

CSSHPA – Shapefile DES

The Shapefile DES (CSSHPA) is a general wrapper structure for an ESRI Shapefile

1. The DES shall include a DES subheader (compliant with *MIL-STD-2500C* Section 5.8.2 and Appendix A-8) and user-defined data.
2. The format and content of this DES shall be as detailed below in Table 1.
3. User-defined data shall consist of an ESRI Shapefile complying with the ESRI Shapefile Technical Description.
4. Nodes of shapes described in a Shapefile DES shall be expressed as latitude and longitude coordinates referenced to the WGS-84 datum only. It is acceptable to use the WGS-84 datum for shapefiles even if the imagery data files are expressed in a different datum as provided in the GEOPSB TRE.
5. Shapes within a Shapefile shall be composed of a minimum of three nodes (four is preferable) and a maximum of 1000 nodes.
6. A Shapefile within an instance of a CSSHPA DES shall contain a maximum of 1000 polygons.
7. The datasets shall contain two instances of the CSSHPA DES, as described below. The exception will be those datasets where there will be no Cloud Cover Image Segment (see Section 2.1.4.2) and the CSSHPA DES for cloud cover will not be included in the dataset. The SHAPE_TYPE field of the user-defined DES subheader fields distinguishes the instances.

Table 1 - CSSHPA Description

Field	Name/Description	Size	Value Range	Units	Type
DE	<u>File Part Type</u>	2	BCS-A DE	N/A	R
DESID	<u>Unique DES Type Identifier</u>	25	BCS-A CSSHPA DES	N/A	R
DESVER	<u>Version of the Data Definition</u>	2	BCS-N 01	N/A	R
DECLAS	<u>Data Extension File Security Classification</u>	1	BCS-A U	N/A	R
DESCLSY	<u>DES Security Classification System</u>	2	BCS-A US	N/A	R
DESCODE	<u>DES Codewords</u>	11	BCS-A Space character filled	N/A	R
DESCTLH	<u>DES Control and Handling</u>	2	BCS-A Space character filled	N/A	R

Field	Name/Description	Size	Value Range	Units	Type
DESREL	<u>DES Releasing Instructions</u>	20	BCS-A Space character filled	N/A	R
DESDCTP	<u>DES Declassification Type</u>	2	BCS-A Space character filled	N/A	R
DESDCDT	<u>DES Declassification Date</u>	8	BCS-A Space character filled	N/A	R
DESDCXM	<u>DES Declassification Exemption</u>	4	BCS-A Space character filled	N/A	R
DESDG	<u>DES Downgrade</u>	1	BCS-A Space character filled	N/A	R
DESDGDT	<u>DES Downgrade Date</u>	8	BCS-A Space character filled	N/A	R
DESCLTX	<u>DES Classification Text</u>	43	BCS-A Space character filled	N/A	R
DESCATP	<u>DES Classification Authority Type</u>	1	BCS-A Space character filled	N/A	R
DESCAUT	<u>DES Classification Authority</u>	40	BCS-A Space character filled	N/A	R
DESCRSN	<u>DES Classification Reason</u>	1	BCS-A Space character filled	N/A	R
DESSRDT	<u>DES Security Source Date</u>	8	BCS-A Space character filled	N/A	R
DESCTLN	<u>DES Security Control Number</u>	15	BCS-A Space character filled	N/A	R
DESSHL	<u>DES User-defined Subheader Length</u>	4	BCS-N 0062 or 0080	N/A	R
<i>DES User-defined Subheader Fields</i>					
SHAPE_USE	<u>Shapefile Use</u>	25	BCS-N IMAGE_SHAPE or CLOUD_SHAPES (each padded with space characters)	N/A	R
SHAPE_CLASS	<u>Type of shapes contained within this Shapefile</u>	10	BCS-A POLYGON (padded with space characters)	N/A	R
CC_SOURCE	<u>Source sensor(s) for determining cloud cover</u> (appears only if SHAPE_USE is CLOUD_SHAPES)	18	BCS-A PAN or MS or PAN, MS	N/A	C

Field	Name/Description	Size	Value Range	Units	Type
SHAPE1_NAME	<u>Name of first file in the Shapefile</u>	3	BCS-A SHP, SHX, DBF	N/A	R
SHAPE1_START	<u>Start location in bytes of the first file,</u> expressed as an offset in the DES User- Defined Data	6	BCS-N Generated by CDP	N/A	R
SHAPE2_NAME	<u>Name of second file in the Shapefile</u>	3	BCS-A SHP, SHX, DBF	N/A	R
SHAPE2_START	<u>Start location in bytes of the second file,</u> expressed as an offset in the DES User- Defined Data	6	BCS-N Generated by CDP	N/A	R
SHAPE3_NAME	<u>Name of third file in the Shapefile</u>	3	BCS-A SHP, SHX, DBF	N/A	R
SHAPE3_START	<u>Start location in bytes of the third file,</u> expressed as an offset in the DES User- Defined Data	6	BCS-N Generated by CDP	N/A	R
<i>DES User-Defined Data</i>					
<i>User-defined data shall consist of the three files which together comprise the description of an ESRI Shapefile (described in the ESRI Shapefile Technical Description)</i>					