world dab

Revving up radio mastering metadata and phonemes





Broadcaster requirement Transmit audio

Radio [R]evolution





Broadcaster requirement Transmit **stereo** audio

Radio [R]evolution





Broadcaster requirement Transmit **stereo** audio Transmit **RDS PI Code** and **PS Name**







Broadcaster requirement Transmit stereo digital audio Transmit EID, SID, SCIds, Label, ShortLabel, DLS, DL+, Slideshow, Radio [R]evolution Incements, Linking Information, Logos (4 sizes), Genre, Stream URLs, Service Description...



Broadcasters must provide accurate metadata, using the standards, to make radio work properly for drivers

Manufacturers must source and use the metadata properly to make radio work properly for the radio stations

Mutual cooperation and development



Automotive Guidelines

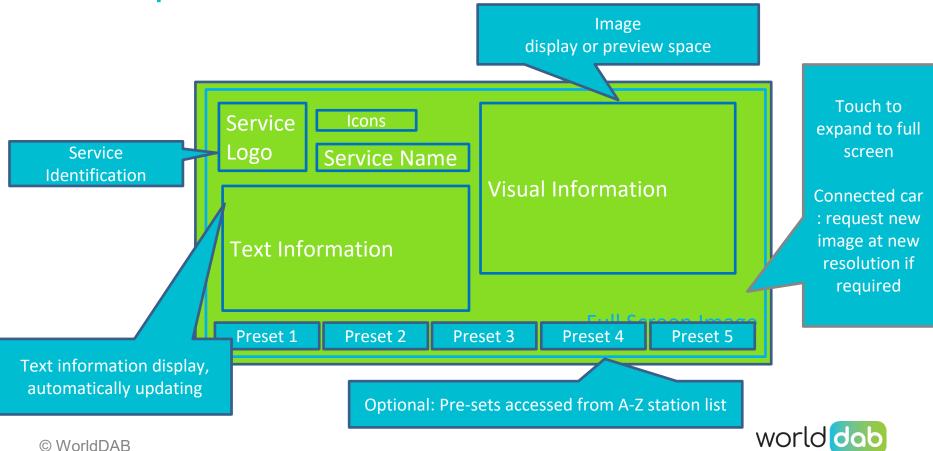
The Automotive Guidelines explain

How radio stations should provide metadata and content How manufacturers should source official metadata and content How radio stations should author content so it looks right How manufacturers should incorporate metadata and content correctly into their user interfaces

Get the document from the WorldDAB website



5.6 Example – Station Information



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Voice Assistants **need metadata**

Voice is a new control surface in vehicles

Voice recognition - to understand what is said to them Voice reproduction - to confirm actions in natural language

Many typical words and phrases can be represented by plain text

But two situations are not well handled

When drivers ask for radio stations using an "unofficial" name When a radio station name isn't said as it's written down in text



Metadata for Voice Assistants

Aliases are alternative ways of describing a radio station The official name is "XYZ Radio One", but drivers call it "One FM" Adding "One FM" as an alias means the station will also be recognised as "One FM", but that will never be shown or said

Phonemes are the detailed building blocks of speech The official displayed name is "ZZZ100" - but it's said "Triple Zee

One Hundred"

This is accurately written as "'trɪpl ziː wʌn 'hʌndrəd"



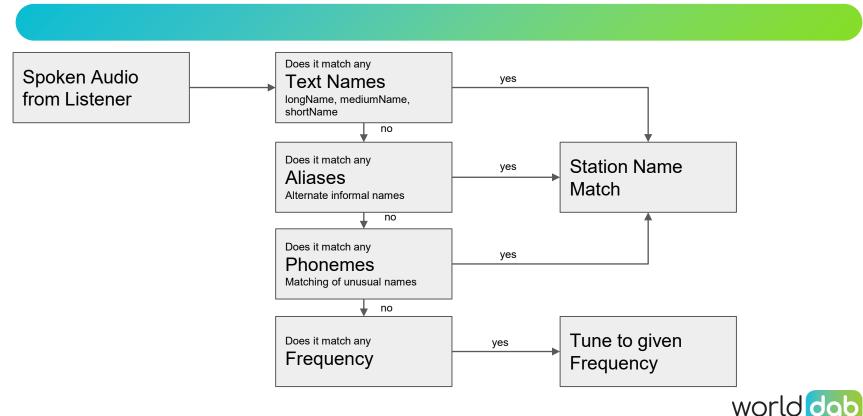


Broadcasters should start to provide **phonemes** and **aliases** where it <u>helps voice assistants</u>

Manufacturers should use **phonemes** and **aliases** to improve the accuracy of matching and reproduction, in addition to **plain text matching**



How voice matching works





Accurate Metadata is crucial to delivering a good radio experience

Voice Metadata helps drivers get to the radio station they want to listen to

The Automotive Guidelines explain how to implement the standards to create a great user experience

Contact WorldDAB if you want to know more

