

**STANDARD****MISB Metadata Registry and Processes****26 February 2015**

## 1 Scope

This standard (ST) documents processes for the establishment and administration of the Motion Imagery Standards Board (MISB) Metadata Registry. The MISB Metadata Registry contains information about Universal Label (UL) metadata identifiers reserved for private use by motion imagery systems in the Department of Defense (DoD), Intelligence Community (IC), and National System for Geospatial-Intelligence (NSG). This ST defines the hierarchical node structure of the MISB Metadata Registry and processes for requesting, assigning, approving, and managing metadata identifiers (KLV keys).

Note that a previous (DRAFT) version of this document was labeled EG 0602. In order to avoid confusion with MISB Standard 0602, which is often referenced without the “ST” prefix, the assigned number of this document was changed.

## 2 References

### 2.1 Normative References

The following documents are necessary references for understanding and following the instructions in this guideline:

- [1] SMPTE ST 298:2009 Universal Labels for Unique Identification of Digital Data
- [2] MISB ST 0807.15, MISB KLV Metadata Registry, Feb 2015
- [3] SMPTE ST 336:2007 Data Encoding Protocol Using Key-Length-Value
- [4] SMPTE ST 335:2012 Metadata Element Dictionary Structure
- [5] SMPTE RP 210v13:2012 Metadata Dictionary Registry of Metadata Element Descriptions

### 2.2 Informative References

The following documents are useful informative references for understanding and following the instructions in this guideline:

- [6] ITU-T X.680 Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation, November 2008
- [7] ITU-T X.690 Information technology ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER), November 2008

- [8] ISO/IEC 8825-1. Information Technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER), 2008
- [9] SMPTE ST 395:2014 Metadata Groups Register
- [10] MISB EG 0104.5 Predator UAV Basic Universal Metadata Set, 2006
- [11] SMPTE ST 400:2012 SMPTE Labels Structure

### 3 Terms, Acronyms and Definitions

<b>ASPA</b>	MISB Profile for Aerial Surveillance and Photogrammetry Applications
<b>BER OID</b>	Basic Encoding Rules Object Identifier
<b>COI</b>	Community of Interest
<b>DoD</b>	Department of Defense
<b>EBU</b>	European Broadcast Union
<b>EG</b>	Engineering Guideline
<b>KLV</b>	Key Length Value
<b>MISB</b>	Motion Imagery Standards Board
<b>MWG</b>	Metadata Working Group
<b>NGA</b>	National Geospatial Agency
<b>RP</b>	Recommended Practice
<b>SMPTE</b>	Society of Motion Picture and Television Engineers
<b>SMPTE RA</b>	SMPTE Registration Authority
<b>ST</b>	Standard
<b>UL</b>	Universal Label

### 4 Revision History

Revision	Date	Summary of Changes
ST 0607.4	02/26/2015	<ul style="list-style-type: none"> <li>Updated references</li> <li>Added REQ's -05, -06, -07, -08</li> <li>Registry Fields: Alias (removed); Effective Version No., Minimum Value, Maximum Value (added)</li> <li>Grammatical changes</li> </ul>

### 5 Introduction

The MISB Metadata Registry and the processes in this standard are the result of experience since 2003 with SMPTE KLV metadata and the SMPTE RP 210 Metadata Dictionary [5]. Experience has shown that the SMPTE method of registering and managing KLV metadata keys has not kept up with the pace of motion imagery metadata development and deployment in DoD and intelligence agencies.

While many of the requirements for metadata identified by the MISB are shared with those of SMPTE there are some unique requirements that can only be met by a separate MISB Metadata Registry:

**Privacy** – Many aspects of metadata used by DoD and intelligence agencies, including definitions should not be made public. There is need to register metadata whose very definitions and allowable parameters are sensitive, and this requires a privately controlled registry. Other metadata may be Unclassified but sensitive when defined. Sensitive applications or capabilities could be inferred from the definitions and allowable parameters, and thus should also be protected. The MISB must be able to control access to its own registry of metadata and make public only those higher-level nodes required by the SMPTE Registration Authority (SMPTE-RA).

**Speed** – KLV experimental keys were conceived by SMPTE for use by developers as the new Metadata Dictionary entries were reviewed and balloted by its membership. Experience has shown that a six-month or longer approval period within SMPTE may meet commercial product development cycles, but does not meet the needs of the more urgent development of systems within DoD and intelligence agencies. The goal of the MISB Metadata Registry is to approve requests for new metadata keys in a timely manner. The MISB Metadata Registry streamlines a process for users with an urgent need for KLV key assignments to obtain them quickly.

**Extensibility** – The origin of the SMPTE Metadata Dictionary was in response to commercial requirements in the Joint SMPTE-EBU Task Force Study of 1997. Since its implementation the hierarchical structure of the Dictionary has addressed changing commercial needs. As KLV has seen widespread use within DoD and intelligence agencies, it has become apparent that different and more creative structures could be implemented if done privately. The MISB Metadata Registry continues to use the hierarchical Universal Label (UL) structure in SMPTE ST 298 [1], but has considerable “open space” for growth and flexibility for future structures. Unless a further structure is defined below a sub-class node, new metadata element keys under the sub-class node will be assigned sequentially.

**Interoperability** – The above observations motivated the development of the MISB Metadata Registry. Its structure, however, must be backward compatible with metadata systems that were developed using the SMPTE Dictionary elements, or which already exist. As a result, the MISB Metadata Registry has a similar, but less complex, hierarchical key structure; keys currently in use are added to the registry so they cannot be redefined for other applications in the future. Parts of the registry hierarchical structure (specifically for ASPA) must also be tailored to fit the sub-level class structure already in use by ASPA (MISB Profile for Aerial Surveillance and Photogrammetry Applications).

## 6 MISB Metadata Registry Structure

The SMPTE Dictionary contains the provision for privately registered metadata in Class 14, and SMPTE-RA is responsible for registering and publishing higher-level node information. Class 14 in the SMPTE Dictionary is identified by a value of 0x0E (hexadecimal notation here and subsequently) in Byte 9 of the UL (Universal Label).

Requirement(s)	
ST 0607.2-01	The MISB Metadata Registry [2] shall define as normative the 16 bytes of the UL (Universal Label).
ST 0607.2-02	Bytes 1-8 shall be populated according to SMPTE ST 336 [3] rules.

ST 0607.2-03 Bytes 7 and 8 of the UL shall each be set to 01 (hexadecimal notation).

Bytes 7 and 8 of the UL are not to be used for version control in the MISB Metadata Registry.

Figure 1 illustrates the hierarchical structure of the MISB Metadata Registry. Nodes in the MISB Metadata Registry are further defined in the sections below.

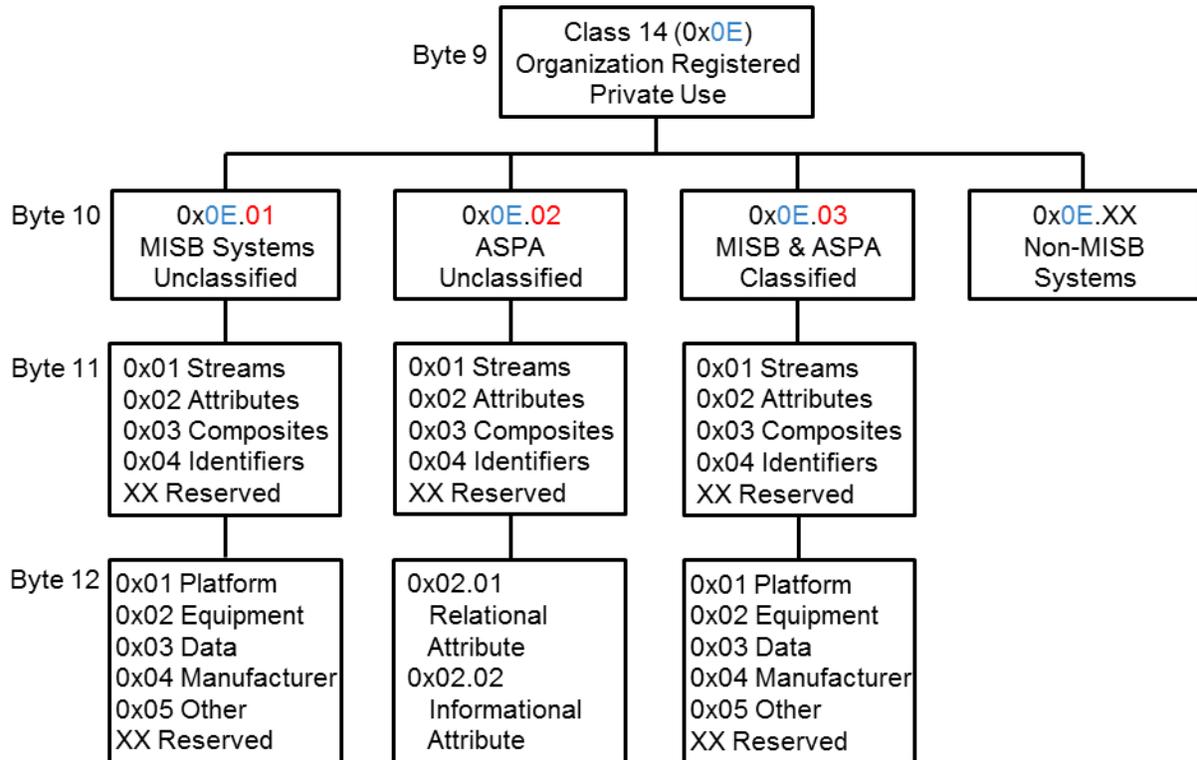


Figure 1: MISB Metadata Registry Hierarchy Structure

### 6.1 Byte Orientation

Byte	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Value	06	0E	2B	34	04	01	01	01	0E							
	Controlled by SMPTE								MISB Allocated Use							

### 6.2 Byte 10

The first three node values in Class 14 of the SMPTE Dictionary are: identified by Byte 10; registered by SMPTE-RA to MISB; and are defined as follows:

UL: **06.0E.2B.34.04.01.01.01 0E.01.00.00.00.00.00.00** (CRC 50883)

Name: MISB Systems

Definition: Unclassified metadata registered by MISB (Motion Imagery Standards Board) for Systems.

UL: **06.0E.2B.34.04.01.01.01 0E.02.00.00.00.00.00 (CRC 7745)**

Name: ASPA

Definition: Unclassified metadata registered by MISB for ASPA.

UL: **06.0E.2B.34.04.01.01.01 0E.03.00.00.00.00.00 (CRC 42528)**

Name: MISB Systems and ASPA Classified

Definition: Classified metadata registered by MISB for Systems and ASPA.

Registration of any additional node values in Class 14 for use by the MISB Metadata Registry will require application to SMPTE-RA and payment of a registration and management fee.

### 6.3 Byte 11

Under Byte 10 nodes 0x01, 0x02 and 0x03, the MISB Metadata Registry defines a new node using Byte 11 of the UL as follows:

Byte 11	Category	Description
01	<b>Streams</b> (Data Sets and Streams)	Metadata in this sub-class are normally in streaming transport or applications. Elements in this sub-class are usually expected to change each time they are observed and their values may change either continually or sporadically. Values for these elements are most often associated with a specific observation or sample time. Examples may include metadata that varies with each motion imagery frame or according to a time-tagged observation time.
02	<b>Attributes</b> (Individual Data Elements)	Metadata in this sub-class are expected to be processed in combination with other attributes in the same composite structure. Elements in this sub-class are not usually expected to change frequently with time and may be constant for large segments of a motion imagery scene. Values for these elements are static within the composite or defined context in which they are recorded. Examples may include metadata that does not change with time, but elaborates upon another metadata element or the motion imagery, such as the datum used in a location coordinate system or the size of a motion imagery frame.
03	<b>Composites</b> (Structures, Groups, Packs, Sets)	Metadata in this sub-class are collections of other metadata elements. Elements in this sub-class almost always contain items which share a common context and registration, as a Composite provides a syntax to group items together. Examples may include a Local Set or a file transport or application where use of this sub-class signals to processing equipment that additional parsing is required.

Byte 11	Category	Description
04	<b>Identifiers</b> (Names, Numbers, Pick-Lists)	Metadata in this sub-class are persistent identifiers, local identifiers, or enumerated elements. Elements in this sub-class identify something which could be another metadata element or composite or motion imagery stream, a uniquely numbered data package or file, a physical object such as a sensor platform name, or a registration or tag such as an aircraft tail number.
05 - 7F	Reserved	Future use.
80 - FF	Illegal	May not be used.

## 6.4 Byte 12

### 6.4.1 MISB Systems

Byte 12 values describe additional sub-classes or elements for broad categories of physical objects, data, or entities (for Byte 10 nodes 1 and 3) as follows:

Byte 12	Sub-Classes or Elements	Description
01	<b>Platform</b>	Related to physical transportation or movement vehicles intended is to carry equipment or other objects. Examples may include aircraft, ships, ground vehicles, etc.
02	<b>Equipment</b>	Related to equipment such as sensors, communications, or other devices. Examples may include optical cameras, inertial navigation systems, radio receivers, etc.
03	<b>Data</b>	Related to non-physical or non-tangible items such as files, streams, or software. Examples may include software version numbers, motion imagery stream identifiers, object identifier (OID), etc.
04	<b>Manufacturer</b>	Related to information about or unique to a specific manufacturer or reserved for use by a designated manufacturer. Examples may include a manufacturer's tracking number, proprietary information, software performance parameters, etc.
05	<b>Other</b>	Related to other TBD information not included in the above sub-classes.
06 - 7F	Reserved	Future use.
80 - FF	Illegal	May not be used.

### 6.4.2 ASPA

The following Byte 12 nodes are reserved under the MISB Metadata Registry (for Byte 10 node 2). Any future nodes will be sequentially assigned and registered in [2].

Byte 12	Reserved MISB Nodes	Description
01	<b>Relational</b>	Relational attributes between data elements.
02	<b>Information</b>	Individual data elements.
03 - 7F	Reserved	Reserved for sequential key assignment as described below.
80 - FF	Illegal	May not be used.

## 6.5 Sequential Key Assignment

The byte values for new assigned nodes or elements under Bytes 13-16 classes are incremented sequentially in accordance with rules for BER OID (Basic Encoding Rules Object Identifier) encoding defined in SMPTE ST 298 except as described below.

BER OID encoding is a variable length encoding method that assigns groups of seven bits right-justified in the available space. This encoding avoids embedding bytes with value 00 in the middle of the SMPTE UL. The correspondence of decimal numbers to BER OID encoded hex strings proceeds as follows:

1 to 127:	01	to	7F
128 to 255:	81 00	to	81 7F
256 to 383:	82 00	to	82 7F
384 to 16383:	83 00	to	FF 7F
16384 to 16511:	81 80 00	to	81 80 7F

and so on.

More details are provided in SMPTE ST 298 [1] and ISO/IEC 8825-1 [8].

## 6.6 Legacy Population

Requirement	
ST 0607.2-04	The Predator UAV Universal Metadata Set key defined in MISB EG 0104.4 [10] is 06.0E.2B.34.02.01.01.01 0E.01.01.02.01.01.00 00 and shall be inserted into the MISB Metadata Registry to ensure backward compatibility with systems already using the assigned key.

NOTE: A Class 14 node in the SMPTE Dictionary, SMPTE Groups Registry, and registered on the SMPTE-RA Web site was defined as 06.0E.2B.34.02.01.01.01 0E.03.01.00.00.00.00 00 and was titled "RQ1A Closed Caption Set." The title and description of this node has been removed from the SMPTE Dictionary, SMPTE Groups Registry and SMPTE-RA website because the key has never been used and is needed to complete the continuity of the MISB Registry sub-class. All research indicates that this removal will not conflict with any legacy implementation.

## 6.7 MISB Metadata Registry Procedures

This section defines the administrative procedures to be used by the MISB and the individual tasked with maintaining the MISB Metadata Registry (referred to hereafter as the MISB Registrar). Figure 2 shows the approval procedures as an informative illustration.

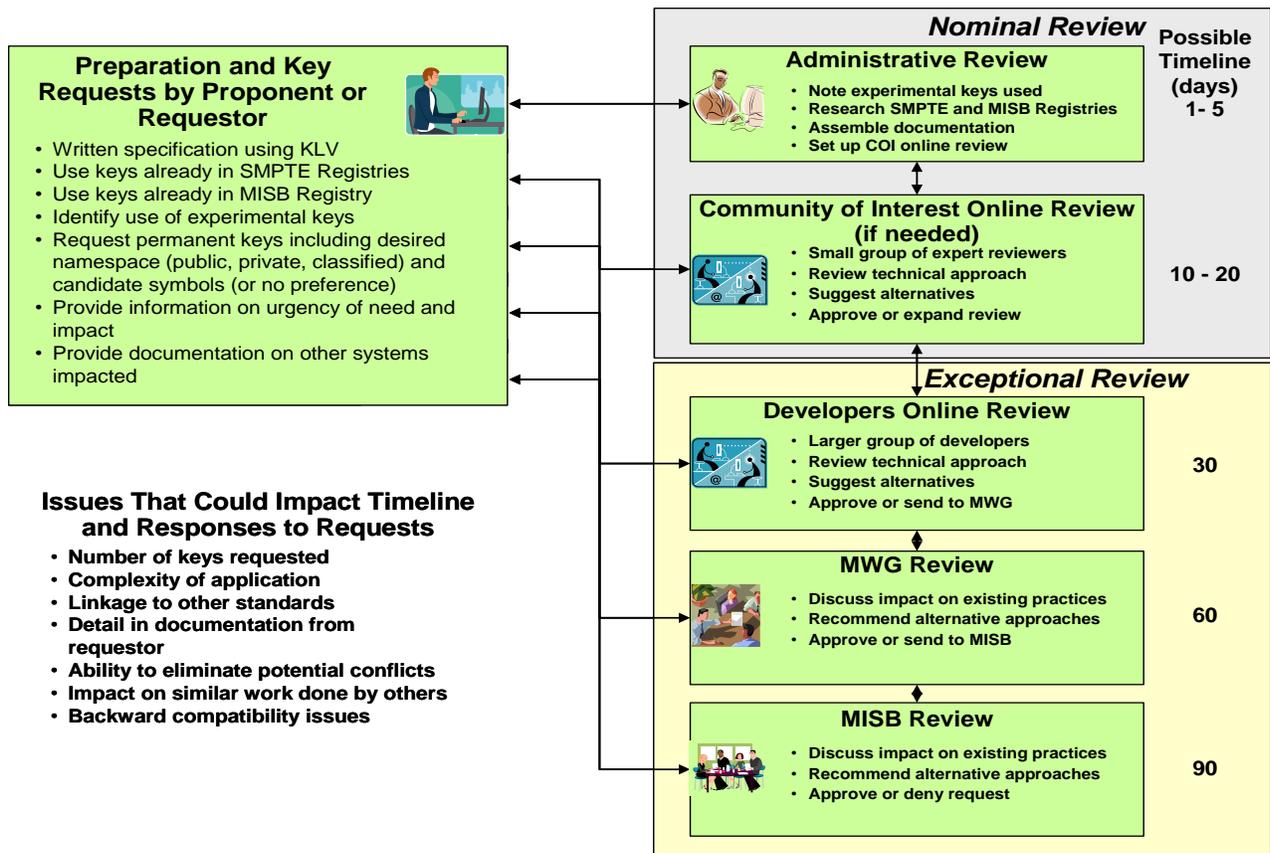


Figure 2: MISB Metadata Registry Approval Process (Informative)

## 6.8 Request Process

The procedure for creating a new entry in the MISB Metadata Registry typically begins with a request from a developer of a system or application (i.e. the requestor), who has been unable to find suitable KLV keys in the public SMPTE Dictionary or in the existing MISB Dictionary. The process begins with the requestor providing the MISB Registrar with the information shown in Annexes A and B either on-line (preferred), in softcopy as e-mail attachments, or in hardcopy.

### 6.8.1 New Key Review and Approval

One of the principal goals of the MISB Metadata Registry is to provide new metadata keys quickly; this process depends on a number of factors such as:

**Number of keys requested** – the cycle time of review, approval and assignment of keys depends on the number requested.

**Complexity of application** – a new application of metadata will need to be understood to some level of detail. More complex applications take longer to understand and approve.

**Linkage to other standards** – when new metadata keys are tied to draft documents undergoing MISB review, or depend on other documents that have not been approved, the request for new keys may be delayed pending document approval.

**Detail in documentation from requestor** – insufficient information from a requestor can cause delay.

**Impact on similar work done by others** – if the proposed application overlaps with or parallels similar work by others, more time may be needed for resolution before approval.

**Backward compatibility issues** – if the proposed application is not backward compatible with existing implementations, this could lengthen or delay its approval until resolved.

Three types of review may be used when a request is received. All requests will first undergo Nominal Review and Approval, at which point they will either be approved or sent into Exceptional or Expedited Reviews.

### 6.8.2 Nominal Review and Approval

Most requests for new metadata keys will fall into this category.

**Administrative Review by MISB Registrar** – An initial administrative review by the Registrar will determine if all the needed technical information has been provided by the requestor. Additional information may be requested to complete the information package. The Registrar will be sufficiently familiar with the SMPTE RP 210 Dictionary and the MISB ST 0807 Registry to determine if requested keys already exist. If so, the requestor and the Registrar will mutually determine if existing keys can be used, or if new keys are needed. New keys will then either be assigned immediately or, if there is still uncertainty about the application or there is disagreement about which keys are needed, the Registrar will initiate a Community of Interest (COI) online review. The administrative review process, including scheduling a COI review, must be accomplished within 5 business days from receipt of a complete request and the Registrar must provide the COI review members with a summary of actions taken and a copy of the request package.

**Community of Interest (COI) Online Review** – The COI online reviewers will consist of 2-5 individuals who are familiar with the SMPTE and MISB metadata standards and the workings of the MISB and MWG (Metadata Working Group), plus the requestor and the Registrar. They will meet via teleconference to review the request and attempt to resolve any conflicts or issues and either recommend key assignments, recommend alternatives and work with the requestor to revise the request, or refer the request to a group of system developers for continued examination and exceptional review. The COI review must be completed no more than 20 business days after completion of the initial administrative review. The Registrar must prepare and post minutes of the COI review to document issues discussed and decisions and recommendations made.

### 6.8.3 Exceptional Review

Few requests should enter this review category. Those that do reach this level will be complex and involve constructive disagreement among peer developers on the metadata application or complexity of the request.

**Developers Review** – The Registrar will schedule the review either via teleconference or physical meeting. The group will consist of 5 or more motion imagery systems developers approved by the MISB Chair plus the requestor and the Registrar who will meet to resolve the request for additional keys. The group will recommend key assignments, work with the requestor to recommend alternatives and revise the request, or refer the request to a formal meeting of the MWG for continued examination and exceptional review. The developer review must be completed no more than 30 business days after completion of the COI review. The Registrar must prepare and post minutes of the developers review to document issues discussed and decisions and recommendations made.

**MWG Review** – The Registrar, in conjunction with the MWG Chair, will schedule an ad hoc meeting of the MWG to review the request and recommendations of the developers review. The MISB e-mail list will be used to announce the meeting which will be Unclassified (if possible). The MWG will either recommend key assignments, work with the requestor to recommend alternatives and revise the request, or refer the request to the MISB for continued examination and exceptional review. The MWG review must be completed no more than 30 business days after completion of the COI review. The Registrar must prepare and post minutes of the MWG review to document issues discussed and decisions and recommendations made.

**MISB Review** – The Registrar, requestor, MWG Chair, MISB Senior Scientist, and MISB Chair will meet to resolve any remaining issues with the request. The MISB review may result in additional meetings as needed and at the discretion of the MISB Chair. The MISB review must be completed no more than 30 business days after completion of the MWG review. The Registrar must prepare and post minutes of the MISB review to document issues discussed and decisions and recommendations made.

#### **6.8.4 Expedited Review**

When justified, the MISB Chair may be petitioned for expedited review and approval of metadata keys.

**Justification for Expedited Review and Approval** – Written justification for expedited review and approval by the MISB Chair may include extremely rapid deployment of a new motion imagery capability, highly compartmented security which precludes review by the Registrar or a COI, delays due to exceptional review that will significantly impact larger program schedule, or other extenuating circumstances which prevent the nominal or exceptional review processes from being followed.

**Follow-up COI Advisory Review** – When the MISB Chair approves new keys under the expedited review process there be a follow-up COI advisory review within 30 days to examine the request package, if possible, and make recommendations to the requestor if any changes to the application or implementation can be made before employment. The COI advisory review will document the expedited approval for the record.

### **6.9 Online MISB Metadata Registry**

The MISB Metadata Registry is published on the MISB website.

## **6.10 MISB Metadata Registry Operation and Maintenance**

The MISB Metadata Registry will be operated and maintained by the National Geospatial-Intelligence Agency (NGA).

### **6.10.1 Key Assignment and MISB Metadata Registry Database Entry**

The Registrar will assign new keys based on the initial administrative review or recommendations from subsequent reviews. Database entries and on-line notification of key assignments will be made within 2 business days following approved key assignment.

## Annex A MISB Metadata Registry Request Form (Informative)

1. Briefly describe how the requested 16-byte KLV key will be used in the KLV protocol. For example as part of a Universal Set, as a standalone element, etc.:

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2. Briefly describe the application and environment in which the new KLV key will be used.

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3. Reference any MISB or other specifications being reviewed but not yet published for which the KLV key is needed. (Attach documentation as needed.)

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4. Briefly explain why KLV keys or KLV structures, such as Sets, that already exist either in SMPTE RP 210 or the MISB Registry cannot be used.

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5. Identify any experimental key that will be used until a permanent key is assigned.

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6. Provide information on the urgency of the need and the timeframe in which it is needed.

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7. Provide documentation on any other systems that may be impacted by the requested metadata. (Attach documentation as needed.)

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8. Request permanent 16-byte keys individually by filling out an Excel spreadsheet. (Excel spreadsheet provided separately.)

## Annex B MISB Metadata Registry Contents (Normative)

### Required Information

**Universal Label (UL) 16-Byte Key (Normative)** – The 16-byte Universal Label consists of a 2-byte UL Header, a 6-byte UL Designator, and an 8-byte Item Designator as defined in SMPTE 336M. The eight bytes of the Item Designator (last 8 bytes of the UL) uniquely identify the specific item in the MISB Metadata Registry in a hierarchical fashion. The first byte in the Item Designator and subsequent bytes enable the hierarchical identification of subclasses and/or individual data elements.

**UL Key Check Sum (CRC) (Normative)** – This field is computed from the 16 bytes of the UL Key using a standard 16 bit CRC computation (reference and macro available from the MISB Registrar). The value is a pseudo unique number for each key ranging from 0 to 65536. This value provides a method for validating that a key that has been copied correctly in programs, documents or between people.

**Name (Normative)** – This field is the name in US English for the data element or class/subclass identified by the universal label or symbol.

**Symbol (Normative)** – Each MISB Metadata Registry item may also be uniquely identified using its primary assigned symbol. A symbol consists of a string of alphanumeric characters and provides an alternative to the Universal Label for identifying an item in text-based data representations such as the Extensible Markup Language (XML) and other computer languages. To enable the use of symbols in a wide range of computer languages other than XML, symbols are to be composed only of the characters A-Z, a-z, 0-9, and \_, and are to begin with an alpha character (A-Z, a-z) or an underscore (\_). Symbols are intended for machine processing, and the choice of symbol is not solely determined by linguistic criteria. Symbols are defined for both nodes and leaves.

Requirement(s)	
ST 0607.4-05	Registry symbols shall be composed only of the characters A-Z, a-z, 0-9.
ST 0607.4-06	Registry symbols shall begin with an alpha character (A-Z, a-z) or an underscore (_).

**Definition (Normative)** – This field is the detailed and unambiguous US English language definition of the data element or class/subclass.

**Tree Segment (Node or Leaf) (Normative)** – For search and sorting purposes the MISB Metadata Registry entries are identified as either nodes or leaves in the hierarchy.

**Data Type (Normative)** – This is the text description of the underlying data type. The description is used to determine the most appropriate type in the Types Listing reference. For numeric types a natural value range is defined for that type. For example a 1 byte UINT will have a natural range from 0 to 255.

**Effective Date (Version No.) (Normative)** – The date on which the MISB Metadata Registry entry becomes effective and may be used operationally. The date format used is YYYYMMDD.

**Effective Version No. (Normative)** – The version of the Registry on which the entry becomes effective and may be used operationally.

**Value Length (Bytes) (Stated)** – This entry states a default or other limitation on the length provided by the originator on the permitted length in bytes or characters of the value of the data element. In some cases, such as a text string, the length is not defined or limited, and the value length is described as variable. However, in practice, a variable length may be limited by the application specification. The value length is a default or nominal length. The length field in a KLV item determines the true value length.

**Minimum Value (Stated)** – This field states the smallest permitted value for the data element, if it is not the same as the data type’s natural range (see Data Type). Units are those identified in the Units of Measurement entry. Note that the defining document may place restrictions on the minimum value that have not already been defined by the underlying data type.

**Maximum Value (Stated)** – This field states the largest permitted value for the data element, if it is not the same as the data type’s natural range (see Data Type). Units are be those identified in the Units of Measurement entry. Note that the defining document may place restrictions on the maximum value that have not already been defined by the underlying data type.

**Allowed Values (Stated)** – This MISB Metadata Registry entry states any limitation on enumerated values allowed for the data element. Units are those identified in the Units of Measurement entry.

**Unit of Measurement (Normative)** – This field specifies standard of basic quantity or increment by which something is divided, counted, or described. This value is normative but only applicable to entries with measurement values. ISO metric standard units are to be used (ISQ, see ISO 80000 series). An enumerated list of the units of measure is to be maintained to ensure consistency.

Requirement	
ST 0607.4-07	The MISB Metadata Registry Unit of Measurement field shall use ISO metric standard units (ISQ, see ISO 80000 series).

**Measurement Type (Normative)** – This MISB Metadata Registry entry defines the measurement type for the unit of measurement. E.g. Temperature Measurement Type, Angular Measurement Type, Geographical Measurement Type for “Degrees,” etc. This value is normative but only applicable to entries with measurement values.

**Defining Document or Standard (Normative)** – If a document that provides further information about a metadata item is available, then this field is to reference that standard or the authoritative source of the information. For example, a defining document may be used to specify the set of permissible values for an enumeration when the assigned type kind is a Basic Type rather than an Enumeration.

Requirement	
ST 0607.4-08	If a document that provides further information about a metadata item is available, then the Defining Document or Standard field shall reference that document.

**Other Reference Documents (Informative)** – References or links to other documents that may be useful in implementing the MISB Metadata Registry entry.

**Notes or Comments (Informative)** – This field can be used to provide additional information that may assist in the interpretation and correct application of the data element or a class/subclass of data elements. This information cannot be deduced from the other normative and informative fields.

**Registry Administrative Information**

As of MISB ST 0807.13, the following entries are no longer distributed in the public version of the MISB Metadata Registry. The MISB still requests this information from submitters for the purpose of addressing questions and comments regarding key requests or submissions.

**Requestor Name (Informative)** – Name of the person who requested the MISB Metadata Registry entry.

**Requestor Organization (Informative)** – Organization of the person who requested the MISB Metadata Registry entry.

**Requestor Address (Informative)** – Street address of the person who requested the MISB Metadata Registry entry.

**Requestor Telephone (Informative)** – Telephone number of the person who requested the MISB Metadata Registry entry.

**Requestor FAX (Informative)** – Fax number of the person who requested the MISB Metadata Registry entry.

**Requestor E-mail (Informative)** – E-mail address of the person who requested the MISB Metadata Registry entry.

**Date Approved (Informative)** – Date that the Registrar received approval to log the MISB Metadata Registry entry.

**Approver Name (Informative)** – Individual or organizational name approving the MISB Metadata Registry entry.