STS Media Xplorer
Capabilities Overview

Smart MediaSets: STS Media Xplorer provides the ability for recurring searches to be run against collected audio. Results can be immediately retrieved and reviewed all within the same UI. Newly added audio is then automatically ingested and analyzed for matching search criteria. Users can also set up a Smart MediaSet and receive alerts when new, matching audio is added to the filesystems that is being polled.

Term Sets: Operators can upload lists of cover terms, threat terms, or any other search term list all with individual thresholds at the term level if desired. When any "hit confidence" for a search term(s) exceeds its specified threshold, STS Media Xplorer provides a direct link to the audio where we results were found. Term lists and search results can be exported (along with the media). Some groups even use large target specific term sets which end up being able to provide a gist of the conversation.

Pronunciation Optimizer: "Pron Opt" allows an operator to review and improve search results. This feature is primarily used with hard to pronounce words, but could provide value against most terms. Based on the user's review, the system will generate and optimize a new search term(s) that more closely sounds like what is being pursued. The new fully optimized search term can then replace the initial search (many times resulting in dramatic improvement in accuracy). STS Media Xplorer also provides a search by example capability which the operator can use to highlight a specific segment of audio that contains the desired term they wish to find.

Language ID: This capability can help automate the process of identifying languages/dialects. The files can then be assigned to the proper indexer or specific analyst. It is possible to build Language ID models on any language. The process to build new comparison language models is extremely fast and easy.

Speaker Identification: STS Media Xplorer provides a UI that enables the operator to take speech cuts (a clip or an entire file) from a speaker of interest to create a model that can then be used to identify that speaker in other files. It can use as little as 10 sec of speech. Users can then refine the speaker models by adding additional audio examples to improve it overtime. This feature can also be used to separate target groups of speakers from one another.

Open Web API Available: STS Media Xplorer has an application programming interface (API) available that enables a closer integration with other applications.

Portability: STS Media Xplorer is completely stand-alone and meant to cooperate with other critical software tools on the hardware it is installed on. If another application requires system resources, Media Xplorer can reduce its primary services into the background. As other applications make system resources available, Media Xplorer can return to normal resource consumption.

Speak-to-Search: Operators have the ability to speak rather than typing a phrase they intend to search for. This allows native or non-native speakers a fast and easy method to enter a search phrase(s). Prior to launching the search, the operator can playback or use the Pronunciation Optimization feature to further improve search results.

Supported media types: Native support for: .aif, .avi, .mp2, .mp3, .mp4, .mpeg, .mov, .wav, .wmv, .au, and more (others available upon request).

Language Support: STS Media Xplorer supports more than 40 languages currently available (see Supported Language Pack list) and allows for any future language to be supported. In addition, the tool can use the Multilingual "Universal" Language Pack that covers a very broad phonetic alphabet. The Multilingual Language Pack is meant for specific use-cases, but has the ability to index/search any spoken language.

Metadata Support: The system allows importing of metadata from various sources which can be used to view, categorize and sort the audio. Users can also create new categories for their media and easily edit any metadata information associated with it.

CBT Instruction: STS Media Xplorer has a built in training utility that shows users all of the primary functions and capabilities, enabling them to be fully utilizing the tool in a matter of hours. Most groups never require formal training beyond the CBT instruction.

System Requirements: STS Media Xplorer uses a simple click through license installer and can be installed on any standard MS Windows desktop or laptop computer. Minimum system requirements include a 64-bit version of Windows 7, 8, 10 and at least 2 GHz processor with 8 GB of RAM. It has also been successfully field tested on high-end Windows tablet computers.