# MXFixer™ and Diffuser™ Integrated Operation

## MXFixer™

**What Happens**

Take an incoming MXF file and **Unwrap** it to allow access to the metadata. You can use AAFixer in the same manner for an AAF file.

**Analyze** the metadata to ensure its integrity and show the results in a variety of displays.

The display windows include a simple traffic light, the media objects, simple tree structure, XML display, KLV structure, full MXF checks results & user metadata.
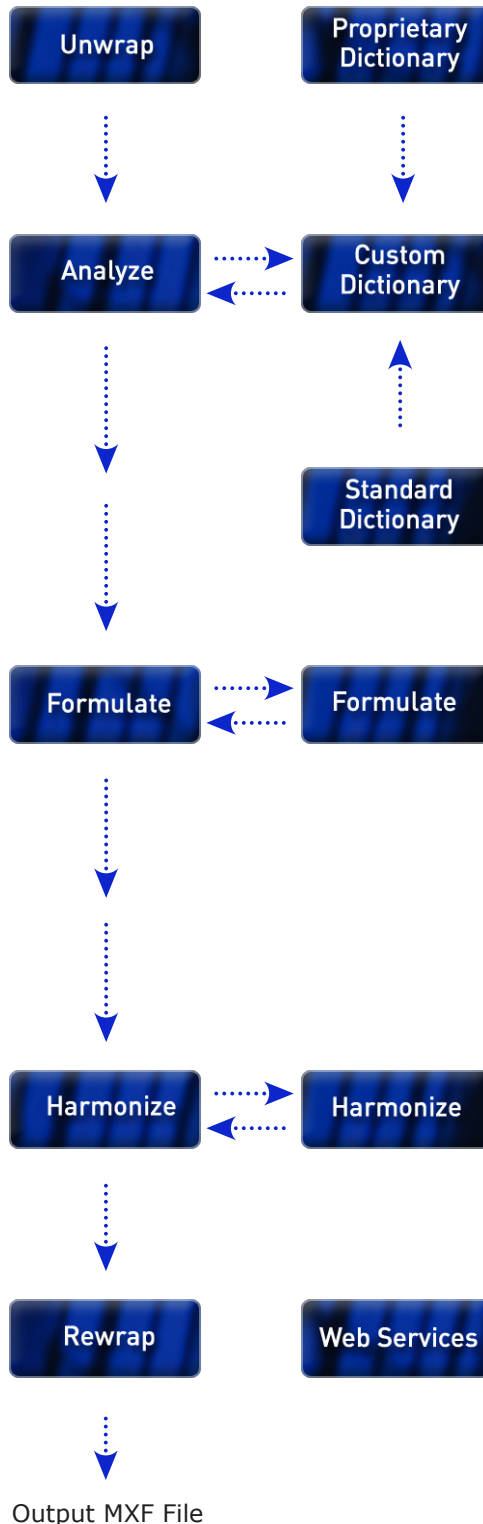
**Formulate** by using a form, custom built in Diffuser, show the metadata in selected fields and add to or modify it, as required.

**Harmonize** automatically translates user metadata into MXF, AAF and/or KLV metadata.

Take the checked and/or modified metadata and **Rewrap** with the essence to pass to the next process.

Alternatively it is possible to build an MXF file from the basic components of essence files plus local metadata.

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Input MXF File

**Unwrap**

**Analyze**

**Formulate**

**Harmonize**

**Rewrap**

Output MXF File

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## Diffuser™

**What Happens**

**Proprietary Dictionary**

The **Proprietary Dictionary,** allows company specific metadata fields to be entered simply by authorized operators.

**Custom Dictionary**

The **Custom Dictionary** is a combination of the evolving industry standard set and those which are specific to your business.

**Standard Dictionary**

The **Standard Dictionary,** or SMPTE master dictionary holds the industry standard reference.

**Formulate**

**Formulate** enables you to build exactly the right form to check and enter metadata for any stage in the program process.

The form can be constructed to suit any part of the program chain. Different stages will require different sets of metadata and so different forms.

**Harmonize**

**Harmonize** allows you to create XSLT scripts to automatically translate XML files into SMPTE compatible metadata schemas.

**Web Services**

The **Web Services** option enables any unrecognized metadata key to be quickly checked against the latest reference (standard or custom) by any application, including those from third parties.

**Diffuser Enterprise** system includes all features and functions. Corporate and Personal configurations are also available.

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## metaglue

## MXFixer

Allows you to unwrap and rewrap metadata and essence from MXF files and examine the meta-data. Although many organ-izations try to pre-define the types of incoming MXF file and hope to recognize the associated metadata, there will always be some occasions when this is not the case. This may be because the provider of the file has deliberately kept some metadata "dark" but it is more likely that they are simply using an unrecognized Key.

Integration of MXFixer with Diffuser enables quick and easy reference of all Keys, including un-known ones, with a master dictionary. This might simply be the ever growing SMPTE registry or, more likely, the result of combining an industry standard with a custom dictionary built to your specific requirements. In the second case, you will have the most complete reference, which includes all the industry standards plus your own business specific needs.

Additionally, an important feature of MXFixer is its ability to examine MXF files and ensure their validity.

The user interface and display for MXFixer has been kept very flexible, at one extreme enabling simple "go / no go" decisions, and at the other extreme offering detailed analysis of the metada-ta for QA or systems analysis. Changing between these displays is very easy.

**Please note:** The references to MXF files and MXFixer apply equally to AAF files, opened and checked with AAFixer.

## Diffuser

Provides the reference metadata dictionary for your whole operation, against which Keys found in MXF or AAF files can be compared.

It also enables the identification of unrecognized metadata Keys to be a simple, transparent oper-ation. If the company supplying your content has Keys which are a close match (but not identical) to yours, you can set up Synonyms to provide a simple link.

Additionally, if you wish to keep up with the evolving industry standards, you can use the Web Services facility which allows your master dictionary to be quickly updated against the latest SMPTE version.

Depending on where you are in the content chain, the metadata that you are interested in is likely to vary. For this reason, the Formulate function allows you to easily create a form that displays metadata that you need at that point, and to modify this or add data into empty Keys. The form is custom made as a "one off" oper-ation and used repeatedly as required. A form can be created for any stage in the MXF or AAF program chain.

If you have metadata in an external database that needs to accompany your essence, the Har-monize function, using an XSLT script written by Diffuser, automatically translates this into MXF, AAF and / or KLV metadata for you.

In summary, the integrated operation of Diffuser and MXFixer / AAFixer gives you a tool which is tailored specifically to your business and deliv-ers substantial efficiencies in your processes to leave staff for other productive activities.

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