



THE COMPLETE AUDIO & VISUAL MEDIA PLATFORM

RADIO · TELEVISION · STREAMING · DIGITAL



INTELLECTUAL PROPERTY RIGHTS STATEMENT

Spectrum On Air / XPTV3 Integrated Automated Broadcasting System

Proprietary and Confidential

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1. Purpose of this Document

This document records and describes the intellectual property, technical know-how, system architecture and original methods developed in connection with the automated broadcasting infrastructure operated by Spectrum On Air Radio and XPTV3 Television.

The system has been developed using a combination of commercially available, industry-standard broadcasting, audio, video, streaming, scheduling and computer technologies.

No claim of ownership is made over third-party software, hardware, protocols or other intellectual property belonging to their respective manufacturers, developers or licensors.

The intellectual property described in this document concerns the original manner in which these technologies have been selected, configured, interconnected, controlled and automated to create an integrated broadcasting environment capable of operating radio and television services with exceptionally limited routine human intervention.

2. The System

The Spectrum On Air / XPTV3 broadcasting infrastructure has been developed as an integrated automated broadcast system.

Rather than operating the individual software and hardware components simply in the manner supplied by their respective manufacturers, a substantial additional automation and control layer has been developed around them.

This layer coordinates multiple broadcasting functions and allows otherwise independent systems to operate together as a single broadcasting environment.

The resulting installation should therefore be considered not merely as a collection of broadcasting products, but as an integrated broadcasting system incorporating original configuration, automation, scripting, control logic and operational methodology.



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3. Nature of the Intellectual Property

The intellectual property associated with the system potentially exists in several distinct areas.

System architecture: The overall architecture by which individual broadcasting, scheduling, playout, audio, video, streaming and monitoring systems have been interconnected.

Automation architecture: The methods developed to allow individual systems to communicate or interact automatically where such interaction is not necessarily provided as a standard function of the individual products.

Custom scripts and software: Original scripts, programs, macros and other software components written specifically for the broadcasting installation. These include scripts used to monitor system conditions, control broadcasting applications, detect operational states and initiate actions automatically.

Conditional broadcast logic: Original rules and decision-making processes determining what the system should do when particular conditions occur, including date, day of week, time, programme schedule, player/deck status, audio status, silence conditions, programme state, streaming status, availability of content, failure conditions and other operational conditions. The significance of this automation is that the system does not merely perform tasks according to a fixed timer. It can make predetermined operational decisions according to the current state of the broadcasting environment.

Application control: Methods developed for controlling applications which may not themselves expose every required function through conventional automation interfaces, including techniques whereby the operational state of an application can be determined and an appropriate automated action initiated.

Broadcast workflow: Original workflows covering the movement of programming through the broadcast environment from scheduling and preparation through playout, transmission and monitoring.

Monitoring and recovery processes: Methods of determining whether particular broadcasting or streaming functions are operating correctly and initiating appropriate actions or alerts when abnormal conditions are detected.

Technical configuration: The particular combination of settings, interfaces, scripts, timing mechanisms and dependencies necessary for the various components to operate reliably as one automated system.

Operational knowledge: Technical knowledge concerning how the individual components behave when operated together, including limitations, timing requirements, failure modes and methods for overcoming those limitations.

4. Originality of the Installation

Individual components of the installation may be commercially available and may be used by many other broadcasters.



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The originality of the Spectrum On Air / XPTV3 system does not depend upon claiming ownership of those individual products. Instead, its distinctive character lies in the particular combination, configuration, integration and automation of those products.

A useful comparison is that individual components of an industrial production line may all be commercially available. Nevertheless, the engineering required to arrange those components into a new automated production process can itself contain substantial intellectual property and proprietary know-how.

The same principle applies to this broadcasting installation. The individual components perform particular functions. The Spectrum On Air / XPTV3 automation architecture determines how, when and under what circumstances those components work together.

5. Automation as a Distinguishing Feature

A principal feature of the system is its ability to operate substantial elements of radio and television broadcasting automatically.

Traditional broadcasting environments commonly require operators to undertake programme switching, audio control, content loading, promo insertion, programme scheduling, stream management, monitoring, fault identification, source selection and intervention when particular broadcast conditions occur.

Within the Spectrum On Air / XPTV3 environment, a significant proportion of these activities can be performed automatically.

The system can use programmed logic to establish the current state of the broadcasting environment and determine the action required.

- the current day and time;
- whether a particular programme or broadcasting condition applies;
- which broadcast source is currently active;
- whether an audio source is playing;
- whether another source is available;
- whether an intervention is required;
- which application or device must be controlled;
- the sequence in which actions must occur; and
- when normal broadcasting should subsequently be restored.

This creates an event-driven and condition-driven broadcasting environment rather than merely a collection of scheduled applications.



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6. Layered Automation

An important characteristic of the installation is the use of multiple automation techniques.

Where a broadcasting application provides a suitable scripting or automation interface, that interface can be used directly. Where the required function is not exposed by the application, additional automation techniques can be employed.

Consequently, the system can combine application-level scripting with operating-system automation, monitoring and other control mechanisms. This enables functionality to be achieved across several otherwise independent applications.

The design and implementation of this layered control architecture represents a significant element of the technical know-how embodied in the installation.

7. Radio and Television Integration

The intellectual property is not restricted to the operation of a single radio automation application.

The wider system has been designed around the requirements of operating both Spectrum On Air Radio and XPTV3 Television.

The architecture therefore incorporates the different requirements of audio broadcasting, video broadcasting, programme scheduling, streaming, monitoring and associated content management.

The ability to combine these processes within a highly automated operational environment is one of the distinguishing characteristics of the installation.

8. Development Through Experimentation

The system has not been produced simply by following the installation instructions supplied with commercial software. It has been developed progressively through practical experimentation, testing and refinement.

- software limitations;
- undocumented or unexpected application behaviour;
- timing dependencies;
- interaction between applications;
- automation failures;
- recovery procedures;
- reliable operating sequences;
- monitoring techniques; and
- alternative control methods where conventional interfaces were insufficient.



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The resulting working configuration therefore incorporates accumulated technical knowledge derived from the development process.

Reproducing the installation would require considerably more than purchasing the same commercial software. A third party would also need to reproduce or independently develop the architecture, configuration, automation logic, scripts, operating procedures and technical knowledge required to make those components function together in the same manner.

9. Intellectual Property Components

The proprietary elements of the installation may include, where applicable:

- original computer scripts and source code;
- automation routines;
- configuration files;
- system diagrams;
- workflow documentation;
- technical manuals;
- operating procedures;
- scheduling methodologies;
- monitoring systems;
- fault-detection logic;
- recovery procedures;
- conditional automation rules;
- application-control methods;
- databases and original database structures;
- interfaces between broadcasting systems;
- bespoke utilities;
- software configuration information;
- technical documentation;
- testing procedures; and
- confidential technical know-how.

Each element should be considered separately when determining the intellectual property rights applicable to it.

10. Copyright

Original software, scripts, documentation, diagrams, manuals and other qualifying original works created specifically for the system may be protected by copyright.



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Third-party software remains the copyright of its respective owner and is used subject to the applicable licence conditions.

The proprietary claim made in relation to the Spectrum On Air / XPTV3 installation concerns original material created for the installation and does not extend to the underlying source code or other intellectual property of third-party products.

11. Confidential Know-How and Trade Secrets

Certain elements of the system may have value specifically because they are not generally known.

- detailed configuration information;
- automation architecture;
- control sequences;
- scripts;
- system credentials and security arrangements;
- integration methods;
- technical workarounds;
- fault-recovery procedures;
- operating rules;
- unpublished system diagrams; and
- knowledge acquired through experimentation and development.

Where commercially valuable information is intended to remain confidential, access should be restricted and disclosure should be subject to appropriate confidentiality or Non-Disclosure Agreements.

The complete technical architecture should not therefore be disclosed unnecessarily to contractors, suppliers, broadcasters or other third parties.

12. Potential Patentable Elements

No assertion is made by this document that the complete system, or any particular component of it, is necessarily patentable.

However, if any part of the system implements a genuinely new and inventive technical method that produces a technical effect beyond the normal operation of the underlying computer software, specialist patent advice should be obtained before that method is publicly disclosed.

Particular attention should be given to any original technical method developed for automated broadcast control, cross-application control, detection of broadcasting states, automated recovery, stream monitoring, synchronisation, failover, audio/video switching, autonomous broadcast decision-making or integration of otherwise incompatible broadcasting systems.



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Such features should be documented separately so that their possible patentability can be assessed by an appropriately qualified patent attorney.

13. Ownership

Subject to any third-party rights, employment arrangements, commissioned development agreements or other contractual provisions, the intellectual property created specifically in developing the proprietary elements of the system should be identified and recorded as assets of the appropriate owner.

Where the intention is that these rights belong to Spectrum On Air Ltd and/or XPTV3, records should clearly identify the creator, date of creation, purpose of the work, version, subsequent modifications and intended owner of the intellectual property.

Where external developers or contractors contribute software or other intellectual property, written agreements should expressly address ownership and assignment of the resulting rights.

14. Evidence of Development

A technical development archive should be maintained as evidence of the creation and evolution of the system.

- dated copies of source code;
- scripts;
- configuration files;
- system diagrams;
- development notes;
- screenshots;
- test results;
- fault logs;
- change logs;
- version histories;
- technical correspondence;
- installation instructions;
- operational manuals; and
- records explaining why particular technical solutions were developed.

These records provide evidence that the installation and its proprietary components were independently developed and establish a chronology of their development.



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15. The Intellectual Property Claim

The intellectual property claim associated with the Spectrum On Air / XPTV3 installation can therefore be summarised as follows:

The proprietary intellectual property does not reside in ownership of the individual commercial broadcasting products used within the installation. It resides in the original software, scripts, documentation, configuration, architecture, automation logic, integration methodology, operational processes and technical know-how developed to cause those otherwise independent products to operate together as a highly automated integrated radio and television broadcasting system.

The combination has been developed specifically for the operational requirements of Spectrum On Air and XPTV3 and represents accumulated technical development, experimentation and expertise.

16. Statement of Proprietary Rights

Unless otherwise identified as third-party intellectual property, the original automation scripts, technical documentation, system architecture documentation, operating procedures, configuration methodology and other original materials produced specifically in connection with the Spectrum On Air / XPTV3 Integrated Automated Broadcasting System are proprietary.

They should not be copied, reproduced, disclosed, distributed, reverse engineered from confidential documentation, or supplied to third parties except where authorised by the rights holder or permitted by law.

Third-party products, software and intellectual property remain the property of their respective owners and nothing in this statement is intended to assert ownership over such third-party rights.



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17. Conclusion

The Spectrum On Air / XPTV3 installation represents more than the installation of commercially available broadcasting software.

Its value lies in the technical architecture that has been developed around those products.

Through original scripting, automation, configuration, integration, monitoring and operating methodology, individual broadcasting technologies have been transformed into an integrated system capable of carrying out substantial broadcast operations automatically.

The principal intellectual property asset is therefore the complete body of original technical work and know-how required to reproduce the particular automated broadcasting environment.

This includes not only individual scripts or documents, but the knowledge of how the components interact, the sequence and conditions under which they are controlled, the methods developed to overcome their individual limitations and the architecture which allows the overall system to function as an integrated automated radio and television broadcasting platform.

Document: Intellectual Property Rights Statement

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