



netDL data formats

OTT net DL allows to handle a wide variety of protocols:

- OTTML
- MIS
- OTT binary
- CSV
- Custom built
- Zrxp

Industrial communication / SCADA

- Profinet, Profibus, Modbus Slave, S7-link
- OPC DA 2.0 (via Hydras 3)

More detailed explanation and examples of the previous data formats:

OTTML

Based on XML format (extensible markup language)

Example:

```
<?xml version="1.0" encoding="iso-8859-1"?>
<StationDataList>
<StationData stationId="0000000001" name="netDL1000_1" timezone="+00:00" >
  <StationInfo time="2015-06-11T11:12:30" firmware="V2630" configtime="2015-06-11T12:05:07"
paramtime="2015-06-11T12:05:07" batteryVoltage="14.42" temperature="0.00" deviceType="OTT netDL
500" providerName="Vodafone.de" gsmSignal="18" ipAddress="77.24.129.23" transmissionCycle="600"
transmissionOffset="0" configuredTransmissionCycle="600" />
  <ChannelData channelId="0810" name="U Versorgung" unit="V" samplingInterval="300"
storageInterval="300" configuredSamplingInterval="300" configuredStorageInterval="300" >
    <Values>
      <VT t="2015-06-11T11:00:00" errorcode="10">0</VT>
      <VT t="2015-06-11T11:05:00" errorcode="10">0</VT>
      <VT t="2015-06-11T11:10:00">14.5</VT>
    </Values>
  </ChannelData>
</StationData>
</StationDataList>
```

Advantage: extensive Meta Data is provided / can be zipped

OTT MIS

ASCII file

Example:

```
<STATION>0000000001</STATION><SENSOR>0810</SENSOR>
<DATEFORMAT>YYYYMMDD</DATEFORMAT>
20150611;110500;[10]
20150611;111000;14.5
```

Advantage: readable data

OTT binary

Example:

```
OT 00000000010810, Ü' €'
```

Advantage: small size of files



csv

Example:

```
1      810      20150611      110500 [10]
1      810      20150611      111000 14,50
```

Advantage: open format

OTT custom built

Example:

Advantage: customizable

zrxp

Example:

```
#SANR0000000001;*;
#CNR0810;*;CMW288;*;CTYPEn-min-equi;*;
#RINVAL-777.0;*;RNR288;*;
20150611110500 -777.0
20150611111000 14.5
```

Advantage: Kisters compatible