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

<!--
**  RELEASE STATEMENT(s):
**
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**  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
-->

<!-- deviceconfiguration.4.1.dtd -->

<!ELEMENT deviceconfiguration
  ( description?
    , devicemanagersoftpkg
    , componentfiles?
    , partitioning?
    , connections?
    , domainmanager
    , filesystemnames?
  )>
<!ATTLIST deviceconfiguration
  id      ID      #REQUIRED
  name    CDATA   #IMPLIED
  corba_provider (false | true) "true"
  log_capable  (false | true) "false"
  log_producer (false | true) "false"
  oe_profile   (lightweight| medium | full) "medium"
  devicemgr_deployment_data  (false | true) "false"
  platformcomponentfactorydeployment (false | true) "true">
<!ELEMENT description (#PCDATA)>
<!ELEMENT devicemanagersoftpkg
  ( localfile
    , componentproperties?
  )>
<!ELEMENT localfile EMPTY>
<!ATTLIST localfile
  name CDATA #REQUIRED>
<!ELEMENT componentfiles
  ( componentfile+ )>
<!ELEMENT componentfile
  ( localfile )>
<!ATTLIST componentfile
  id      ID      #REQUIRED
  type    CDATA   #IMPLIED>
<!ELEMENT partitioning
  ( componentplacement )*>
<!ELEMENT componentplacement
  ( componentfileref
    , deployondevice?
    , compositepartofdevice?
    , devicepkgfile?
    , componentinstantiation+
  )>
<!ELEMENT componentfileref EMPTY>
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<!--ATTLIST componentfileref
  refid CDATA #REQUIRED>
<!--ELEMENT deployondevice EMPTY>
<!--ATTLIST deployondevice
  refid CDATA #REQUIRED>
<!--ELEMENT compositepartofdevice EMPTY>
<!--ATTLIST compositepartofdevice
  refid CDATA #REQUIRED>
<!--ELEMENT devicepkgfile
  ( localfile
  )>
<!--ATTLIST devicepkgfile
  type CDATA #IMPLIED>
<!--ELEMENT componentinstantiation
  ( usagename?
  ,componentproperties?
  ,componentfactoryref?
  ,coreaffinity*
  )>
<!--ATTLIST componentinstantiation
  id ID #REQUIRED
  processcollocation CDATA #IMPLIED
  stringifiedobjectref CDATA #IMPLIED >
<!--ELEMENT usagename (#PCDATA)>
<!--ELEMENT componentproperties
  ( simpleref | simplesequenceref | structref | structsequenceref )+ >
<!--ELEMENT componentfactoryref
  ( componentfactoryproperties? )>
<!--ATTLIST componentfactoryref
  refid CDATA #REQUIRED>
<!--ELEMENT componentfactoryproperties
  ( simpleref | simplesequenceref | structref | structsequenceref )+ >
<!--ELEMENT simpleref EMPTY>
<!--ATTLIST simpleref
  refid CDATA #REQUIRED
  value CDATA #REQUIRED>
<!--ELEMENT simplesequenceref
  ( values )>
<!--ATTLIST simplesequenceref
  refid CDATA #REQUIRED>
<!--ELEMENT structref
  ( simpleref+ )>
<!--ATTLIST structref
  refid CDATA #REQUIRED>
<!--ELEMENT structsequenceref
  ( structvalue+ )>
<!--ATTLIST structsequenceref
  refid CDATA #REQUIRED>
<!--ELEMENT structvalue
  ( simpleref+ )>
<!--ELEMENT values
  ( value+ )>
<!--ELEMENT value (#PCDATA)>
<!--ELEMENT coreaffinity (#PCDATA)>
<!--ELEMENT connections
  ( connectinterface* )>
<!--ELEMENT connectinterface
  ( usesport
  , ( providesport | componentsupportedinterface )
  )>
<!--ATTLIST connectinterface
  id ID #IMPLIED>
<!--ELEMENT usesport
  (identifier
  , ( componentinstantiationref |
  assemblyinstantiationref |
```

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    devicethatloadedthiscomponentref | deviceusedbythiscomponentref | domainfinder )
  )>
<!--ELEMENT identifier (#PCDATA)>
<!--ELEMENT componentinstantiationref EMPTY>
<!--ATTLIST componentinstantiationref
  refid CDATA #REQUIRED>
<!--ELEMENT assemblyinstantiationref EMPTY>
<!--ATTLIST assemblyinstantiationref
  refid CDATA #REQUIRED>
<!--ELEMENT devicethatloadedthiscomponentref EMPTY>
<!--ATTLIST devicethatloadedthiscomponentref
  refid CDATA #REQUIRED>
<!--ELEMENT deviceusedbythiscomponentref EMPTY>
<!--ATTLIST deviceusedbythiscomponentref
  refid CDATA #REQUIRED
  usesrefid CDATA #REQUIRED>
<!--ELEMENT domainfinder EMPTY>
<!--ATTLIST domainfinder
  type (filesystem | eventchannel | application | servicename | servicetype) #REQUIRED
  name CDATA #IMPLIED>
<!--ELEMENT providesport
(identifier
  , ( componentinstantiationref |
    assemblyinstantiationref |
    devicethatloadedthiscomponentref | deviceusedbythiscomponentref | domainfinder )
  )>
<!--ATTLIST providesport
  stringifiedobjectref CDATA #IMPLIED>
<!--ELEMENT componentsupportedinterface
(identifier
  , ( componentinstantiationref | devicethatloadedthiscomponentref |
    deviceusedbythiscomponentref | domainfinder)
  )>
<!--ELEMENT domainmanager EMPTY>
<!--ATTLIST domainmanager
  name CDATA #REQUIRED
  type CDATA #REQUIRED>
<!--ELEMENT filesystemnames
  ( filesystemname+ )>
<!--ELEMENT filesystemname EMPTY>
<!--ATTLIST filesystemname
  mountname CDATA #REQUIRED
  deviceid CDATA #REQUIRED>
```