**The Compendium of Controlled Extensions (CE)**

**for the**

**National Imagery Transmission Format (NITF)**

**Volume 2**

**Data Extension Segments**

**APPENDIX XX**

**DES Name**

**DES**

**VERSION 1.0**

**DRAFT**

**DD Month YYYY**

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**TBD/TBR Listing**

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FOREWORD

See Forward in Main Body of STDI-0002 Version #.#

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# XX.1 INTRODUCTION

* What does this extension do? Why was it developed if similar extensions existed?
* What type of systems (i.e. sensor sources, format processors, applications, etc.) is responsible for generating the data?
* Who is the intended user community?
* What type of systems (i.e. guards, libraries, applications, etc.) are expected to support this extension for the intended user community?
* What is the intended lifecycle process for this extension within the originating system architecture and/or in support of enterprise data sharing activities? (Refer to XX.8 Maintenance and Lifecycle)
* What are other informational resources can be provided or researched to better understand on how to best implement this extension? For example, is there a data model driving the content and function to this extension?

# XX.2 REFERENCES

# XX.3 TERMS AND DEFINITIONS

# XX.4 ABBREVIATIONS/ACRONYMS

# XX.5 TECHNICAL NOTES

* Technical information regarding the generation and use of the data contained within the extension.

# XX.6 SPECIFICATION TABLE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **“DES NAME” Data Extension Segment (DES) Subheader**  (TYPE: “R”=Required, “C”=Conditional, “< >” BCS spaces allowed for entire field)  (“†” annotations are explained at the end of table) | | | | |
| **FIELD** | **NAME/DESCRIPTION** | **SIZE** | **VALUE RANGE** | **TYPE** |
| **DE** | File Part Type | 2 | BCS-A  DE | R |
| **DESID** | Unique DES Type Identifier | 25 | BCS-A  Registered value only | R |
| **DESVER** | Version of the Data Definition | 2 | BCS-N positive integer  01 to 99 | R |
| **DECLAS** | Data Extension File Security Classification. | 1 | ECS-A  T, S, C, R, or U | R |
| NOTE: If the value of the DESCLAS field is T, S, C, or R, then the DESCLSY field must be populated with a valid code for the security classification system used. | | | | |
| **DESCLSY** | DES Security Classification System | 2 | ECS-A  (Default is ECS spaces (0x20))  The most up to date list of registered values can be found on the NITF Field Value Registry, specified in section 2.1 ONLINE RESOURCES. | <R> |
| NOTE: If any of the following fields are populated with anything other than spaces, then the DESCLSY field must be populated with a valid code for the security classification system used: DESCODE, DESREL, DESDCTP, DESDCDT, DESDCXM, DESDG, DESDGDT, DESCLDES, DESCATP, DESCAUT, DESCRSN, DESSRDT, and DESCTLN. | | | | |
| **DESCODE** | DES Codewords | 11 | ECS-A  (Default is ECS spaces (0x20)) | <R> |
| **DESCTLH** | DES Control and Handling | 2 | ECS-A  (Default is ECS spaces (0x20)) | <R> |
| **DESREL** | DES Releasing Instructions | 20 | ECS-A  (Default is ECS spaces (0x20)) | <R> |
| **DESDCTP** | DES Declassification Type | 2 | ECS-A  DD, DE, GD, GE, O, X  (Default is ECS spaces (0x20)) | <R> |
| **DESDCDT** | DES Declassification Date | 8 | ECS-A  CCYYMMDD  (Default is ECS spaces (0x20)) | <R> |
| **DESDCXM** | DES Declassification Exemption | 4 | ECS-A  X1 to X8, 25X1 to 25X9  (Default is ECS spaces (0x20)) | <R> |
| **DESDG** | DES Downgrade | 1 | ECS-A  S, C, R  (Default is ECS space (0x20)) | <R> |
| **DESDGDT** | DES Downgrade Date | 8 | ECS-A  CCYYMMDD  (Default is ECS spaces (0x20)) | <R> |
| **DESCLTX** | DES Classification Text | 43 | ECS-A  User-defined free text  (Default is ECS spaces (0x20)) | <R> |
| **DESCATP** | DES Classification Authority Type | 1 | ECS-A  O, D, M  (Default is ECS space (0x20)) | <R> |
| **DESCAUT** | DES Classification Authority | 40 | ECS-A  User-defined free text  (Default is ECS spaces (0x20)) | <R> |
| **DESCRSN** | DES Classification Reason | 1 | ECS-A  A to G  (Default is ECS space (0x20)) | <R> |
| **DESSRDT** | DES Security Source Date | 8 | ECS-A  CCYYMMDD  (Default is ECS spaces (0x20)) | <R> |
| **DESCTLN** | DES Security Control Number | 15 | ECS-A  (Default is ECS spaces (0x20)) | <R> |
| **DESOFLW** | DES Overflowed Header Type | 6 | BCS-A  XHD, IXSHD, SXSHD, TXSHD, UDHD, UDID | C |
| **DESITEM** | DES Data Item Overflowed | 3 | BCS-N positive integer  000 to 999 | C |
| **DESSHL** | DES User-defined Subheader Length | 4 | BCS-N positive integer  0000 to 9999 | R |
| **DESSHF** | DES User-defined Subheader Fields | † | BCS-A  User defined | C |
| **DESDATA** | DES User-Defined Data | †† | User defined | R |
| † Value of the DESSHL (in bytes)  †† Determined by user. If the DESID is set to the value TRE\_OVERFLOW, this signifies the sum of the lengths of the included TRE. | | | | |

# XX.7 IMPLEMENTATION GUIDANCE

* What are the required, conditional, and optional content (i.e. other fields, extensions, segments) associated with the implementation of this extension?
* What implementation profiles are associated with this extension?

# XX.8 MAINTENANCE AND LIFECYCLE

Describe the perishability/retainability of the metadata contained within the extension:

* May downstream users/applications make any alterations? If so, under what conditions?
* Is the metadata “sacred”, never to be altered and always carried forward unaltered in dissemination actions and secondary image product creation?
* If any changes (chipping, any pixel alterations, etc.) are made to the associated NITF segment (e.g. image), does this invalidate or degrade the utility of the metadata in the extension?
* What is the disposition of the extension/contents in the event of segment alterations? Discard the extension? Provide some sort of “Altered Data” warning flag within the extension and user annotates accordingly and extension is carried forward?
* Consider all potential dissemination (libraries, imager guards, etc.) and exploitation (ELTs, etc.) segments within the NSG when developing this section.

# XX.9 CONFORMANCE CRITERIA

Refer to the National Geospatial-Intelligence Agency (NGA) National System for Geospatial Intelligence (NGS) Document Registries for [4266] Addressing Standards Conformance When Preparing NGA Standardization Documents (https://nsgreg.nga.mil/doc/view?i=4266).