

```
<?xml version= "1.0" encoding= "UTF-8" ?>

<!--
**  RELEASE STATEMENT(s):
**
**              UNLIMITED RIGHTS
**  The Government has the right to use, modify, reproduce, release, perform,
**  display, or disclose this application programmable interface in whole or in
**  part, in any manner and for any purpose whatsoever, and to have or
**  authorize others to do so.
**
**  Distribution Statement A - Approved for public release; distribution is
**  unlimited (27 August 2015).
-->

<!--
**  JTNC Standard:
**  Software Communications Architecture
**  Appendix D-1: Platform Specific Model (PSM) Document Type Definition (DTD)
**  Version: 4.1, 20 August 2015
-->

<!-- properties.4.1.dtd -->

<!ELEMENT properties
  ( description?
    , (simple | simplesequence | test | struct | structsequence )+
  )>
<!ELEMENT simple
  ( description?
    , value?
    , units?
    , range?
    , enumerations?
    , kind*
    , action?
  )>
<!ATTLIST simple
  id ID #REQUIRED
  type ( boolean | char | double | float | short | long | objref | octet | string | ulong |
    ushort ) #REQUIRED
  name CDATA #IMPLIED
  mode ( readonly | readwrite | writeonly ) "readwrite">
<!ELEMENT description (#PCDATA)>
<!ELEMENT value (#PCDATA)>
<!ELEMENT units (#PCDATA)>
<!ELEMENT range EMPTY>
<!ATTLIST range
  min CDATA #REQUIRED
  max CDATA #REQUIRED>
<!ELEMENT enumerations
  ( enumeration+ )>
<!ELEMENT enumeration EMPTY>
<!ATTLIST enumeration
  label CDATA #REQUIRED
  value CDATA #IMPLIED>
<!ELEMENT kind EMPTY>
<!ATTLIST kind
  kindtype ( allocation | configure | test | execparam | factoryparam ) "configure">
<!ELEMENT action EMPTY>
<!ATTLIST action
  type ( eq | ne | gt | lt | ge | le | external ) "external">
<!ELEMENT simplesequence
  ( description?
    , values?
    , units?
    , range?
```

```
, kind*
, action?
)>
<!--ATTLIST simplesequence
  id ID #REQUIRED
  type ( boolean | char | double | float | short | long | objref | octet | string | ulong |
        ushort ) #REQUIRED
  name CDATA #IMPLIED
  mode (readonly | readwrite | writeonly) "readwrite">
<!--ELEMENT values
  ( value+ )>
<!--ELEMENT test
  ( description
    , inputvalue?
    , resultvalue
  )>
<!--ATTLIST test
  id CDATA #REQUIRED
  label CDATA #IMPLIED>
<!--ELEMENT inputvalue
  ( simple+ )>
<!--ELEMENT resultvalue
  ( simple+ )>
<!--ELEMENT struct
  ( description?
    , simple+
    , configurationkind?
  )>
<!--ATTLIST struct
  id ID #REQUIRED
  name CDATA #IMPLIED
  mode (readonly | readwrite | writeonly) "readwrite">
<!--ELEMENT configurationkind EMPTY>
<!--ATTLIST configurationkind
  kindtype (configure | factoryparam | typedef) "configure">
<!--ELEMENT structsequence
  ( description?
    , structvalue*
    , configurationkind?
  )>
<!--ATTLIST structsequence
  id ID #REQUIRED
  structrefid CDATA #REQUIRED
  name CDATA #IMPLIED
  mode (readonly | readwrite | writeonly) "readwrite">
<!--ELEMENT structvalue
  ( simpleref+ )>
<!--ELEMENT simpleref EMPTY>
<!--ATTLIST simpleref
  refid CDATA #REQUIRED
  value CDATA #REQUIRED>
```