

OVERVIEW

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STATUS QUO

ULTRASCHALL

- Extension für REAPER
(<https://www.reaper.fm>)
- Established in 2013
- Open Source
- Public Repository auf GitHub
(<https://github.com/Ultraschall>)
- Hamburg, Berlin, Bodensee (ungefähr!)
- Und Aachen
- <http://ultraschall.fm>

ULTRASCHALL Component Outline

- ULTRASCHALL Theme
- ULTRASCHALL Plug-in
- Soundboard VST
- StudioLink

ULTRASCHALL Plug-in

- Import und Export von Kapitelmarken und einfachen Metadaten nach 'mp4chaps' und MP3/4
- C/C++
- Shared Library
- macOS ab 10.11
- Windows 7/10
- REAPER Extension SDK
- enthält plattform-spezifische Teile (UI)
- Deshalb kein Linux (UI)

ULTRASCHALL Development

- macOS
 - Xcode
 - Travis CI
- Windows
 - Visual Studio
 - AppVeyor

REAPER Extension SDK

- Plattform-unabhängige Schnittstelle
- C/C++ (Win32-like)
- Zugriff auf REAPER-Runtime
- Ermöglicht REAPER-Funktionserweiterung (SWS)

What's wrong with it

- REAPER sucks (at least the SDK)
 - Keine API-Versionierung (Funktionsumfang ändert sich von Version zu Version)
 - Funktionsumfang zwischen macOS und Windows nicht einheitlich (Linux unbekannt)
 - Dokumentation lückenhaft
 - UI unnötig sehr kompliziert
- UNICODE bzw. kein UNICODE
 - Windows 1252 => UTF-8
 - UTF-8 => Windows 1252
 - Windows 1252 => UTF-16
 - UTF-16 => Windows 1252
 - UTF-16 => UTF-8
 - UTF-8 => UTF-16
- REAPER only!

ULTRASCHALL PLATFORM (disputable!)

What is it?

- One-stop Podcast Metadata Server
- Middleware für DAWs, Podcatcher, Podcast-Verzeichnisse usw.

What it isn't!

- KEIN Podcast Directory
- KEIN Podcast Social Network
- KEINE Podcast-DAW

Development Environment

- .NET Core, ASP.NET Core & Entity Framework Core
- C#
- CI auf Visual Studio Team Services
- Public Repository bleibt auf GitHub (<https://github.com/Ultraschall>)

Runtime Environment

- macOS, Windows & Linux
- Installs via ULTRASCHALL Installer or manually
- Docker
- Self-contained installation, no external dependencies
- However, database environment is still required

Database Environment

- On-Prem
 - SQLite
 - SQL Server
 - PostgreSQL
- Cloud
 - Azure SQL Database
 - Azure Database for PostgreSQL

More databases are available via Data Access Plug-ins.

Networking Environment

- Clients connect via HTTPS
- REST-API provides access to tabular data
- JSON-RPC for more complex, function-like calls

FEATURES

Data Services

- Hierarchical storage of **well-known** data points
 - Podcasts
 - Seasons
 - Episodes
 - Contributions
 - Transcripts
 - Tags
 - ...
- Easy identification: Everything has a UUID
- Easy aggregation: Everything has an associated namespace
- Easy referencing: Everything has a unique path within the object model
- All text objects are localisable by default.

Data Services (cont.)

Goodbye Kapitelmärken, Hello Tags

- Chapter
- Historical
- Shownote
- Image
- Location
- ProcessingInstruction
- Custom Types
- ...

Exchange Services

- Export and import of chapter markers and simple metadata to ‘mp4chaps’ and MP3/4 as in classic ULTRASCHALL versions (available in local installations)
- Full integration of podigee (<https://www.podigee.com>) as export target
- Full integration of auphonic (<https://auphonic.com>) as export target
- On-boarding of pre-existing podcasts via RSS feed import
- Export to JSON Feed (<https://jsonfeed.org>)
- More import sources and export targets are available via Import/Export Plug-ins

Retrieval Services

- REST-API for access to all object types
- JSON-RPC for parameterised queries and advanced lookups

Authentication

- HTTP BasicAuth for local access (REAPER)
- OAuth2 for remote access (Internet)
- LDAP/Active Directory for corporate environments (Intranet)
- Secure storage of user credentials in macOS Keychain and Windows Credential Store.

ROADMAP & AVAILABILITY

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