



Digital Sound Broadcasting Licensing Framework

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Final Version

Abbreviations and acronyms

DAB	Digital Audio Broadcasting
DRM	Digital Radio Mondiale
DSB	Digital Sound Broadcasting
DSO	Digital Switchover
DTT	Digital Terrestrial Television
DVB-T	Digital Video Broadcasting - Terrestrial
EEP	Equal Error Protection
EPG	Electronic Programme Guide
FM	Frequency Modulation
HD Radio	High Definition Radio
ITU	International Telecommunications Union
Kbps	Kilobits per second
MHz	MegaHertz
MP2	File extension for MPEG-1 Audio Stream, Layer II file format
MPEG	Moving Picture Experts Group
PSB	Public Service Broadcasting
RF	Radio Frequency
SFN	Single-frequency network
SI	Service Information

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Definitions

In this framework, it is proposed that unless the context otherwise indicates, a word or expression to which a meaning has been assigned in the Act, has the meaning so assigned as follows.

“Act” means the Kenya Information and Communications Act, Cap 411A any successor legislation and any subsequent amendments made thereto;

“Analogue sound broadcasting” means terrestrial broadcasting where the sound broadcast signal is in analogue format and “analogue sound broadcast” shall be construed accordingly;

“Applicant” means a person applying to provide a broadcasting service in terms of the Processes and Procedures Regulations;

“Broadcasting Signal Distribution” means the process whereby the output signal of a broadcasting service is taken from the point of origin, being the point where such signal is made available in its final content format, from where it is conveyed, to any broadcast target area, by means of electronic communications and includes multi-channel distribution;

“Digital Sound Broadcasting (DSB)” means an audio broadcasting technology intended to deliver superior quality sound using digital communications technology. It is a digital signal delivery system capable of delivering sound and data;

“Digital sound broadcasting services” means a broadcasting service delivered over a DSB platform.

“Multi-channel distributor” has the same meaning as defined in the Act;

“Multiplexer” means a device or unit that combines multiple analogue or digital signals into a single data stream over a shared medium or platform;

“Licensee” has the same meaning as defined in the Act;

“Radio Frequency Spectrum Licence” has the same meaning as defined in the Act;

“Simulcast” means a simultaneous transmission of the same sound broadcasting service on two or more channels or media;

“Sound broadcasting service” has the same meaning as defined in the Act;

1. Introduction

The Communications Authority of Kenya is responsible for facilitating the development of the information and communications technology sector. In order to facilitate development of broadcasting services, one of the key activities under the Authority's 2018- 2023 Strategic Plan was the development and adoption of a digital sound broadcasting framework. This initiative has been carried forward to be finalised during the current strategic plan 2023-2028.

Currently, mainstream radio broadcasting in Kenya is exclusively analogue and dominated by services using Frequency Modulation (FM), with an evident increasing demand for sound broadcasting services. In the major cities, including Nairobi, Nakuru, Mombasa, and Kisumu, the FM analogue band (VHF Band II) is at saturation, yet there are over 2,000 requests for FM sound broadcasting frequency assignments across the country. Reception quality of FM services suffers due to mutual interference between closely packed broadcast services within these areas where the band is either saturated or approaching saturation. The introduction of complementary radio broadcasting services using digital sound broadcasting therefore presents an opportunity to accommodate the growing demand for new services, with anticipated benefits of improved spectrum and power efficiency, improved quality and reduced costs.

The Authority has already developed a digital sound broadcasting framework to guide the introduction of digital radio broadcasting services in Kenya and the same has been approved for implementation. The digital sound broadcasting framework outlines the strategies, approaches, requirements, and critical factors for successful implementation of digital sound broadcasting in the country. One of the critical success factors is an adequate regulatory framework for licensing digital sound broadcasting services. This licensing framework is expected to provide the licensing requirements for DSB systems and services, the technical operational requirements of DSB stations, the market structure for DSB services including applicable licensing fees, and obligations of the players in the DSB ecosystem among other regulatory requirements.

Digital sound broadcasting services have been adopted in several countries worldwide as an add-on to FM radio services. These include the United Kingdom, Denmark, Norway, Germany, the Netherlands, Italy, France and Switzerland, and Australia. Additionally, many countries are carrying out DAB trials, including in Central and Eastern Europe, the Gulf States and South-East Asia. On the African continent, Tunisia has had a regular DAB service for several years while South Africa and Algeria have conducted DAB trials. Various DSB licensing models have been adopted across these jurisdictions depending on demand for the digital services, spectrum availability and existing regulatory frameworks and policies, among others.

This DSB licensing framework is being developed as part of the strategy to implement the DSB framework in Kenya and is proposed to be applicable for all current and future technologies, unless otherwise as may be prescribed by the Authority from time to time.

2. Objectives of the Framework

The objective of this licensing framework is to provide a regulatory mechanism for licensing of digital sound broadcasting services in Kenya and in particular:

- i. defines the market structure for DSB services
- ii. prescribes the licensing procedure for DSB services
- iii. prescribes the licensing requirements for an applicant seeking to provide DSB services
- iv. prescribes the licence terms and conditions for DSB services

3. Overview of Digital Sound Broadcasting

There are several DSB Systems recommended by the International Telecommunications Union (ITU) that operate in frequencies ranging from below 30MHz to 3000MHz. These systems include Digital Audio Broadcasting (DAB), ISDB-TSB, IBOC, Digital Radio Mondiale (DRM), Convergent Digital Radio (CDR) and Real-time AudioVisual Information System (RAVIS). While all these systems are intended for vehicular, portable and fixed reception, they have varying technical and operational characteristics relating to audio quality range, spectrum efficiency, channel capacity among others. DAB and DRM are of particular relevance to Kenya as they are recommended by the East African Communications Organisation, and are being considered as relevant DSB standards in the African Telecommunications Union strategy on introduction and implementation of DSB in Africa.

The adoption of the DAB standard in Kenya is based on the availability of spectrum in Band III (174-230MHz), the suitable band for its deployment. DAB is a mature technology with over 30 years of development from early trials in the 1990s to the rollout of regular services. Affordable DAB domestic receivers are already widely available as a mass-market product, enabling Kenya to benefit from economies of scale. Additionally, the country will benefit from best practices in respect of implementation, customer awareness, and financial savings as the digital systems offer cost efficiency for broadcasters.



Digital Audio Broadcasting systems are designed for delivery of high-quality digital audio and video programmes and data services for mobile, portable and fixed reception from terrestrial transmitters in the Very High Frequency (VHF) frequency bands as well as for distribution through cable networks. These systems are designed to provide spectrum and power efficiency in terrestrial transmissions through techniques such as the use of Single Frequency Networks (SFN) or Multi-Frequency Networks (MFN).

According to the ETSI EN 300 401 Standard, the DAB system provides a signal which carries a multiplex of several digital services simultaneously. The system bandwidth is about 1.5 MHz, providing a total transport bit rate capacity of just over 2.4 Mbit/s. The Standard describes the principle features of a digital audio broadcasting system as follows:

- i. Audio bit rates from 8 kbit/s to 384 kbit/s. This enables the multiplex to be configured to provide typically 10 to 20 audio programmes;
- ii. Programme Associated Data (PAD), embedded in the audio bit stream, for data which is directly linked to the audio programme;
- iii. Data services, whereby each service can be a separately defined stream or can be divided further by means of a packet structure;
- iv. Service Information (SI) for service selection, information and control functions of the receiver.

Terrestrial analogue radio broadcasting consists of a vertical structure or value chain in which content production and broadcast distribution are within the same organisation. However, digital radio broadcasting involves a more complex value chain in which infrastructure providers offer carriage for multiple content services, similar to digital terrestrial television. DSB consists of three main sub-systems: content generation, signal distribution, and consumer reception, as shown in Table 1.

Table 1: DAB Network Structure

Content generation	Signal Distribution			Reception
Broadcaster	Head end	Distribution network	Broadcast transmitter sites	Consumer Receiver Set
Radio Station 1 . . . Radio Station n	Encoder and Multiplexer	Various technologies: Satellite, Microwave, Optical Fibre	Transmission Equipment 	Integrated Receiver 

Content generation consists of the production of content in a studio and converting it into a digital format required at the head-end of the signal distribution subsystem. The signal distribution sub-system comprises of all network components from the head-end up to the broadcast transmitter sites. The last element is the reception of the radio programme at the consumer end. These functions can be executed by distinct entities such that the broadcasters focus on content generation, while the signal distributors transmit and distribute the signal to the radio audiences. In this respect, this licensing framework shall consider the various players in the value chain and the obligations to be met by each of them.

The number of multiplexes to be deployed in a DSB network depends on spectrum availability and the demand for services. The number of national, regional and local layers to be deployed depends on the coverage demands for DSB services. Several countries that have already implemented DSB have adopted various models of licensing operators, with the majority having licensed up to three national DSB signal and several regional and local DSB signal distributors. In digital television, the main challenge with licensing of the national signal was inadequate provision for local insertion facilities, therefore there was little flexibility for small broadcasters since they were required to be carried in a package of a minimum number of sites even when they did not have the interest or capacity to cover all the broadcast areas in the prescribed packages. In order to avoid similar challenges, it is therefore important to license local DSB signal distributors. This may be undertaken after national DSB operators have implemented their networks, and specific gaps identified so as to minimise the risk of fragmenting the market to levels that are not sustainable.

A key factor in the development of this regulatory framework is that the introduction of digital sound broadcasting services that will not necessarily require to replace FM or AM sound broadcasting but permits its adoption as an add-on technology that can coexist with existing analogue FM services in the long term. This is due to the fact that these technologies mostly operate on different frequency bands. For instance, in the UK, where DAB was launched in the year 1999, FM is expected to continue until at least 2030 according to the Digital Radio and Audio Review commissioned by the UK Department for Digital, Culture, Media and Sport. Norway is the only country that has already switched off analogue FM radio in 2017 while Switzerland has set 2024 for analogue FM switch off date.

4. Proposed DSB Licensing Framework

The Kenya Information and Communications Act (KICA) 1998 mandates the Authority to promote and facilitate the development of broadcasting services, in keeping with the public interest, of a diverse range of broadcasting services in Kenya. The KICA mandates the Authority to license all systems and services in the communications industry, including broadcasting, and to manage the use of radiofrequency spectrum resources. The Authority has therefore developed this licensing framework to provide guidance on the licensing of the DSB systems and services in Kenya.

4.1. Market Structure

The DSB market structure shall consist of Broadcasting Signal Distribution and Digital Sound Broadcasting services.

4.1.1. Digital Sound Broadcasting Signal Distribution services

The Digital Sound Broadcasting Signal Distribution services shall be licensed under the following categories.

4.1.1.1. National Broadcasting Signal Distribution Services

The existing already licensed common carrier national BSDs are eligible to offer DSB services, in addition to the existing DTT services if interested without the need to obtain a new licence. A holder of this category of licence will be required to apply directly to the Authority for assignment of DSB and STL frequencies necessary for the broadcast signal distribution infrastructure, subject to payment of applicable frequency fee as per schedule in section 4.4. The existing BSDs will however require to also apply for modification of their current licences to accommodate the DSB frequencies and related requirements.

Existing Self-provisioning BSDs wishing to provide digital sound broadcasting services may apply to upgrade their licences to national common carrier BSD to provide both DTT and DSB. The applicable fees shall be as per the market structure in section 4.3 and an existing BSD licensee wishing to upgrade their licence to this category will be required to pay the fee difference for the remainder period of their existing licences.

4.1.1.2. National Digital Sound Broadcasting Signal Distribution services

Distribution of the digital sound broadcasting services on a national level will require a national signal distribution licence. The services under this licence will consist of setting up of infrastructure at the designated transmission sites across the country and the carriage of broadcasters' content on the distribution platform at a national level. This category of DSB signal distributor will only carry broadcast content from licensed digital sound broadcasting service providers and will be required to provide information to the Authority on the operations on their platform as may be prescribed. The licence duration shall be 15 years renewable upon satisfactory performance. Initial and annual operating licence fee shall be harmonised with the fees for existing DTT Self-provisioning BSD licence category (see Table 2 under section 4.3).

4.1.1.3. Local/regional Signal Distribution Services

Local/Regional signal distribution service licence will allow for the distribution of digital sound broadcasting services within restricted location(s) in the country, as shall be defined by the Authority. This category of DSB signal distributor will only carry broadcast content from licensed digital sound broadcasting service providers and will be required to provide information to the Authority on the operations on their platform as may be prescribed. The licence duration shall be 15 years renewable upon satisfactory performance. Initial and annual operating licence fee for local and regional DSB signal distributors shall be harmonised with that of existing Network Facility Provider-Tier 3 (NFP-T3) Licence under the Unified Licensing Framework (see Table 2 under section 4.3). A holder of this category of licence will be required to apply directly to the Authority for assignment of DSB and STL frequencies necessary for the broadcast signal distribution infrastructure in authorised sites.

It is proposed that Local/Regional BSD will operate with coverage within one county to a maximum of six (6) adjacent counties.

4.1.2. Digital Sound Broadcasting services

Applicants for Digital Sound Broadcasting services shall be licensed to provide digital radio broadcasting content services under the following categories:

4.1.2.1. Public digital sound broadcasting services

This category shall be limited to the entity designated by KICA as public broadcaster (Kenya Broadcasting Corporation for the time being). Public DSB services will be provided by the designated public broadcaster as provided in the Act, and the applicable licence fees shall be as provided in the market structure in Table 2 under section 4.3.

The Authority shall require the licensed Broadcast signal distributors to reserve capacity on their platforms for public broadcasting services as may be prescribed under ‘must carry’ rules.

4.1.2.2. Commercial digital sound broadcasting services

The Authority shall licence entities to provide digital radio broadcasting services on a commercial basis as guided by the Act and the Authority’s licensing procedures. These services will be provided within the parameters of commercial free to air broadcasting services as provided in the Act and the licence terms and conditions.

Licensed commercial digital broadcasting service providers will be required to sign service level agreements with the licensed broadcast signal distributors for the transmission of their digital radio broadcast signals within authorized coverage areas.

Licensed commercial service providers may be allowed to provide more than one broadcast service on the DSB platform and will be required to obtain a licence for every distinct broadcasting service offered. The licensee will be allowed to provide authorized services in more than one designated transmitter site or coverage area, subject to availability of channels on the signal distributor’s platform.

The applicable licence fees are proposed in the market structure Table 2 under section 4.3.

4.1.2.3. Community digital sound broadcasting services

The Authority shall licence entities to provide community broadcasting services as prescribed by the Act and the Authority's licensing procedure. These services will be provided within the parameters of community free to air services as provided in the Act and the licence terms and conditions.

Community broadcasting services shall be restricted to the geographical areas of the community of interest. The licensees will be required to sign service level agreements with licensed signal distributors for the transmission of their broadcast content within the authorized coverage area. Community broadcasters will not acquire additional channels on the DSB platform without approval from the Authority.

The proposed applicable licence fees are provided in the market structure Table 2 under section 4.3.

4.2. Determination of Signal Distribution tariffs

It is proposed that the Authority will determine the tariffs that DSB broadcast signal distributors shall charge DSB service providers accommodated on the DSB platform. The tariffs for transmission and distribution of the DSB signals are expected to be cost based and will be reviewed from time to time. However, in the initial years of introduction of DSB service, licensed BSD providers shall be guided by market forces to determine their DSB signal distribution tariffs before the Authority eventually steps in to determine the cost based tariffs.

4.3. Licensing Fees

The applicable license fees for the license categories shall be as follows:

- Licence application fees
- Initial licence fees
- Annual operating licence fees
- Annual Frequency fees, where applicable

The Authority shall adopt the applicable licence fees for DSB system and service licences from the existing market structure as shown in Table 2.

Table 2: Broadcasting Market Structure applicable to DSB services

License category	Duration (years)	Application fees (KSHs)	Initial license fees (KSHs)	Annual Operation-fees (KSHs)
National common carrier Broadcast Signal Distribution	15	5,000	Determined by tendering process, where applicable (baseline bid price will be based on the last tendering process, and may include adjustments based on market dynamics)	0.4% of annual gross turnover or 800,000 whichever is higher
National Digital Sound Broadcast Signal Distribution	15	5,000	15,000,000	0.4% of annual gross turnover or 800,000 whichever is higher
Local/Regional Sound Broadcast Signal Distribution	15	5,000	200,000	0.4% of annual gross turnover or 160,000 whichever is higher
Public Digital Sound Broadcasting service	10	2,500	50,000	40,000
Public Digital Sound Broadcasting service (Commercial)	10	5,000	100,000	0.4% Of annual gross turnover or 80,000 whichever is higher
Commercial Digital Sound Broadcasting service	10	5,000	100,000	0.4% Of annual gross turnover or 80,000 whichever is higher
Community Digital Sound Broadcasting service	10	1,000	15,000	15,000

4.4. Frequency Utilisation Fees

The DSB frequencies shall only be assigned to licensed DSB signal distributors upon application in prescribed format and subject to availability. However, any licensee providing DSB services may apply for signal transmitter link frequency (STL) for linking their studio signal to appropriate insert or termination point of the DSB signal distributor's platform.

Applicable Frequency fees to be charged shall as per the existing approved frequency fee schedule ([or any subsequent revisions thereof](#)) available on the following web link:

<https://www.ca.go.ke/sites/default/files/CA/Frequency%20Procedures/Frequency-Fee-Schedule-Effective-1st-July-2018-0.pdf>

4.5. Licensing of Digital Sound Broadcasting Signal Distribution

Broadcasting Signal Distribution for DSB services will be provided by a BSD licensee as defined in the Act.

Broadcast signal distribution service licensing categories be as follows:

4.5.1. National Common Carrier BSD

Existing licences for DTT common carrier national BSD licensees namely Signet Signal Distributors Ltd and Pan Africa Networks (K) Group Ltd provide for signal distribution services for DSB. The Authority will therefore designate the existing common carrier BSD licensees, who explicitly demonstrate interest and capacity to rollout DSB platforms, to provide these services under their current licences that already include authorisation to provide radio services. Where necessary, amendments shall be made to the existing licences to ensure that all requirements of DSB are sufficiently provided for, including assignment of DSB frequencies.

The Authority may also make provisions for the DTT self-provisioning BSDs (SBSD) licensees to provide national DSB signal distribution services in cases where the current providers are interested. This shall include the review of the existing SBSBD licence to include provisions for DSB signal distribution and thereafter invite interested SBSBDs licensees to submit applications. The criteria for consideration of these applications will include availability of DSB frequencies, their compliance to the SBSBD licence conditions during the licence term and payment of initial fees to match the fee paid by Common Carrier BSDs. The Authority will develop the criteria to be met for upgrading the SBSBD licensees.

Whereas its is proposed to give priority to existing BSDs, the Authority may consider fast tracking the licensing new entities who have necessary capacity and demonstrate the capacity to fast track rollout of DSB network especially in the event existing BSDs fail to demonstrate that capacity.

4.5.2. National Digital Sound Broadcast Signal Distribution

The Authority may also consider licensing of new entrants to provide DSB signal distribution services subject to availability of spectrum. The Authority proposes to advertise for interested entities to submit applications to operate as National DSB signal distributors based on spectrum availability.

The applications are proposed to be evaluated competitively based on the prescribed criteria, including:

- The ability of the entity to commence operations of the BSD services and to achieve the rollout targets.
- the ability of the entity to establish the DSB services and maintain the services through the licence term.
- The capacity of digital broadcasting services available to be carried on the BSD platform that will appeal to diverse tastes and interests.
- The proposed rollout plan with timelines from the entity

To be eligible for assignment of DSB frequency, an applicant will be required to be in possession of a digital broadcast signal distribution licence.

4.5.3. Local/Regional Broadcast Signal Distribution

The Authority shall licence regional/ Local DSB signal distribution services to operate within restricted location(s) in the country, as defined by the Authority. The Authority shall invite or advertise for interested entities to submit applications to operate as local DSB multiplexes based on spectrum availability. Licensing of local BSD may be implemented after the licensing of common carrier BSDs and rollout of the national DSB network in order to address identified gaps.

The Authority proposes to apply the following criteria, among others while considering the applications for issuance of DSB multiplexes to local BSDs:

- The ability of the entity to commence operations of the BSD services and to achieve the rollout targets.
- the ability of the entity to establish the DSB services and maintain the services through the licence term.
- The capacity of digital broadcasting services available to be carried on the BSD platform that will appeal to diverse tastes and interests.
- The proposed rollout plan with timelines from the entity.
- The extent to which there is demand for DSB services in the proposed coverage area.

To be eligible for assignment of DSB frequency, an applicant will be required to be in possession of a digital broadcast signal distribution licence.

4.6. Licensing of Digital Sound Broadcasting services

The DSB services licence applications shall be considered on a first come first served basis in line with the existing licensing regime.

These categories are as follows:

- Public Digital Sound Broadcasting service licence
- Commercial Digital Sound Broadcasting service licence
- Community Digital Sound Broadcasting service licence

The Authority shall consider applications for these licence categories once the DSB platform have been deployed. The Authority shall make provisions for existing licensed FM broadcasters who are interested in providing DSB services. These provisions will include the requirements for the FM licensee to apply for DSB service licence and comply with licence conditions on termination of the FM services, including fulfilment of any outstanding obligations to customers on their platform.

4.7. Licensing Procedure

The minimum licensing requirements shall be defined for each license category under the DSB framework. The Authority shall develop the necessary licence application forms for the DSB signal distribution services and the DSB service providers. These forms will contain the requirements that should be met by entities interested in applying for respective DSB licences, including the frequency licence application forms where applicable.

The licensing process for DSB services shall be in line with the existing prescribed licensing procedures. Due to scarcity of radio frequency spectrum, the licensing process for provision of the BSD services will depend on spectrum availability.

The licensing requirements for the various categories shall be as captured in Table 3:

Table 3: Licence categories and applicable requirements

No.	Licence Category	Licensing requirements
1.	Existing common-carrier BSD licence interested in providing DSB signal distribution	<ol style="list-style-type: none">Common-carrier BSDs interested in providing DSB signal distribution will be required to apply for frequency spectrum in areas of interest through the prescribed application forms.Subject to availability of DSB frequencies, the Authority shall invite self-provisioning BSDs interested in providing DSB signal distribution to submit applications through the prescribed application forms, subject to payment of initial fees to match the fee paid by Common Carrier BSDs. The Authority will review the applications against the licensing criteria and due diligence to determine their capacity to provide DSB signal distribution services.The Authority will then require common-carrier and self-provisioning BSDs who have met the threshold set by the Authority, to submit their licences for revision to incorporate additional requirements for DSB including assigned DSB frequencies.

No.	Licence Category	Licensing requirements
2.	National Sound BSD	<ul style="list-style-type: none"> i. Subject to availability of frequencies, the Authority shall invite interested parties to apply for national sound BSD licences through prescribed application forms ii. The Authority shall review the submitted applications against the licensing criteria and due diligence to determine their capacity to provide the signal distribution services. iii. The Authority shall issue BSD licences to successful applicants, including the associated DSB frequency licences.
3.	Local/Regional Sound BSD	<ul style="list-style-type: none"> i. Subject to the availability of frequencies, the Authority shall invite interested parties to apply for local/regional sound BSD licences ii. The Authority shall review the submitted applications against the licensing criteria and due diligence to determine their capacity to provide signal distribution services in the areas of interest. iii. The Authority will issue BSD licences to successful applicants to operate in the designated coverage areas, including the associated DSB frequency licences.
4.	DSB services	<ul style="list-style-type: none"> i. The Authority shall invite interested parties to apply for commercial and community DSB services subject to completion of the licensing process for DSB signal distribution services and rollout of the signal distribution network. ii. Interested parties will apply for respective licences through prescribed applications forms and shall be required to submit a separate application for each distinct service proposed to be offered. iii. The Authority will review submitted applications against the licensing criteria and due diligence to determine the applicant's capacity to provide the services. The applications shall be considered on a first come first served basis. iv. The Authority will issue licences to successful applicants, enabling their access to the signal distribution platform.
5.	Existing FM services interested in providing DSB services	<ul style="list-style-type: none"> i. Subject to availability of capacity on the DSB signal distribution platform, the Authority shall consider applications for DSB service licences from licensed FM broadcasters who are interested in providing digital services. ii. The applications will be reviewed against the licensing criteria and due diligence to determine their capacity to provide the service. iii. The Authority will issue licences to successful applicants upon them fulfilling all the applicable requirements.

4.8. Reserved Capacity for Public and Community Broadcasters

The National ICT policy stipulates the requirement to ensure universal access and viability of public broadcasting services. The ICT policy also requires the regulator to reserve broadcast frequencies to promote the development of community broadcasting services.

The Authority will require that the BSDs reserve some capacity on their platform for public and community radio broadcasters. The reserved capacity level will be reviewed after specific timelines to release reserved channels that are not utilised.

4.9. Access to DSB Signal Distribution Platform by Broadcasters

By its nature, the signal distribution market is non-competitive, hence regulatory intervention is necessary in order to ensure that the cost of providing the service is in line with the principles of economic efficiency, and avoid the imposition of arbitrary high carriage charges to the broadcasters. As is the case in digital television, the tariffs signal distributors charge broadcasters to be accommodated on the digital platform will be regulated by setting maximum limits through determinations issued by the Authority.

4.10. Technical Standards

The Licensing framework for DSB shall include technical standards that broadcasters must comply with in order to ensure a high quality of sound transmission. These standards may include requirements for sound quality, signal strength, and coverage area.

4.11. Public Interest Obligations

The Authority proposes to require the DSB broadcasters meet certain public interest obligations, such as providing local news and information, promoting cultural diversity, and supporting education and public health initiatives.

4.12. Ownership and Control Rules

The Authority shall, within the DSB licenses, provide for rules and restrictions on ownership and control on DSB broadcasters to promote competition and prevent concentration of ownership in the media sector.

5. Roadmap

The proposed roadmap on key implementation and action items is as detailed in Table 4:

Table 4: Proposed Roadmap for operationalisation of DSB services

No	Activity	Status/Proposed Target
1.	Development of draft licensing framework for DSB including public consultation process	FY 2023/24 -Ongoing
2.	Development of DAB+ minimum receiver specifications	FY 2023/24 -Done
3.	Replanning of VHF band 174-230 MHz exclusively for DAB+ and modification of GE06 Plan through conversion of planned DVB-T2 TV channel into Band III into DAB+ channels;	FY 2023/24
4.	Development of DRM minimum receiver specifications	FY 2024/25
5.	Development of DSB transmitter technical standards and parameters for Type Approval	FY 2024/25
6.	DSB pilot /trial	FY 2024/25
7.	Development of baseline DSB signal distribution tariffs (access charges)	FY 2025/26
8.	Licensing of existing BSDs interested in providing DSB signal distribution	FY 2025/26
9.	Licensing of DSB content providers / broadcasters	FY 2027/28
10.	Licensing of new DSB signal distributors*	FY 2025/26
11.	Consumer awareness/Education	FY 2025/26

**in the event the existing common carrier BSDs will not be interested in rolling out the DSB services, licensing of new DSB BSDs will be done much earlier.*