 GHz

Cerify is capable of using as many processor cores as available for improved processing performance. While the minimum required configuration is 2 cores per channel, for optimum performance, it is recommended to allocate between 4 and 6 processor cores per Cerify channel. It is also recommended that for best performance, you choose as much on-chip memory cache as possible.

NOTE. *Cerify is optimized for Intel processor architectures, and therefore it is recommended that you use an Intel based server platform.*

- Memory:

It is recommended to use a minimum of 4 GB of RAM per channel and an additional 4 GB for the operating system and the Cerify database. For optimum performance for 4 channels, the recommended memory therefore is: 4 x 4 GB (per channel) + 4 GB = 20 GB. When the expected load in Cerify is likely to be largely composed of huge media files, more memory per channel may be necessary.

- Hard disk drive: 100 GB x 3

For an enterprise installation, we recommend using a RAID on which to place the MS Windows and Cerify installation (including database) to achieve fault tolerance in case of disk failure. This logical drive should be at least 100 GB in size. For systems that are expected to support high levels of throughput, it is recommended that you have 500 GB of space on this logical drive.

The amount of additional storage you need depends on the mode of operation that applies to your installation, the average size of the files you will be processing, and the number of channels you will be running.

- Streaming mode

- Due to the minimal hard disk utilization when operating in the streaming mode, it is sufficient to provide a single dedicated hard disk of 100 GB in size as temporary storage for Cerify.

- Copying mode

- The minimum hard disk space provided must be greater than the average file size being processed multiplied by the number of channels. It is recommended that the temporary storage be RAID-ed for better performance.

Choose the optimal number of hard disks for your installation and the best RAID levels to use. For help in choosing the optimal number of hard disks for your installation and the best RAID levels to use, see the “Configuring Your Cerify Installation for Best Performance” section in the Cerify user manual.

- Network interface: 1 Gbit/s

You might use multiple network interfaces to improve available network bandwidth

- Integrated RAID controller

- A DVD drive (used for installing the software)

- A USB port for connecting the license dongle

- A license dongle (provided with the product)

- Redundant power supply

For more detailed specification of a validated enterprise PC platform, see “Commercial off-the-Shelf Recommendations” section under Appendix E: Configuring Your Cerify Installation of the Cerify user manual.

Cluster Installation

A cluster is a network of two or more units, which enables simultaneous processing of a greater number of files. The networked cluster contains a single Supervisor and one or more Media Test Units.

The Supervisor unit controls the cluster system. It hosts the database and the Web server, allowing multiple users to set up and view Jobs. It is responsible for locating the media files from the network, but delegates actual transfer and processing of these files to one or more Media Test Units. The Supervisor unit organizes and stores the resulting outputs. The Supervisor can also be configured to process the media files.

The Media Test Unit is responsible for processing of the digital media files in a cluster. It applies the user-specified tests and reports results the back to the Supervisor unit.

To set up a cluster, install Media Test Units and Supervisor on the respective nodes.

Clustering Requirements

- Two or more PCs with 64-bit Windows Server 2008 SE OS installed.
- Administrator privileges on all the machines on which the Cerify software will be installed.
- Meet the minimum hardware specifications.
- All the clustering PCs must be in the same network with correctly configured Static IP addresses.
- All of the PCs in the cluster should be able to route to each other. The Supervisor unit is given a network name that is recognized and resolved by all the Media Test Units.
- You must know the fully qualified name of the Supervisor unit and provide this when Media Test Units installer prompts for the name of the Supervisor unit.
- All the Media Test Units must reside on the same network as the Supervisor unit.
- If the Supervisor or Media Test Units have more than one network interfaces, it is better to bridge all the network interfaces together. For instructions on configuring the network bridge, refer to the *Configuring a Network Bridge* section.(See page 3.)
- Synchronization between all the units in cluster must be maintained. For example, use an NTP server to synchronize the units in a cluster.

Related Documentation

The following documents are available:

- Cerify Online Help (Tektronix part number, 076-0198-xx)
- Cerify Software User Manual (Tektronix part number, 077-0352-xx)
- Cerify Release Notes
- Cerify Third Party Software License Notice Document (Tektronix part number, 001-1513-xx)
- Read This First (Tektronix part number, 061-4355-xx)

Installation

Before Installation

Before installing the Cerify application, your PC must be correctly connected to your local network.

This allows the following:

- The Cerify application to test the files that are available on other machines on the network.
- Other machines to interact with Cerify automatically (for example, using CeriTalk automation clients, copying of report files to network locations, or using email).
- Multiple users to connect to the Cerify Web user interface from remote computers.

For the last two cases, you need to know the IP address or the network name of the machine that Cerify is installed on. Network settings on the PC are configured in the usual manner using Windows. If your machine is not properly configured or you do not know the name or IP address information, contact your system administrator.

Before installing the Cerify software, you should be aware of the following issues:

- Cerify software relies on a number of third-party software applications that are packaged and installed with it, such as JBoss and MySQL. If these applications are already available on the PC, you should remove them before attempting to install the Cerify software.
- The Cerify license server relies on Sentinel HASP (formerly Aladdin HASP SRM) drivers, which are installed and configured along with it. You should not use other applications that rely on HASP licenses along with Cerify on the same machine.
- Cerify uses a number of network services that are local to the host PC. These services can sometimes be blocked by personal firewall software, in which case an error message will be displayed when Cerify starts. In this situation, the firewall should either be configured to allow the service on the appropriate port, or be entirely disabled.
- The Cerify application should be installed on a machine where it can be used normally as the sole running application. Cerify makes intensive use of both CPU and memory, and will considerably degrade the performance of other applications. Similarly, running other applications or services simultaneously will degrade Cerify's performance and increase the time it takes to process a media file.

Software Installation

The installation of the Cerify software includes the following steps:

1. Running the Cerify Installer
2. Inserting the Cerify dongle
3. *Optional:* Installing Apple QuickTime Player

Running the Cerify Installer

To run the Cerify installer, do the following:

- Ensure that you are logged in as a user with administrator privileges.
- Insert the Cerify DVD provided by Tektronix. A Cerify application browser opens. To install Cerify, click the **Install Cerify** link and follow the on-screen instructions to perform the installation.

If the browser does not open automatically, or if the **Install Cerify** link does not work, navigate to the Exec folder located on the Cerify Software Installation DVD and double-click **CerifySetup<version>.exe**. Follow the on-screen instructions to perform the installation.

Inserting the Cerify Dongle

After installing the software, insert the Cerify license dongle supplied with the system in any of the available USB ports of your computer.

NOTE. Do not insert the dongle until the Cerify installer prompts you.

Installation Options

Install Cerify in one of the following ways:

- Standard - Cerify Standalone.
- Supervisor - Cerify Enterprise Cluster: The Supervisor unit controls the cluster system. It hosts the database and the Web server, allowing multiple users to set up and view Jobs.
- Media Test Unit - Cerify Enterprise Cluster: Each Media Test Unit is responsible for processing the digital media files in a networked cluster.

NOTE. During the installation of Cerify, if there are multiple network interfaces in the system, the installer will provide the list of IP addresses and asks you to select an IP address to be used by Cerify.

The installer also provides an option to install Cerify as a service.

Installing Cerify as a Supervisor. Follow the steps described in *Running the Cerify Installer* section to install Cerify as a Supervisor. (See page 2.) During the installation, a dialog box appears with the list of installation options. To continue with the Supervisor installation, select **Supervisor** in the installation options dialog box. Sometime during the installation, a dialog box appears where you must:

- Enable/Disable file-processing option on the supervisor.
- Enter the number of channels if you have selected the file processing option on the supervisor.
- Choose the IP address to be used by Cerify.

At the end of the installation, the installer prompts you with an option to load the demo content. If you choose this option, Cerify will be loaded with a demo database, which contains some sample jobs with results.

Installing Cerify as an Media Test Unit. Follow the steps described in *Running the Cerify Installer* section to install Cerify as an Media Test Unit.(See page 2.) During the installation a dialog box appears with the list of installation options. To continue with an Media Test Unit installation, you need to select **Media Test Unit** in the installation options dialog box. Sometime during the installation, a dialog box appears where you must:

- Enter Host name of the Supervisor.
- Choose the IP address to be used by Cerify.
- Enter the number of channels.

Configuring a Network Bridge

If the system has multiple network adapters, it is recommend that you bridge all the network adapters.

1. From the Start menu, select **Control Panel > Network Connections**.
2. Select two network adapters at the same time, right-click and select **Bridge Connections**. Windows will build up a network bridge automatically. When the bridge is built successfully, the two adapters' IP address disappears.
3. Select the **Network Bridge** and configure a new IP address in the **Properties** menu for LAN connections.

NOTE. *To configure a cluster, the versions of the supervisor and the Media Test Unit should be the same. Once the installation is complete, Cerify will be started on both Supervisor and Media Test Unit. You can access Supervisor using Cerify Web UI and navigate to the Admin page on Web UI, Click the **Media Test Unit Details** link to the page containing the list of Media Test Units.*

Upgrading and Uninstalling a Cluster. Insert the Cerify Software Installation DVD and follow the on-screen instructions. To upgrade a cluster, you must do the following:

- Upgrade Cerify on Supervisor by running the latest version of installer and choosing Supervisor as installer type.
- Upgrade Cerify on all the Media Test Units by running the latest version of installer and choosing Media Test Unit as the installer type.

Refer to *Software Upgrade* section for instructions on upgrading. (See page 5.)

To uninstall a cluster, you must do the following:

- Uninstall Cerify on Supervisor.
- Uninstall Cerify on all the Media Test Units.

Reverting to the Previous Version of Cerify

In some circumstances, such as a failed software upgrade, you may wish to revert to an older version of Cerify. To do this, follow these steps:

NOTE. Before proceeding, you should have a database backup and a copy of configuration files from the version you would like to revert to.

1. Uninstall the current version of Cerify. While uninstalling, back up the database by selecting the **Backup database** option.
2. Install the older version of Cerify.
3. Restore the database of older version using the CerifyDatabase Utility tool. For help on how to use this tool, refer to the "Database Backup/Restore Utility" section in the user manual.

Installing Apple QuickTime Player

To process Apple ProRes files using the Generic QuickTime Video template or to process files using the JPEG 2000 Video templates, you have to install QuickTime Player. Download QuickTime player from the link: www.apple.com/quicktime/download/.

NOTE. If you already have QuickTime Player installed, make sure that it is version 7.5.5 or later.

Software Uninstallation

Before uninstallation, ensure that you have administrator privileges. If you try to uninstall Cerify without administrator privileges, the uninstallation process will be aborted.

Cerify can be uninstalled in two ways:

- Through **Start > Control Panel > Add or Remove Programs**.
- By rerunning the **CerifySetup<version>.exe** that you used to install the current version and following the on-screen instructions.

NOTE. If you select the **Backup database** option during uninstallation, the current database will be backed up to *C:\Documents and Settings\<username>\Cerify\CerifyBackup_<version>_<timestamp>*. You are given the option to change the directory where you want to back up the database. All relevant configuration files will be backed up to *C:\Documents and Settings\<username>\Cerify\CerifyConfig_<version>_<timestamp>*. The "Backup database" option will not be available if you are uninstalling the Media Test Unit, as Media Test Unit does not have its own database.

Software Upgrade

To upgrade your existing version of Cerify to the latest version, run the setup file for the latest version of Cerify and follow the on-screen instructions.

NOTE. *Dongles used with previous versions of Cerify need to be reprogrammed to be used with version 7.2 or above. If an existing version of Cerify is being upgraded to version 7.2 or above, then it is recommended that users send in their c2v files to Tektronix to obtain a new corresponding v2c file before installing the upgrade. This will allow users to program the dongle with the new v2c file before using Cerify version 7.2 or above.*

It is possible to upgrade in any of the following ways:

- Standalone > Supervisor
- Standalone > Standalone
- Standalone > Media Test Unit
- Supervisor > Supervisor
- Supervisor > Standalone
- Supervisor > Media Test Unit
- Media Test Unit > Supervisor
- Media Test Unit > Standalone
- Media Test Unit > Media Test Unit

If you would like to back up the current database while you are upgrading from Supervisor or Standalone Cerify, choose the **Backup database** option during the upgrade process. The current database is backed up to the location `C:\Documents and Settings\\Cerify\CerifyConfig_<version>_<timestamp>` by default. You may change this location by choosing a different folder for backing up the files.

The upgrade process also backs up relevant configuration files from the current installation. These files are backed up to `C:\Documents and Settings\\Cerify\CerifyBackUp_<version>_<timestamp>`.

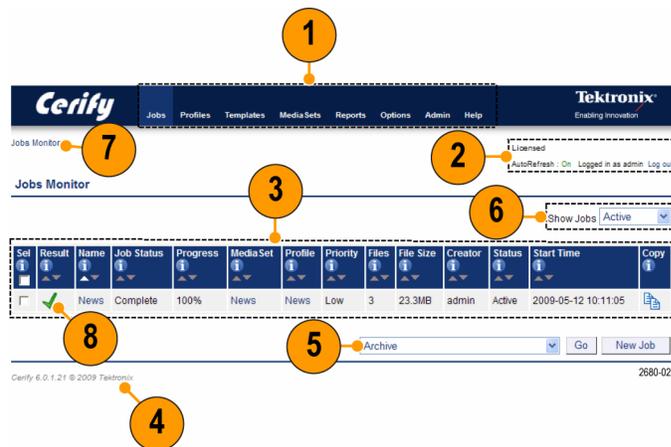
When you are upgrading to a Supervisor or standalone Cerify, the database is upgraded automatically after the installation. If the database upgrade fails, the installer will install Cerify with a clean database and inform you about the failure. The **Backup database** option will not be available while upgrading from Media Test Unit as they do not have their own database and process the files from the Supervisor's database.

Operation

Getting Acquainted

User Interface

The user interface consists of a structured collection of pages accessed using a Web browser. The following figure shows the elements that are common to most of the pages in the Cerify Web user interface. The Jobs Monitor page will not contain any jobs when you login to Cerify for the first time after the installation, but will look similar to the following after you perform the tutorial. The elements of the Job Monitor page are shown and described in the following figure and table.



Item	Description
1. Navigation bar	The navigation bar provides a quick route to the top level of any of the pages.
2. Auto-Refresh and login details link	Click Auto-Refresh to On to view update progress and job status. The login details, located below the navigation bar at the top-right section of the screen, show who you are logged in as and provide a link enabling you to log out. The license status of Cerify is also reported in this section.
3. Tables	The system displays a collection of entities in the form of tables. Several types of entities can be created, edited, and displayed, such as Jobs, Profiles, Templates, MediaSets, MediaLocations, and Users. The role of these entities and the relationship between them is explained later in this manual. (See page 10, <i>Overview</i> .)
4. Footer	The footer displays a copyright notice and version information.
5. Archive/Restore Control	The Archive/Restore control allows you to archive and restore entities.
6. Active/Archive View Control	The Active/Archive view control allows you to choose which entities of a particular type to view. NOTE. When an entity is archived, it is not removed from the database, but it becomes inactive. You cannot construct new entities from inactive entities.
7. Trail widget	The trail widget allows you to see your position in the hierarchy and navigate from this position.
8. Icon	The following table lists the icons used in the interface. (See Table 1.)

Table 1: User interface icons

Icon	Description
	Collapse this section
	Expand this section
	Copy this item
	Remove this item
	Edit this item
	Directory
	File in a directory
	Open a context-sensitive help topic
	Status unknown
	Failed with a fatal error status
	Failed with an error status
	Failed with a warning status
	Succeeded with no errors or warnings
	Item created through the Cerify Web user interface
	Item created through CeriTalk API
	Sort items in this column in descending order
	Sort items in this column in ascending order
	Click this button to trigger the selected action
	Adds another set of values to the rules
	Removes any set of values from the rule

Accessing the Online Help

You can access help topics by clicking **Help** on the Navigation bar or clicking the  icon.

Concepts

Users

Before using the system, you must log in with your user name and password credentials. These credentials are assigned by a user who has administrator access.

By default, the system is installed with a single predefined user whose name and password are both set to **admin**. You should change the password after you log in for the first time. Administrator access rights allow you to modify system properties, and in particular to create and modify MediaLocations and Users.

MediaLocations

A MediaLocation is a local or network file storage location from which the system can access media files. Typically, this is a directory on the hard drive or a video server that provides FTP or Windows file share access. To create a MediaLocation, you must supply its URL and the user name and password required to access this URL. In addition, you must supply a unique name to be used within the system to identify the MediaLocation.

Only users with administrator access are able to create or modify MediaLocations.

MediaSets

A MediaSet is a collection of media files that you want to check.

A MediaSet can be a DropBox. A DropBox is a directory that is continually monitored for new media files. A MediaSet that is not a DropBox is simply a static collection of media files manually selected from one or more of the MediaLocations.

If a Job is associated with a DropBox, every file that appears in the DropBox over time will be processed.

Templates

To check a media file, you must define which checks should be applied when the file is tested. A Template is a collection of such checks chosen to perform specific tests required by you. The four types of Templates are:

- Container Templates, which apply to the transport/container layer of a media file
- Video Templates, which apply to the digital video content of a media file
- Audio Templates, which apply to the digital audio content of a media file
- Action Templates, which specify actions to be performed as a result of processing a media file

You can create multiple Templates of the same type for different purposes. For example, you might create a Movies Template, which contains a set of rules appropriate for HD MPEG-2 content, and an on-line content Template, which contains a set of rules appropriate for lower resolution H.264/AVC content.

NOTE. Some example templates are preloaded onto Cerify. These templates can be used, copied, edited, and archived in the same way as those created by users. The XML files containing these templates can be found in *<Installation directory>/Example Templates*.

Profiles

A Profile gathers together a container, video, audio, and action Template, providing a complete set of checks that can be applied when you want to test one or more media files. Any of the component Templates can be omitted, depending on your requirements. For example, it makes no sense to apply any container or audio checks to a media file that consists solely of a video elementary stream.

Jobs

A Job is the term given to an individual testing process that can be run by the system. Each Job can process multiple media files or a single media file, depending on your requirement. The set of files processed by a Job is defined by its MediaSet.

By creating a Job, you request the checks defined by a particular Profile be applied to the files in a particular MediaSet. In addition, you must specify the name and priority of the Job. The system can queue multiple Jobs to be run, whereby each Job is scheduled to be processed according to its priority.

The system processes one media file at a time.

How long it takes to process a Job depends upon a number of factors:

- The resolution of the video being processed
- The video standard concerned (some standards, such as H.264/AVC, take more time to process)
- The number of tests selected (performing all the video quality checks can be processor intensive, because it requires the analysis of every pixel in each frame of video)
- The bit rate
- Hardware performance of the PC on which Cerify is installed

Alerts

Alerts announce any checks that fail as a Job executes. Each alert indicates the severity of the failure, as well as where and why the check failed. The system gathers alerts associated with a particular Job, so that you can access the results from the top level and easily navigate to the details, such as which individual frames have Alerts.

The system organizes and summarizes any alerts raised against a particular Job, so that, at the top level, a single processing result status can be assigned to the Job. To view more detailed information, you can drill down through the interface, revealing (for example) which individual frames have raised alerts.

Reports

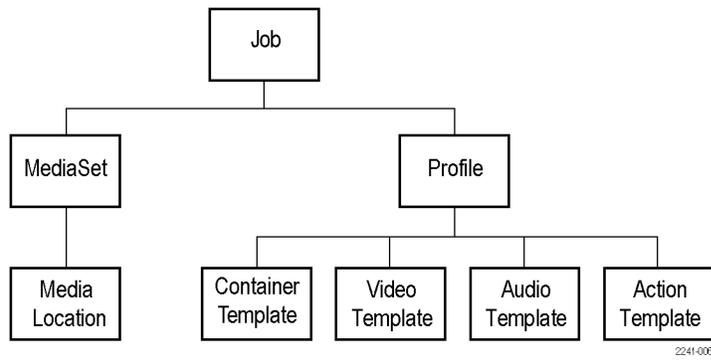
Reports provide you with a way to query the system database and obtain information in a predefined format. A Job report presents the results of a particular Job in tabular form.

Procedures

Overview

The following figure shows the dependencies between the entities that make up a Job. For example, a MediaLocation must exist to create a MediaSet and a MediaSet must exist to create a Job.

NOTE. A Profile requires at least one type of Template, not necessarily all four types.



Starting the Application

Perform the following procedure to start the Cerify application.

1. Click the **Start Cerify** icon on the desktop to Launch the Cerify application.
2. Enter your **Username** and the **Password** in the login page. The default Username and Password are admin.
3. Once you are logged in, you can see the Jobs Monitor page.



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Starting a Cluster

Perform the following steps to start a cluster.

1. Start Cerify on Supervisor unit first.
2. Start Cerify on Media Test Units.
3. Enter the URL `http://<Cerifyhost name>` into your Web browser where Cerify host name is Supervisor's host name.

NOTE. By selecting the *Media Test Units* link on the Admin page, it is possible to view the status of the Media Test Units connected in a cluster. Since a standalone system does not connect to any Media Test Units, this link is unavailable in the Web UI of a standalone system. After clicking the link, you will be taken to the Media Test Units page which lists all the Media Test Units that are in the cluster.

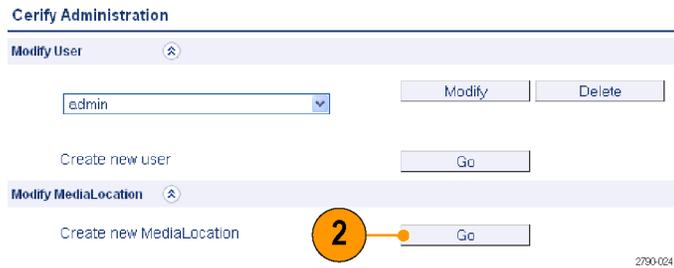
Creating a MediaLocation

You can create and modify MediaLocations only if you have administrator access to Cerify.

1. Click the **Admin** button on the Navigation bar to access the Admin page.

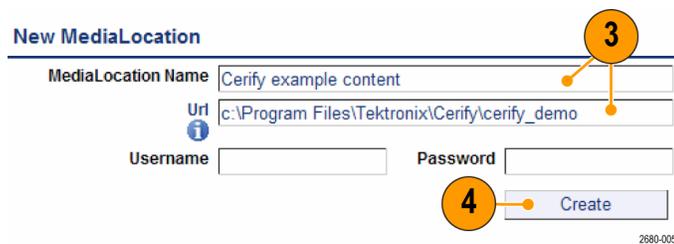


2. In the Cerify Administration page, click the **Go** button to create a new MediaLocation.



3. In the New MediaLocation page, fill in the fields as follows:

- **MediaLocation Name:** Cerify example content
- **URL:** c:\Program Files\Tektronix\Cerify\cerify_demo



NOTE. The URL used above assumes that you have installed Cerify in the location, C:\Program Files\Tektronix\Cerify.

NOTE. Leave the **Username** and **Password** fields blank.

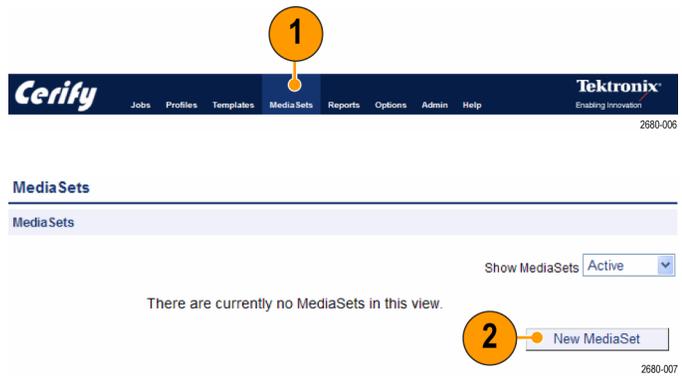
4. Click **Create**.

Creating a MediaSet

Once you have created a MediaLocation, you can create a MediaSet that collects the files at this location.

1. Click the **MediaSets** button on the Navigation bar.

2. In the MediaSets page, click the **New MediaSet** button to create a new MediaSet.



3. In the New MediaSet page, do the following:

- Fill in the **Name** field.
- Set the **DropBox** field to **no**.

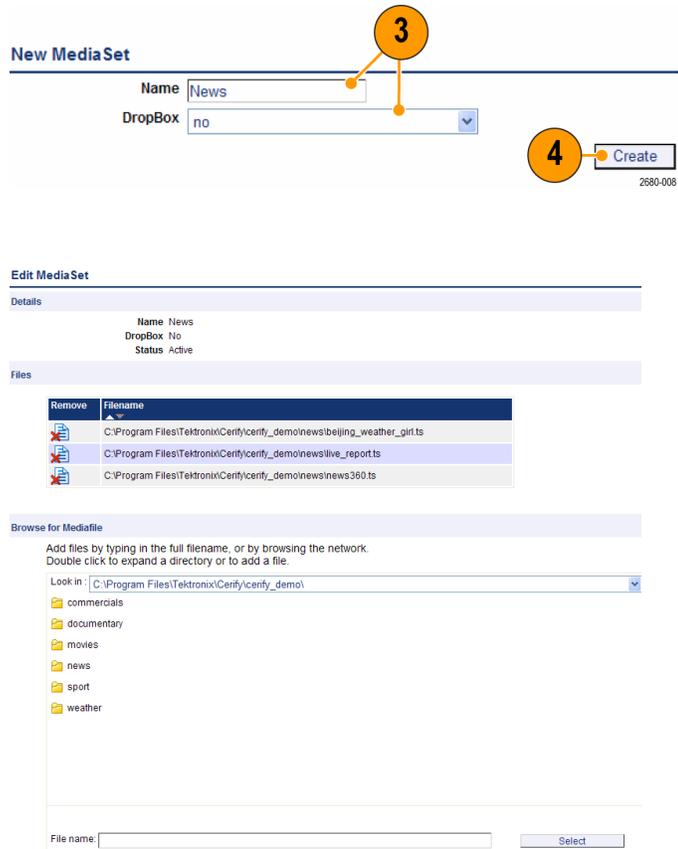
4. Click **Create**.

5. In the Edit MediaSet page, you can do the following:

- Add files to the MediaSet by browsing through the network or by entering the full path of the file in the File name text field at the bottom of the page (the path must include the full URL of the file, for example, `c:\Program Files\Tektronix\Cerify\cerify_demo\news\airport_interview.ts`).

NOTE. Only files that exist within folders/sub-folders of an existing MediaLocation can be added to a MediaSet

- View the contents of a directory by double-clicking the directory icon.
- Close the directory and go up a level, open the drop-down menu control at the top right of the file browser to provide a selection of recent directories.
- Select a file by double-clicking the file (📄) icon.

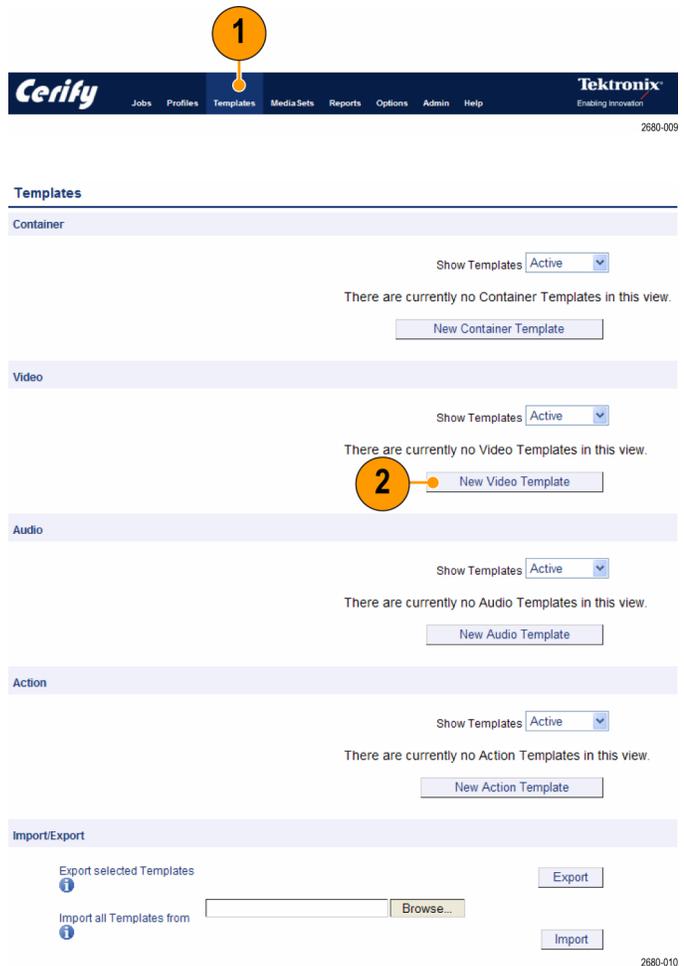


Creating a Template

To test the files in the MediaSet that you have created, you need to decide the checks to apply. You can apply checks to the container or wrapper layer, the video stream, and the audio stream, using container, video, and audio Templates, respectively.

1. Click the **Templates** button on the Navigation bar.

2. In the Templates page, scroll down to view the Video Templates section and click the **New Video Template** button.



3. In the Select Template Type page, do the following:
 - Select the type of Template from the **Please select a type for the template** drop-down menu.
 - Click **Select**.

NOTE. *The Template type you choose depends on the type of video content you want to check. This type will be the Video Standard used when the video was encoded, for example, MPEG-2 or H.263.*



- In the **New Template** page, enter a name for the Template.

New Template

New Video Template

Type MPEG-2

Template Name **4**

Description

Version 0

2680-012

- Configure the checks to be applied by selecting the check boxes and entering values into the text fields.

Configuration

Standard **MPEG-2**
 Do not alert if MPEG-1

QuickCheck
 Only do a QuickCheck

Profile
 Main

Level
 Main Exactly

Syntax checks
 Perform syntax checks

Suppress Alerts
 Suppress alerts: Buffer analysis
 Plus additional alert IDs: 22009 (comma separated list)

Alert limit
 Show a limit of 500 video alerts.
 Terminate processing if limit is exceeded

Individual Alert limit
 Show alert IDs at most 20 times

Play time
 Between [] and [] seconds -- +

Encoded picture size
 Horizontal: between 720 and 720 pixels
 Vertical: between 480 and 480 pixels
 or
 Horizontal: between 1280 and 1280 pixels
 Vertical: between 1080 and 1080 pixels --

- Use the **+** **-** buttons to configure the Resolution rule with multiple sets of valid values. For a full explanation of the checks performed by each rule, click the **i** icon next to each rule name.

7. Click the **Create** button at the bottom of the page to create the new Video Template.

NOTE. *The new Template will not be saved until you click the Create button at the bottom of the page. When you click Create, the system will check that the fields you have filled contain valid data, and prompt you to fix any problems. If there are no problems, the new Template will be created and stored in the database.*

When this MPEG-2 Video Template is used to check a video stream, it will check the following:

- The video is MPEG-2 encoded.
- The video is encoded using MPEG-2 Main Profile, Main Level.
- The video bit stream syntax conforms with the MPEG-2 Standard, but any alerts relating to Buffer analysis and alert number 22209 are suppressed.
- A maximum of 500 alerts are displayed.
- Each alert type is displayed a maximum of 20 times.
- The video resolution is 720 by 480 pixels or 1280 by 1080 pixels.

You can also create an Audio Template and a Container Template similarly.

To create an Audio Template, select **New Audio Template** and select **MPEG-1 / MPEG-2 Audio** as the template type. For the Container Template, select **MPEG-2 Transport Stream** as the Template type.

NOTE. *In this example, you will not create an Action Template. If you want to check a different video format, you should select a different codec type in step 3 of the Creating a Template procedure.*

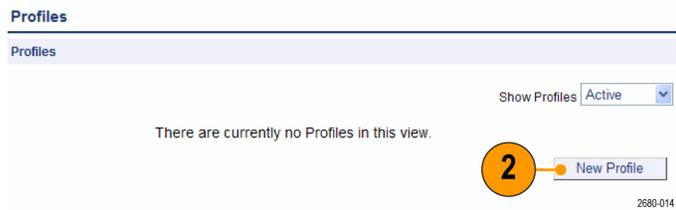
Creating a Profile

To use your new Video Template in a Job, you must include it in a Profile.

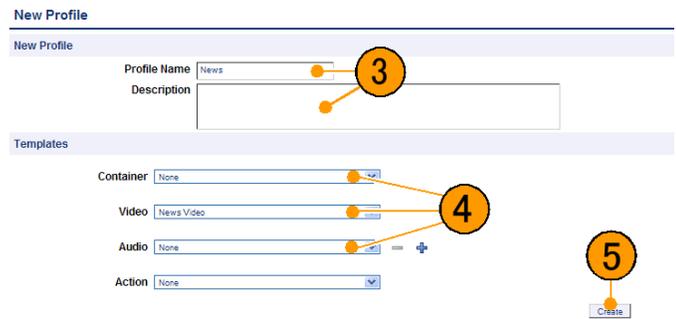
1. Click the **Profiles** button on the navigation bar.



2. In the **Profiles** page, click the **New Profile** button.



3. In the **New Profile** page, enter a name and a description for the Profile.



4. Select the Templates you have created from the drop-down menu. You can select multiple audio templates, if required.

5. Click **Create** to create the Profile.

Creating a Job

Once you create a MediaSet and a Profile, you can create a Job.

1. Click the **Jobs** button on the navigation bar.



2. Click the **New Job** button.

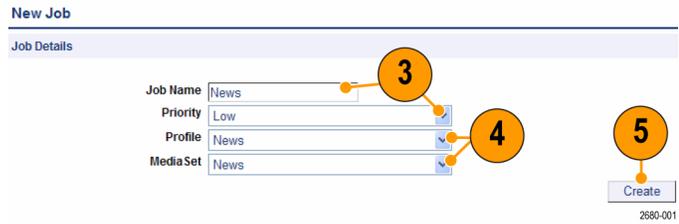


3. In the **New Job** page, do the following:

- Enter a name for the Job.
- Set the Job Priority to Low.

4. Select the Profile and MediaSet that you have created.

5. Click **Create** to create the job.



Inspecting Job Results

1. Click the **Jobs** button on the Navigation bar.



2. In the Job Monitor page, click the **AutoRefresh** button in the page header.



3. In the Jobs Monitor page, view the Job results. The  icon indicates that the Job has succeeded.



Generating a Report

1. Click the **Reports** button on the Navigation bar.



2. In the Reports page, enter the name of the job that you created in the **Enter Jobname** field.



3. Click the **Generate** button to generate a report of your Job.

Archiving

1. Click **Jobs** on the Navigator bar.



2. In the Job Monitor page, select the Job you want to archive by selecting the check box in the left column of the Jobs Monitor table.



3. Ensure that the action drop-down menu under the table shows Archive.

4. Click **Go** to archive the Job.

5. To view archived Jobs, set **Show Jobs** to Archived.

