

# Hydrotel general adapter config example

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- édité avec XMLSpy v2017 rel. 3 (http://www.altova.com) par Simon Lachance-Cloutier (MIN. DU DEV. DURABLE,
DE L'ENV) -->
<generalAdapterRun xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.wldelft.nl/fews" xsi:
schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/generalAdapterRun.xsd">
  <general>
    <description>Hydrotel Model for $FCAST_LOC$</description>
    <piVersion>1.5</piVersion>
    <rootDir>%REGION_HOME%/Modules/hydrotel</rootDir>
    <workDir>%ROOT_DIR%</workDir>
    <exportDir>%ROOT_DIR%/input</exportDir>
    <exportDataSetDir>%ROOT_DIR%</exportDataSetDir>
    <exportIdMap>IdExportHydrotel</exportIdMap>
    <importDir>%ROOT_DIR%/output</importDir>
    <importIdMap>IdImportHydrotel</importIdMap>
    <dumpFileDir>%GA_DUMPFILEDIR$</dumpFileDir>
    <dumpDir>%ROOT_DIR%</dumpDir>
    <diagnosticFile>%ROOT_DIR%/diagnostics/diagnostic.xml</diagnosticFile>
    <missVal>-999</missVal>
    <timeZone>
      <timeZoneName>EST</timeZoneName>
    </timeZone>
  </general>
  <activities>
    <startUpActivities>
      <purgeActivity>
        <filter>%ROOT_DIR%/*.nc</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/*.info</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/*.csv</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/etat/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/hgm/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/hydro/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/info/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/meteo/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/neige/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/physio/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/physitel/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/prevision/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/simulation/simulation/*.*</filter>
      </purgeActivity>
      <purgeActivity>
        <filter>%ROOT_DIR%/simulation/simulation/resultat/*.*</filter>
      </purgeActivity>
    </startUpActivities>
  </activities>
</generalAdapterRun>
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        <purgeActivity>
            <filter>%ROOT_DIR%/input/*.*/</filter>
        </purgeActivity>
        <purgeActivity>
            <filter>%ROOT_DIR%/output/*.*/</filter>
        </purgeActivity>
        <purgeActivity>
            <filter>%ROOT_DIR%/input/states/*.*/</filter>
        </purgeActivity>
        <purgeActivity>
            <filter>%ROOT_DIR%/output/states/*.*/</filter>
        </purgeActivity>
        <purgeActivity>
            <filter>%ROOT_DIR%/diagnostics/*.*/</filter>
        </purgeActivity>
    </startUpActivities>
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        <exportStateActivity>
            <moduleInstanceId>update_run_Hydrotel_$FCAST_LOC$</moduleInstanceId>
            <stateExportDir>%ROOT_DIR%/etat</stateExportDir>
        </exportStateActivity>
        <exportDataSetActivity>
            <moduleInstanceId>HydrotelAdapter</moduleInstanceId>
        </exportDataSetActivity>
        <exportDataSetActivity>
            <moduleInstanceId>Hydrotel_$FCAST_LOC$</moduleInstanceId>
        </exportDataSetActivity>
        <exportNetcdfActivity>
            <exportFile>debit.nc</exportFile>
            <timeSeriesSets>
                <timeSeriesSet>

<moduleInstanceId>fcast_run_preprocess_hydrotel_$NWP$_$FCAST_LOC$</moduleInstanceId>
                <valueType>scalar</valueType>
                <parameterId>Q.sim.3h</parameterId>
                <locationId>$UP_FCAST_LOC_1$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <relativeViewPeriod unit="hour" start="-240" startOverrutable="
true" end="0" endOverrutable="true"/>

                <readWriteMode>add originals</readWriteMode>
                <ensembleId>main</ensembleId>
            </timeSeriesSet>
        </timeSeriesSets>
    </exportNetcdfActivity>
    <exportNetcdfActivity>
        <exportFile>meteo.nc</exportFile>
        <timeSeriesSets>
            <timeSeriesSet>
                <moduleInstanceId>merge_obs_forecast_$NWP$</moduleInstanceId>
                <valueType>grid</valueType>
                <parameterId>P.forecast.3h</parameterId>
                <locationId>Grille_$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <relativeViewPeriod unit="hour" start="-240" startOverrutable="
true" end="168" endOverrutable="true"/>

                <readWriteMode>read only</readWriteMode>
            </timeSeriesSet>
            <timeSeriesSet>
                <moduleInstanceId>merge_obs_forecast_$NWP$</moduleInstanceId>
                <valueType>grid</valueType>
                <parameterId>T.forecast.3h</parameterId>
                <qualifierId>Max</qualifierId>
                <locationId>Grille_$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <relativeViewPeriod unit="hour" start="-240" startOverrutable="
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                <readWriteMode>read only</readWriteMode>
            </timeSeriesSet>
        </timeSeriesSets>
    </exportNetcdfActivity>

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        <timeSeriesSet>
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            <parameterId>T.forecast.3h</parameterId>
            <qualifierId>Min</qualifierId>
            <locationId>Grille_$FCAST_LOC$</locationId>
            <timeSeriesType>simulated forecasting</timeSeriesType>
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    </timeSeriesSets>
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<exportNetcdfActivity>
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/moduleInstanceId>

            <valueType>scalar</valueType>
            <parameterId>EEN.corr.3h</parameterId>
            <qualifierId>$NWP$</qualifierId>
            <locationId>$FCAST_LOC$</locationId>
            <timeSeriesType>simulated forecasting</timeSeriesType>
            <timeStep id="3HR_EST"/>
            <relativeViewPeriod unit="hour" start="-240" startOverrutable="
true" end="168" endOverrutable="true"/>
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        </timeSeriesSet>
        <timeSeriesSet>
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            <parameterId>P.fact.3h</parameterId>
            <qualifierId>$NWP$</qualifierId>
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        <timeSeriesSet>
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        <timeSeriesSet>
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/moduleInstanceId>

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            <parameterId>TES.fact.3h</parameterId>
            <qualifierId>$NWP$</qualifierId>
            <locationId>$FCAST_LOC$</locationId>
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            <relativeViewPeriod unit="hour" start="-240" startOverrutable="
true" end="168" endOverrutable="true"/>
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        </timeSeriesSet>
    </timeSeriesSets>

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        <ensembleId>main</ensembleId>
    </timeSeriesSet>
    <timeSeriesSet>
        <moduleInstanceId>prepare_hydrotel_fct_corr_${NWP}_${FCAST_LOC$<
/moduleInstanceId>

        <valueType>scalar</valueType>
        <parameterId>T.corr.3h</parameterId>
        <qualifierId>${NWP$</qualifierId>
        <locationId>${FCAST_LOC$</locationId>
        <timeSeriesType>simulated forecasting</timeSeriesType>
        <timeStep id="3HR_EST"/>
        <relativeViewPeriod unit="hour" start="-240" startOverrutable="
true" end="168" endOverrutable="true"/>

        <readWriteMode>read only</readWriteMode>
        <ensembleId>main</ensembleId>
    </timeSeriesSet>
</timeSeriesSets>
</exportNetcdfActivity>
<exportNetcdfRunFileActivity>
    <exportFile>%ROOT_DIR%/info_execution.nc</exportFile>
    <properties>
        <string key="sortiesHydrotel" value="TMIN;TMAX;PLUIE;NEIGE;APPORT;
PRODUCTION BASE;PRODUCTION SURF;PRODUCTION HYPO;THETA1;THETA2;THETA3;DEBITS AVAL;COUVERT_NIVAL"/>
        <bool key="sauvegardeEtats" value="false"/>
        <int key="resultsOffset" value="180"/>
    </properties>
</exportNetcdfRunFileActivity>
</exportActivities>
<executeActivities>
    <executeActivity>
        <description>run hydrotel preadapter</description>
        <command>
            <className>nl.deltares.hydrotel.HydrotelPreAdapter</className>
            <binDir>%ROOT_DIR%/HydrotelAdapter<
/binDir>

            </command>
            <arguments>
                <argument>%ROOT_DIR%/info_execution.nc</argument>
            </arguments>
            <logFile>
                <file>%ROOT_DIR%/hydrotel_pre_adapter.log</file>
                <infoLinePattern>*</infoLinePattern>
            </logFile>
            <timeOut>300000</timeOut>
            <ignoreDiagnostics>true</ignoreDiagnostics>
        </executeActivity>
        <executeActivity>
            <description>run hydrotel model</description>
            <command>
                <executable>%ROOT_DIR%/../hydrotel-bin/hydrotel.exe</executable>
            </command>
            <arguments>
                <argument>%ROOT_DIR%/projet.csv</argument>
            </arguments>
            <timeOut>300000</timeOut>
            <ignoreDiagnostics>false</ignoreDiagnostics>
        </executeActivity>
        <executeActivity>
            <description>run hydrotel postadapter</description>
            <command>
                <className>nl.deltares.hydrotel.HydrotelPostAdapter</className>
                <binDir>%ROOT_DIR%/HydrotelAdapter</binDir>
            </command>
            <arguments>
                <argument>%ROOT_DIR%/info_execution.nc</argument>
            </arguments>
            <logFile>
                <file>%ROOT_DIR%/hydrotel_post_adapter.log</file>
                <infoLinePattern>*</infoLinePattern>
            </logFile>
            <timeOut>300000</timeOut>

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        <ignoreDiagnostics>true</ignoreDiagnostics>
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</executeActivities>
<importActivities>
    <importNetcdfActivity>
        <importFile>resultats.nc</importFile>
        <timeSeriesSets>
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/moduleInstanceId>

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                <parameterId>Q.sim.3h</parameterId>
                <locationId>$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <readWriteMode>add originals</readWriteMode>
            </timeSeriesSet>
            <timeSeriesSet>
                <moduleInstanceId>run_hydrotel_$NWP$_$FCAST_LOC$<

/moduleInstanceId>

                <valueType>scalar</valueType>
                <parameterId>AV.sim.3h</parameterId>
                <locationId>$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <readWriteMode>add originals</readWriteMode>
            </timeSeriesSet>
            <timeSeriesSet>
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/moduleInstanceId>

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                <parameterId>T.sim.3h</parameterId>
                <qualifierId>Min</qualifierId>
                <locationId>$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
                <timeStep id="3HR_EST"/>
                <readWriteMode>add originals</readWriteMode>
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            <timeSeriesSet>
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/moduleInstanceId>

                <valueType>scalar</valueType>
                <parameterId>T.sim.3h</parameterId>
                <qualifierId>Max</qualifierId>
                <locationId>$FCAST_LOC$</locationId>
                <timeSeriesType>simulated forecasting</timeSeriesType>
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                <moduleInstanceId>run_hydrotel_$NWP$_$FCAST_LOC$<

/moduleInstanceId>

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                <qualifierId>Liquide</qualifierId>
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                <readWriteMode>add originals</readWriteMode>
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            <timeSeriesSet>
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/moduleInstanceId>

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                <qualifierId>Solide</qualifierId>
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                <timeStep id="3HR_EST"/>
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            </timeSeriesSet>
        </timeSeriesSets>
    </importNetcdfActivity>
</importActivities>

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<timeSeriesSet>
  <moduleInstanceId>run_hydrotel_$NWP$_$FCAST_LOC$<

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<timeSeriesSet>
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  <valueType>scalar</valueType>
  <parameterId>Prod.surf.3h</parameterId>
  <locationId>$FCAST_LOC$</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep id="3HR_EST"/>
  <readWriteMode>add originals</readWriteMode>
</timeSeriesSet>
<timeSeriesSet>
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  <parameterId>thetal.3h</parameterId>
  <locationId>$FCAST_LOC$</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
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<timeSeriesSet>
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  <locationId>$FCAST_LOC$</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep id="3HR_EST"/>
  <readWriteMode>add originals</readWriteMode>
</timeSeriesSet>
<timeSeriesSet>
  <moduleInstanceId>run_hydrotel_$NWP$_$FCAST_LOC$<

  <valueType>scalar</valueType>
  <parameterId>theta3.3h</parameterId>
  <locationId>$FCAST_LOC$</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep id="3HR_EST"/>
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</timeSeriesSet>
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  <moduleInstanceId>run_hydrotel_$NWP$_$FCAST_LOC$<

  <valueType>scalar</valueType>
  <parameterId>EEN.sim.3h</parameterId>
  <locationId>$FCAST_LOC$</locationId>
  <timeSeriesType>simulated forecasting</timeSeriesType>
  <timeStep id="3HR_EST"/>
  <readWriteMode>add originals</readWriteMode>
</timeSeriesSet>
</timeSeriesSets>

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        </importNetcdfActivity>
      </importActivities>
    </activities>
  </generalAdapterRun>
```