ORACLE

Document Number and Revision: PROC-10041 Rev05

L11 Supplier Shop Floor System Data Feed Requirements

Overview

This document contains the technical specifications for external suppliers for presenting L11 Shop Floor System data to Oracle.

Audience

External Manufacturer IT teams

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INTRODUCTION

External manufacturer Shop Floor Systems must present information about their racks in a unified format. External manufacturers are responsible for ensuring that their Shop Floor Systems present this information accurately and in the required format. Shop Floor Systems must not truncate or modify the presented information in any fashion.

This document defines the requirements for the format and values of the presented information.

RACK INFORMATION FORMAT

Requirements

Rack information must be presented in the form of XML.

The XML must have a root <GenericBom> element that contains the following attributes:

- description
- id
- mat_operation
- partnumber
- sub_type
- type

The <GenericBom> element should contain a <child> element for every serialized component and rack specification consumed in the rack. Each <child> element must contain the following attributes:

- description
- id
- guid
- macaddress
- mat_category
- mat_slot
- partnumber
- rfid
- secondary_macaddress
- sub_type
- type

Attributes may be understood generically as the following:

Attribute	Definition
description	A textual description of the unit/component
id	The serial number of the unit/component
guid	The GUID of the unit/component
macaddress	The primary mac address of the unit/component
mat_category	The inventory category of the unit/component
mat_operation	The current test operation of the unit/component
mat_slot	The racked position of the unit/component
partnumber	The part number of the unit/component
rfid	The serial number of the rfid tag attached to the unit/component
secondary_macaddress	The secondary mac address of the unit/component
sub_type	The subtype/subfamily of the unit/component
type	The type/family of the unit/component

The XML should conform to this Schema:

```
<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="GenericBom">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="child" maxOccurs="unbounded">
        <xs:complexType>
        <xs:attribute name="description" type="xs:string" use="required"/>
        <xs:attribute name="id" type="xs:string" use="required"/>
        <xs:attribute name="guid" type="xs:string" use="required"/>
        <xs:attribute name="macaddress" type="xs:string" use="required"/>
        <xs:attribute name="mat_category" type="xs:string" use="required"/>
        <xs:attribute name="mat_slot" type="xs:string" use="required"/>
        <xs:attribute name="partnumber" type="xs:string" use="required"/>
        <xs:attribute name="rfid" type="xs:string" use="required"/>
        <xs:attribute name="secondary_macaddress" type="xs:string" use="required"/>
        <xs:attribute name="sub_type" type="xs:string" use="required"/>
        <xs:attribute name="type" type="xs:string" use="required"/>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="description" type="xs:string" use="required"/>
    <xs:attribute name="id" type="xs:string" use="required"/>
    <xs:attribute name="mat_operation" type="xs:string" use="required"/>
    <xs:attribute name="partnumber" type="xs:string" use="required"/>
    <xs:attribute name="sub_type" type="xs:string" use="required"/>
    <xs:attribute name="type" type="xs:string" use="required"/>
  </xs:complexType>
</xs:element>

</xs:schema>
```

Rack Information Values

<GenericBom> element

For the <GenericBom> element, the attributes correspond to information about the L11 component being tested, where the

- id attribute must be the serial number of the L11 component.
- partnumber and description must be the part number and description from the BOM of the L11 component.
- mat_operation is the current test operation of the L11 component.
- type and sub_type are the values specified in the rack specification.

<child> element(s)

The values of all other attributes are specified in the rack specification for the L11 product being built.

Examples

An example XML follows for a rack named FOX0494241 that contains two integrated servers, two PDUs, and two switches:

```
<?xml version="1.0" encoding="UTF-8"?>
<GenericBom id="FOX0494241" partnumber="7119628-9273" description="NVMe X7-2L Compute Rack, 14
Servers, 1x25Gbps, 2 PDU Plugs, 15kVA Model Family" type="Enclave"
sub_type="X7-2L" mat_operation="PO1">
    <child id="1940XL208A" partnumber="8203244" description="NVMe Compute Server,25G,X7-2L,w/
240G M.2 SSD" macaddress="0010E0E89CDE" mat_slot="RU08" type="X7-2L" sub_type="X7-2L"
secondary_macaddress="" guid="" rfid="" mat_category="Assembly"/>
    <child id="1940XL208B" partnumber="8203244" description="NVMe Compute Server,25G,X7-2L,w/
240G M.2 SSD" macaddress="0010E0E7E290" mat_slot="RU06" type="X7-2L" sub_type="X7-2L"
secondary_macaddress="" guid="" rfid="" mat_category="Assembly"/>
    <child id="465136N+19330900LV" partnumber="7352399" description="ASSY,CABINET 42U-1200
(600), STD RETMA W/O DOORS" macaddress="" mat_slot="" type="" sub_type=""
secondary_macaddress="" guid="" rfid="" mat_category="Assembly"/>
    <child id="483753V-1917OZ0009" partnumber="7078712"
description="XOPT,PDU,RMII,15KVA,3PH,LV,1-INPUT,IEC309 4-PIN 60A IP67"
macaddress="000B38BDCAEE" mat_slot="PDUA" type="PDU" sub_type="PDU" secondary_macaddress=""
guid="" rfid="" mat_category="Assembly"/>
    <child id="483753V-1917OZ0010" partnumber="7078712"
description="XOPT,PDU,RMII,15KVA,3PH,LV,1-INPUT,IEC309 4-PIN 60A IP67"
macaddress="000B38BDCB11" mat_slot="PDUB" type="PDU" sub_type="PDU" secondary_macaddress=""
guid="" rfid="" mat_category="Assembly"/>
    <child id="NX0219150626" partnumber="7348865" description="SWITCH,Juniper,EX3400 48-port
10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, PORTSIDE EXHAUST AIRFLOW Configuration,
1RU (Internal)" macaddress="" mat_slot="RU22" type="Switch" sub_type="Juniper-EX3400"
secondary_macaddress="" guid="" rfid="" mat_category="Assembly"/>
    <child id="SGD19241998" partnumber="7338100" description="Switch, Arista, DCS-7060CX-32S-R
(Portside Exhaust),32xQSFP28 &amp;amp; 2xSFP+,with ACL" macaddress="" mat_slot="RU24" type="Switch"
sub_type="Arista-7060X" secondary_macaddress="" guid="" rfid="" mat_category="Switch"/>
</GenericBom>
```

DOCUMENT HISTORY

Rev	*Date*	*Description of Change*
02	24 Feb 2020	Initial Release
03	03 Jan 2022	Update to corporate format
04	20 Aug 2024	Add GUTI field information. Ver B: fixed typo.
05	15 Oct 2024	Fixed GUID references

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