

# Command Reference: WriteWaterML()

## Write time series to a WaterML XML format file

Version 11.07.03, 2015-09-14

**This command is under development. In particular, an evaluation is determining how best to map internal time series properties to the WaterML specification, including selecting reasonable defaults while allowing override of defaults.**

The `WriteWaterML()` command writes time series to a WaterML XML and JSON format file. See the **WaterML Input Type Appendix** for more information about the file format.

The following dialog is used to edit the command and illustrates the syntax of the command.

**Edit WriteWaterML() Command**

**This command is under development. Functionality currently is limited in that only some JSON elements are written using default data mapping.**  
Write time series to a WaterML format file, which can be specified using a full or relative path (relative to the working directory).  
The working directory is: C:\owf-gitrepos\cdss-app-tstool-test\test\regression\commands\general\WriteWaterML  
Enter date/times to a precision appropriate for output time series.

TS list:  Optional - indicates the time series to process (default=AllTS).

TSID (for TSList=AllMatchingTSID):

EnsembleID (for TSList=EnsembleID):

WaterML file to write:

WaterML version:  Optional - WaterML version (default=most recent supported).

Output precision:  Optional - digits after decimal (default=4).

Missing value:  Optional - value to write for missing data (default=initial missing value).

Output start:  Optional - override the global output start (default=write all data).

Output end:  Optional - override the global output end (default=write all data).

Command: 

```
WriteWaterML (OutputFile="Results/Test_WriteWaterML_Day_JSON1.1_out.json",Version="WaterML-1.1-JSON")
```

WriteWaterML

### WriteDateValue() Command Editor

The command syntax is as follows:

`WriteWaterML (Parameter=Value, ...)`

### Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed, one of: <ul style="list-style-type: none"><li>AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be processed.</li><li>AllTS – all time series before the command.</li><li>EnsembleID – all time series in the ensemble will be processed.</li></ul>	AllTS

	<ul style="list-style-type: none"> <li>• <code>FirstMatchingTSID</code> – the first time series that matches the <code>TSID</code> (single <code>TSID</code> or <code>TSID</code> with wildcards) will be processed.</li> <li>• <code>LastMatchingTSID</code> – the last time series that matches the <code>TSID</code> (single <code>TSID</code> or <code>TSID</code> with wildcards) will be processed.</li> <li>• <code>SelectedTS</code> – the time series are those selected with the <code>SelectTimeSeries()</code> command.</li> </ul>	
<code>TSID</code>	The time series identifier or alias for the time series to be processed, using the * wildcard character to match multiple time series.	Required if <code>TSList=*TSID</code> .
<code>EnsembleID</code>	The ensemble to be processed, if processing an ensemble.	Required if <code>TSList=EnsembleID</code> .
<code>OutputFile</code>	The <code>WaterML</code> output file. The path to the file can be absolute or relative to the working directory (command file location). Can be specified using <code>\${Property}</code> notation.	None – must be specified.
<code>Version</code>	The <code>WaterML</code> version to write: <ul style="list-style-type: none"> <li>• <code>WaterML-1.1-JSON</code></li> <li>• <code>WaterML-2.0</code></li> </ul>	<code>WaterML-2.0</code>
<code>Precision</code>	The number of digits after the decimal for numerical output.	4 (in the future may default based on data type)
<code>MissingValue</code>	The value to write to the file to indicate a missing value in the time series.	As initialized when reading the time series or creating a new time series, typically -999, NaN, or another value that is not expected in data.
<code>OutputStart</code>	The date/time for the start of the output.	Use the global output period.
<code>OutputEnd</code>	The date/time for the end of the output.	Use the global output period.