
Small-scale radio multiplex licence

Application form – Part A (public)

Name of applicant (i.e. the body corporate that will hold the licence):

Cardiff DAB Ltd

Multiplex licence area being applied for (note this must be a small-scale multiplex area currently being advertised by Ofcom):

Cardiff

Public contact details:

Name: Chris Hurst

Email: chris@cardiffdab.co.uk

Address: 1 St Floor, Castle House, 1-7 Castle Street, Cardiff, Wales, CF10 1BS

Publication date: 1 September 2020

2 Extent of proposed coverage area

- 2.1 Provide a summary, fully consistent with the more detailed information about transmission sites supplied separately in Part B, of the coverage area proposed to be achieved by your technical plan. This should include a description of the target area you are seeking to serve within the advertised licence area, and also any areas you are aiming to serve outside the advertised licence area for this small-scale radio multiplex service. (You may refer to your coverage prediction in the response you provide):

The three main population centres within the defined Polygon area are Cardiff, the capital city of Wales, Caerphilly to the north and Barry in the Vale of Glamorgan at the south west.

With a population in excess of 350,000 Cardiff is a vibrant city and, as the nation's hub it acts as a magnet, drawing people-in from the outlying communities for business, education, shopping, leisure and sport. Barry and Caerphilly are fairly evenly matched in population terms with around 50,000 each.

Our proposition is founded on three principles:

1. Delivery of a reliable, consistent and high-quality DAB service to as much of the indoor population of the defined Ofcom Polygon area for Cardiff as possible;
2. Working to the original DCMS/Ofcom objective to make DAB affordable for community radio, small independent commercial stations and start-up services.
3. Achieving the above within a sustainable, long-term business plan.

A single site approach was never going to work for small-scale DAB in and around Cardiff. The city itself is situated on the coast, so the landscape is generally flat and low-lying. However, there is no transmitter location that could adequately serve Cardiff whilst also delivering a robust signal to both Barry and Caerphilly. Distance is one factor, but the biggest challenges are the inland hills and valleys that isolate the two satellite towns. We have, therefore, opted for a three-site Single Frequency Network solution.

There are no communities outside the defined Polygon area that we would wish to serve. However, there is some overspill to the east beyond Risca and Crosskeys. This is unavoidable due to the positioning of our transmitter at Mynydd Machen.

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2.2 Please provide a coverage prediction map for the whole transmitter network you are proposing to build within 18 months if you are awarded a licence. The map should show the 63 dB μ V/m field strength and the advertised small-scale DAB licence area contour.

[Small-scale DAB licence areas in GIS format](#) are available on the Ofcom website.

A full coverage prediction map for the whole transmitter network is provided in a separate document. It shows the 63 dB μ V/m field strength (as well as the 54 dB μ V/m and 38dB μ V/m contours). The 38dB μ V/m contour does not indicate any significant co-frequency block interference in neighbouring polygons.

The ward-level tables indicate that at 63 dB μ V/m field strength;

- the number of people falling outside the polygon does not exceed 30% of the total population within the advertised licence area; and
- the proposed coverage does not overlap more than 40% of the population within the relevant local radio multiplex service's licensed area.



2.3 Please provide the following details of the prediction software used for your coverage assessments:

Provide the name and version of the prediction tool used.	ATDI HTZ Communications v22.6.9
Detail the terrain model used by the software and its resolution.	A digital elevation model (DEM) representation of ground surface topography or terrain. Also referred to as a digital terrain model (DTM). Resolution is a DTM step of 30mtrs with IMG (image) step of 0.022mtrs
Detail the ground cover (clutter) data used by the software and its resolution.	The height, extent, and location of groundcover elements ("clutter") are the factors which primarily govern the impact on radio signals. The RF planning tool reasonably locates the boundary between adjacent clutter types to 10m using the Holt UK clutter model
What propagation algorithm has been used?	ITU-R 370 (propagation model valid from 30 MHz to 1000 MHz)
Where multiple sites are proposed, describe what methodology has been used to assess the network (SFN) gain	The Monte-Carlo method
If these predictions have not used Ofcom-provided population data, state what population data has been used and its source.	2011 Census (adults 15+) ATDI included population data supplemented by Office for National Statistics (ONS), National Records of Scotland (NRS) and Northern Ireland Statistics and Research Agency (NISRA)
Have your predictions been generated by a commercial organisation? If so, by whom?	Coverage predictions have been generated by Viamux using HTZ Communications software from ATDI.

3 Ability to establish the proposed service

Applicant's details

3.1 Name of applicant (i.e. the body corporate that will hold the licence):

Cardiff DAB Ltd

3.2 Company registration number stated on Companies House (if applicable):

12833268

3.3 For UK registered companies, the address of the applicant's registered office stated on Companies House. For non-UK registered companies, the principal office address:

1 St Floor, Castle House, 1-7 Castle Street, Cardiff, Wales, CF10 1BS

3.4 If a UK registered company, is the **current** Memorandum and Articles of Association document available on the Companies House website? **YES**

3.5 Contact details of the individual duly authorised by the applicant for the purposes of making this application. This individual should be the company secretary or a director.

Full name	Chris Hurst
Job title	Director
Address	1 St Floor, Castle House, 1-7 Castle Street, Cardiff CF10 1BS
Telephone	0292 169 0200
Mobile phone	07899 842264
Email	chris@cardiffdab.co.uk

Ownership and control of company which will hold the licence

Details of officers, participants and shareholders of the applicant

3.6 Please provide the following details for each director or designated member of the applicant:

Full name of individual	Correspondence address ¹	Country of residence	Other officerships held (and nature of the business concerned)	Other employment
Simon Julian Borja	1 st Floor Castle House, 1-7 Castle Street, Cardiff, CF10 1BS	UK	Director of Project Development: Safer Wales (Radio Cardiff community radio licensee) Cardiff DAB Ltd (Small-scale DAB multiplex applicants)	NONE
Chris Hurst	1 st Floor, Castle House, 1-7 Castle Street, Cardiff, CF10 1BS	UK	Director: Silk FM Ltd and Dee 106.3 Ltd (Commercial radio stations). Director: Muxco North East Wales and West Cheshire Ltd (DAB local multiplex operator) Director: Edinburgh DAB Ltd; Cardiff DAB Ltd; South Birmingham DAB Ltd; Leeds DAB Radio Ltd; and Sheffield & Rotherham DAB Ltd (Small-scale DAB multiplex applicants)	NONE
Niocast Digital	20 Crewe Rd, Sandbach, Cheshire CW11 4NE	UK	Corporate Director: Edinburgh DAB Ltd; Cardiff DAB Ltd; South Birmingham DAB Ltd; Leeds DAB Radio Ltd; and Sheffield & Rotherham DAB Ltd (Small-scale DAB multiplex applicants)	N/A

Small-scale radio multiplex licence: application form (Part A)

3.7 Please identify any entities with which the applicant is affiliated:

(If this question is not applicable to the applicant please respond “N/A” in the table.)

Full name of the entity	Address
Safer Wales	1 St Floor, Castle House, 1-7 Castle Street, Cardiff, Wales, CF10 1BS
Chris Hurst	1 St Floor, Castle House, 1-7 Castle Street, Cardiff, Wales, CF10 1BS
Niocast Digital	20 Crewe Road, Sandbach, Cheshire CW11 4NE

3.8 Complete the following table, expanding it if necessary, to list all bodies corporate which are controlled by the applicant, and their affiliates:

Full name of entity	Address	Affiliates
N/A	N/A	N/A

3.9 Complete the following table, expanding it if necessary, to list all persons who control the applicant, together with their affiliates. If any persons or bodies control the applicant jointly because they act together in concert (e.g. because of a shareholder’s agreement), each such person must be identified here:

Full name of individual or body	Address	Affiliates
N/A	N/A	N/A

3.10 Complete the following table, expanding it if necessary, to list all officerships in other bodies that are held by any individual listed in response to question 3.9, and any affiliates of those bodies:

Full name of individual	Name of body in which officership held	Affiliates of that body
N/A	N/A	N/A

3.11 Complete the following table, expanding it if necessary, to list all bodies corporate which are controlled by any body corporate listed in response to question 3.9, and their affiliates:

Full name of body corporate listed in 3.9	Body corporate controlled	Affiliates of body corporate controlled
N/A	N/A	N/A

3.12 In relation to each body corporate identified in response to question 3.9, complete the following table, expanding it if necessary, to list all bodies which hold or are beneficially entitled to shares, or who possess voting powers, amounting to more than 5% in the body corporate concerned (“participants”). You may, but are not required to, exclude from this table any bodies listed in response to question 3.9. If you are unable to provide a complete answer to this question in relation to beneficial owners, please state whether you have any reason to suspect the existence of any beneficial owners.

Name of body corporate identified in response to Q3.9	N/A			
Full name of >5% participant	Number of shares	Total investment (£s)	Total investment (%)	% of voting rights
N/A	N/A	N/A	N/A	N/A
Comments				

Involvement of the applicant in specified activities

3.13 Please state below whether the applicant, or any of the directors, shareholders or other individuals named above, including their associates (i.e. directors of their associates and other group companies), is, or is involved in, any of the below, and the extent of that interest.

Activity/involvement	Yes or No	Please state who is involved; the name of the body/individual/agency they are involved with; and the extent of their involvement
A local authority	No	N/A
A body whose objects are wholly or mainly of a political nature, or which is affiliated to such a body	No	N/A
A body whose objects are wholly or mainly of a religious nature; ²	No	N/A
An individual who is an officer of a body falling within (b) or (c);	No	N/A

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A body corporate which is an associate (as defined in paragraphs 1(1) and 1(1A) of Part I of Schedule 2 to the Broadcasting Act 1990) of a body falling within (b) or (c);	No	N/A
An advertising agency or an associate of an advertising agency	No	N/A

Details of applications, licences and sanctions

3.14 Is the applicant a current licensee of Ofcom? **NO**

Licence number	Name of multiplex
N/A	N/A

3.15 Has the applicant held an Ofcom broadcasting licence before? **NO**

Licence number	Name of service or multiplex
N/A	N/A

3.16 Has anyone involved in the proposed service, held an Ofcom broadcasting licence or been involved in an Ofcom-licensed broadcast service before? **YES**

Dates licence was held or dates of involvement	Licence number (if known)	Name of service or multiplex
2019- Current	CR000094BA/6	Radio Cardiff (Previously held by VCS Cymru transferred to Safer Wales May 2019)
2004 - 2009		Swansea & S Wales Local Multiplex
2002 - 2009		Bradford & Huddersfield Local Multiplex
2004 - 2009		Stoke on Trent Local Multiplex
2002 -2009		Central Scotland Multiplex
1991 - 2000	AL100192BA/2	Signal Radio Ltd
1992 - 2006	AL100192BA/2	Imagine FM Ltd
1996 - 2000	AL100806BA/2	Wire FM - Warrington

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2000- 2009		Signal 1 Stoke on Trent
2000- 2009		Signal 2 Stoke on Trent
2000- 2009		Imagine FM Stockport
2000- 2009		Wish FM Wigan and St Helens
2000- 2009		Swansea Sound
2000- 2009		Wave Swansea
2000- 2009		Valleys Radio - S Wales Valleys
2000- 2009		Q96 Paisley
2000- 2009		Wave 102 Dundee
2000- 2009		Wire FM - Warrington
2000- 2009		The Wave Blackpool
2000- 2009		The Pulse Bradford
2000- 2009		Pulse Classic Gold Bradford
2000- 2009		Peak FM Chesterfield
2000- 2009		The Wolf Wolverhampton
2000- 2009		Peak FM Chesterfield
2000- 2009		Tower FM Bolton and Bury
2000- 2009		Juice FM - Liverpool
2000- 2009		Talk 107 Edinburgh
2000- 2009		Central Radio
2006 - 2008	CR102895	Cheshire FM
2006 - 2008		Original 106 FM
2008 - 2010	AL203	Dune FM
2009 - 2017	CR000034BA/3	Pure FM - Stockport
2010 - 2011	AL323	Central Radio
2015 - 2016	DP101065	Manchester Business Radio
2015 - Current	SSDABWT005	Multiplex - Trial Manchester
Current	DL000094BA/5	Multiplex - NE Wales and W Cheshire
Current	AL100840BA/2	Silk FM
Current	AL000274BA/3	Dee 106.3
Current	DP000165BA/2	Dee on DAB and Love 80s – Liverpool & Manchester

3.17 Does the applicant control an existing Ofcom licensee? **NO**

Licence number	Name of service or multiplex
N/A	N/A

3.18 Is the applicant controlled by an existing licensee or by any person who is connected (within the meaning of Schedule 2 to the Broadcasting Act 1990) with an existing licensee (i.e. as a “participant”)? **NO**

Licence number	Name of service or multiplex
N/A	N/A

3.19 Has the applicant made any other application to Ofcom (or its predecessor broadcast regulators – the Independent Television Commission and the Radio Authority) for any licence which has since been surrendered by the licensee or revoked by Ofcom (or one of its predecessor regulators)? **NO**

Licence number	Name of service or multiplex
N/A	N/A

3.20 Is the applicant subject to any current or pending investigation by any statutory regulatory or government body in the UK or abroad in respect of any broadcast-related matter? **NO**

Licence number	Name of service or multiplex	Details of the investigation
N/A	N/A	N/A

3.21 Has the applicant – or any person(s) controlling the applicant – ever been subject to a statutory sanction for contravening a condition of a broadcasting licence in the UK or any other jurisdiction? **NO**

Licence number (or equivalent)	Name of service or multiplex	Nature of the breach	Sanction imposed	Date sanction imposed
N/A	N/A	N/A	N/A	N/A

3.22 In relation to any of the directors, shareholders or other individuals named in this application, please provide any information which you think may be a relevant consideration for Ofcom in determining whether or not the applicant is fit and proper to hold a Broadcasting Act licence. If you have no information, please respond “N/A”.

N/A

3.23 Has the applicant – or any person(s) controlling the applicant – ever been convicted of an unlicensed broadcasting offence? **NO**

Full name	Date of conviction/action	Penalty
N/A	N/A	N/A

Financial and business plan

3.24 Explain how the applicant considers it will be able to establish its proposed service. This should include an explanation of the costs required to establish the multiplex service, and how these costs will be met:

Cardiff DAB Ltd will establish a successful multiplex operation by providing existing community and commercial broadcasters as well as new entrants with a reliable digital broadcast platform on both affordable and flexible terms.

Low Cost

Our core ambition is to offer service providers a low cost, easy to access, high quality digital broadcast platform and to ensure its long-term sustainability. To achieve this we will offer reserved space to CDSP licence holders at a deeply discounted rate - just 33% of the equivalent rate of the unreserved space. Additionally, all carriage fees will be free from VAT as we aim to remain below the VAT registration threshold. Niocast's success in running the Manchester small-scale multiplex indicates that many service providers will not be registered for VAT. The addition of VAT would be a very real additional cost to them and could be a possible impediment to them participating in small-scale DAB.

Target Market

Our target market comprises existing Ofcom-licenced analogue community and commercial broadcasters looking for a digital future – who wish to simulcast existing services as well as develop and launch new brand extensions. The DAB platform will also appeal to existing internet radio stations as well as potential broadcasters who have been unable to obtain an Ofcom licence due to a lack of analogue spectrum.

Advertising and Promotion

In addition to outreach via email and telephone calls, we have already attracted prospective services to the multiplex via our website and social media presence. We have successfully published news releases in industry and local press, through established Radio Cardiff networks and digital media which has further reinforced our message to service providers.

Service Providers

The number of confirmed services at this time gives us confidence in the financial stability of our plans to launch and sustain the multiplex. Several of the service providers that have expressed interest in joining the multiplex have worked with Niocast Digital on the Manchester small-scale multiplex or have had a positive experience of one of the

other small-scale DAB trials. The 'ecosystem' approach that was devised by Niocast and implemented in the Manchester trial has ensured fair access for services and a broad spectrum of service provision which we would look to replicate.

Current interest indicates there is overdemand for DSP unreserved space. We expect some of these will consider providing a CDSP licenced service to access reserved space. Additionally, on award of the licence, we will welcome prospective CDSP licence holders who have engaged with competitive applications.

Objectives

Our aim is to launch with a full 24 services which will cover our running costs. However, our financial planning ensures that if we don't reach this level, or services fall away over time and we experience a delay in replacing services from our waiting list, there is sufficient head room to ensure our finances remain robust.

Commitment

Building on Niocast's successful track record in Manchester, we are committed to continually investing in our platform - whether that is additional relay transmitters to improve coverage or new research & development. Niocast's continued investment in R&D led to the creation of Viamux – a company which supplies professional services and solutions to the small-scale DAB sector. Working with Switch Digital, the Birmingham trial operator, led to the development of Optimux - a low-cost cloud-based control panel that simplifies the management and monitoring of a small-scale DAB network. Optimux has gone on to implement cloud encoding - making it quick and easy to add new services to a multiplex.

Funding

The company will be funded through a combination of equity and primarily a shareholder working capital loan of £45,000. The shareholders have provided proof of funds to cover this funding.

Financial Forecast

We have attached a confidential spreadsheet that sets out detailed income and outgoings with a 36 month cash flow forecast.

3.25 Detail the sources of finance that will be used to fund the multiplex service,

A. Share capital

The company will be capitalised at £3

B. Loan stock

A working capital investment loan of £45,000 will be provided by the shareholders. We anticipate this loan being repaid within 3 years. Further funding is available, if required.

- C. Leasing/HP facilities (capital value)
There is no requirement for Leasing/HP facilities.
- D. Bank overdraft
There is no requirement for a Bank overdraft.
- E. Grants and donations
There is no requirement for grants or donations.
- F. Other (please specify)
None

- 3.26 Provide evidence that sufficient funds are available to each investing shareholder to cover their proposed investment. For incorporated investing shareholders, provide a copy of the most recent statutory accounts.

✂ This information has been redacted by Ofcom for reasons of confidentiality

- 3.27 All of the funding identified above should be confirmed. If any funding has not been confirmed, or if there are any pre-conditions before the funding is released which have not yet been met, provide an explanation of what needs to be done, the dates by which it needs to be carried out, and any steps the applicant needs to take to ensure the funding is confirmed and/or released.

All funding is confirmed.

Relevant expertise and experience

- 3.28 Please provide details of who will be responsible for the day-to-day general management of the multiplex service (for example, dealing with programme service providers and contractual matters). Please also briefly state their previous relevant experience. (Note that any individuals or contractors who cannot be identified at this stage can instead be included in the confidential section (Part B) of the application form.)

Collaboration

Cardiff DAB Ltd is a strongly local applicant group with collaboration at the heart of its ethos. It brings together three partner organisations each of them making a unique contribution by way of relevant skills and/or knowledge:

- Radio Cardiff – the Ofcom-licensed community radio station in Cardiff which has been successfully operating in the city since October 2007
- Dee Radio Group – which runs two locally focused commercial radio stations – Chester’s Dee 106.3 and Silk FM in Macclesfield; two DAB-only services Love 80s Liverpool and Love 80s Manchester; and owns 33% of the North East Wales and West Cheshire Multiplex

- Niocast Digital – which has operated the small-scale DAB multiplex in Manchester, since 2015. Having also run successful trials in Dublin and Cork, Niocast is one of the most experienced operators of small-scale DAB.

General Management

With its experience, Niocast Digital will lead the day-to-day general management of the multiplex service - managing commercial, financial and operational matters.

Launching, establishing and maintaining a DAB multiplex requires technical competence, operational expertise, financial stability, and an aptitude to manage third party relationships successfully.

For the past five years, Niocast Digital's day-to-day management of the Trial Manchester small-scale DAB multiplex has included, but was not limited to; supporting, maintaining and upgrading the multiplex system hardware & software; recruiting new services to ensure that the multiplex is always full; negotiating carriage agreements; invoice management and payment collection; and working with programme services to ensure DSPS and regulatory licence compliance.

Sector Participation

Niocast has also taken a leading role in advancing the aims and objectives of the small-scale DAB sector over the past 5 years - participating in DCMS and Ofcom DAB planning meetings as well as parliamentary consultations. During 2019 Niocast also ran a series of highly successful UK-wide small-scale DAB workshops in Belfast, Edinburgh, Newcastle, Sheffield, Watford and Cardiff. The 20 workshops were attended by over 180 people from 80 applicant groups.

Technical & Operational Experience

Niocast Digital also founded Viamux – which supplies professional services and small-scale DAB solutions. Niocast is co-founder of Optimux – a software platform specifically developed, in 2020, for the day-to-day management of small-scale DAB multiplexes. Coming out of our experience of running one of the first UK small scale trials, Optimux equips small-scale DAB licensees with an easy to use dashboard for managing, monitoring and reporting on all aspects of a multiplex network as well as providing invoicing and direct debit collection to simplify the payment of carriage fees. Every aspect of the day-to-day management of a small-scale multiplex has been incorporated into Optimux.

Viamux will be responsible for the launch of the multiplex and Niocast for its subsequent day to day operation; in particular:

- Overseeing bit rate variations, enhancements or projects required by service providers, such as EPG provision, temporary services and data developments.
- Working with service providers and the transmission subcontractor to maximise multiplex functionality and efficiency.
- Monitoring and fault reporting, ensuring that the output of all service providers is

correctly logged and compliant with legislation and codes.

- Developing new revenue streams.

Niocast will oversee any multiplex re-configurations and these will be undertaken in line with our policies and contractual agreements with service providers. Niocast will provide ongoing financial management of the multiplex; accounts, IT, admin, legal, customer service and technical support.

Team

All members of the wider team share a track record of successfully establishing and operating radio stations as well as local and small-scale DAB multiplexes. The combined experience of the stakeholders as multiplex operators and service providers demonstrates these capabilities and give us an excellent understanding of what is required in Cardiff – good coverage, service reliability and easy access for programme providers at an affordable and realistic price.

Key Personnel

John Evington

John is a radio 'lifer' having started out as a presenter at Manchester's first commercial station, Piccadilly Radio in 1978. From there he developed his craft at Centre Radio in Leicester before joining Stoke-on-Trent's Signal Radio in 1983 as launch Breakfast presenter and Head of Music. After a stint as weekend Breakfast host for BBC Radio 2 John returned to his commercial roots at Signal, where he became Programme Director, leading his team to deliver unrivalled audience figures. John developed new community-focused concepts such as 'Signal Action', the 'Signal Walkathon' and 'Signal Comes to Town'. He also devised the UK's first adult alternative format, 'ECHO 96' and re-launched the core station as 'Signal 1' on FM and 'Signal 2' on AM. Ultimately, John was promoted to Group Director of Programmes for Signal's parent company, Wireless Group plc, with responsibility for 17 local stations in England, Scotland and Wales, remaining in that role for four years.

In 2006 John was head-hunted by the Canadian media giant, CanWest, to lead the launch team at the south coast's regional adult alternative station, Original 106. He later teamed up with David Duffy to form The Radio People consultancy and, in 2015, successfully applied for the small-scale DAB Trial licence in Manchester.

Most recently John has been focusing on the small-scale DAB opportunity providing a launchpad for new formats and innovative creative thought. He conceived and developed the concept of a formatic 'Ecosystem' for the new small-scale tier designed to enrich listener choice and grow the digital listening share whilst minimising any impact on existing national and local services.

John continues to work closely with David Duffy in running their joint companies.

David Duffy

David Duffy's involvement in radio dates back to 1981 working with independent commercial radio station Essex Radio. In later years he went on to be a founding director of Wire FM, the commercial radio station in Warrington. In 2004 he established community radio station Cheshire FM and served as its first Chief Executive from launch until 2008. In 2008 he led a group in the acquisition of Southport commercial radio station Dune FM. The station was returned to profitability and successfully sold to a local group in 2010. The group also acquired Preston's Central Radio which was successfully sold to UKRD in 2011.

In 2013 David established Niocom Associates to provide professional consultancy services to commercial and community radio stations. In 2015 Niocom was awarded one of the ten trial small-scale DAB trial licences (Manchester) which has now been running successfully for over five years. In 2017 he co-founded Viamux to develop low-cost DAB solutions for small-scale DAB operators. Viamux's first customer was the Irish State Broadcaster, RTÉ. Viamux went on to work with ComReg, Ireland's communications regulator, to operate a DAB multiplex in Cork - the first independent small-scale DAB multiplex trial in Ireland.

In 2019 Viamux ran a series of 20 workshops across the UK designed to provide practical help and advice to stations, groups and individuals interested in applying for and launching their own small-scale DAB multiplex. Viamux is increasingly recognised as the leading small-scale DAB solutions provider and is working closely with many applicants - bringing expertise and experience to their DAB projects.

Chris Hurst

Chris Hurst has worked in commercial radio for over 30 years. He's been a director and Ofcom licence holder for over 23 years. Chris was the Local Radio Managing Director of the LSE quoted Wireless Group PLC with responsibility for 10 local stations and 3 local multiplexes until it was acquired in 2002 by LSE quoted UTV Media PLC he continued in the position until 2009 at which point he had responsibility for 17 analogue radio stations, 7 digital stations and 4 local multiplexes. In 2009 he took a shareholding in Dee 106.3 Ltd and became its CEO a position he continues to hold. The Dee Radio Group went on to acquire Silk FM Ltd.

Chris is a strong believer and supporter of DAB and the Dee Radio Group has launched digital services Dee on DAB, Love 80s Liverpool and Love 80s Manchester. Love 80s Manchester broadcasts on the small-scale trial multiplex in Manchester and is the only small-scale service in the UK that publishes RAJAR. The Dee Radio Group co owns the local multiplex for NE Wales and West Cheshire and Chris is a director of the holding

company Muxco NE Wales and West Cheshire Ltd.

Chris was a consultant general manager of community station Pure 107.9 between 2009 and 2017 during which time Pure successfully applied for a grant to establish the Great Manchester Community Radio Alliance which ran for a number of years.

Chris is actively engaged in the radio industry as a whole and sits on the RadioCentre Advisory Group.

Chris attended Harvard Business School in 2005.

Safer Wales

Based at the heart of the city, Radio Cardiff spans the whole of Cardiff, Wales' capital city. The station's volunteers, listeners and staff come from across the Cardiff region. It is the city's only independent community radio station currently supported by over 70 volunteers. Head of Radio Donna Zammit has been involved with Cardiff community radio which began with Bay FM 2003-2007 and Head of Radio Cardiff since its launch in 2007. Radio Cardiff content is co-produced with the diverse population of the city's multicultural population, serving music of black origin (MOBO) tastes that are otherwise unrepresented on mainstream commercial stations. Radio Cardiff works to encourage the city's diverse communities – old and new – to prosper and engage, through music, a sense of community, news, topical chat and training opportunities.

The station provides many projects and interventions to engage and support vulnerable groups across the city. This included the 'Pave the Way' project which built confidence and skills for people with mental health. Radio Cardiff works with community groups to promote diversity which includes the LGBT Pride Cymru show. It provides volunteering and training opportunities which include established links with Cardiff University Journalism school, University of South Wales and BBC Wales to provide placements and opportunities to further careers in the media.

Safer Wales a community safety charity based in Cardiff and has held the licence which transferred from VCS Cymru in May 2019. Safer Wales has over 20 years experience strengthening communities developing services, particularly for vulnerable people or under-represented groups across Wales which include the victims of domestic abuse, sexual exploitation, violence, working to reduce offending and providing support for vulnerable young people.

Safer Wales is keen to develop and grow the scope of DAB across the region and share expertise to develop opportunities particularly for community-based stations.

We believe that this highly experienced team has all the relevant expertise and local knowledge to deliver all aspects of launching and running a successful small-scale operation.

3.29 Please provide details of who will be carrying out the installation and on-going maintenance of your multiplexing / transmitter equipment (or the name of your proposed transmission and multiplex provider if you intend to use a third-party organisation for these services). Please also briefly state their previous relevant experience. (Note that any individuals or contractors who cannot be identified at this stage can instead be included in the confidential section (Part B) of the application form.)

Function	Responsible party	Previous experience
Installation of transmission equipment	Viamux Ltd	Viamux is a leading supplier of small-scale DAB solutions having installed systems in the UK & Republic of Ireland. Viamux was borne out of the Niocast Digital team that has successfully operated the Trial Manchester small-scale multiplex over the past five years. More info: www.viamux.com
Ongoing maintenance of the transmission equipment	Viamux Ltd	
Installation of the Multiplexing equipment	Viamux Ltd	
Day-to-day technical management and maintenance of the multiplexing equipment (if different from response to question 3.28 above)	Viamux Ltd	

Timetable for coverage roll-out

- 3.30 In no more than 250 words, please tell us how soon after licence award you expect your multiplex service to become operational and achieve the coverage you are proposing. Please provide an outline project plan with timeline (e.g. a Gantt chart or similar) showing the high-level activities and tasks leading up to the launch of your multiplex service:

Cardiff DAB Ltd intends to launch the multiplex in less than 6 months from award of licence.

Upon award Cardiff DAB Ltd will immediately advance negotiations regarding the proposed transmission site(s). Following the procedure set out in Ofcom's Technical Policy Guidance, we will also liaise with other radio multiplex licensees on any impact our proposed transmitters might have. Once completed, Cardiff DAB Ltd will seek agreement from Ofcom for the proposed technical plan – mindful that the coverage proposed in our application is an award criterion and that any change will need to deliver broadly equivalent coverage.

Cardiff DAB Ltd will send final site details to Ofcom for clearance and evidence of liaison and agreement with those other radio multiplex licensees. Given the time taken to coordinate services we recognise the importance getting the final transmitter plans to Ofcom as quickly as possible.

Our timeline then focuses on the following key stages:

- Building and installing the DAB multiplex and transmission chain;
- Finalising carriage agreements with the service providers;
- Commissioning and testing the transmitter equipment for compliance with Ofcom's Digital Radio Technical Code; and
- Providing Ofcom with evidence of compliance with the licence and the Digital Radio Technical Code

Viamux has confirmed the availability of all equipment and services to meet our timescales.

The attached GANTT chart sets out precisely the key stages in the implementation of the multiplex together with a timeline.

4 Involvement of C-DSP providers; demand or support from programme providers

Involvement of C-DSP providers

- 4.1 Is the applicant body proposing to provide its own C-DSP service on the multiplex? **NO**
- 4.2 If the answer to the above question is 'yes', please provide a name and brief details of this proposed service. If the service is already licensed by Ofcom, the licence number should be provided:
- 4.3 If the answer to the above question is 'no', please provide details of any participant in the applicant body that is proposing to provide a C-DSP service on the multiplex. If the service is already licensed by Ofcom, the licence number should be provided:

N/A

Radio Cardiff – Ofcom licence Number CR000094BA/6

Character of Service:

Radio Cardiff is for the minority ethnic communities of Cardiff. It delivers programming which heightens cultural awareness, and which disseminates information that is relevant to the target communities. The station showcases the rich cultural diversity of Cardiff and provides training opportunities for members of the target audience.

A C-DSP licence has been applied for.

Demand or support from programme providers

- 4.4 Please provide any evidence which has been gathered of support for the provision of the proposed multiplex service among providers or prospective providers of community or local digital sound programme services in the area to be served by the multiplex service:

Cardiff DAB Ltd has proactively reached out and engaged with many prospective service providers on a non-exclusive basis. We have openly shared our transmission plans, headline terms of agreement and indicative carriage fees. This transparency has allowed us to win the confidence of many service providers and we are committed to continuing with this open style of operation for the duration of the licence term.

To satisfy GDPR requirements, a full summary of contacts and conversations is included as a confidential attachment.

We have been in contact with 30 potential service providers. At the submission date for this application we had received 26 expressions of interest from service providers. 22 have already signed our Heads of Terms agreement (attached at part B) Only 1 organisation has declined our invitation. This demonstrates a strong appetite for small-scale DAB in Cardiff and supports our decision to invest in the transmission infrastructure necessary to deliver a high-quality service across all the main population centres.

We will continue to seek additional service providers and will be delighted to welcome any organisations that have hitherto given exclusive support to alternative applicant groups.

Our draft carriage agreement is attached.

5 Fair and effective competition

- 5.1 Please detail the measures that have already been taken, and will be taken before and during the licence period, to demonstrate that, in contracting or offering to contract with programme services providers, the applicant has acted in a manner calculated to ensure fair and effective competition in the provision of such services:

Ethos

Cardiff DAB Ltd is conscious of its responsibility to ensure fair and effective competition, at all times. We believe that when competition works well, service providers are motivated to maximise audience share and are better able to secure funding on the basis of their service offering - its uniqueness, its audience and the value it delivers. Alongside established brands, competition delivers greater choice for listeners and a better outcome for the public. It also ensures the long-term sustainability of service providers. Constrained only by capacity, our small-scale DAB platform will remain accessible to new entrants – a place where innovative formats will be encouraged and nurtured.

Proven

The shareholders in Cardiff DAB Ltd bring together a track record of successfully establishing radio stations and local & small-scale DAB multiplexes. Niocast Digital has successfully operated the Trial Manchester multiplex for the past five years providing a platform for existing community and commercial services as well as creating a 'launch pad' for a large number of new programme services.

Our unique approach has been to foster a healthy and vibrant radio 'ecosystem' – not only embracing existing commercial and community stations but also new entrants, pop-ups and experimental concepts. Niocast's experience of running the small-scale DAB multiplex in Manchester led to the introduction of a 'format matrix' which has proved to be highly successful in ensuring a balanced range of services rather than a preponderance of any particular genre. Cardiff DAB Ltd will deliver unprecedented choice for listeners in a carefully controlled, transparent way. Our ambition is to always ensure that our multiplex enriches the listener experience by complementing, rather than competing with, local and national ensembles.

Leadership

An award of this licence to Cardiff DAB Ltd ensures that the multiplex is operated by a locally-led community radio company supported by experienced individuals who have successfully implemented and operated DAB multiplexes. All stakeholders are committed to small-scale DAB and have the financial stability to support that ambition. Our team is hugely experienced and well resourced, with significant practical digital radio expertise.

Delivery

Launching a small-scale DAB platform is a significant undertaking and we have been encouraged by the number of positive responses to our plans. We have openly discussed our transmission plans, carriage terms and indicative fees. Cardiff DAB has engaged with potential service providers in an open, non-exclusive manner and will continue to do so throughout the duration of this licence. Each service provider will enter into a Carriage

Small-scale radio multiplex licence: application form (Part A)

Agreement - the key terms of which are identical for all service providers. All fees charged will be pro-rata to capacity contracted by each service provider.

6 Declaration

- I hereby apply to Ofcom for the grant of a licence for the small-scale radio multiplex licence described above and declare that the information given in this application form is, to the best of my knowledge and belief, correct.
- I further declare and warrant:
 - i) that the applicant is not a disqualified person within the meaning of that expression as defined in Part 2 of Schedule 2 to the Broadcasting Act 1990, as amended, or as a result of a disqualification order under section 145 of the Broadcasting Act 1996;
 - ii) that having made all reasonable enquiries neither the applicant nor any person controlling the applicant, as result of the grant to me of the licence, breach any requirement of Schedule 14 to the Communications Act 2003 with regard to the accumulation of interests in broadcasting services or to the restrictions on cross-media interests;
 - iii) that the applicant is not disqualified by virtue of the provisions of section 143 (5) of the Broadcasting Act 1996 in relation to political objects and the provisions of section 144 (3) of the Broadcasting Act 1996 in relation to the provision of false information or through the withholding of information with the intention of misleading Ofcom; and
 - iv) that no director or person concerned directly or indirectly in the management of the Licensee is the subject to a disqualification order as defined by section 145 (1) of the Broadcasting Act 1996.
- I understand that Ofcom reserves the right to revoke the licence (if granted) if at any time any material statement made to Ofcom is found to be false and to have been by the applicant or any member or officer thereof knowing it to be false. I also understand that under sections 144 and 145 of the Broadcasting Act 1996, the provision of false information could incur a criminal conviction and a disqualification from the holding of a Broadcasting Act licence. I further certify that, to the best of my knowledge, any matters which might influence Ofcom's judgement as to whether the directors and substantial shareholders involved in this application are fit and proper persons to participate in a radio licence, have been made known to Ofcom.

Full name of the person authorised to make the application of behalf of the applicant:

CHRIS HURST

Date of application:

20 NOVEMBER 2020

I am authorised to make this application on behalf of the applicant in my capacity as:

COMPANY DIRECTOR