

# 15 Connect external modules with a model adapter

A model adapter is the interface between Delft-FEWS and an external model (or module), either using the [Published Interface](#) (i.e. PI XML) or [NetCDF](#). This page contains links to on how create your own model adapter, how to use a model adapter and the available manuals for existing model adapters. For a complete overview of the available model adapters visit [Overview of all models linked to Delft-Fews](#)

## Creating a model adapter

- [Developing a FEWS Adapter based on NetCDF-CF — Since 2014.01](#)
  - [Example code: Reading and writing netcdf gridded data with Java](#)
  - [Example code: Reading and writing netcdf scalar data with Java](#)
- [Developing a FEWS Adapter based on PI XML](#)

## Using a model adapter (configuration)

- [How to use the General Adapter to add an external module in Delft-FEWS](#)
- [How to run a Python model adapters within Delft-FEWS](#)
- [Sobek RURAL configuration manual](#)
- [Delft3D adapter configuration manual \(with XML config file\)](#)

## Overview of available model adapters

- [Overview of all models linked to Delft-Fews](#)
- [Delft-FEWS Model adapters by Deltares](#)
- [Model adapters developed by third parties](#)
- [Model adapters developed by third parties - \(Deltares employee access only\)](#)

## Documentation of model adapters

As a service the available documentation of model adapters developed by Deltares and others is listed below. They are also referenced on the pages linked above.

- [3Di adapter](#) — Deltares
- [D-Flow FM adapter](#) — Deltares
- [Delft3D adapter \(with NetCDF run file\)](#) — Deltares
- [Delft3D adapter \(with XML config file\)](#) — Deltares
- [DIMR adapter](#) — Deltares
- [eWater Source— FlowMatters \(Deltares employee access only\)](#)
- [FAST adapter](#) — Deltares
- [FIAT adapter](#) — Deltares
- [GeNie Bayesian Network adapter](#) — TUDelft
- [HEC-HMS adapter](#)
- [ISIS adapter— EA \(Deltares employee access only\)](#)
- [ISIS model specific file](#)
- [JFLOW adapter](#) — JBA Consulting
- [Mike 11 adapter](#) — DHI (Deltares employee access only)
- [OpenDA adapter](#) — Deltares
- [PDM adapter— CEH \(Deltares employee access only\)](#)
- [PDM model specific file](#)
- [PCOverslag adapter](#) — Deltares
- [SWAN adapter](#) — Deltares
- [URBS adapter— Don Carol \(Deltares employee access only\)](#)
- [Wanda adapter](#) — Deltares
- [WES adapter](#) — Deltares
- [WW3 model adapter](#) — Deltares
- [XBeach adapter](#) —Deltares