MilOps Committee Change Request Form

Instructions:

- Complete the fields in Section I of the form below as appropriate and send to the Configuration Control Board Secretariat [email: js.dsc.j6.mbx.milops@mail.mil]. Attach a full description of the proposed change.
- Do not use this form for changes to tools, technical specifications, or training materials. Instead, send those change requests directly to info@niemopen.org.

SECTION I
(Originator to Complete)

Request Date	2/18/25	EM7-SYM-01	
Change Request Title		MILSTD-2525 Symbol Identification Code (SIDC)	
CR Sponsor		Symbology Standards Management Committee (SSMC)	
Originating Organization Name		DISA	
Point of Contact (Name/Title)		William “Bill” McGrane Chair, Symbology Standards Management Committee (SSMC) DISA Enterprise Integration and Innovation Center (EIIC) Emerging Technology Division (EM) Military Message Standards Branch (EM7)	
POC Telephone		301-225-7383	
POC Email Address		NIPR: William.m.mcgrane.civ@mail.mil SIPR: William.m.mcgrane.civ@mail.smil.mil	
Change Request Scope		☒ New ☐ Modify Existing ☐ Admin/Typo ☐ Other _____	
Is this CR publicly releasable (NIEMOpen)?		☒ Yes ☐ No If “No”, explain:	

Attention Originating Organization: Describe the proposed change, including the recommendations (to include identification of paragraph(s)/sections(s) impacted and document markup where necessary), justification (including authoritative references), and associated impacts and risks. Change requests without full and clear description will be returned for rework before consideration.

Change Description [identify specific paragraph(s)/section(s) impacted and document markup where necessary, attaching additional sheet or file, if required]**:**

Add support for MILSTD2525E Symbol Identification Codes (SIDC). A symbol identification code (SIDC) is a 30-position code that uniquely identifies the core elements needed to build a joint military compliant symbol.

The SIDC shall only use the hexadecimal range of values (0-9 and A-F). This range provides the capability to exchange symbol information in a bandwidth-efficient manner, when converting to other formats such as binary, by treating the SIDC as a hexadecimal number. When processing and storing the SIDC within implementations, it may be treated as a string with no loss of information. Values within the SIDC are given to an established symbol by the SSMC only.

Change Justification [including supportive authoritative references]:

1. This standard is approved for use by all departments and agencies of the Department of Defense (DOD) and available for use by non-DOD entities (e.g., first responders, United Nations, and multinational partners).

2. This standard provides a standardized, structured set of graphical symbols for the display of information in command and control (C2) systems and applications. A standard method for symbol construction is provided, using common building block concepts to create current symbol sets as well as for creating sets that may be needed in the future. This includes frame, icon, modifier, and amplifying information using color, graphical, and alphanumeric representations. It provides requirements for symbol construction and composition with flexibility for special user's needs.

3. In joint military operations, it is imperative to have a common language clearly understood among all users. Graphical representation of objects of interest (e.g., units, installations, equipment, control measures, planning symbols, activities, and meteorological occurrences) are observed and readily understood faster than merely text alone. This is valid even more for a user population with a widely different background of language, component, knowledge, and experience. A common standard of joint military symbols is therefore an important element to enhance efficiency and to contribute to success in joint operations.

4. This revision has resulted in many changes to the standard, but the one affecting the NIEM MilOps data model is the symbol identification code was changed from 3, 32-bit long integer values to a single 30-position value that uses the hexadecimal range of values to provide more available symbols.

Impacts & Risks:

None

List Amplifying Attachments such as record filename and dates, schemas, code lists, COI test reports. etc.:

1. Department of Defense Interface Standard Joint Military Symbology (MILSTD2525E) dated 31 December 2022
2. Proposed schema:

```
<xs:element name="SymbolIdentificationCode" type="SIDCType" nillable="true">
      <xs:annotation>
         <xs:documentation>A MILSTD-2525 symbol identification code based on a hierarchical
structure that provides the elements required to construct a basic symbol. Also called
SIDC.</xs:documentation>
      </xs:annotation>
   </xs:element>

   <xs:complexType name="SIDCType">
      <xs:annotation>
         <xs:documentation>A data type for a MILSTD-2525 symbol identification code based on a
hierarchical structure that provides the elements required to construct a basic symbol. Also called
SIDC.</xs:documentation>
      </xs:annotation>
      <xs:simpleContent>
```

```
            <xs:extension base="SIDCSimpleType">
               <xs:attributeGroup ref="structures:SimpleObjectAttributeGroup"/>
            </xs:extension>
         </xs:simpleContent>
      </xs:complexType>

      <xs:simpleType name="SIDCSimpleType">
         <xs:annotation>
            <xs:documentation>A data type for a MILSTD-2525 symbol identification code based on a
hierarchical structure that provides the elements required to construct a basic symbol. Also called
SIDC.</xs:documentation>
         </xs:annotation>
         <xs:restriction base="xs:string">
            <xs:pattern value="[1-9A-F][0-9A-F]{29}">
               <xs:annotation>
                  <xs:documentation>A 30-position code that uniquely identifies the core elements needed
to build a symbol. The SIDC shall only use the hexadecimal range of values (0-9 and A-
F).</xs:documentation>
               </xs:annotation>
            </xs:pattern>
         </xs:restriction>
      </xs:simpleType>
```

Impact & Solutions Assessment

SECTION II (Technical SME or Lead Developer to Complete)	
CR Number	25-01
Date of ISA Completion	2/12/2025
Technical SME/Lead Developer	Charles “Chuck” Chipman
Technical SME/Lead Dev Organization	Joint Staff, J-6
Technical SME/Lead Dev Email	Charles.e.chipman.ctr@mail.mil
Technical SME/Lead Dev Phone	N/A
Impact	Does this change impact another pending CR? _X_N ___Y If “Yes”, list other CRs that would be impacted or corrected with this change:
Assessment	
Implementation Options	
Recommendations	

MilOps Subcommittee Endorsement

SECTION III (MilOps Co-Chair to Complete)	
Date Received	(MM/DD/YY)
Date Reviewed	(MM/DD/YY)
Implementation	(MM/DD/YY)
Comments/Explanation	
Disposition date	(MM/DD/YY)
Disposition ☐ Approved ☐ Disapproved ☐ Conditional Approval	
Approving Official (Name/Signature)	
Approving Official Title	
Approving Official Signature Date	