

Enumerations in RPR FOM

How to include and maintain

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Goal

- Get up-to-date enumeration values from the SISO Enumerations into the RPR FOM
 - Assumption: We need the enumerators in machine-readable format in the FOM
- Approaches:
 - XML “xinclude” statement.
 - Not currently supported in HLA 1516-2010, RTIs or OMT tools
 - Separate FOM module with SISO Enum data types
 - Compliant with the HLA 1516-2010 standard
 - Easy to “Merge & Save Back” for HLA 1.3 and 1516-2000 to support these HLA formats
 - Other approaches?

How to produce this module?

- Decide which Enumerations to handle in this way
- Collaborate with the Enums group
- Generate a FOM module from their data
 - XML version?
 - Other?
- Decide on a version for release with RPR FOM 2.0
- Produce additional versions in synch with the SISO Enumerations group
- Allow for federation specific replacement with custom enumerations

Sample Enumeration – 1

<u>Name</u>	<u>Bits</u>	<u>Purpose</u>
Paint Scheme	2-7	Identifies the paint scheme of the mine 0 - Other 1 - Standard 2 - Camouflage Desert 3 - Camouflage Jungle 4 - Camouflage Snow 5 - Camouflage Gravel 6 - Camouflage Pavement 7 - Camouflage Sand 8 - Natural Wood 9 - Clear 10 - Red 11 - Blue 12 - Green 13 - Olive 14 - White 15 - Tan 16 - Black 17 - Yellow 18 - Brown

Sample Enumeration - 2

4.3.11 Qatar Platforms

All Qatar platforms have a Kind-field value of 1 and a Country-field value of 178.

4.3.11.1 Qatar Surface Platforms

1.3.178.7	Light/Patrol Craft
1.3.178.7.1	Damsah (Combattante III M) Class (fast attack craft-missile)
1.3.178.7.1.1	Q01 Damsah
1.3.178.7.1.2	Q02 AL Ghariyah
1.3.178.7.1.3	Q03 Rbigah
1.3.178.7.2	Barzan Class (large patrol craft)
1.3.178.7.2.1	Q11 Barzan
1.3.178.7.2.2	Q12 Hwar
1.3.178.7.2.3	Q13 That Assuari
1.3.178.7.2.4	Q14 AL Wusail
1.3.178.7.2.5	Q15 Fateh-AL-Khair
1.3.178.7.2.6	Q16 Tariq
1.3.178.7.3	Damen Polycat 1450 Class (coastal patrolcraft)
1.3.178.7.3.1	Q31-36
1.3.178.7.4	Fairey Marine Spear Class (coastal patrol craft)
1.3.178.7.4.1	Q71-95

Sample Enumerations XML data

```
<category value="7" description="Large wheeled utility vehicle" uuid="c73fb704-5269-11df-9d62-080069138b88"
uid="10418">
  <subcategory value="1" description="M35/M44A2 6x6 2-1/2 ton cargo truck series" uuid="c740cb12-5269-11df-
beaf-080069138b88" uid="10419">
    <specific value="1" description="M34: cargo truck with an unladen weight of 5332 kg, chassis designated M44"
uuid="c741d8e0-5269-11df-93e9-080069138b88" uid="10420" />
    <specific value="2" description="M47: dump truck with an unladen weight of 6100 kg, chassis designated M57"
uuid="c742ee1a-5269-11df-87d4-080069138b88" uid="10421" />
    <specific value="3" description="Truck, maintenance: earth-boring machine and pole setter V18A/MTQ, chassis
M44" uuid="c74403d6-5269-11df-8a61-080069138b88" uid="10422" />
    <specific value="4" description="Truck, maintenance: telephone construction and maintenance V17A/MTQ,
chassis M44." uuid="c74515e6-5269-11df-ac5c-080069138b88" uid="10423" />
    <specific value="5" description="M35 truck: basic M45 chassis" uuid="c7462a94-5269-11df-8d28-080069138b88"
uid="10424" />
    <specific value="6" description="M35A2" uuid="c7473b96-5269-11df-9d33-080069138b88" uid="10425" />
    <specific value="7" description="M35A2C" uuid="c7484752-5269-11df-a0bb-080069138b88" uid="10426" />
    <specific value="8" description="M36" uuid="c74956f6-5269-11df-b13e-080069138b88" uid="10427" />
    <specific value="9" description="M36A2" uuid="c74a6686-5269-11df-afaf-080069138b88" uid="10428" />
    <specific value="10" description="M48: tractor truck" uuid="c74b71e8-5269-11df-92c2-080069138b88"
uid="10429" />
    <specific value="11" description="M49: fuel tanker" uuid="c74c8042-5269-11df-96f3-080069138b88"
uid="10430" />
    <specific value="12" description="M49A2C" uuid="c74d9400-5269-11df-84b4-080069138b88" uid="10431" />
```

Sample FOM Module – Header Part

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<objectModel xsi:schemaLocation="http://standards.ieee.org/IEEE1516-2010 http://standards.ieee.org/downloads/
1516/1516.2-2010/IEEE1516-DIF-2010.xsd" xmlns="http://standards.ieee.org/IEEE1516-2010" xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance">
  <modelIdentification>
    <name>AmericanBeerBrands</name>
    <type>FOM</type>
    <version>1.0</version>
    <modificationDate>2013-01-30</modificationDate>
    <securityClassification>Top Secret</securityClassification>
    <purpose>Demo</purpose>
    <applicationDomain>Brewery, Entertainment</applicationDomain>
    <description>Demo of small module with enumerations</description>
    <useLimitation>Legal drinking age only</useLimitation>
    <poc>
      <pocType>Primary author</pocType>
      <pocName>Samuel Adams</pocName>
      <pocOrg>Boston</pocOrg>
    </poc>
    <other></other>
  </modelIdentification>
```

Sample FOM Module – Enumerations Part

```
<dataTypes>
  <enumeratedDataTypes>
    <enumeratedData>
      <name>AmericanBeerEnum32</name>
      <representation>HLAinteger32BE</representation>
      <semantics>Enumeration that describes different brands of American beers.</semantics>
      <enumerator>
        <name>Budweiser</name>
        <value>1</value>
      </enumerator>
      <enumerator>
        <name>MillerLite</name>
        <value>2</value>
      </enumerator>
      <enumerator>
        <name>SierraNevada</name>
        <value>3</value>
      </enumerator>
    </enumeratedData>
  </enumeratedDataTypes>
</dataTypes>
</objectModel>
```