ALCYONE

TRILOGIC
broadcasting solutions

Record, Edit, Publish

make it yours, keep it simple

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1 ALCYONE OVERVIEW

Alcyone is a professional solution designed for broadcast environments: it continuously records live streams, transforms them into finished content through its editing and graphics packaging functions, and ensures distribution to target platforms. It can operate in manual mode via its web interfaces or be fully automated through its REST API and scheduling mechanisms. Born from the convergence of **Cutscene** and **Prism**, two proven technologies with over 15 years of experience, Alcyone meets your needs for legal compliance, podcast creation, automatic archiving, and social media publishing.

1.1 INTRODUCTION

This document presents Alcyone's features and technical capabilities. It is intended for anyone looking to evaluate how well our solution fits their operational needs.

This chapter provides general information about the solution, including its advantages, the design principles that guided its development, and the product's core features.

The **Recording** chapter details the acquisition and storage capabilities of the solution.

The **Editing** chapter describes the integrated editing and graphics packaging tools.

The **Publishing** chapter presents the export and distribution mechanisms to various platforms.

The **Interfaces** chapter provides detailed information about the available interfaces.

The **Customization** chapter describes the mechanisms offered by the solution to adapt it precisely to your specificities.

1.2 KEY CONCEPTS

Alcyone's design is based on several fundamental concepts that make it a unique solution:

Versatility

Alcyone is designed to adapt to a wide variety of contexts:

Legal Compliance: Alcyone ensures compliant recording of your broadcast programs for legal purposes, with complete traceability and configurable retention periods service by service.
Parallel Monitoring: The solution allows simultaneous recording of multiple sources for verification and quality control of your broadcasts, or their reuse as ready-to-air assets.
Podcast or Reel Creation: Automated extraction, editing, and graphics packaging of sequences for rapid publication on podcast platforms and social networks.
Automatic Archiving: As soon as broadcasting ends, your programs are automatically transferred to your DAM according to your business rules.
Post-Broadcast Verification: Alcyone also serves as a verification tool through native format stream recording, which allows post-incident analysis of the signal produced during a broadcast incident.

Integration

Alcyone integrates naturally into your existing infrastructure and adapts to your teams' procedures and working methods:

The solution supports a wide range of signals: physical interfaces (SDI, AES, MADI), IP streams (TS over IP, HLS, SRT), and DVB modulated signals, offering extensive compatibility with your current equipment.

Through support for standard protocols (REST API, SNMP), it ensures optimal interoperability with your broadcast ecosystem and integrates seamlessly with your information and automation systems.

User Experience

The solution was designed to be simple and accessible: a web browser is sufficient to access all functionalities, from sequence extraction to their publication. Interfaces were designed to allow quick adoption, even by occasional users.

Recording consultation is based on a timeline enriched with metadata from your information system. Program schedules, advertising markers, music information: all this information appears in the interface to precisely guide users during their extractions and editing. This approach simplifies identification of relevant content and accelerates processing workflows, allowing teams to focus on their core business.

Automation

- Through its comprehensive REST API, Alcyone can be fully controlled by your information system. Extractions are triggered either directly on system command or automatically according to specific events or predefined criteria.

  Extractions and publications can also be scheduled recurrently, enabling automatic distribution with no intervention other than initial configuration of these scheduled tasks.

  The publishing module integrates advanced automation mechanisms. Once configured, it automatically formats extracts to the required format and distributes them to predefined destinations: social networks, CDNs, or content management systems.

Customization

- Alcyone offers extensive customization options to adapt to the particularities of your workflows.

  The solution has an integrated graphics packaging module enabling insertion of your company's visual identity into generated programs.

  It is possible to add metadata that circulates transparently between different modules, enabling linking of extractions with external processes such as archiving or establishing correspondences between recorders and third-party services.

  An integrated JavaScript engine allows script editing to cover specific needs not addressed by standard functionalities, such as extracting rundown data from proprietary format files, programming particular publication processes, or integration with third-party systems.

Reliability

- With more than 15 years of operation, Alcyone is a trusted solution for many clients who use it daily.

  With more than 4 million podcasts generated, Alcyone has demonstrated its ability to process large volumes while maintaining consistent service levels. This operational stability translates to minimal maintenance, allowing technical teams to focus on their strategic priorities rather than incident management.

  Alcyone's robustness is reflected in the trust placed in it by leading broadcast sector players, such as France Médias Monde, Groupe M6, Globecast, or Radio France. These deployments in critical production environments attest to the solution's ability to meet the strictest requirements for service continuity and processing quality.

1.3 ARCHITECTURE

Alcyone is based on a modular approach, enabling deployments adapted to your operational constraints, from simple single-server installation to distributed multi-site or hybrid cloud architectures.

1.3.1 Functional Modules

Alcyone's architecture is based on four complementary functional modules, each ensuring a part of the content processing workflow.

Recording This module ensures acquisition of audio and video streams from various sources, their secure storage, and automatic purge management according to defined retention policies.

Editing Alcyone's operational core, the editing module handles all post-production operations. It allows precise extraction of sequences from recordings, ensures multi-segment content editing, and applies custom graphics packaging before formatting according to each destination's requirements.

Publishing This module handles distribution of processed content to all destination platforms. It automatically routes finalized productions to social networks, content delivery networks, archiving systems, or broadcasting platforms according to predefined parameters.

Interface This transversal module provides all access points to the solution. It exposes the REST API for integration with information systems, hosts user interfaces for consultation and editing, and offers the administration interface providing access to configuration and supervision functionalities for the entire platform.

1.3.2 Deployment

Alcyone's architecture is designed to offer both simplicity and scalability. In its simplest configuration, all four functional modules run on a single server that provides the complete service. When operational constraints justify it, modules can be distributed across separate servers. It is also possible to distribute the same module across multiple servers to meet availability, user capacity, processing performance, or geographic coverage requirements.

Scalability — Each module can be independently reinforced by adding additional instances: multiplying recording servers to handle more simultaneous streams, deploying additional editing servers to support more concurrent users, or reinforcing publishing capabilities to accelerate processing.

Security — Module distribution across multiple servers allows implementation of redundancy and automatic failover mechanisms. In case of component failure, critical services automatically switch to backup instances, ensuring continuity of recordings and ongoing processing.

Geographic Deployment — Alcyone naturally adapts to geographic distribution constraints of broadcast infrastructures. For example, certain signal sources are intrinsically linked to specific locations: SDI interfaces directly connected to control rooms, DVB-T transponder reception, or locally captured over-the-air signals. The distributed architecture allows deploying recording modules closest to these physical sources while centralizing editing and publishing functions.

Cloud — While Alcyone works perfectly on on-premise architectures, it is also suitable for cloud deployment. It is thus possible to envision fully hosted deployment on cloud infrastructure, or even a hybrid architecture where permanent recordings are handled by on-premise servers, while additional processing capacities are instantiated in the cloud during special events or specific needs.

1.4 INTEGRATION

Alcyone was designed from the beginning to easily integrate into existing broadcast ecosystems, offering recording and publishing services usable autonomously or controlled by tools deployed within your infrastructure.

Acquisition The solution natively supports acquisition of heterogeneous signals: physical interfaces (SDI, AES, MADI), IP streams (TS over IP, HLS, SRT), DVB modulated signals, and streaming protocols (Shoutcast/Icecast). This versatility guarantees extensive compatibility with your current equipment without requiring major modifications.

REST API The solution exposes a REST API that allows third-party services to benefit from all functionalities offered by the system. This API enables controlling extractions, scheduling future publications, configuring system parameters, and querying service status in real-time. Documentation in **OpenAPI** format facilitates integration into your developments and guarantees rapid implementation.

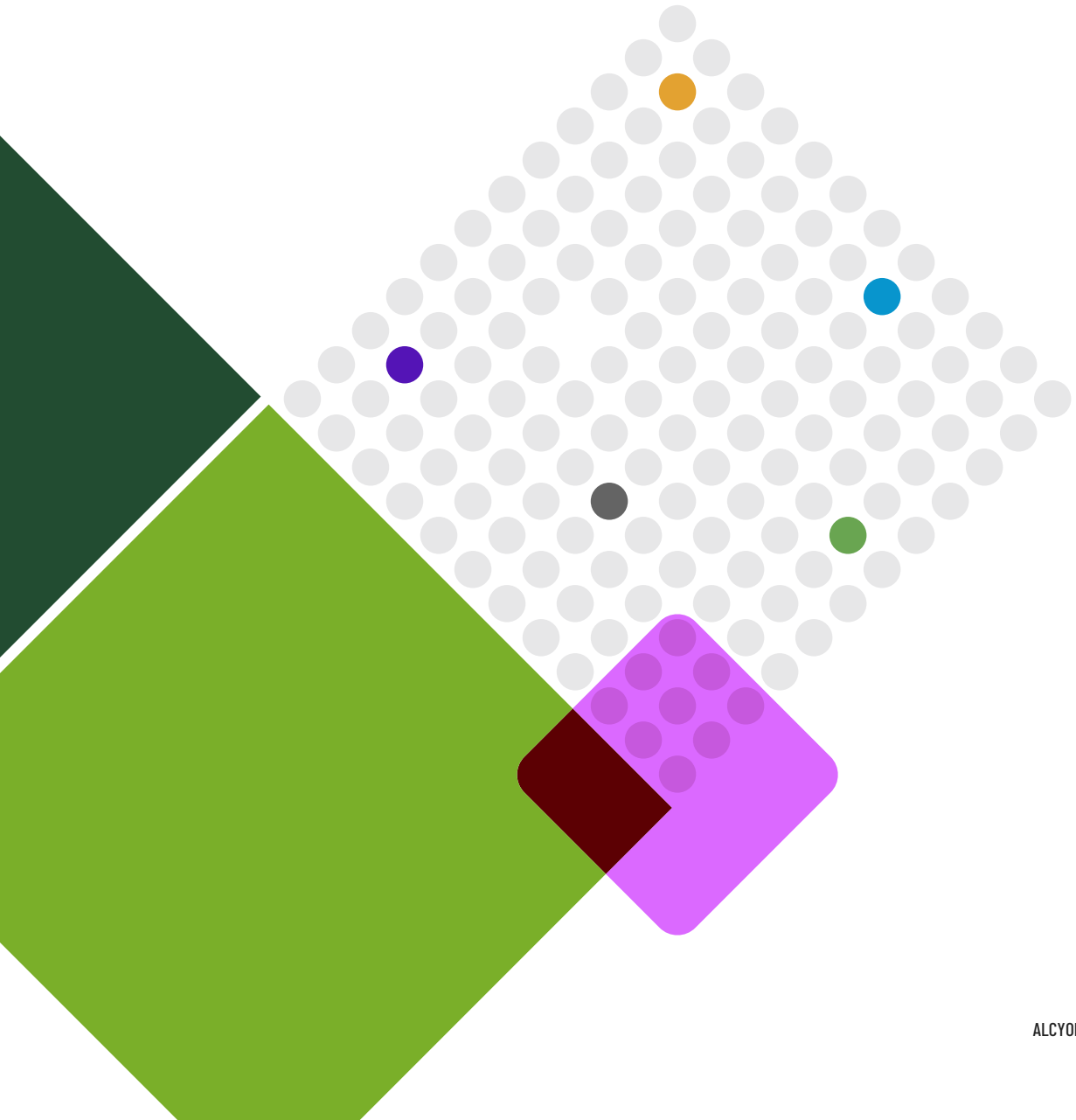
Metadata Alcyone interfaces with your information systems to retrieve data enriching user experience, such as program schedules and rundowns, advertising markers (SCTE-35/104), production data (titles, guests, descriptions), chaptering, or predefined editing points. This metadata enriches the interface and enables intuitive navigation through recordings.

Integration is bidirectional: Alcyone retrieves rundown data to enrich its interfaces, but also publishes extracts accompanied by structured metadata to your content management systems, MAM, or broadcasting platforms. Exchange formats are flexible and can be adapted to each infrastructure's specificities.

Supervision For supervision, Alcyone favors using its REST API which offers complete access to system logs, real-time status consultation, and performance metrics. This approach enables seamless integration with your current monitoring tools. For systems not supporting REST APIs, Alcyone also offers SNMP protocol support with alarm and event transmission as traps, thus ensuring centralized supervision of your entire infrastructure.

1.5 CONTINUOUS EVOLUTION

The relationship with our clients doesn't stop at initial delivery. Alcyone continuously evolves to meet new needs that emerge with evolving uses and technologies. This evolution takes several forms. Regular updates bring new functionalities, support for new formats, and performance optimizations. Client feedback directly drives our development roadmap, ensuring the solution remains aligned with real field needs. For more specific needs, we offer evolutionary developments that enrich existing installations. This approach allows clients to evolve their solution at the pace of their needs, without disruption or heavy migration.



2 ALCYONE RECORDING

Alcyone's primary function is the reliable and continuous recording of your audiovisual streams. This recording capability forms the foundation upon which all other solution features are built.

2.1 ACQUISITION

Alcyone can record a wide variety of signals, enabling it to adapt to virtually any existing infrastructure. The solution supports streams carried over various interfaces, including traditional connections like SDI/AES/MADI or modern IP protocols like RTP or SRT. When physical interfaces are required, the solution interfaces with the complete range of **DekTec**, **RME** cards, as well as certain **Matrox** cards.

2.1.1 Compressed Streams

Recording is performed in a format-agnostic way, with streams captured in their native format. This ensures exact reproduction of the original broadcast, which is essential for legal compliance. It also enables precise identification of the root cause of any issue in the broadcast chain, thus facilitating diagnosis in case of incidents.

Acquisition

MPEG-TS

- UDP/IP
- Multicast (IGMPv2/v3)
- RTP: RFC 2250
- ASI[1]
- DVB/C, DVB/C2[1]
- DVB/T, DVB/T2[1]
- DVB/S, DVB/S2[1]
- HLS
- SRT

Audio

- UDP/IP
- Multicast (IGMPv2/v3)
- RTP: RFC 2250, RFC 3640
- AES[1]
- MADI[1]
- HTTP (shoutcast, icecast)

2.1.2 Baseband Streams

For baseband, direct stream recording is not possible due to the bandwidth requirements of these signals. Streams are therefore encoded in real-time before being recorded in formats that allow reproduction of the original content with its metadata while preserving maximum video quality. This approach ensures efficient storage without compromising the fidelity of the source signal.

Acquisition

Video
- SDI (HD, 3G, 6G, 12G)[1]
- SMPTE 2110-20[1]

Audio
- SDI (HD, 3G, 6G, 12G)[1]
- SMPTE 2110-30[1]

Encoding

Video
- MPEG 2: ISO 13818-2
- H.264: ISO 14496-10
- 420/422/422 10 bits

Audio
- PCM
- Dolby E

2.2 STORAGE

The system is compatible with a wide range of storage solutions: local RAID systems, NAS, SAN, or cloud infrastructures, providing flexibility in choosing storage architecture based on your needs.

Supervision The system continuously monitors storage system status and sends alerts in case of malfunction.

Security For network storage systems, in case of link failure, recordings are automatically redirected to local cache until the connection is restored. Once the network is available again, cached data is transferred to its final destination without manual intervention, thus ensuring recording integrity.

Purge The system intelligently manages available storage space. Each recorded stream can have a specific retention period, defined with hourly granularity. Once this period is exceeded, the automatic purge system frees up space for new recordings. If configured retentions exceed available space, the system automatically purges the oldest files to ensure recording continuity.

3 ALCYONE EDITING

Alcyone's editing capabilities transform raw recordings into finished content ready for publication. These capabilities are first made available through the REST API for integration into automated processes, as well as within the publishing module for direct processing during distribution. They are also made available to operators through an interface designed to offer both ease of use and rich functionality, from any modern browser.

3.1 NATIVE MODE

In native mode, no formatting is performed: the specified time range is extracted from the recording and returned in its original format without any modification. This mode is particularly suitable for incident review needs or processing of proprietary data that is not supported by Alcyone.

Extraction

Audio

- MPEG1L2, MPEG1L3: ISO 11172-3
- AAC: ISO 14496-3
- Dolby: AC3, EAC3
- PCM, AES3

Multiplexed

- MPEG2 Transport Stream: ISO 13818-1
- MXF-OP1a: SMPTE 428-1

3.2 EDITORIAL MODE

Editorial mode allows transformation of raw recordings into finished content. Beyond time-based extraction, it offers selection of specific streams (audio tracks, services in a multiplex), application of branding graphics, multi-sequence editing, and full formatting – including transcoding, cropping, and encapsulation – according to destination requirements.

3.2.1 Extraction

Unlike native mode, editorial mode requires prior knowledge of the codecs used in the recorded streams to accurately cut sequences and maintain synchronization across multiple tracks.

Advanced extraction

Video

- MPEG 2: ISO 13818-2
- H.264: ISO 14496-10
- HEVC: ISO 23008-2

Audio

- MPEG1L2, MPEG1L3: ISO 11172-3
- AAC: ISO 14496-3
- Dolby: AC3, EAC3
- PCM, AES3

Encapsulation

- MPEG2 Transport Stream: ISO 13818-1
- MOV, MP4: ISO 14496-12
- MXF-OP1a: SMPTE 428-1

Precision

Depending on operational constraints, extraction can be performed at GOP level to prioritize speed, or frame-accurate to ensure optimal precision, though the latter option requires a re-encoding phase.

3.2.2 Editing

Beyond simple extraction, Alcyone enables the creation of complex edits by assembling multiple elements. These elements can originate from various sources, with Alcyone automatically managing format compatibility to ensure a consistent result. In addition to sequences recorded by the recording module, external media can also be inserted to add intro and outro cards, or to include pre-prepared reports or advertisements.

File sources

Video

- MPEG 2: ISO 13818-2
- H.264: ISO 14496-10
- HEVC: ISO 23008-2

Audio

- MPEG1L2, MPEG1L3: ISO 11172-3
- AAC: ISO 14496-3
- Dolby: AC3, EAC3
- PCM, AES3

Encapsulation

- MPEG2 Transport Stream: ISO 13818-1
- MOV, MP4: ISO 14496-12
- MXF-OP1a: SMPTE 428-1

Transitions

Video

- Cut
- *Fade to black* (roadmap)
- *Dissolve* (roadmap)

Audio

- Fade in/out
- *Crossfade* (roadmap)

3.2.3 Graphics Packaging

Alcyone integrates a compositing engine that allows overlaying graphic elements onto video sequences. Element positioning can be defined pixel-perfect, and a layer system manages their stacking. Once graphics packaging is created through the dedicated interface, it can be saved in a library and applied recurrently to different sequences.

Graphic Elements

Alcyone supports several graphic elements:

Text

- Insertion of static or dynamic text. A template mechanism allows automatic replacement during rendering of certain text portions with information extracted from metadata (show title, guest name) or specific to the extract (timecode, duration). This functionality enables automatic customization of graphics packaging according to the processed content.

  Typographic customization includes configuration of character size and font. Character and background colors allow adaptation to brand guidelines or contrast optimization to improve readability according to video content.

Image

- Insertion of static graphic elements for adding logos, custom backgrounds, or visual identity elements. Standard image formats (JPEG, PNG) are supported with transparency management.

Formats

- JPEG
- PNG

Video

- Integration of video sequences for creating complex animations or adding dynamic elements.

Codecs

- *Adobe ProRes 444 (roadmap)*
- H.264
- HEVC
- MPEG 2

Encapsulation

- MPEG2 Transport Stream: ISO 13818-1
- MOV
- MP4

Animation

Object properties can be animated through a keyframe system to create dynamic effects. For each property, it is possible to define key points along the timeline and specify interpolation functions between these key points. This approach enables creation of animations from simple appearance transitions to complex movement and transformation effects of graphic elements.

Animation

Property
- Position
- Dimension
- Opacity
- Visibility
- Text

Function
- Step
- Linear
- Exponential

3.2.4 Transformations

The editing module integrates transformation functionalities that automatically adapt extracted content to the technical and editorial constraints of different destination platforms. These transformations are applied during the extraction process and can be combined to meet the specificities of each distribution channel:

Cropping Allows adaptation of image format to broadcasting channel specificities, for example to transition from 16:9 capture format to square (1:1) or vertical (9:16) formats favored by social networks. Cropping can be performed manually with precise positioning of the area of interest, or automatically according to predefined rules.

Resizing Adjusts output resolution according to destination needs. Allows for example maintaining target resolution after cropping, or performing low-resolution resizing to optimize bandwidth or compatibility with certain platforms.

Transcoding Conversion between different video compression formats to meet destination platform technical requirements. Enables optimization of quality and bitrate parameters according to final usage.

Audio Normalization Automatic adjustment of audio levels according to EBU R128 standard, with integrated True Peak and Loudness parameter control, to comply with specific broadcast requirements of each recipient or harmonize audio levels across the entire production.

4 ALCYONE PUBLISHING

Triggered by the user interface, REST API, or scheduled agenda, the publishing module automates distribution of extracted content to their final destinations. Fully customizable, this module integrates with social media APIs, CDNs, and enterprise information systems, enabling distribution adapted to each organization's specific workflows.

4.1 ACTIVATION

The system maintains a queue of publishing requests from different sources:

- **Manual** — Direct triggering by the user via web interface for one-time publications or those requiring manual intervention.
- **API** — Requests from third-party systems via REST API, enabling for example linking on-air run-downs or automation to automatic podcast generation.
- **Scheduler** — Integrated scheduling system allowing planning of one-time or recurring extractions according to needs.
- **Engine** — The system allows integration of custom scripts running in the background to monitor external events and automatically trigger publications, for example by querying a third-party service or upon receiving GPI signals, etc.

4.2 PROCESSING

Publishing requests are handled sequentially by the system's publishing modules according to the chronological order of their scheduled execution date, regardless of their creation date. Each request is processed by a customizable JavaScript script that calls the editing module to perform extraction according to defined parameters. This approach enables fine-tuning of the publishing process to each client's infrastructure and specific needs.

Among possible applications, examples include:

- **Multi-format extraction** — A publishing request can generate multiple versions of the same content for different platforms: high-definition version for streaming, vertical format for social networks, or audio extraction for podcast platforms.
- **XML metadata** — Automatic generation of XML descriptive sheets integrating metadata from recordings and publishing requests, facilitating integration with media asset management (MAM) systems and post-production workflows.
- **API integration** — Calling third-party APIs to distribute produced content, particularly for automatic publishing to streaming platforms, social networks, or integration with external services.
- **Distribution** — Automatic transfer of files to CDNs, storage servers, or shared directories via secure protocols (sFTP, HTTPS).
- **Automatic chaptering** — Intelligent content segmentation based on silence detection or scene change detection.
- **Subtitling** — Integration with automatic transcription services to generate subtitles in multiple languages.

5 ALCYONE INTERFACES

All of Alcyone's functionalities are accessible through web interfaces compatible with major browsers. Fully localized in English and French, they offer each user a personalized profile allowing adjustment of various parameters, such as date format or time zone.

5.1 CONSULTATION INTERFACE

Alcyone comes with standard consultation interfaces, which can then be customized according to needs: some examples of customized interfaces are presented in Section 6.2.

Video consultation The video consultation interface is organized around three zones:

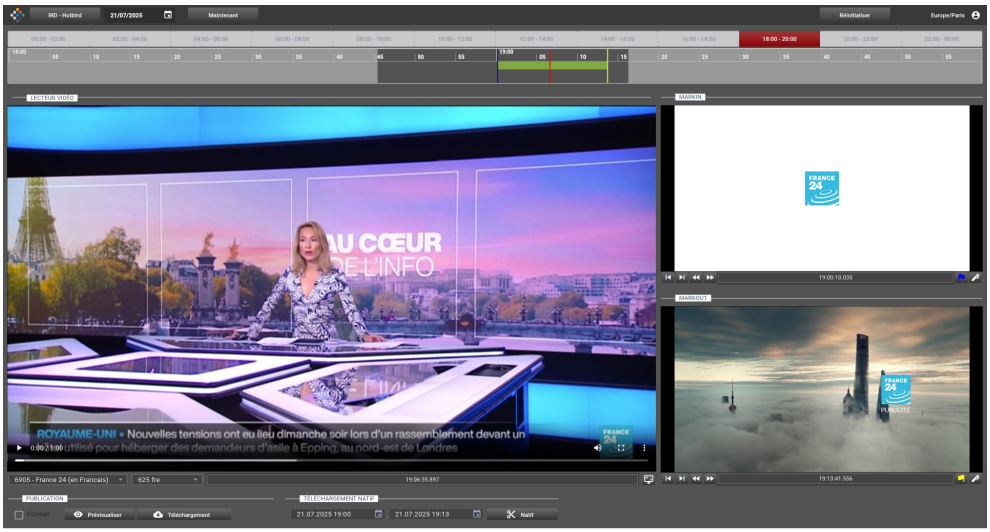


Figure 1 - Consultation Interface | *Video*

- The first toolbar allows selection of recorder and date. Time range selection and timeline then enable temporal navigation.
- The main player displays video and facilitates selection of in and out points for the desired segment. This selection is refined through mark-in and mark-out players, which offer precise preview of each cut point and allow frame-accurate adjustments. All timecode zones are editable and allow rapid entry of points of interest when these are known.
- Exploitation of the selected segment is performed via a dedicated toolbar offering preview and download. When the publishing engine is available, a specialized area

allows metadata entry and direct content publication.

The entire interface benefits from keyboard shortcuts that streamline navigation and optimize extraction efficiency.

Audio consultation ● The audio consultation interface adopts the video interface ergonomics while simplifying it. It retains the recorder, date, and working period selection tools, as well as the enriched timeline for program navigation. The audio player naturally replaces the video player, while cut point selection and adjustment functions remain identical. This interface consistency facilitates adoption for users working with both content types.

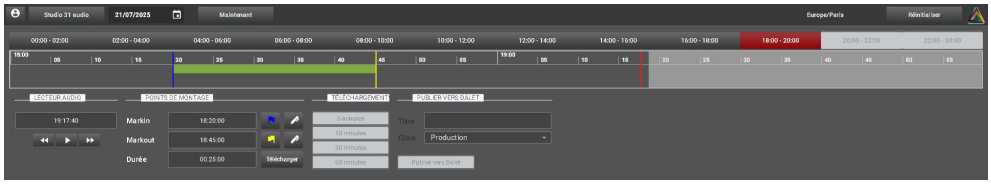


Figure 2 – Consultation Interface | *Audio*

5.2 ADMINISTRATION INTERFACE

5.2.1 Configuration

This section allows solution configuration. The interface integrates configuration backup and restore functionality. This section is usually available only to administrators.

Configuration • This page centralizes management of recording sources that the system must process. Organization by recorder groups simplifies navigation and facilitates searching for similar programs throughout the solution's interfaces.

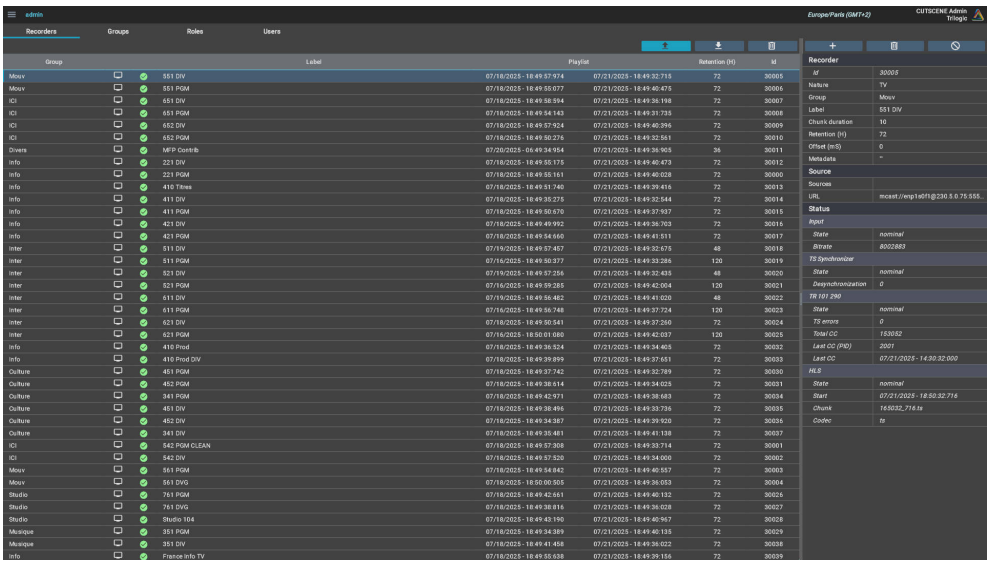


Figure 3 – Configuration Interface | *Sources and Recorders*

Recordings ● Recording scheduling is organized around an intuitive calendar view presenting, for each day and each recorder, the time slots scheduled for publication. Beyond manual configuration of all parameters, the Excel format import/export functionality allows externalization and automation of complex configuration management, particularly necessary when processing large volumes of streams.

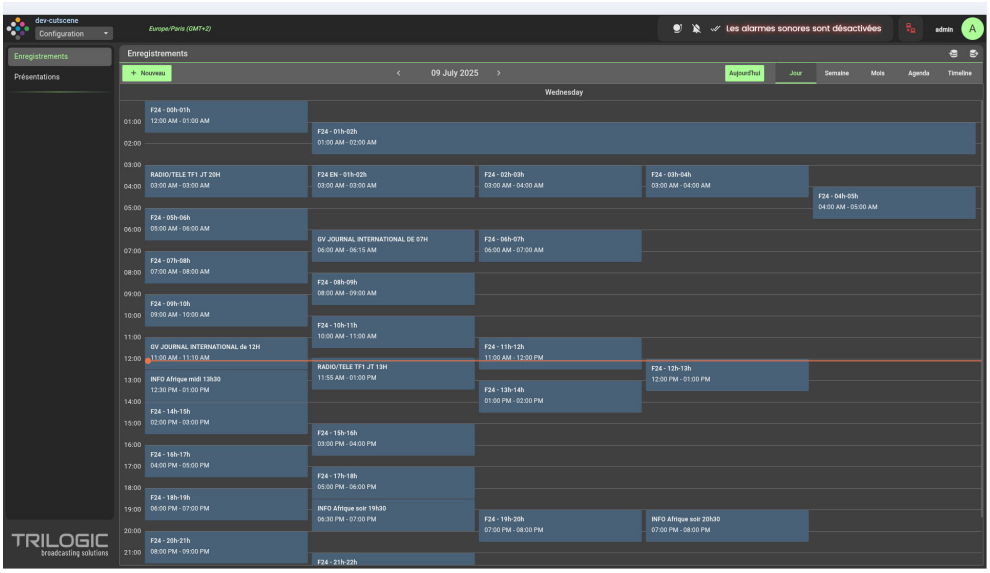


Figure 4 - Configuration Interface | *Recordings*

Layout ● This page administers the solution's graphics packaging element library. It integrates a WYSIWYG editor allowing composition of graphics packaging templates by overlaying graphic and text elements on the image. The interface, similar to professional editing tools, offers a timeline on which keyframes can be placed to animate element properties. A real-time preview system allows validation of rendering before application to content.

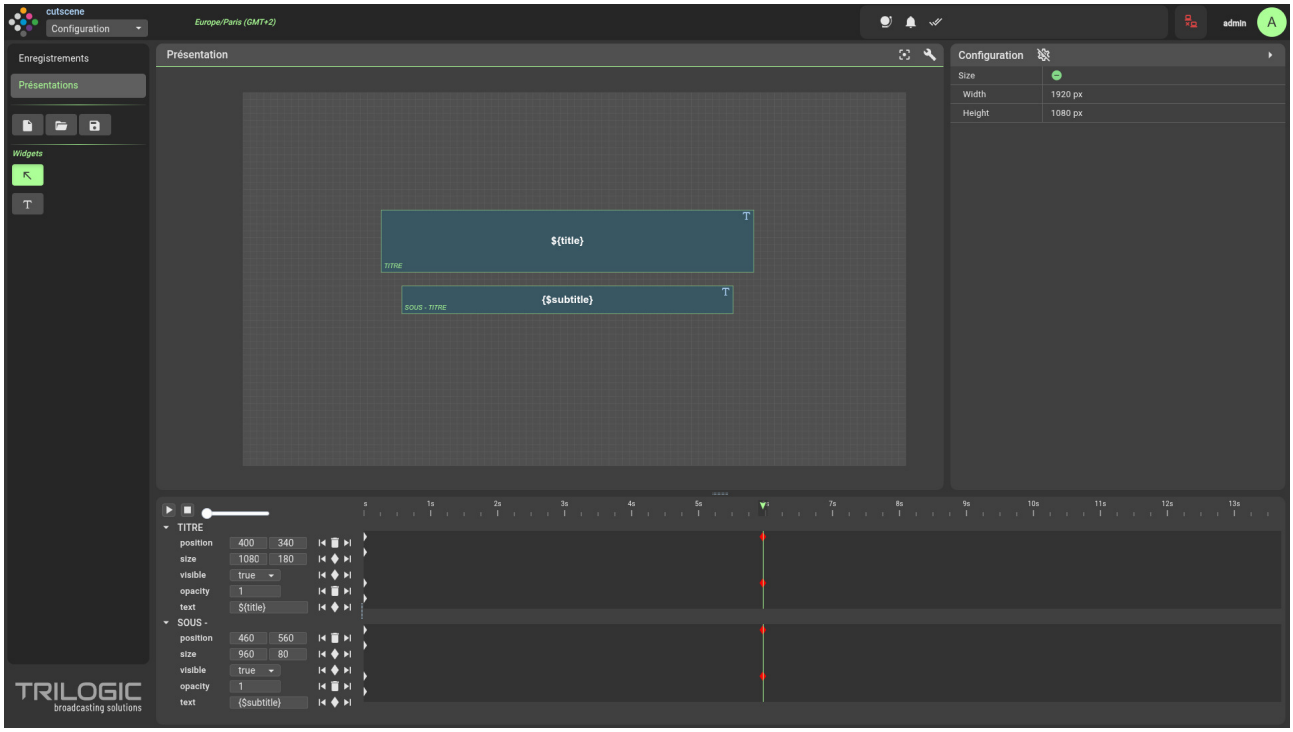


Figure 5 – Configuration Interface | *Layouts*

5.2.2 Supervision

This section brings together monitoring and diagnostic tools allowing operational teams to track system activity in real-time. Designed to offer a clear and synthetic view of solution operation, these interfaces enable users to quickly detect anomalies and analyze operation history, without requiring modification rights on system configuration.

Publications ● The publishing page centralizes management of scheduled distribution tasks. It offers an overview of all planned publications with their current status, allowing consultation of each operation's details, cancellation of a pending publication, or restart of a failed process.

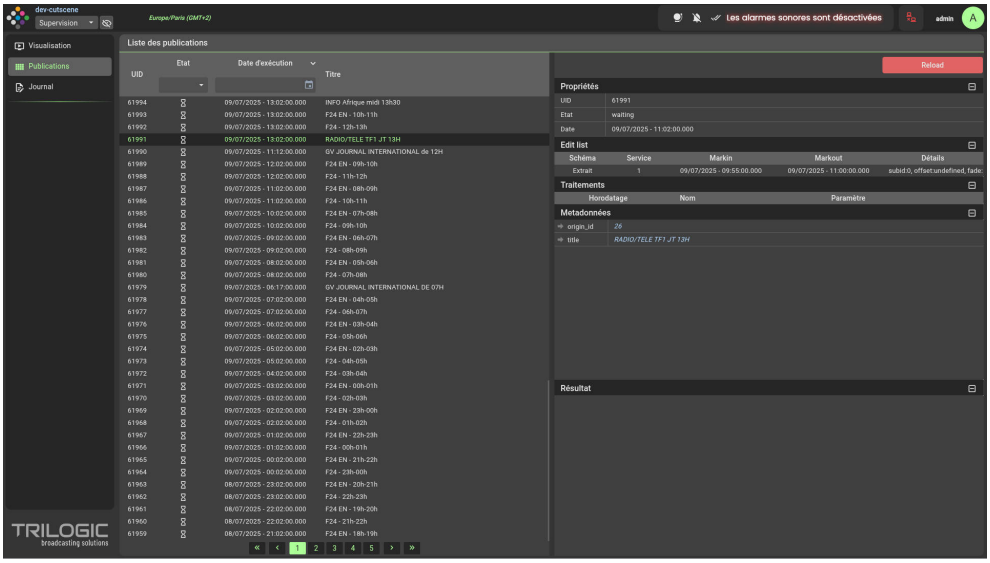


Figure 6 - Configuration Interface | *Publications*

Log ● This page allows consultation of all events recorded by the system. It offers filtering of information by date, group, or recorder. Date, group, or recorder filtering tools facilitate searching for specific information, while CSV format export function allows in-depth data analysis or their integration into external reporting tools.

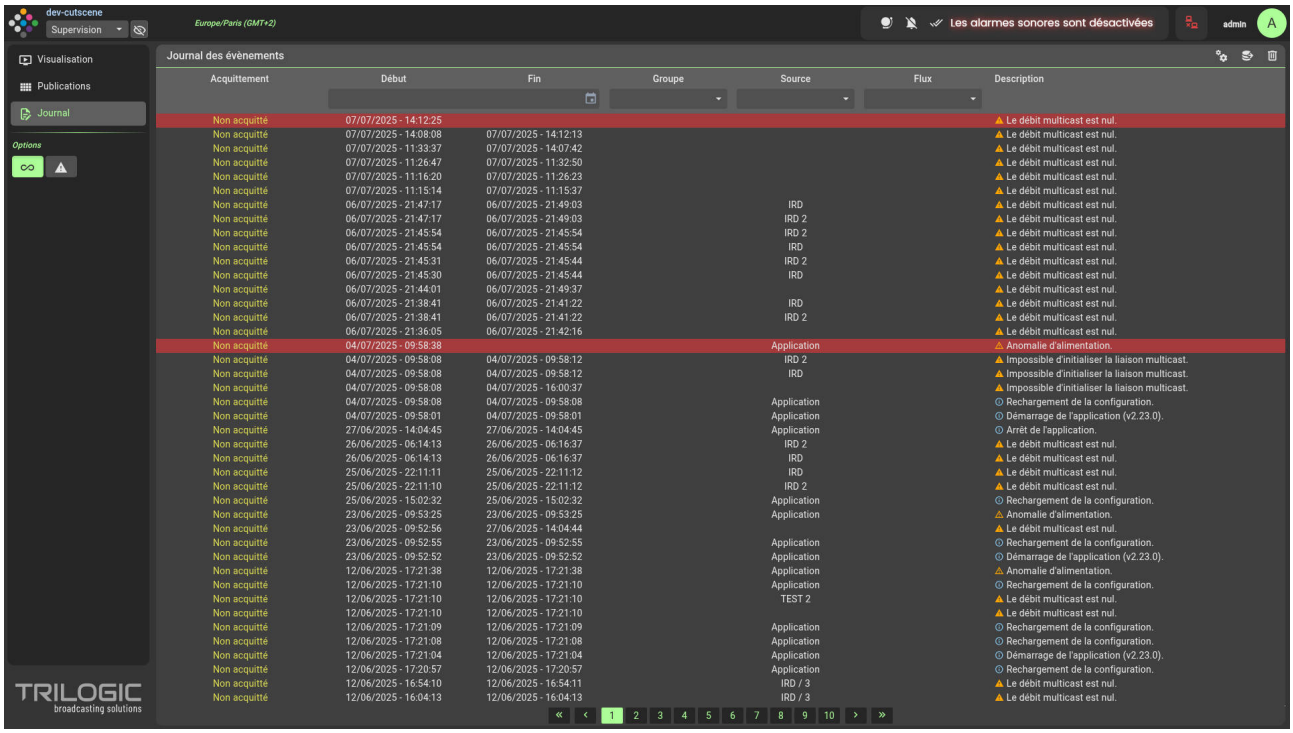


Figure 7 – Configuration Interface | *Logs*

5.2.3 Administration

This section is dedicated to configuration and supervision of the system itself. It includes hardware health display via dashboard, user management, specific role assignment, as well as system maintenance tasks.

Authentication ● This page allows configuration of roles and users. Each user can be assigned different rights that restrict their action capabilities on the system. It is also possible to configure API tokens for solution access by third-party systems.

Files ● This page allows transfer of files such as images or scripts to the server.

System ● This page allows supervision of all system parameters: RAID system, memory and CPU usage, power supplies, or network throughput. It also allows performing maintenance operations on the server: restart, shutdown.

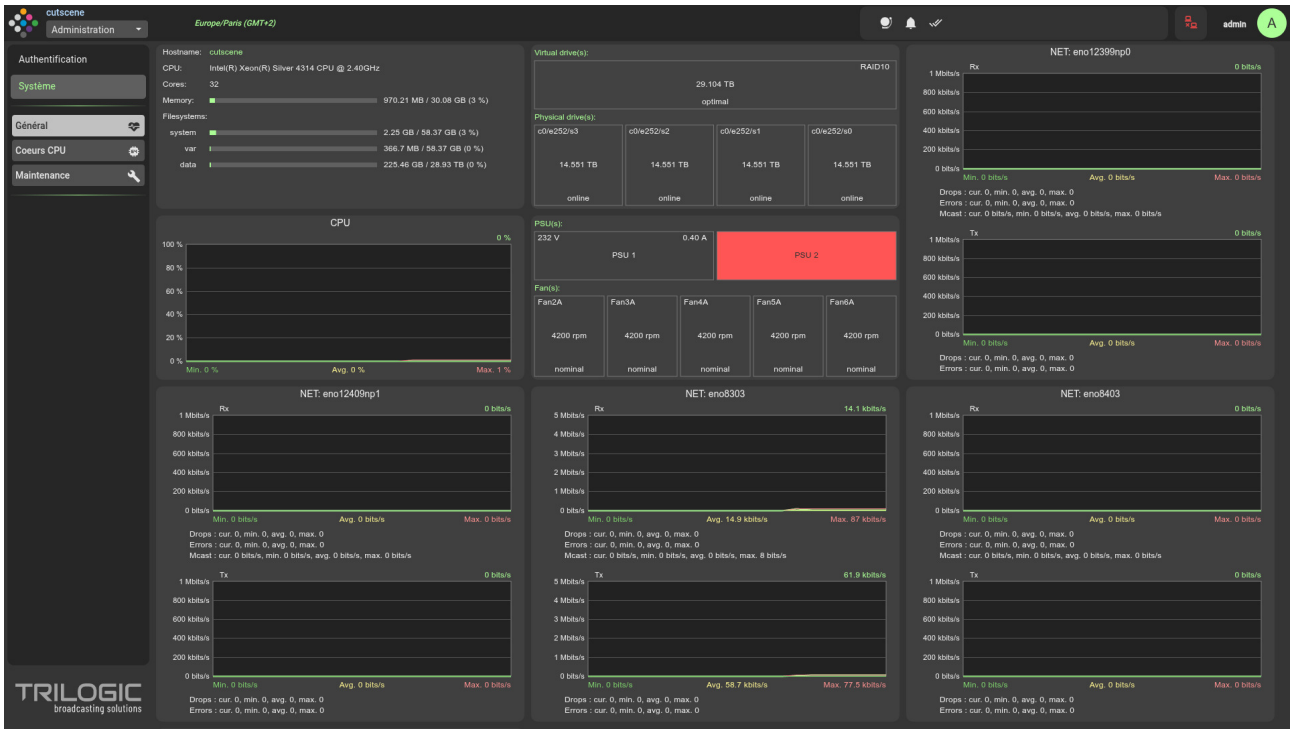


Figure 8 – Configuration Interface | *System Administration*

6 ALCYONE CUSTOMIZATION

Alcyone's ability to adapt to each client's specific needs constitutes one of its major strengths. This customization can take several forms, from adding simple metadata in the configuration to developing custom modules.

6.1 JAVASCRIPT ENGINE

At the heart of Alcyone's customization capabilities lies a JavaScript engine that allows extending the solution's functionalities. It is thus possible to write scripts interacting with all functional modules to program specific behaviors adapted to your production needs.

This engine offers extensive possibilities: creation of conditional publishing rules, third-party system integration via their APIs, custom report generation, or implementation of specific business validations. This approach allows Alcyone to adapt to the most complex business processes while preserving the solution's core integrity.

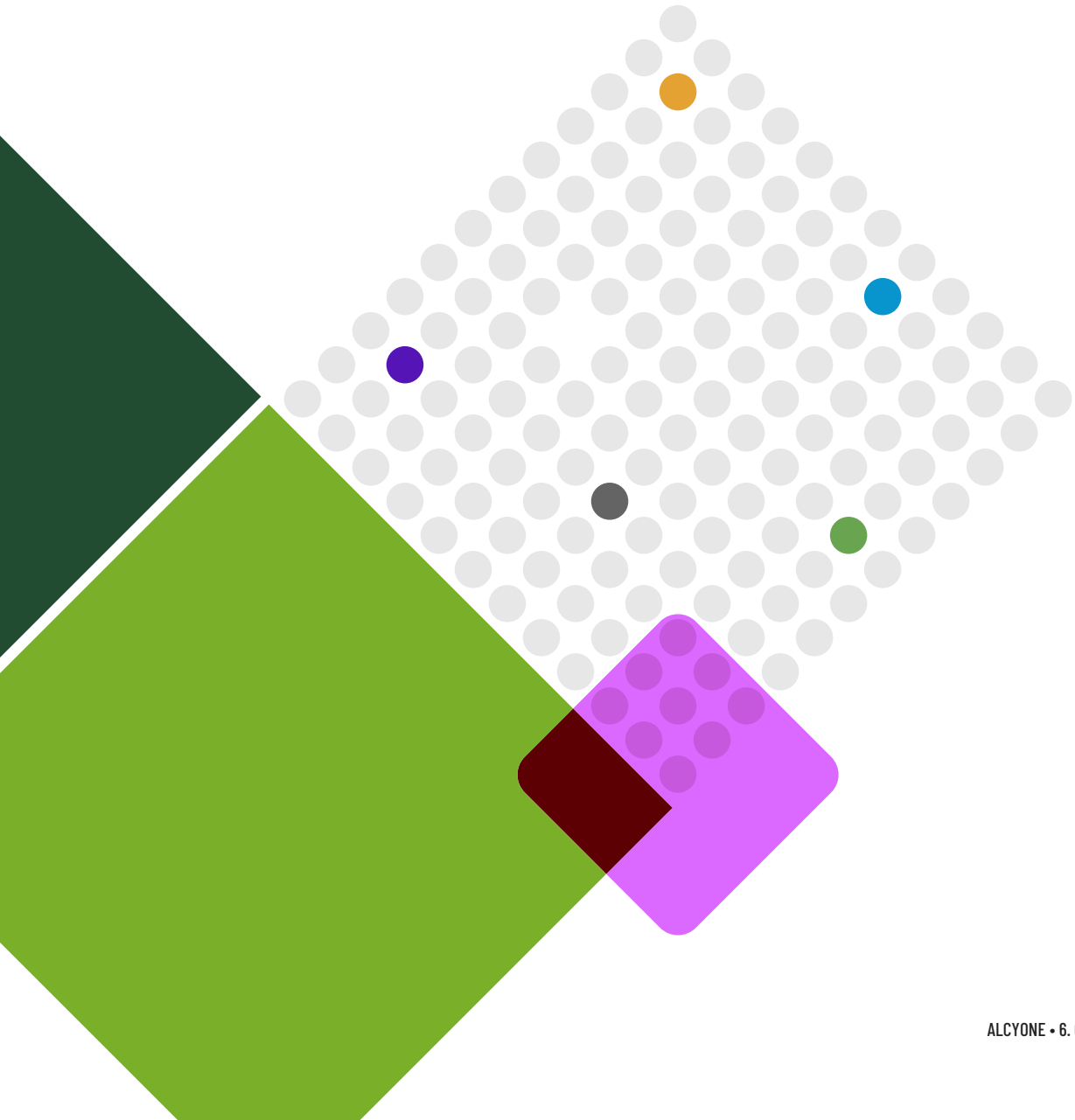
The use of a widely adopted language, accompanied by complete documentation and practical examples, facilitates adoption by your development teams. We also remain at your disposal to assist you or directly handle the development of these scripts according to your preferences.

Program Guide ● A frequent use of the JavaScript engine concerns automatic ingestion of rundowns and chaptering information. In the absence of standardized exchange formats and given the diversity of client infrastructures, using custom scripts is essential to adapt to each environment's specificities. It is thus possible to monitor directories to detect arrival of new descriptive files (XML, text) or regularly query third-party APIs to retrieve programming data. This approach allows processing various information sources such as broadcast previews, as-run logs, or studio usage schedules, thus enriching the system with metadata necessary for automatic extraction control or generation of structured content according to program schedules.

Publishing ● The main use of the JavaScript engine lies in writing publishing scripts that define the entire content processing workflow. Executed by the publishing module, these scripts control the editing module based on dynamic criteria such as metadata associated with the request or recorder configuration parameters.

It is thus possible to orchestrate complex workflows integrating for example:

- selection of output formats and target destinations,
- application of video transformations and graphics packaging,
- thumbnail generation,
- integration with third-party tools such as external subtitling modules or audio processing,
- creation of XML descriptive sheets intended for media management systems (DAM/MAM).
- content distribution, whether through API publishing, secure file transfer, or deposit on remote servers



6.2 INTERFACE CUSTOMIZATION

The operational interface is an element that heavily depends on how the tool is used. An interface designed for simple visual broadcast control is ergonomically very different from an interface designed for editing. Similarly, depending on data available in the information system or considered publishing methods, the interface can be more or less complex.

Alcyone is provided with a simplified interface covering most use cases, but we can also work with you to design customized interfaces meeting your more specific needs or aligning with your ergonomic preferences.

Figure 9 - RTL

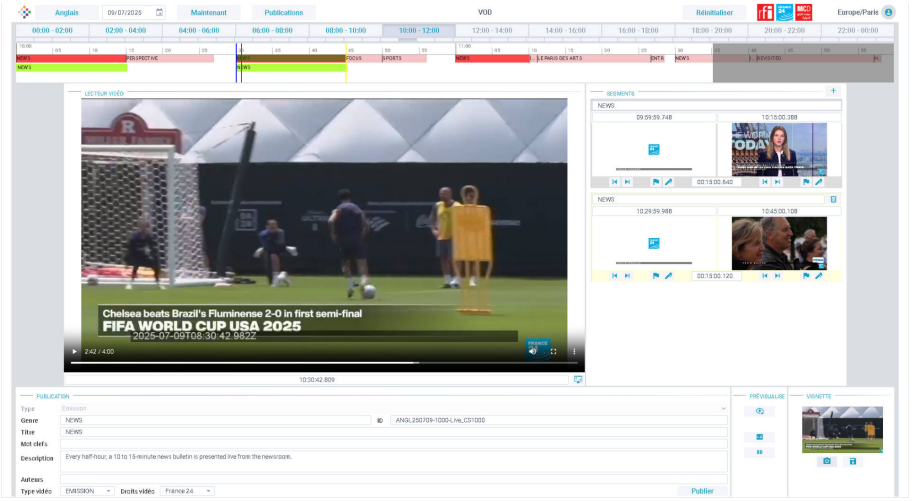


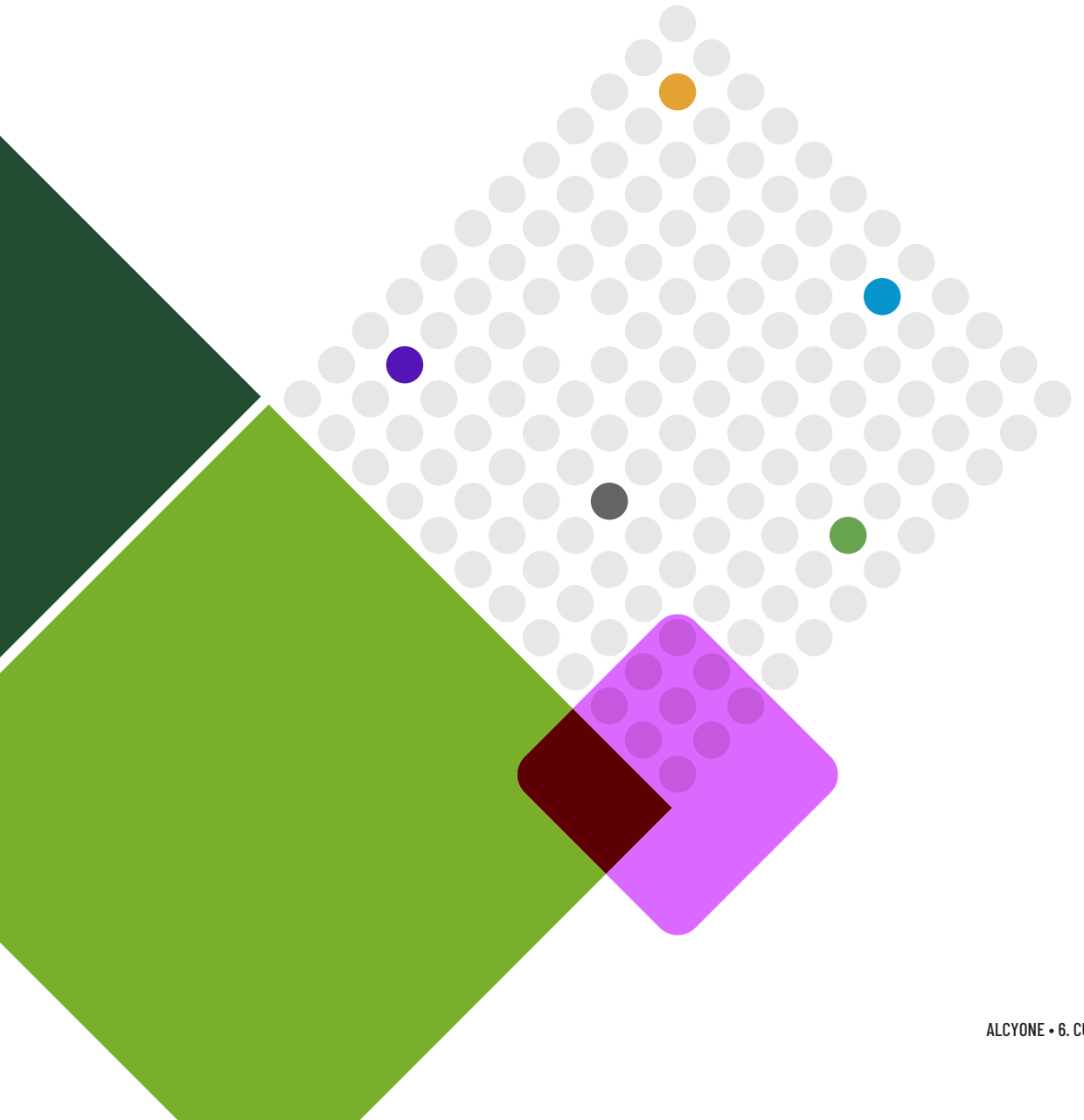
Figure 10 - France 24

6.3 FEATURE ADDITION

If the customization capabilities offered by the solution are not sufficient to meet your requirements, Trilogic's development team can design custom modules. These developments benefit from our deep broadcast domain expertise and our complete mastery of the solution.

We can thus extend Alcyone's capabilities: integration of new acquisition standards, support for emerging codecs, development of new functional modules, or adaptation to proprietary protocols - everything is possible.

Don't hesitate to contact us so we can discuss the problems or challenges you encounter.



7 ALCYONE TRILOGIC

Trilogic is a French company, in business since 1989, specialized in the design and development of professional solutions for digital broadcasting (terrestrial broadcast, cable, satellite, telecom operators). Our engineering team has recognized expertise in DVB technologies and IP video. This technical competence allows us to offer an extensive range of products for digital television and radio, as well as new multi-screen broadcasting methods.

7.1 OUR ACTIVITY

Our activity is structured around three main areas:

Development
- Our main activity is the design of software solutions in the multimedia field, particularly for the broadcast sector. Our products are based on current technologies (OTT, HEVC, 4K, etc.) and are designed to meet the needs of various players: television and radio channels, broadcast operators, equipment manufacturers, or hospitality. Reliability, ergonomics, modularity and customization are the key concepts of our products that facilitate their integration and adoption, always serving the people who operate them. Throughout the entire product lifecycle, from study to production deployment, including support and maintenance, you benefit at all times from easy and direct access to our team's expertise and advice.

Expertise and Consulting
- The experience gained through projects and collaborations over recent decades allows us to technically support you across the entire video broadcast chain, whether traditional or IP-based (OTT). Multiplexing, DVB, HbbTV, EIT, DVB, SRT or SMPTE 2110 are some examples of technologies we master and on which we are able to provide our support.

DekTec
- Among the very first users of DekTec products (Modulation cards, SDI interfaces, DVB analyzer...), we have been ensuring exclusive distribution of this equipment in France since 2003. Our technical expertise on this range allows us to provide informed advice and local support including for integration of DekTec cards into your own software solutions.

7.2 OUR OTHER SOLUTIONS

Broadcasting | Cygnus is an audio/video encoding and broadcasting solution designed for professional environments. It enables real-time encoding, multiplex creation, and live broadcasting, with redundancy and automatic failover mechanisms to ensure service continuity.

Cygnus ensures optimal broadcasting to social networks or traditional broadcast channels, thus meeting the needs of broadcasters and network operators.

Supervision | Lyrae is a versatile supervision, analysis, and visualization solution for audiovisual services designed to adapt to the needs of different broadcast players. It allows supervision of service quality and user experience throughout the broadcast chain, from baseband signal acquisition to modulated returns.

Compatible with a wide range of heterogeneous signals and easily integrable, Lyrae can be used as an autonomous analysis probe and/or mosaic generator. Its distributed architecture and integrated JavaScript engine allow it to adapt to the specificities of each broadcast environment.

7.3 REFERENCES

Integrators, television or radio channels, audiovisual groups, broadcast operators or equipment manufacturers, more than 400 clients around the world have trusted us.

TRILOGIC
broadcasting solutions

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