MISB MOTION IMAGERY STANDARDS BOARD	MISB RP 1301.1
RECOMMENDED PRACTICE **Motion Imagery Identification System - Augmentation Identifiers**	**24 October 2013**

1 Scope

Motion imagery data is generated by many different sensors, distributed across many different networks and received by many different users and systems. To coordinate analysis, manage and generally prevent confusion with such a large number of motion imagery sources it is important to define a consistent name or identity for each source along with supplemental identifiers for various purposes. The Motion Imagery Identification System (MIIS) is a pair of a Standard (ST 1204) and a Recommended Practice (RP 1301). ST 1204 defines the consistent name of the source and RP 1301 (this document) defines the supplemental identifiers, called augmentation identifiers.

Please refer to MISB ST 1204 for the overview, scope and background of the MIIS.

2 References

2.1 Normative References

[1] MISB ST1204.1 Motion Imagery Identification System (MIIS), Oct 2013

2.2 Informative References

[2] SMPTE ST 336-2007 Data Encoding Protocol Using Key-Length-Value

3 Modifications and Changes

Revision	Date	Summary of Changes
RP 1204	10/04/2012	• Initial release of MIIS used as a basis for RP 1301
RP 1301.1	10/24/201	• Sections of RP 1204 moved to RP 1301 when RP 1204 was updated to ST. 1204.1. Released - **June 4th 2013**. The Initial revision number for RP1301 is 1 so that the LDS maintains the proper version number when used.

4 Definitions and Acronyms

5 Introduction/Background - Informative

Refer to ST 1204 for the background of this RP.

6 Recommended Practice Description - Normative

The MIIS has two parts, the required Core Identifier (defined in MISB ST 1204[1]) and a list of optional Augmentation Identifiers. The purpose of a **Core identifier** is to provide a unique "name" for a motion imagery source. The Core ID name is composed of one or more UUID values as specified in STD 1204. The Core Identifier can be used standalone by inserting it directly into a metadata stream or it can be embedded into other KLV constructs (Universal Sets, Local Data Sets, etc.), such as the Augmentation Local Data Set (LDS) described below.

Augmentation identifiers provide further context about the motion imagery data, they supply humanly readable information that can be used to manage or exploit the motion imagery. They can contain fixed data, such as a Ground Station ID, or referenced data. For example the systems can use third party databases to reference and cross correlate information for insertion into the data stream for downstream reference. The augmentation data is informational only – it is not required for formal identification. Augmentation Identifiers can be added by any system throughout the data flow and they are grouped together in a LDS.

This RP is not intended to become a standard because it needs to have elements added to it quickly without the delays of standard adoption.

6.1.1 Augmentation Identifier's Local Data Set

Augmentation Identifiers are formatted as KLV in a Local Data Set (LDS) with key 06.0E.2B.34.02.0B.01.01.0E.01.03.05.03.00.00.00 (CRC 47531, symbol of "miis_lds").

The tags used in the LDS are defined in Table 1 and Table 2 in Appendix A. Table 1 lists the administrative tags and Table 2 lists the MISB defined identifiers.

Table 1: MIIS LDS Administrative Tags/Keys

Tag	Name / Symbol	KLV Universal Key (Hex)	Description
1	Unused	Unused	This Tag was used in RP 1204 for Absolute ID but this tag has been deprecated.
2	Unused	Unused	This Tag was used in RP 1204 for Relative ID but this tag has been deprecated.
3	Version document_version	060E-2B34-0101-0101-0E01-0205-0500-0000 (CRC 56368)	Version of this document – BER OID integer.
4	Core Identifier core_id	060E-2B34-0101-0101-0E01-0405-0300-0000 (CRC 30280)	ST 1204 Core Identifier
5	Reserved	Reserved	Reserved
6	Reserved	Reserved	Reserved
7	Reserved	Reserved	Reserved
8	Start of Augmentation Values - See Table 2 in Appendix A.		

Figure 1, shows an example of an Augmentation LDS. This illustration shows the LDS with the Core ID, version and an augmentation list.

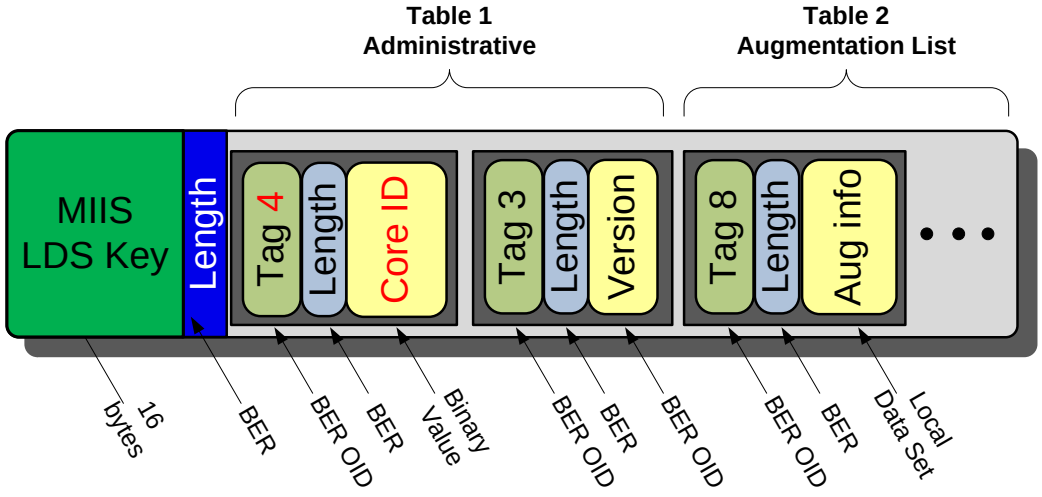

Figure 1: MIIS LDS

To ensure that the values in the LDS are interpreted properly the version number needs to be included with every KLV LDS value.

Requirement	
RP 1301.1-01	The Augmentation LDS shall contain a version number (tag 3) value.
RP 1301.1-02	The Augmentation LDS shall contain a Core Identifier (tag 4) value.

Appendix A

The following table lists the items that can be supplied in the Augmentation List.

Table 2: MIIS LDS Augmentation Identifier Tags/Keys

Tag	Name / Symbol	KLV Universal Key (Hex)	Description
8	<Name>	<Key>	<Supporting Documentation>
9	<Name>	<Key>	<Supporting Documentation>
10	<Name>	<Key>	<Supporting Documentation>
11	…		