

## C-Struct declaration

```
typedef struct {  
    uint64_t timestamp;  
    int16_t panelVoltage;  
    int16_t panelCurrent;  
    int16_t batteryVoltage;  
    uint8_t flags;  
} DataMessage;
```

## XML Descriptor

```
<parameterStructure name="DataMessage">  
    <endianness>BigEndian</endianness>  
    <parameterElement name="timestamp">  
        <length>8</length>  
        <type nameType="long">  
            <sign>unsigned</sign>  
        </type>  
        <attributeType></attributeType>  
        <permission></permission>  
    </parameterElement>  
    <parameterElement name="voltage">  
        <length>2</length>  
        <type nameType="long">  
            <sign>signed</sign>  
        </type>  
        <attributeType></attributeType>  
        <permission></permission>  
    </parameterElement>  
    ...  
</parameterStructure>
```

## Java Message

```
@StructInfo(endianness = Endianness.BIG)  
public class DataMessage {  
  
    @SimpleField(size = 8, sign = Sign.UNSIGNED)  
    private long timestamp;  
    @SimpleField(size = 2, sign = Sign.SIGNED)  
    private int panelVoltage;  
    @SimpleField(size = 2, sign = Sign.SIGNED)  
    private int panelCurrent;  
    @SimpleField(size = 2, sign = Sign.SIGNED)  
    private int batteryVoltage;  
    @SimpleField(size = 1, sign = Sign.UNSIGNED)  
    private int flags;  
}
```