

PBCORE 2.0 REQUIREMENTS FROM DIGITAL DAWN MAY 2010	WGBH TO ADDRESS IN PBCORE 1.3,	WGBH TO ADDRESS IN PBCORE 2.0	USE CASE APPLICABLE	OUT OF SCOPE	WGBH AND AVPS COMMENTS
<p><b>S01.01 Definition of an “Asset”</b></p> <p><i>Allow a means to define what the “asset” is intended to depict.</i></p> <p>PBCore 2.0 should begin by offering a more granular definition of what is meant by an “asset”. The “Asset” definition should not be viewed as a passive definition driven by current content practices. Rather, “asset” definition should be a conscious decision to define the digital building blocks that will meet Public Media’s business objectives.</p> <p>Public Media generally talks in terms of “episodes” as its fundamental asset, however, Public Media’s business objectives clearly call for a much more granular asset categorization that allows episodes to be de-assembled into audio tracks, closed caption tracks, and video clips, etc.</p> <p>Type: Schema Change</p>	<p>√ Schema Change</p>		<p>Inventory, All</p>		<p>Asset Type element needed. Also improved documentation and example best practices</p>
<p><b>S01.02 Varied Content Types</b></p> <p><i>Support a wider group of Asset content types</i></p> <p>PBCore 2.0 should also support a wider understanding and definition set for content type, specifically content types should:</p> <ul style="list-style-type: none"> <li>• Be flexible enough to support methods for defining new “content type profiles”</li> </ul> <p>Include some of the common content types that are used in Public Media, including but not limited to:</p> <ul style="list-style-type: none"> <li>○ TV: series, episode, clip,</li> <li>○ Radio: show, story</li> </ul> <p>Type: Schema Change</p>	<p>√ Vocabulary addition</p>		<p>Inventory, All</p>		<p>Consider all audiences in adopting, suggesting or developing asset type controlled vocabulary</p>
<p><b>S01.03 Abstract Assets</b></p> <p><i>Support the definition and creation of “abstract” assets – assets which do not include a corresponding instantiation or are only represented as temporal portions of another asset’s instantiations without their own discrete instantiations, such as segments or clips or episodes.</i></p> <p>Support for abstract assets is important for re-purposing segments of existing content into new products. Definition of Public Media’s foundational asset types is an important step in formulating how the Public Media information architecture will address abstract assets that have no</p>	<p>Already included – slight change to xml schema – no change to dictionary</p>		<p>DONE</p>		<p>Better documentation and best practices is needed. Remove instantiation as requirement within the PBCore schema.</p>

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<p>instantiation (for example “series”). Once the foundational asset types have been defined different approaches can be evaluated for packaging abstract assets.</p> <p>One approach for creating abstract assets is through the use of XML-based wrappers like ATOM (see below).</p> <p>Type: Schema Change</p>					
<p><b>S1.04 Feed Creation</b></p> <p><i>Gain the ability to package PB Core into a feed or XML wrapper</i></p> <p>Users of PB Core should be able to package metadata into a feed or XML wrapper to facilitate transfer between systems and organizations. One approach could be through the use of wrappers like ATOM.</p> <p>ATOM provides a supported standard that can be used to package and distribute Public Media assets. The Atom Syndication Format is an XML language used for web feeds, while the Atom Publish Protocol (AtomPub or APP) is a simple HTTP-based protocol for creating and updating web resources. The advantage of using this approach for Public Media is in sustainability (a large community shares the cost of maintenance of standards) and compliance with best practices (Public Media avoids the risk of developing a custom standard that is not reflective or compliant with broader industry practices.)</p> <p>Type: Schema Change</p>	<p><i>Application of PBCore</i></p>		<p>n/a</p>	<p>✓</p>	<p>Feed is out of scope for 1.3, but will add example documentation mapping of how to do this. Wrapper is in within scope and detailed elsewhere.</p>
<p><b>S02.01 Asset Relationships</b></p> <p><i>Enable Relationship of Assets Outside of Field Entries</i></p> <p>Improve relationship handling and expression between assets. This should occur in a way that allows for and encourages support for inheritance from one asset to others.</p> <p>Please see note on XML-based wrappers in S01.03, as one potential solution.</p> <p>Type: Schema Change</p>		<p>✓ Schema Change</p>	<p>DONE</p>		<p>PBCore 1.2 is able to express these now but will re-visit and review for missing relationships. More specific user scenarios needed.</p>
<p><b>S02.02 Relationship Definitions</b></p> <p><i>Define Relationships for Content Types</i></p> <p>Develop a mechanism to define the relationships that a content type might</p>	<p>Already included in schema may need new</p>		<p>DONE</p>		<p>PBCore 1.2 is able to express this already. Needs better documentation and example best practices.</p>

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<p>have (ex. a Series will have Episodes, and Episode may have Clips).</p> <p>Type: Schema Change</p>	doc				
<p><b>S03.01 Applying containers to an instantiation</b></p> <p><i>An Instantiation may have specific rights, relation or title information that applies only to it and not to the entire asset. Currently containers cannot be applied to Instantiations. A structure is needed in order to relate Instantiation-specific metadata.</i></p> <p>This issue should be addressed through the expansion of content types (S02.01) and relationship definitions (S02.02), which will foster structures that can be used to relate containers to instantiations.</p> <p>Type: Schema Change</p>		<p>✓ Schema Change</p>	???		<p>What is the use case here? Need clarification. Will consider for 2.0, not necessary for AA Inventory. Record fields could apply to instantiations, fields could move, or use existing annotation element.</p> <p>Comment: A use case would be if an asset is represented by tapeA from local station and tapeB from PBS. Then the AA digitizes tapeA to acquire fileC. In PBCore there needs to be a means to document the specific relationship between tapeA and fileC. It will be important to know what instantiations the AA managed content is derived from. This is an example of apply pbcoreRelation to pbcoreInstantiation (although this could be addressed with other means).</p>
<p><b>S04.01 Source ID</b></p> <p><i>Ensure that Source ID fields (identifierSource, subjectIdentifierUsed, etc.) are retained through implementation and Source ID values retained through workflow</i></p> <p>Source IDs are essential to understanding identifiers, descriptors, and identifying related assets. PBCore records that rely on multiple sources for their values must have an accompanying field for Source ID that is filled and carried between systems.</p> <p>Type: Implementation Workflow</p>	<p>Already included in schema may need new doc Implementation Rec</p>		DONE		<p>Issue with use of controlled vocabularies. Improve/add documentation and best practices.</p>
<p><b>S04.02 Multi-Source Identifiers</b></p> <p><i>Source Identifiers from Multiple Sources and Terms from Multiple Controlled Vocabularies</i></p> <p>Ensuring that repeating data sets can be applied to single assets (S03.01) will support structurally the requirement for expressing both a term/unique identifier with an accompanying field defining the source of the term/ID. User training may be required to ensure consistent application of both</p>	<p>Already included in schema may need new doc Implementation Rec</p>		DONE		<p>Issue with use of controlled vocabularies. Improve/add documentation and best practices.</p> <p>Comment: This may be a schema issues as well. For instance in a producer one contributor may have more than one 'role', but PBCore only allows 0 or 1 roles per contributor.</p>

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elements in a record. Type: Implementation Recommendation					
<p><b>S04.03 Multiple Controlled Vocabularies</b></p> <p><i>Support terms from multiple controlled vocabularies.</i></p> <p>PBCore 2.0 should support multiple controlled vocabularies in a structured manner. Specifically, it should allow users to define a “profile” or “extension”, which relates its metadata sets to a specific controlled vocabulary and mappings to PBCore.</p> <p>Provide a means for the community to nominate new terms for PBCore’s recommended controlled vocabulary. Provide additional guidance for the selection or refinement of PBCore’s existing controlled vocabularies to meet specific use cases. Often the full PBCore vocabularies are too extensive for specific use, divided existing lists by use cases may allow users to apply lists more relevant to their application.</p> <p>Type: Implementation Recommendation</p>	Already included in schema may need new doc Implementation Rec		DONE		Issue with use of controlled vocabularies. Improve/add documentation and best practices.
<p><b>S05.01 Genre Element Set</b></p> <p><i>Revise the Genre controlled vocabulary to become more user friendly and expand documentation and examples.</i></p> <p>The purpose of Genre element set (per PBCore User Guide) requires review and revision, specifically:</p> <ul style="list-style-type: none"> <li>• Clarify the use of Genre in the schema and the PB User Guide. Currently the User guide explains that the element set can be used for both topical descriptors and editorial format descriptors. This leads to confusion.</li> <li>• Remove outdated descriptors from picklist</li> <li>• Add new terms added as needed by users and by the use cases defined above.</li> </ul> <p>Type: Implementation Recommendation</p>	Update descriptions and examples				Not a required field but we’ll enhance documentation.
<p><b>S05.02 Description Element Set</b></p> <p><i>Revise the Description element set to be more user friendly.</i></p> <p>The description element set requires review in terms of its original design</p>	Update documentation about descriptions				

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<p>and the current practices of users in filling it. The number of acceptable descriptions should be carefully analyzed with an eye to evaluating whether the description types available to users should be limited, whether Description should be divided into separate fields for different types of Descriptions, or whether to maintain the current Description element set and apply more effective user training.</p> <p>Type: Implementation Recommendation</p>	and vocabularies				
<p><b>S06.01 Rights Management</b></p> <p><i>Define an approach for rights management.</i></p> <p>PBC 2.0 should include a more standard approach to rights management, either through PBC itself (similar to the discussion of “packaging” above) through and open standard for rights management. A few specific requirements are important to note:</p> <ul style="list-style-type: none"> <li>• Rights metadata should apply to assets at all levels of granularity, from Clip to Series. This becomes especially important when repurposing content.</li> <li>• Once an abstract asset has been defined for a particular distribution purpose (for example, assembling music and clips from previous broadcasts to create a new asset) the rights should be able to be defined for the new asset – as opposed to attempting to define rights within a series of individual PBCore records.</li> <li>• Apply a standard vocabulary to rights so that it can become a sort able field to facilitate accessibility and decision-making.</li> </ul> <p>As a note, one candidate approach for modeling digital rights is the Open Digital Rights Language (ODRL) for standardizing the expression of rights information over content. ODRL provides flexible and interoperable mechanisms to support use of digital resources in publishing, distributing and consuming of electronic publications, digital images, audio and movies, learning objects, computer software and other digital creations.</p> <p>Type: Schema Change</p>		Assess how to link to known schemas	Not necessary for inventory project		<p>Rights can be handled with other known schemas – we’ll look at linking to those schemas</p> <p>Comment: This is true, but managing one metadata standard is already a burden for most stations, handling two standards and the relationship between the two can be challenging work. Additionally there is need to include better rights metadata in records to facilitate web access (stream/download permissions, creative commons, etc). Currently there is no standardized or recommended means to express rights within PBCore, just a broad container. Also PBCore does not allow for storage of an external rights xml standard inline within PBCore. Potentially external rights standards could be used inline within the Rights element if the schema allowed this flexibility.</p>
<p><b>S07.01 Linked Data</b></p> <p><i>Supported Linked Data to supplement metadata from structured and unstructured fields.</i></p> <p>PBC 2.0 should make some accommodation for supporting linked data to</p>		Implementa tion issue, not a schema			Will look at documentation

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<p>harvest information from digital sources. This topic requires additional exploration and definition, as well as more specific requirements.</p> <p>Type: Schema Change</p>		change			
<p><b>S08.01 Profiles</b></p> <p><i>Support the use of profiles as a mechanism for extending PBC to customized scenarios.</i></p> <p>PBC2.0 should allow extension of the schema to custom scenarios through the use of profiles (“applications”). These should:</p> <ul style="list-style-type: none"> <li>• Be used in the case of content providers that ingest metadata into the American Archive and distribution partners which receive content from the American Archive</li> <li>• Allow certain metadata elements to be defined on a per-entity basis, including but not limited to: Description, element sets, controlled vocabularies, content types and required fields</li> </ul> <p>Type: Implementation Recommendation</p>		Documentat ion, invite tool/profile developmen t from users			Ask for definition of needed profiles
<p><b>S08.02 Basic APIs</b></p> <p><i>Publish a set of basic APIs for retrieving information from the American Archive.</i></p> <p>Since the American Archive may make its content available to entities which do not require complex metadata and which do not have trained metadata experts on staff, the American Archive should create a basic set of APIs that support a few basic queries in native PBC format, including but not limited to:</p> <ul style="list-style-type: none"> <li>• Retrieving lists of available content with genre, content type</li> <li>• Retrieving specific assets for display or playout</li> </ul> <p>Type: Implementation Recommendation</p>		Will add example of how to do this to documentati on		√	Out of scope for PBCore – this is an American Archive project.
<p><b>S09.01 Segmentation</b></p> <p><i>Define the method for accomplishing segmentation in common use cases.</i></p> <p>Segmentation should be addressed structurally in prior requirements. However, there are still a variety of options about how segmentation could be handled. PBC 2.0 should explicitly define the way to do this in a way that</p>		Address for 2.0			

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satisfies common use cases, including but not limited to: <ul style="list-style-type: none"> <li>• Creating chapter points within media files</li> <li>• Creating clips from media files</li> <li>• Supporting cataloguing of time based metadata, such as bottom thirds</li> <li>• Supporting time code based rights management</li> </ul> Type: Schema Change					