



Online TV/Radio/Video and Broadcast Recording

Our XENTAURIX Cloud Platform aims at the needs of broadcasters, media authorities and monitoring companies, press offices, news, marketing and advertising agencies. They need easy, fast and very cost efficient tools to perform their workflows. Also, they want almost instant access to functionalities such as recording and logging of linear and online TV and radio as well as audio and video streams. Be it for plain broadcast and verification recordings, for generating clips or specific content analysis. Customers select the broadcast stations or webstreams they want to monitor and our cloud-based system records the audio and video content along with all available metadata in either timed or continuous mode. The recording process is conform to applicable laws governing the duplication of content and copyrights. The recordings are accessed and streamed to devices such as PCs, notebooks, tablets or smartphones with HTML5 compliant browsers. All recorded material and generated clips can be searched and analyzed. Bookmarks can also be added for better searchability. All recordings can be stored longer than 30 days.



Recording of Livestreams

Livestreams from Web-TV and Web-Radio stations can just as easy be stored, processed and analyzed as live video streams of all kinds of events such as trainings, conferences or long-term video surveillance. Features like panoramic views or the quality of recordings up to HD are customizable.

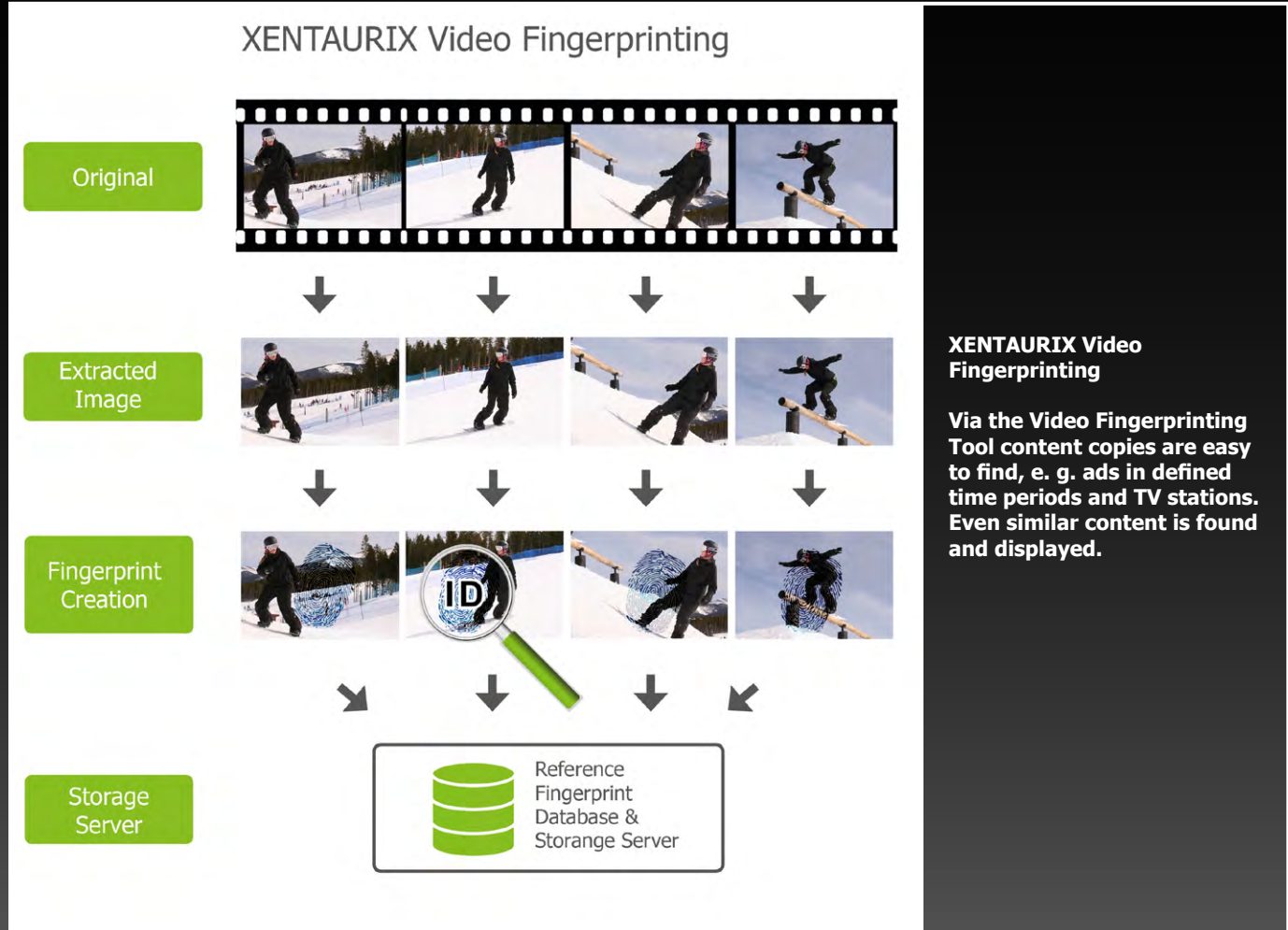
Livestreams from social networks can be recorded too, e.g.



TV & Radio Content Recognition

Searching for the same or similar content in live or recorded broadcast material is possible using two technologies within the on-site and cloud-based XENTAURIX solutions.

The **XENTAURIX Video Fingerprinting Tool** is aimed at the need to search in various TV stations for duplicates or similar content such as a specific advertising. Detecting copyright infringements is another important application of the video fingerprinting tool.



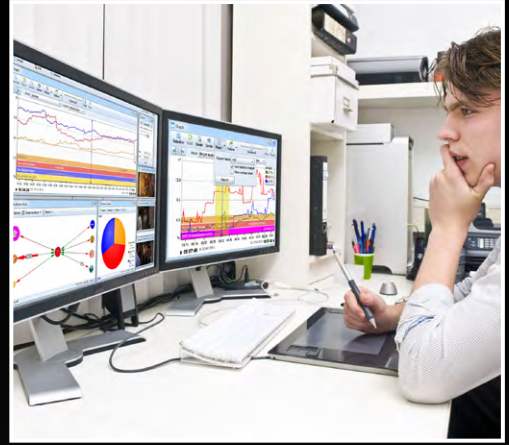
The **XENTAURIX Audio Fingerprinting Tool** helps finding the same or similar content in both live broadcast and recorded TV and Radio signals. This also requires an audio sequence to be uploaded to serve as reference material.

The audio fingerprinting tool is also used for automatic identification of music titles and the extraction of related META data during live operation. A data base with over 40 million songs supplies all other related data such as title, album, musician, composer and writer and more. All data are then stored 24/7 together in the XENTAURIX System. Data can be searched and retrieved for automated reporting to collecting societies and performance rights organisations. Clicking on an item in the list of recognized music start to play the title.

Start	Titel
00:00 ⁰⁰	Die N-JOY Nacht
02:05 ³¹	French Montana - Unforgettable
02:09 ¹⁴	Mr. Probz - Waves (Robin Schulz Remix)
02:12 ³⁶	CHARLI XCX - Boys
02:15 ¹⁹	Rag'n'Bone Man - Skin
02:18 ⁴¹	DJ Antoine & Dizkodude feat. Sibbyl - I Love Your Smile (Dizkodude Original Extended Mix)
02:21 ⁵⁶	David Guetta - Sia - Titanium (feat. Sia) [Extended]
02:26 ¹³	Liam Payne - Strip That Down
02:29 ⁴⁸	Martin Solveig - All Stars
02:33 ¹¹	Katy Perry - Dark Horse
02:37 ²⁵	Various Artists - Little Hollywood
02:40 ⁴⁸	Miss Platnum - Lia Wolken

Analysis of TV Rating Figures

Of special interest to TV broadcasters is a deep and informative analysis of TV ratings. Our XENTAURIX Cloud offers this tool and provides clear overviews and detailed information on station and target group comparisons as well as audience spread, affinity, audience flow analytics from one TV station to another. Data collected by GfK, Gallup and TNS are automatically imported and processed by our XENTAURIX system. Clear and concise diagrams and views help to present TV quote histories. They can be shown in realtime, fast forward and backward mode. Up to 6 video players can be used in conjunction with the viewership analysis diagrams, allowing a combined comparison of TV recordings with their respective TV rating figures.



TV Search Engines, Video Clips and Storyboard

Our full-text search allows to search, find and play recorded program content accurate to the second. It is very easy to create video clips and to combine, store and export them. The search can be run across all or selected channels as well as across defined periods. A storyboard with thumbnail previews can be displayed while play-back is running. It can also be shown in full-screen mode. The combination of multiple TV channels on one screen allows for a clear and tidy broadcast content comparison and is optimal for searching, TV monitoring and TV competition analysis.



OTT Service

We supply you with live and catch up TV streams including all metadata. HTML and Web-APIs are provided for customer specific integrations.



Mobile Video

We provide an HTML5 player for serving mobile video queries via smartphones and tablets of any manufacturer. We certainly can create customer specific multiscreen user interfaces, should this be required.



Save on Costs using our Cloud

No need for a costly and complex onsite systems with receivers, signal distribution and storage server. Free your IT-staff for other strategic tasks and save on energy consumption. Save your company the investment cost as well as maintenance or any other operating costs incurred by an onsite system. Adding or removing TV, radio or video channels is possible at any time. Most common features are being updated and added to your account as they become available. Other features can be booked to add even more value and functionalities. If your company doesn't need the service anymore, simply notify us and the service will stop after an agreed period of time.



XENTAURIX Cloud Data Centre

Our XENTAURIX Cloud-Data Centre is equipped with several satellite dishes for the reception of TV and radio channels from Europe and the Middle East. The data center has a redundant >20Gbit/s connection to the Internet.



artec technologies AG is a specialist for the storage and evaluation of real-time information generated from TV, radio, internet TV, -radio, -video and other sources such as social media (Big Data Analysis). The listed company based in Diepholz, Germany, develops and produces innovative software and system solutions for the streaming, recording and analysis of video, audio and metadata in networks and on the Internet. Since 2000, customers have used the product platforms **MULTIEYE®** for high definition video security solutions as well as **XENTAURIX®** for media and broadcast streaming and recording applications. artec customers benefit from a complete service (project planning, commissioning, service and support) for standardised products, special developments and cloud services.

XENTAURIX®
www.xentaurix.com