

Uncover Critical Intelligence with Nexidia's Search Technology

nexidia 

Today, a large percentage of the world's voice traffic is recorded for defense and security purposes. After the initial collection procedure, there is a complex process of transcribing, translating, and searching through vast amounts of communications by security personnel which costs precious time, money, and resources, but also increases the chance of missing critical information that could have been identified as a significant threat.

Nexidia can assist in this process in a number of ways including automation of the search process, increase in operator efficiency and providing targeted listening, all with minimal impact to your organization's current workflow. The result is faster, better analysis that enables superior threat detection and response.

Nexidia is the leading provider of phonetics-based technology solutions to organizations including U.S. defense agencies, intelligence gathering organizations and both Federal and State Law Enforcement agencies. Nexidia quickly indexes large sets of audio files by identifying phonemes, the smallest units of speech. This makes it possible to identify the most critical intelligence in seconds, rather than hours or days – aiding in any mission where it is necessary to quickly identify and prioritize potential threats and topics of interest. By enabling agencies to analyze large amounts of recorded audio/video data, often in multiple

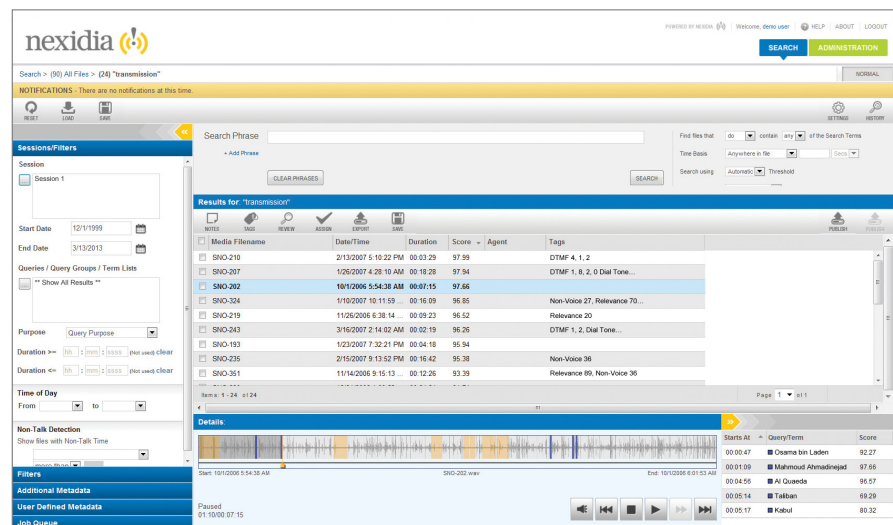
languages at unprecedented speeds, Nexidia helps reduce inefficiency and possible intelligence loss.

Nexidia Search provides in-depth ad-hoc searches for spoken topics across any amount of recorded content. It also performs large-scale searches at speeds of up to 100 million times faster than real-time. It finds even the most difficult content like proper names, jargon, and specialized industry terms. The search capability enables users to create searches using Boolean filters, metadata, and time and date parameters. Nexidia's patented phonetic search technology quickly and accurately searches for and displays results without the need for incomplete and inaccurate transcripts

SEARCH HIGHLIGHTS

Maximum Scalability: Nexidia's phonetic indexing and search approach provides far greater scalability in the amount of audio and video that can be made searchable.

Greater Accuracy: New words, industry terms, blended words, proper names, slang, code words, brand names, and even the non-standard mixing of different languages are all easily processed with Nexidia's phonetic approach. Because no subjective decisions need to be made to translate content into text, all the original spoken content is retained in the indexes and, therefore, no error is introduced into the process.



The screenshot displays the Nexidia search interface. At the top, it shows the search phrase "transmission" and a list of results. The results table includes columns for Media Filename, Date/Time, Duration, Score, Agent, and Tags. The top result is SNO-202, dated 10/12/2006 5:54:38 AM, with a score of 97.66 and tags including "OTMF 4, 1, 2". Below the table, there is a "Details" section showing a waveform and a list of words with their scores, such as "Osama Bin Laden" (92.27) and "Mahmoud Ahmadinejad" (97.68).

Media Filename	Date/Time	Duration	Score	Agent	Tags
SNO-210	2/13/2007 5:10:23 PM	00:03:29	97.99		OTMF 4, 1, 2
SNO-207	10/26/2007 4:28:10 AM	00:18:28	97.94		OTMF 1, 8, 2, 0 Dial Tone...
SNO-202	10/12/2006 5:54:38 AM	00:07:15	97.66		
SNO-324	1/10/2007 10:11:59	00:16:09	96.85		Non-Voice 27, Relevance 70...
SNO-219	11/26/2006 6:38:14	00:09:23	96.52		Relevance 20
SNO-243	3/16/2007 2:14:02 AM	00:02:19	96.26		OTMF 1, 2, Dial Tone...
SNO-193	1/23/2007 7:32:21 PM	00:04:18	95.94		
SNO-235	2/15/2007 9:13:52 PM	00:16:42	95.38		Non-Voice 36
SNO-351	11/14/2006 9:15:13	00:12:26	93.39		Relevance 89, Non-Voice 36

Greater Flexibility – Because Nexidia technology is not dictionary-based, there is no need to do additional training on dialects or accents. Additionally, Nexidia is less affected by unique speaking styles, jargon and even audio quality that can impact the performance and accuracy of text-to-speech methodologies, so you get what you need faster and with less impact on your resources.

Search Results Saved as Structured Queries – Searches can be saved to quickly create complex queries to generate contextual, empirical results.

Multi-Channel Support – Nexidia Search goes beyond audio to capture and analyze text content from a variety of sources including SMS, chat, and e-mail.

NEXIDIA SEARCH API SOFTWARE DEVELOPER'S KIT

Nexidia Application Programming Interfaces offer exposures to the core capabilities of phonetic indexing and search. Search APIs enable developers to rapidly deliver unstructured search capabilities to their users in a wide variety of ways. The Web API functions as a web server for other client applications to programmatically invoke indexing and search capabilities. This allows existing infrastructures to consume search results via the API in any ad hoc manner.

Rapid Development – Nexidia's Search APIs publish to .NET, C++ and the Windows, Linux and OS/X operating systems, allowing for rapid deployment and easy integration, without requiring a detailed understanding of the underlying core processing engine.

Future-Proof – By integrating through published interfaces, organizations can take advantage of improvements in Nexidia's system performance to evolve their products, ensuring backwards compatibility for all published APIs, with relatively little development overhead.

Scalable Architecture – Search Grid, a highly scalable search infrastructure, provides a framework for building distributed analytics applications. Developers can embed Nexidia Search technology into their own mission critical applications using web services interfaces.

To learn more about the power of Nexidia Search, contact us at info@nexidia.com.

Nexidia – Headquarters +1 (866) 355 1241
3565 Piedmont Road NE, Building Two, Suite 400, Atlanta, GA 30305, USA

Nexidia – DC +1 (703) 542 5290
2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA

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