

Heating Audit (v1.3)

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Introduction

Data exchange for cleaning OT instructions and return data, with heating systems supplier

Supported Messages

| XSD | Message type | Required | Source | Target | Activated by | Remarks |
|---------------------|--------------|----------|-------------------|-------------------|---|---------|
| DepotHeatingProcess | INSTRUCTION | No | DEPOT Software | HS PLC Middleware | End-user button press in DEPOT Software | |
| DepotHeatingProcess | MEASUREMENT | Yes | HS PLC Middleware | DEPOT Software | Periodic reporting from HS PLC middleware | |

Heating Audit

Sample file

```
1 <DepotHeatingProcess xmlns="">
2   <MessageHeader>
3     <MessageIdentifier>3f65197f-c6e9-4acf-b133-fcd3cf77ed34</MessageIdentifier>
4     <MessageTypeDescription>MEASUREMENT</MessageTypeDescription>
5     <MessageFunctionCode>4</MessageFunctionCode>
6     <MessageDateTime>2020-03-12T15:03:32.3538494+01:00</MessageDateTime>
7     <SenderIdentifier></SenderIdentifier>
8     <SenderQualifier></SenderQualifier>
9     <ReceiverIdentifier></ReceiverIdentifier>
10  </MessageHeader>
11  <HeatingProcess>
12    <DeviceIdentifier>1</DeviceIdentifier>
13    <ContainerNumber>ABCD-123456-7</ContainerNumber>
14    <DeviceTargetTemperatureCelsius>80.7</DeviceTargetTemperatureCelsius>
15    <Measurement>
16      <DateTimeLocal>2020-03-12T15:03:32.356841</DateTimeLocal>
17      <TemperatureCelsius>25.4</TemperatureCelsius>
18      <DeviceStatusCode>1</DeviceStatusCode>
19    </Measurement>
20  </HeatingProcess>
21 </DepotHeatingProcess>
```

Definition

Header

| MessageHeader | XML type | Remarks |
|------------------------|--|--|
| MessageIdentifier | xs:string (constrained to msdata: System.Guid) | Unique message identifier (GUID) |
| MessageTypeDescription | xs:string | Constrained to these codes: <ul style="list-style-type: none"> INSTRUCTION (out) MEASUREMENT (in) |
| MessageFunctionCode | xs:int | Enumeration constrained code indicating the function of the message: <ul style="list-style-type: none"> 1 = Cancellation/Archive 4 = Change/Update 9 = Original/New |
| MessageDateTime | xs:dateTime | Message date and time in XML dateTime format. |
| SenderIdentifier | xs:string (64) | Agreed qualifier for sender identification. |
| SenderQualifier | xs:string (64) | Optional but recommended, agreed qualifier for sender identification. |
| ReceiverIdentifier | xs:string (64) | Agreed receiver identification. |

Heating Process

| HeatingProcess | XML type | Remarks |
|--------------------------------|----------------|--|
| DeviceIdentifier | xs:string (32) | Unique for every HeatingProcess element, an identifier published by the device owner to indicate unique heating devices. |
| ContainerNumber | xs:string (32) | Unique for every HeatingProcess element the container number used to identify the container/order in Depot for which MEASUREMENT messages data is to be processed. |
| DeviceTargetTemperatureCelsius | xs:decimal | Optional, <ul style="list-style-type: none"> INSTRUCTION: this temperature is requested by Depot to be set in the device. MEASUREMENT: this temperature is the current set target temperature of the device. Unit of the temperature is degrees Celsius. |

Periodic Measurements

| /Measurement | XML type | Remarks |
|------------------------|-----------------|--|
| DateTimeLocal | xs:dateTime | ISO 8601 date and time (yyyy-MM-ddTHH:mm:ss.FFF) when the measurement is taken. This is date and time in XML dateTime format but without time zone; e.g. 2020-03-12T15:03:32.356 |
| TemperatureCelsius | xs:decimal | The measured temperature in degrees Celsius. An arbitrary value can be used when the measurement attempt failed and DeviceErrorDescription is set. |
| DeviceStatusCode | xs:int | Optional, enumeration constrained code indicating the function of the message: <ul style="list-style-type: none"> 0 = at the time of measurement, the device was off. 1 = at the time of measurement, the device was on. |
| DeviceErrorDescription | xs:string (256) | Optional but when the measurement attempt failed it is required to set the error description or not include the Measurement element at all. |