

# Data Transparency Standard Independent Validation June 30, 2022



Pandora, a subsidiary of <u>SiriusXM</u>, provides consumers a uniquely-personalized music and podcast listening experience with its proprietary <u>Music Genome Project</u>® and Podcast Genome Project® technology. Through its own Pandora service, its AdsWizz platform, and third-party services, such as SoundCloud, the Company connects brands to the ad-supported streaming audio marketplace. Pandora is available through its mobile app, on the web at <u>www.pandora.com</u>, and integrations with more than 2,000 connected products.

# **Pandora Music**

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### Pandora Media, LLC.

### **Data Transparency Standards 1.1**

# **Data Transparency Compliance Guide v1.2**

**Compliance Key:** 

Satisfactory: Meets guideline control, no action required

Recommendation: Meets guideline control, process improvement recommended

Requirement: Does not meet guideline control, must be addressed before certification is issued

Not Applicable: This criteria is not applicable or not in scope

Test	Data Transparency Dissonance Control Objectives			
No.	Control Area	Tests	Comments	
Section	: Data Summary			
1	Provider Name	Data provider organization is incorporated / functioning in market as a data seller, and has the right to use the name / trademark	Supported	
2	Provider Domain	Data provider can prove ownership of the domain (DNS, or other forms of verification)	Supported	
3	Provider Contact Info	Email address provided is a real / functioning email	Supported	
4	Provider's Audience Name	Cross-check content in following fields: A. Segmentation Criteria B. Standardized Segment ID C. ID Type D. Audience Precision Level E. Geography	Supported	
5	Provider's Audience ID	Provider can source an internally maintained taxonomy that accurately captures "Audience Name" and Audience ID" field pairing.	Supported	
6	Standardized Audience ID(s)	Ensure legitimate entry from IAB Audience Taxonomy 1.1	Supported	
7	Segmentation Criteria	Check that the criteria described addresses business rules for ID inclusion and is not overly reliant on peripheral segment description.  This description should address: A. Data provenance, B. frequency at which attribute needs to be observed to be associated with ID, C. and how long ago the attribute was observed.  If business rules for inclusion are proprietary / algorithmically driven, describe algorithm behavior as it relates to the above items.	Supported	
7	Segmentation Criteria	Cross-check content in following fields: A. Audience Refresh Cadence B. Source Look Back window C. Data Sources	Supported	
8	Audience Precision Level	Cross-check content in following fields: A. Segmentation Criteria B. Standard Segment name C. Segment name D. ID Type	Supported	
9	Audience Scope	Verify the Audience Scope represent the information presented in the Field selection(s).	Supported	



I. Data	a Transparency Dissona	ance Control Objectives	
Test No.	Control Area	Tests	Comments
10	Originating Domain	Verify the Originating Domain represent the information presented in the Field selection(s).	Supported
11	Audience Size	The count is disclosed (Figure is variable depending on seasonality, activation platform match rates, and other factors)	Supported
12	ID Type(s)	Cross-check content in following fields: A. Data Sources B. Segmentation Criteria	Supported
13	Geography	Cross-check content to the Segmentation Criteria	Supported
	Standard country list is used.		
14	Privacy Compliance Mechanisms Used	Verify the Privacy Compliance Mechanisms used are disclosed. Check the mechanisms site for approved listing (TCF, DAA, EDAA, etc.) and/or review registration documentation or agreements with relevant privacy organizations.	Supported
15	Privacy Policy	Link is functional and leads to indicated privacy content	Supported
16	IAB Tech Lab Compliant		Supported
	Audience Details		
17	Data Source(s)	Cross-check content in following fields: A. ID Type B. Segmentation Criteria  If "Offline Survey", "Public Record", or "Offline Transaction" is	Supported
		stated, the "Onboarder Details" section must be completed and properly formatted.	
18	Data Inclusion Methodology	Cross-check content in the Segmentation Criteria	Supported
		Selection of "Modeling": Requires selection of "Yes" within "Audience Expansion" field.	
		Ensure that "Audience Expansion" is completed and accurately formatted	
19	Audience Expansion	Cross-check content in following fields:	Supported
		A. Data Inclusion Methodology     B. Segmentation Criteria	
		Selection of "Modeling": Requires selection of "Yes" within "Audience Expansion" field.	
20	Cross-device Expansion	Cross-check content in Segmentation Criteria	Not Applicable
21	Audience Refresh Cadence	Cross-check against content in following fields:	Supported
		A. Segmentation Criteria     B. Data Sources - if any "Offline" source is selected,     "Continuous" or "Daily" are not acceptable options	
		Selection of Offline Sources: Requires completion of "Onboarder Details" section	
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Test No.	Control Area	Tests	Comments
22	Source Look Back Window	Cross-check against content in following fields: A. Segmentation Criteria B. Audience Refresh Cadence	Supported
Section	n: Onboarder Details		
23	Input ID/Match Key	Review the input ID/Match Key used by the Onboarder for matching	Supported
24	Audience Expansion	Confirm "look-a-like" modeling was used to include similar ID's before the data was matched to a digital identifier. (Y/N/NA)	Supported
25	Cross Device Expansion	Confirm the audience was expanded to include affiliated devices and ID's before the data was matched to the digital identifier. (Y/N/NA)	Not Applicable
26	Audience Precision Level	Confirm the precision level of the data before it was matched to a digital identifier (Individual, Household, Geography, NA)	Supported



Test	Control Area	Tests	Comments
No.			
	General Desumentation/Date	Examine decumentation to support the online and offline data	Cupported
27	General - Documentation/Data Process	Examine documentation to support the online and offline data partner's acquisition, data transfer and quality control processes.	Supported
		Walk through workflow of data logging process.	Supported
		Review system control documentation within the data loading process to prevent loss or corruption of data.	Supported
		Review data aggregation job process	Supported
		Review controls and test documentation to ensure successful and complete collection and aggregation of log file data.	Supported
28	General - Organization	Organization Structure and Personnel Functions:	Supported
		Org Chart of team directly involved in collecting, analyzing, onboarding, or otherwise preparing the data for sale to buyers.	
		Job descriptions of product, engineering, and business development stakeholders within org chart.	
		Process by which relevant stakeholders interact to collect and process data.	
		Process by which relevant stakeholders interact to populate the IAB Tech Lab data transparency standard,	
		and description of responsible, accountable, consulted, informed parties (RACI) for each segment field	
	Data Summary		
29	Provider Contact Info	Confirm the email address is of the Provider.	Supported
30	Audience Precision Level	Provide documentation re how identity is resolved: via in house tech, via a partner, or some combination of both in house and partner.	Supported
		If in house: methodology description (DOM) - documentation to be provided outlining systems for data flow, and for resolving identity.	
		If via partner: provide a description of partner, SOW with partner, examples of log files / data ingestion points.	Not Applicable
		If both in-house + provider: see requirements above for both.	
31	ID Type(s)	Confirm on segment files that unique ID types are represented.	Supported
32	Geography	Provide documentation for the process used to assign geographic attribute to the ID level record.	Supported
	Standard Country list is used.	goographic autibate to the 1D level lecold.	
Section	: Audience Details		
33	Data Inclusion Methodology	Review the identification and disclosure of Data Inclusion Methodologies.	Supported



	ople and Process Contro	Objectives	
Test No.	Control Area	Tests	Comments
		If "Modeled" is selected - documentation shall be provided for model input, output, and scores associated with behavior.	Supported
34	Audience Expansion	Provide documentation of seed ID footprint with suitable number of attributes to enable modeling / scoring, which outlines the	Supported
	Selection of "Modeling": Requires selection of "Yes" within "Audience Expansion" field.	types of attributes being used as an input into the model	
	Onboarder Details: Audience Expansion		
35		Provide Output file documentation to ensure that resulting ID count is larger than ID count input file (see Input ID / Match Key log file)	Supported
36		Provide documentation of match report / data portrait analysis (ie, demographic profile)	Supported
37	Cross Device Expansion  Onboarder Details: Cross Device Expansion	Provide documentation of consumer (device) footprint with suitable number of attributes to enable modeling and scoring that are tied to the same Input ID	Not Applicable
38		Provide Output file documentation to ensure that resulting ID count is larger than ID count input file (see Input ID / Match Key log file)	Not Applicable
39	Audience Refresh Cadence	Review the audience refresh cadence.	Supported
		Syndication record documentation / analysis – evaluation of the delta between syndication records to ensure that IDs were added or removed from segment, and that syndication occurred within the declared cadence.	Supported
		Documentation needs to demonstrate:	
		<ul> <li>A. 3-5 syndication attempts (if continuous selected, multiple examples of intra-day refresh need to be provided) over the course of at least a year,</li> <li>B. and all syndication records need to be maintained for evaluation a minimum of one month</li> </ul>	
40	Source Lookback Window	Documentation of: Source event record associated with IDs to ensure date stamp matches segment's declared refresh cadence.	Supported
Section	n: Onboarder Details		
41	Input ID/Match Key	Provide processing logs and match reports, ensure that inputs and outputs match	Supported
42	Audience Precision Level	Show existing in-house database records that contain data on the same match key for indicated level of audience granularity	Supported



Test	Control Area	Tests	Comments
No. Section	n: General		
43	General	Review architecture of the Data Solution Provider.	Supported
		Review the flow of data through the system: input, processing, at rest, output (in transit).	
		Review log file and data retention protocols.	
		Review system controls within the data loading process to prevent loss or corruption of data.	
		Review data table structure.	
		Analyze controls and tests in place to ensure successful and complete collection and aggregation of log file data.	
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44	Audience Details  Audience Scope	Trace back the sources used for identifying the audience scope (logs, data tables, etc.). Identify and review the associated technology (code and controls) over generation of the Audience Scope contexts.	Supported
45	Originating Domain	Trace back the sources used for identifying the originating domain(s) (logs, data tables, etc.). Identify and review the associated technology (code and controls) over associating segments with originating domains.	Supported
46	Privacy Compliance Mechanisms Used	Review tools and controls used for ensuring privacy compliance, including disclosure tools (such as in-creative icons), consent determination, and other privacy requirements as applicable.	Supported
47	Audience Expansion  Onboarder Details: Audience Expansion	Analyze modeling code / script / routine that is used to process input, create and validate model, and select look-a-like data.	Supported
	Selection of "Modeling": Requires selection of "Yes" within "Audience Expansion" field		
48	Audience Expansion	Analyze Internal environment where script is run (cloud service / grid system).	Supported
	Onboarder Details: Audience Expansion	J	
	Selection of "Modeling": Requires selection of "Yes" within "Audience Expansion" field		
49	Cross Device Expansion  Onboarder Details: Cross Device Expansion	If in-house match table is used to expand segment the GitHub / product specs for match table are provided; methodology associated with ID resolution is described and documented, provide the modeling code / script / routine that is used to associate information over time.	Not Applicat



III. Technology Control Objectives				
Test No.	Control Area	Tests	Comments	
		If match table used to expand segment is provided by 3rd party, provide MSA associated with business partner that does analysis.		
		Provide process documentation of API calls to outside cross- device expansion partner (which would contain log files, reporting and billing information)		