

# Step 1 - Describe your sensor and your sensor output data

**Describing your sensor** is the foundation of future use and re-use of sensor information e.g. publishing data in AWI-operated portals, monitoring of data streams, archiving data, etc. The web application [sensor.awi.de](https://sensor.awi.de) is available to manage the sensor-specific information (e.g. manufacturer information, serial number, inventory number, photos, calibration reports, physical characterization of parameters, etc).

Please start with [sensor.awi.de](https://sensor.awi.de), log in or create a new account. Choose a platform type and add your sensor and complement the basic information.



You will find further handling information in the AWI Intranet under "Sensor Information System" or some video hints in [sensor.awi.de](https://sensor.awi.de) itself.

**Describing your sensor output data** as a generic "raw data project" is a necessary part for a seamless data transfer undergoing a "file structure" validation process, adding metadata and assigning a digital object identifier (DOI) for the dataset achieved in the PANGAEA-System.

The description consists of data format manuals to re-use the data and a generic file- and directory-naming convention. Please use the **"Ingest"**-Tab of your sensor in [sensor.awi.de](https://sensor.awi.de). as a first contact. The data format document(s) has to be stored in ePIC or in [sensor.awi.de](https://sensor.awi.de) as by the "Resources"-Tab.

The file- and directory-naming convention will to be declared as an regular expression once only. Each new dataset is checked against this expression automatically. The metadata creation section combines the date and time information out of the file and/or directory names with the track information if available. Both, the dataset and metadata will be submitted to the PANGAEA-System.

By this, it is a good idea for further steps to store your sensor data in a sensor specific directory structure.

## The standard convention for the file- and directory-naming are:

```
sensor-1/Cruise-ID/Station-ID/ "sensor-data-files"  
sensor-2/Cruise-ID/Station-ID/ "sensor-data-files"  
...  
sensor-n/Cruise-ID/Station-ID/ "sensor-data-files"
```

The name oder ID (DeviceURN) of "sensor-i" should have a reference in [SENSOR.awi.de](https://sensor.awi.de).



You will find further information in the AWI intranet under "RDIF: Raw Data Ingestion Framework at AWI".

Now it is time for step [2a](#) or [2b](#) or [2c](#).

Use [o2a-support@awi.de](mailto:o2a-support@awi.de) for questions/comments.

## SENSOR INFORMATION SYSTEM

Create and manage platform, device and sensor related information

**BROWSE**  
Devices, sensors, asset/serial numbers, deployment history ...

**TUTORIAL**  
Create metadata, use the device store re-assign sensors

**LOGIN**  
Manage your own device and sensors

## CONTACT FORM FOR DATA INGEST

**Transmission Type**  
Choose...  
Select the type of data submission.

**Data Access**  
 by special applications, scripts or Jupyter Hub using data files  
 by dashboard.awi.de  
 published to Pangaea  
Select how the data should be accessible.

**Transmission Start**  
dd / mm / yyyy  
Select, when RAW data transmission should be started

**ePIC-Link**  
Enter the ePIC Link, if available, for non-standard RAW files.

**comment**  
Describe the content of the data.

Send Request

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