

FEDEXER™

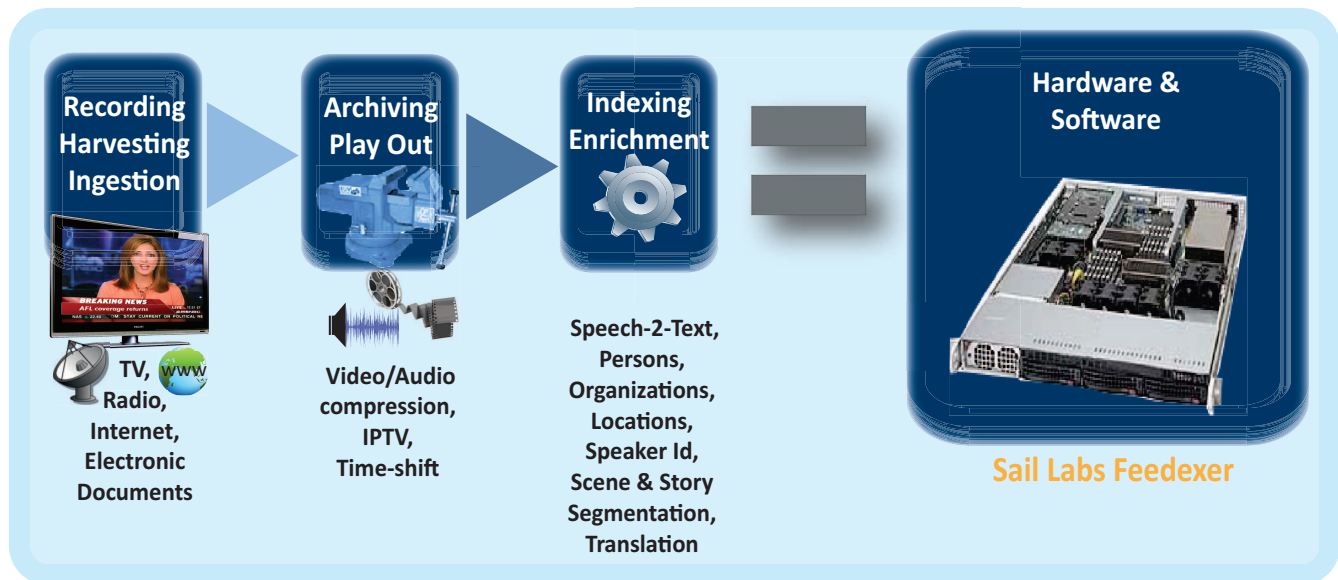
Award Winning Speech Recognition System for Multimedia Indexing and Enrichment

The Sail Labs Feedexer is a hardware and software device, that records, archives, encodes and converts input from sources such as radio and TV channels, internet (web pages, blogs, social media), electronic documents and press agency news feeds.

The following configurations are available:

- **Feedexer 2x2:** Two parallel analog free-to-air TV and FM-Radio channels
- **Feedexer 4x4:** Four parallel digital free-to-air SAT channels
- **Feedexer 8x8:** Eight parallel digital free-to-air SAT channels

The Feedexer is built on the Sail Labs Feeder Environment (Media Mining Feeder and the Media Mining Indexer), an award winning speech recognition system for real-time audio and video indexing and enrichment, providing a suite of best-of-breed technologies such as: large vocabulary automatic speech recognition, speaker identification, named entities and topic detection, scene and story segmentation and translation.



Feedexer 2x2

- 1U Server Enclosure capable to run 2 Instances
- Supports 2 parallel channels of analog TV or FM Radio

Technical Specs*

- CPU: 1 x Intel Xeon 2.66 GHz
- Memory: 12 GB DDR3
- HDD: 2x500 GB SATA Hot Plug RAID 1
- Network: 2 x 1Gbit Ethernet
- Capturing Cards: Analoge Tuner Cards
- OS: Microsoft Windows Embedded Standard 7 Runtime Premium, 64-bit, English
- BIOS level remote access (KVM over IP)
- Nagios compatible monitoring

Feedexer 4x4

- 1U Server Enclosure capable to run 4 Instances
- Supports 4 parallel channels of DVB-S, DVB-S2, DVB-T

Technical Specs*

- CPU: 1 x Intel Xeon 2.66 GHz
- Memory: 16 GB DDR3
- HDD: 2x500 GB SATA Hot Plug RAID 1
- Network: 2 x 1Gbit Ethernet
- Capturing Cards: Dual Tuner Cards
- OS: Microsoft Windows Embedded Standard 7 Runtime Premium, 64-bit, English
- BIOS level remote access (KVM over IP)
- Nagios compatible monitoring

Feedexer 8x8

- 1U Server Enclosure capable to run 8 Instances
- Supports 8 parallel channels of DVB-S, DVB-S2, DVB-T

Technical Specs*

- CPU: 2 x Intel Xeon 2.66 GHz
- Memory: 32 GB DDR3
- HDD: 2x1 TB SATA Hot Plug - RAID 1
- Network: 2 x 1Gbit Ethernet
- Capturing Cards: Dual Tuner Cards
- OS: Microsoft Windows Embedded Standard 7 Runtime Premium, 64-bit, English
- BIOS level remote access (KVM over IP)
- Nagios compatible monitoring

*subject to change without prior notice

Features List

License Terms

- Flexible license (scheduled recording multiple channels/languages)
- Unrestricted channel switching
- Unrestricted language change (for all licensed languages)

Supported File Ingestion Formats (Audio/Video)

- MS Windows XP codecs
- MS Windows 7 codecs (WMV9, MPEG2, DIVX, H.264 video and AAC)
- Apple QuickTime (.mov, .qt)
- Real Networks (.rm, .rmvb)
- Windows Media Format (.wmv)
- Windows Media Format Video Codec-1 (VC-1, .wmv9)
- Motion Picture Expert Group (.mpeg, .mp2, .mp4)
- Flash Video (.flv)
- DivX/Xvid
- Ogg/Theora (.ogg, .ogv)
- Matroska container format (.mka, .mkv)
- Transport Stream (.ts)

Supported Ingestion Sources

- External Audio/Video tuning device (analog)
- Internal Audio/Video analog decoder-module
- Internal DVB-S (digital SD) decoder-module
- Internal DVB-S2 (digital HD) decoder-module
- Internal DVB-T (digital terrestrial) decoder-module
- Internal DVB-C (digital Cable-TV) decoder-module
- Internal satellite radio decoder-module

Supported Output

- IPTV live channel streaming
- Time shifting
- A/V compression (compatible with Media Mining Server & Crisis Room)
- XML Output

Video Analysis

- Intelligent Keyframing
- Dynamic Keyframes (keyframe server)
- Story-line keyframes (keyframe bar)
- Face identification
- Optical Character Recognition (screen-OCR)
- Scene Analysis (Scene Change Detection, auto-clipping)
- Entity Extraction

Audio Analysis

- Topic detection and categorization
- Linguistic origin of speaker (Language/Dialect ID)
- Speech/non-speech detection
- Signal-to-Noise Ratio calculation
- Over-/Undermodulation warning
- Music/Jingle/Melody detection and identification
- Named-entity detection
- Flexible named entities (user editable named entities tables)
- Flexible named entity types (add to base: person, location, organization)

Automatic Speech Recognition

- State-of-the-art accuracy
- Phonetic vocabulary
- Word spotting
- N-best hypothesis generation
- Audio processing capabilities (command-line interface)
- API support for C++, plain C
- Microsoft Visual Studio integration
- Real-time recognition
- Unlimited vocabulary size
- 50.000+ words base vocabulary
- Speaker/audio segmentation
- Speaker/audio classification
- Language Model Toolkit (LMT): modify base vocabulary
- Language Model Toolkit (LMT): build own vocabulary

Supported Languages

Currently Modern Standard Arabic, U.S. English, International English, Catalan, Farsi, French, German, Greek, Hebrew, Italian, Mandarin Chinese, Norwegian, Polish, Russian and Spanish are supported. New languages can be made available upon request.