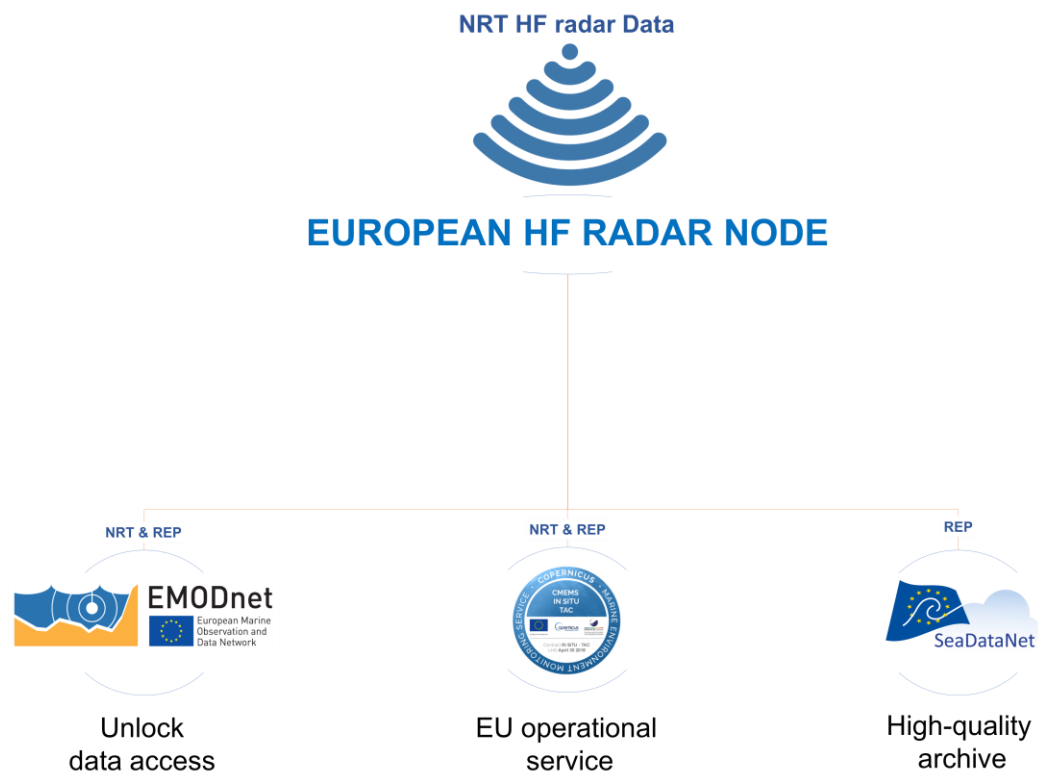
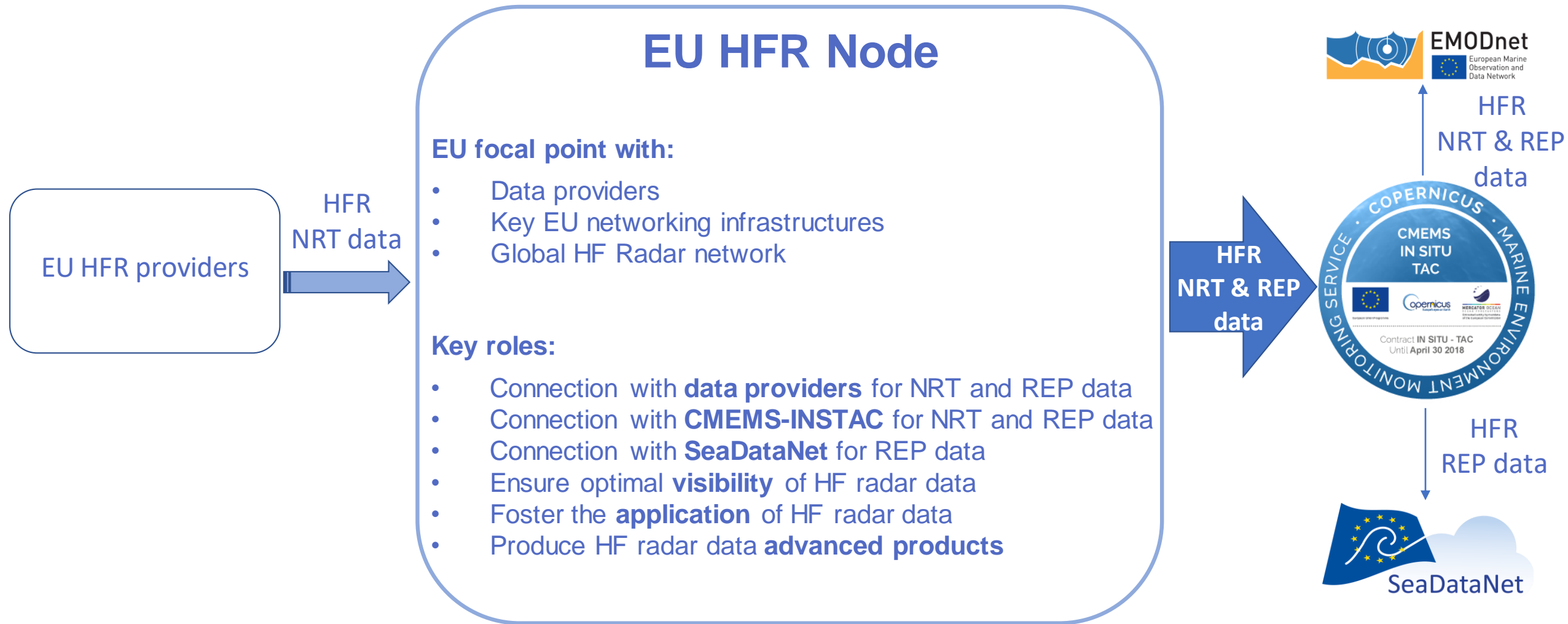


The EU HFR Node Software Solutions

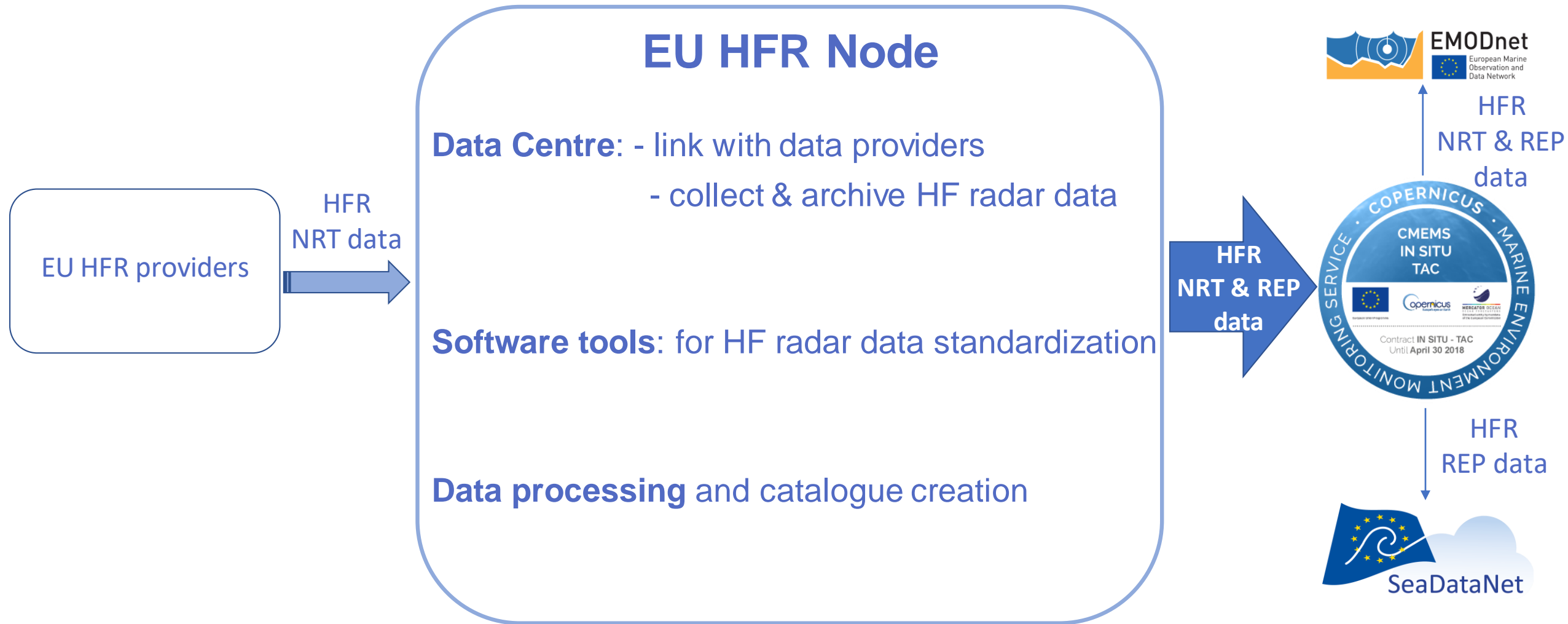
for generating HFR datasets compliant with the European common data and metadata model



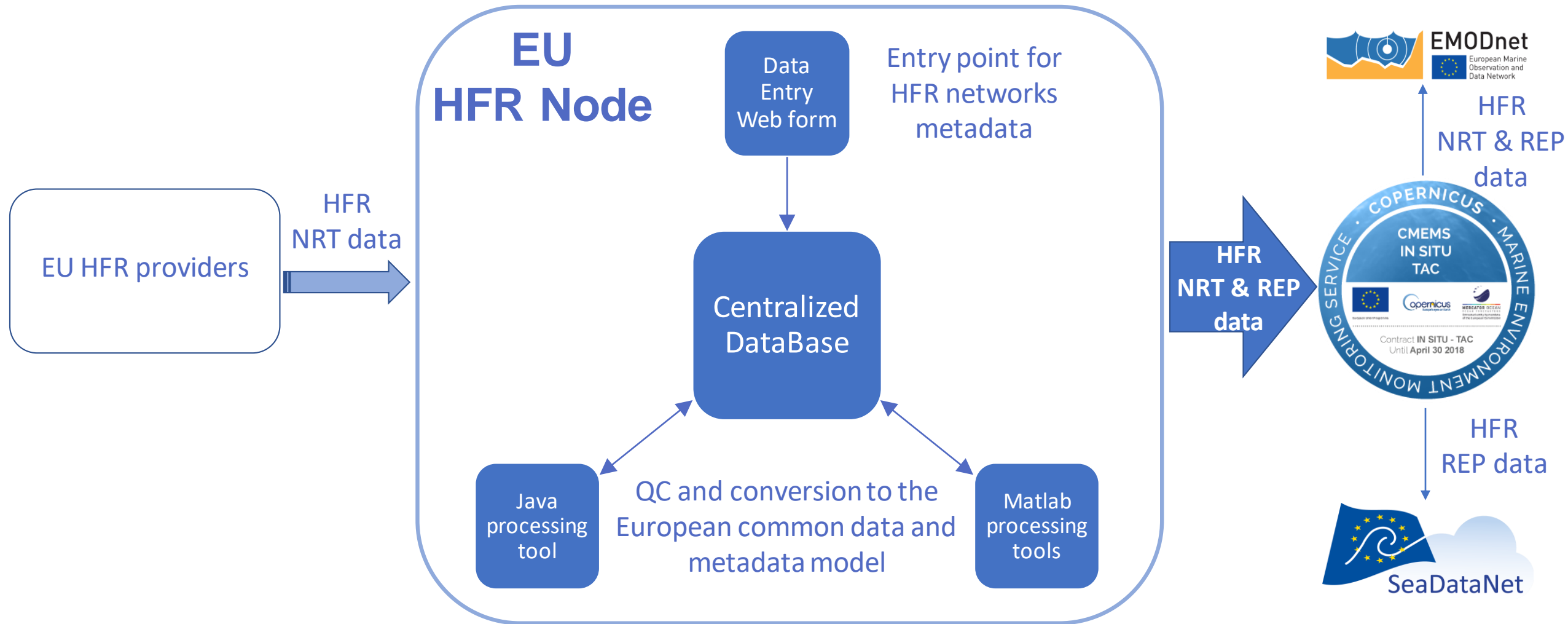
EU HFR Node architecture



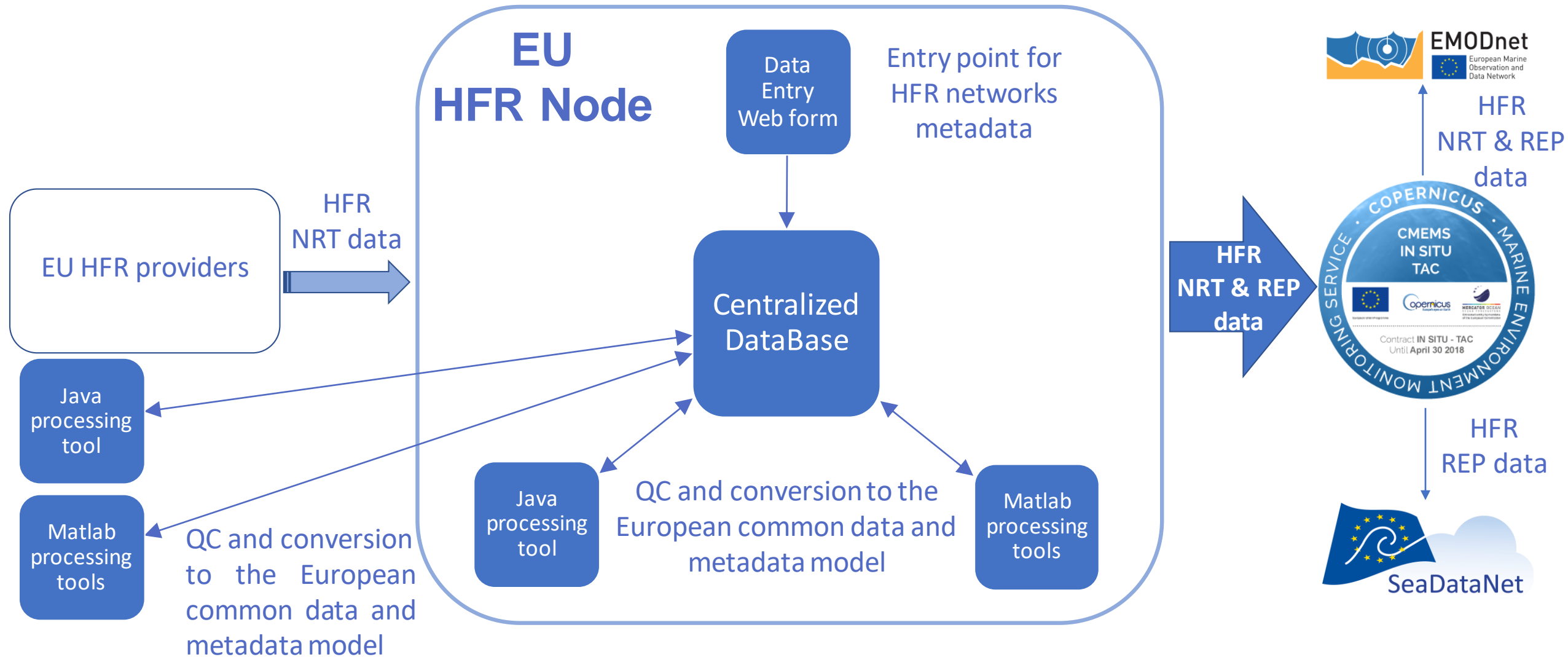
EU HFR Node architecture



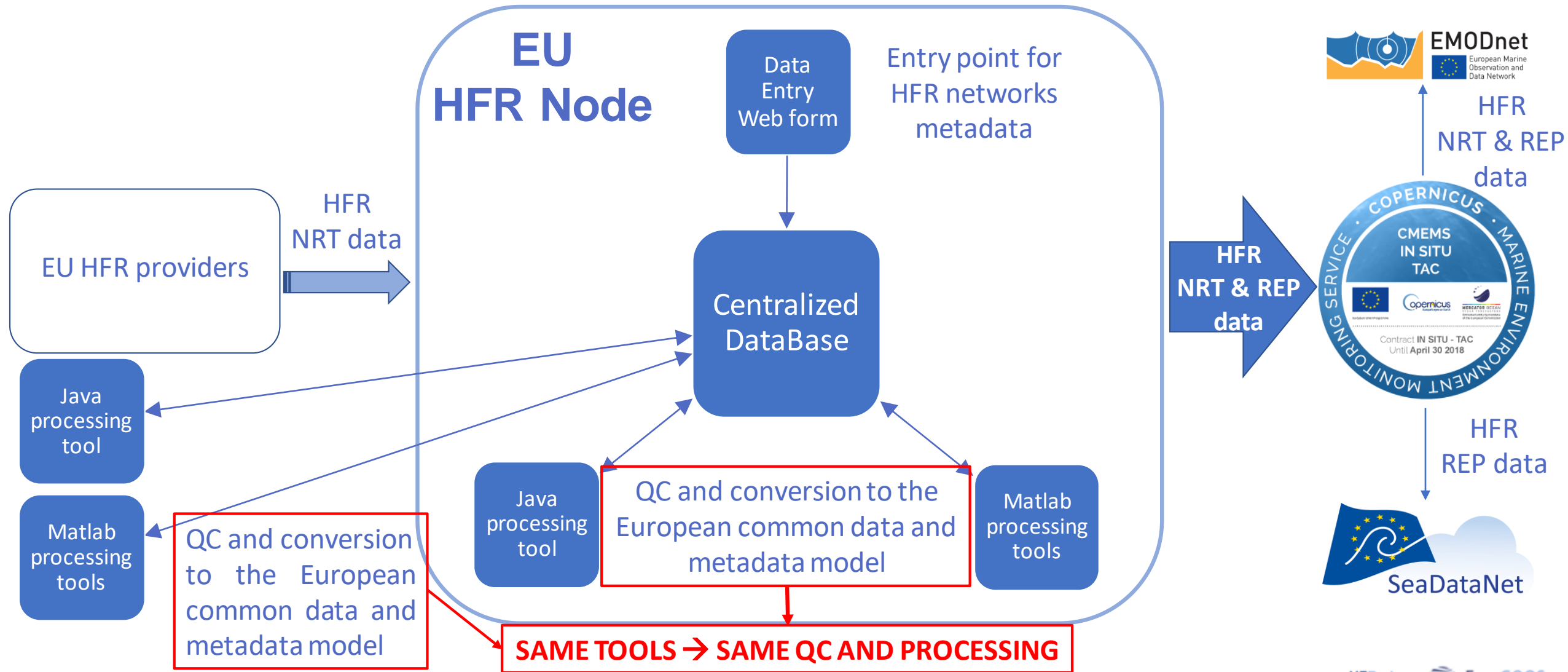
EU HFR Node architecture



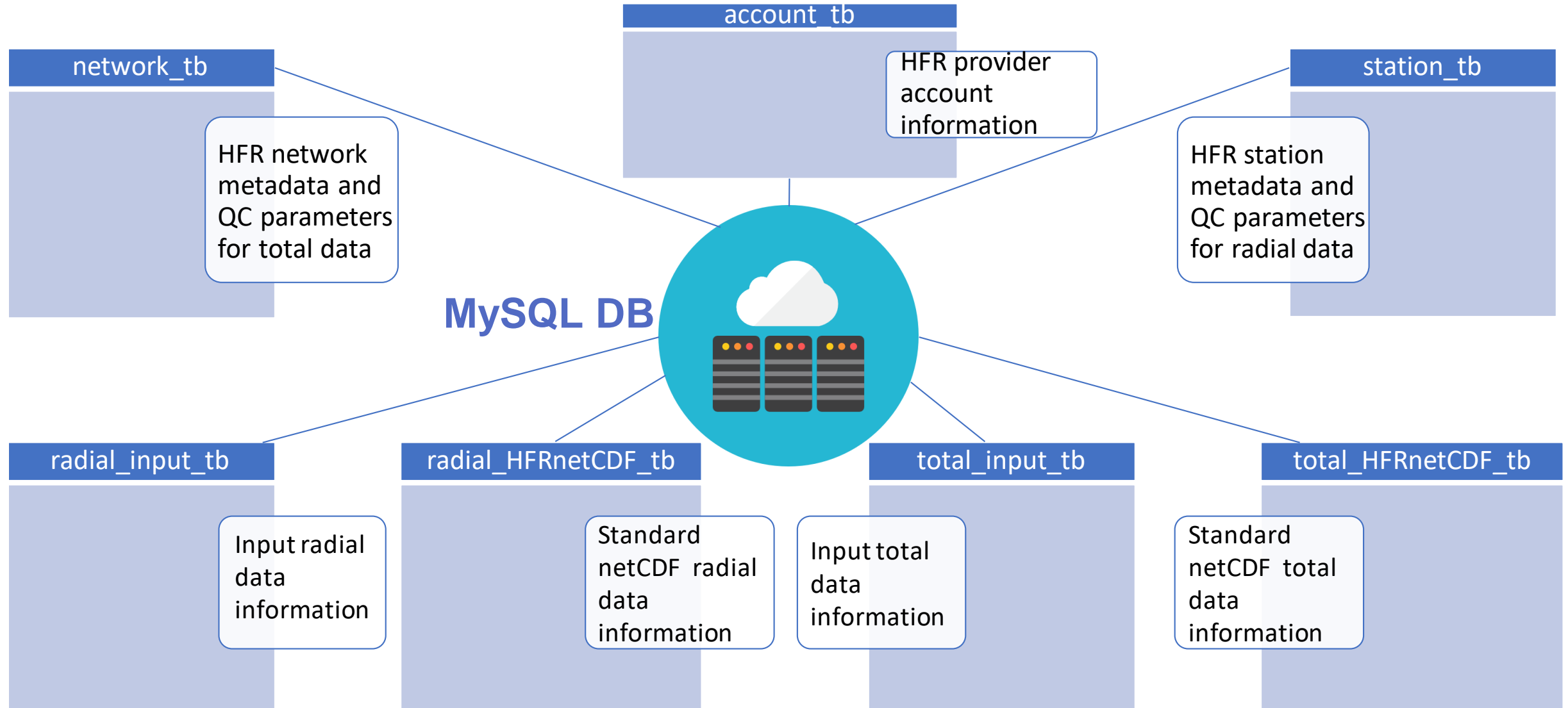
EU HFR Node architecture



EU HFR Node architecture

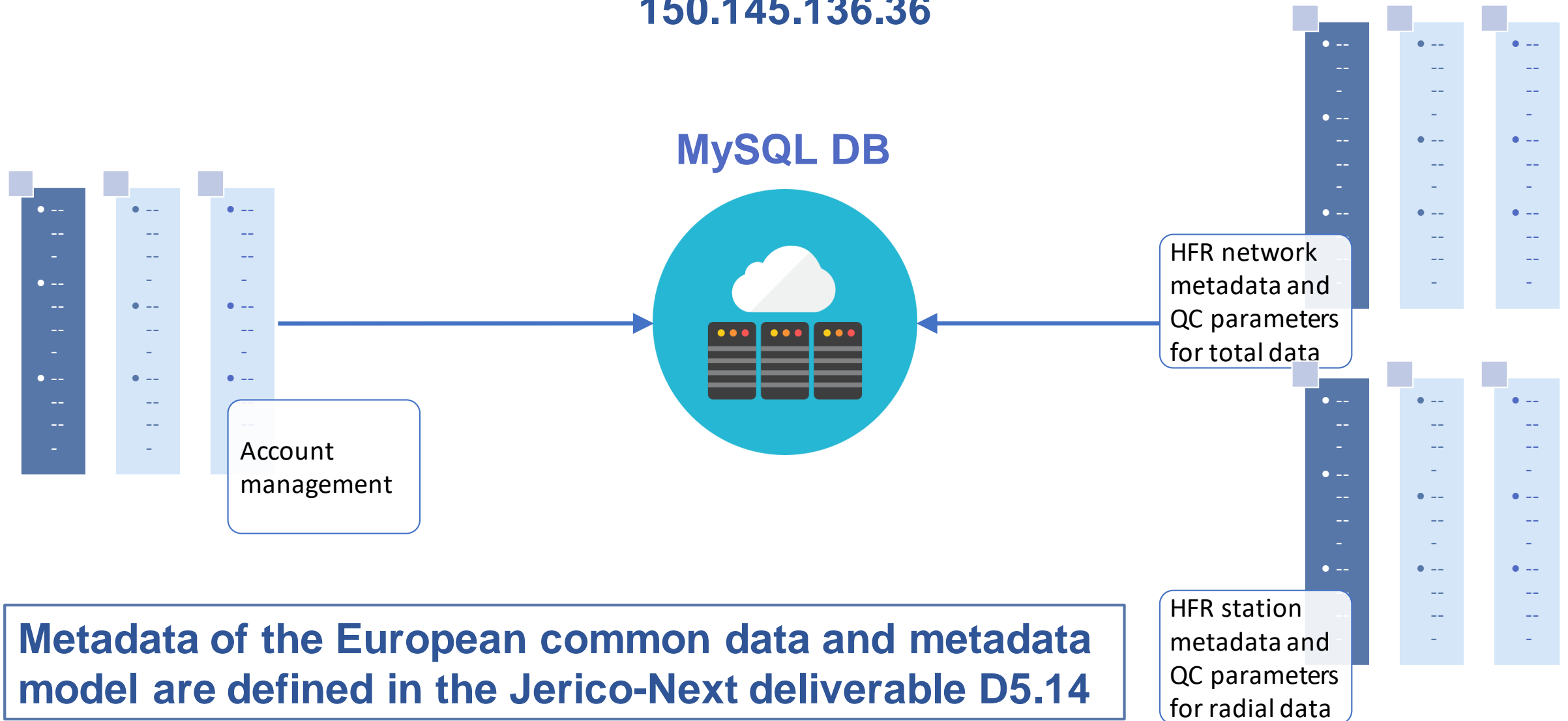


The Centralized DataBase



The Data Entry Web Form

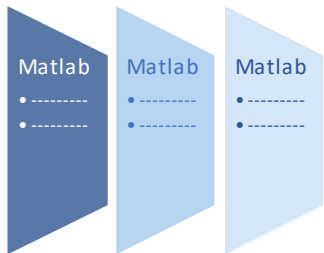
150.145.136.36



The Matlab processing tools

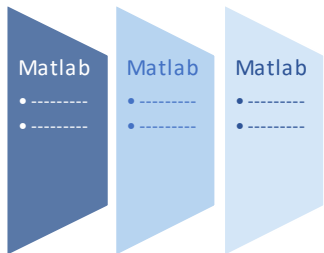
Input tools

list the input files pushed by the HFR data providers and insert into the HFR database the information needed for the combination of radial files into totals and for the conversion of the radial and total data files into the European standard data model



Codar and WERA radial files:

- .tuv
- .crad_ascii



Codar and WERA total files:

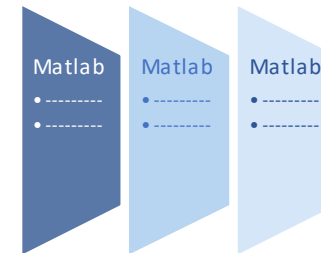
- .tuv
- .cur_asc

MySQL DB



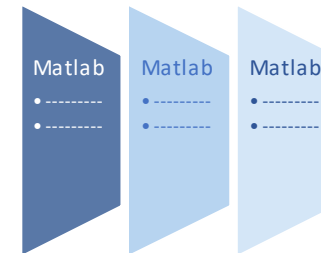
Processing tools

read the HFR database for collecting information about the radial and total data files and performs the QC, the combination of radials into totals and the generation of radial and total data files into the European standard data model



Codar and WERA radial files:

- .tuv
- .crad_ascii



Codar and WERA total files:

- .tuv
- .cur_asc

The Matlab tools are freely available at <https://doi.org/10.5281/zenodo.2639555>

The Java processing tool

MySQL DB



Local data visualization

The software reads the DB to retrieve required metadata and QC parameters.

The data can be visualized and manipulated using a user friendly interface to perform all or some tests manually, check errors inside files or save files temporarily.



Processing tool

Performs the QC and the generation of files into the European common data and metadata model (only Codar files). The tool does not share the information neither send it to the database. It saves the information locally. Two working modes: User interface (user required), console mode (humans are optional)



The JRadar tools is freely available at <https://github.com/llasensio/JRadar>