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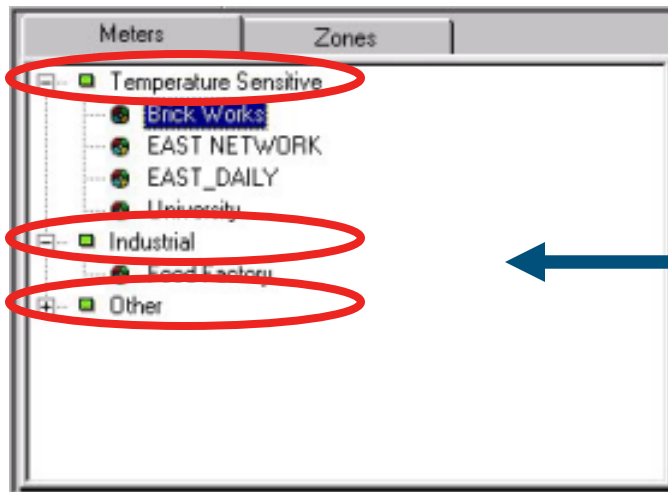
# Managing Meters, Effectors and Predictors





# Managing Meters and Effectors

- Lets take a closer look of the **meter tree view**



We can organise our portfolio in several ways – here we have categorised our meters into behavioural types

# Meters

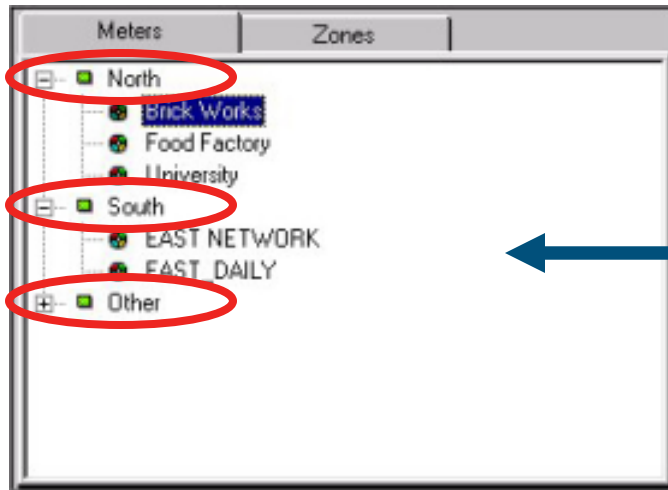
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The screenshot shows the 'Forecaster' application window. The 'Meters' tab is active, and a context menu is open over the 'Meters' list. The 'Group By' option is selected, and a sub-menu is displayed with 'Location' highlighted. A red circle highlights the 'Location' option in the sub-menu. A blue callout box with an arrow points to this option, containing the text: 'Using the pop-up menu, we can group by geographic location'. The background table lists several meters with their active predictors and training dates.

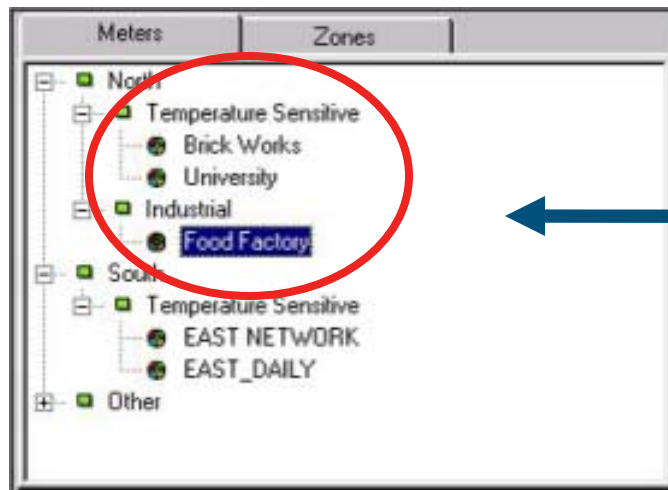
Name	Active Predictor	Predictor Type	Active Date Train
● Brick Works			
● EAST_NETWORK	DA_Reg_RO_Temp_DOW_365d_train	Model Based	27/01/2004 12:18
● EAST_DAILY	DA_Reg_RO_Temp_DOW_365d_train	Model Based	05/11/2004 09:11
● EAST_DAILY_TEST*	DA_Reg_RO_Temp_DOW_365d_train	Model Based	21/02/2005 10:36
● Food Factory	DA_Use2WeekDOWAve	Model Based	15/02/2005 13:12
● University	DA_Reg_RO_Temp_no_DOW_365d_train	Model Based	19/01/2004 10:51

Using the pop-up menu, we can group by geographic location

# Meters



Now our portfolio arranges the meters by geographic location



We can even combine these categories to organise our portfolio by location and behavioural type

Clients can have a variety of categories and grouping orders to help organise their meter portfolio

# Meter Configuration

- A Meter properties can easily be configured to suit your needs

Meter Editor -- University

Details | Zones | Effectors

Data

Name: University

Description: Medium size university

Externals

Import Name: Uni681

Export Name: Uni681

Categories:

All All

Meter Type

Attributes:

Meter Type: Other

Forecast Limits

Min Daily Value: Max Daily Value:

Cancel Help

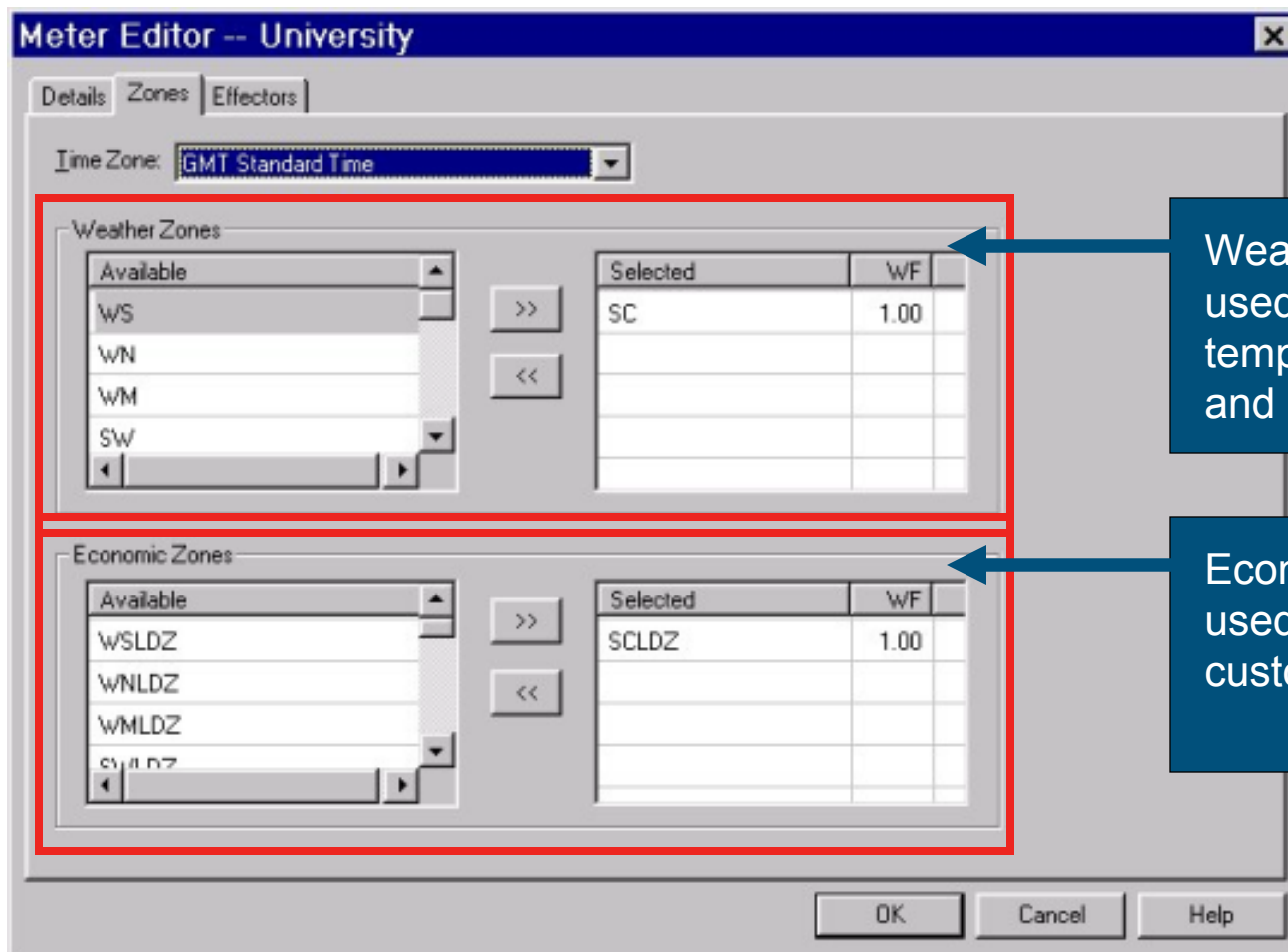
Forecast limits can be set to provide warning and protection from any unusual forecasts

Unique import and export identifiers can be used to match up input data and forecasts with your business systems

Meters can be assigned to different categories and meter types to allow easy navigation and management of your portfolio

# Zones

- Forecaster also provides the concept of zones that can be used to link other information sources to meters e.g.



Weather zones can be used to assign temperature, windspeed and other input variables

Economic zones can be used to assign pricing or customer level information

# Effectors

- Each meter can have a number of meter based effectors assigned to it e.g. load, nomination

Meter Editor -- University

Details | Zones | Effectors

Effectors

Effector	Units	Min. Value	Max. Value	Max. Delta	Read Freq. (Actuals)	Read Freq. (FCasts)
Nomination	KWh	0.00	60000.00	10000.00	Daily	Daily
Load	KWh	0.00	60000.00	10000.00	Daily	Daily

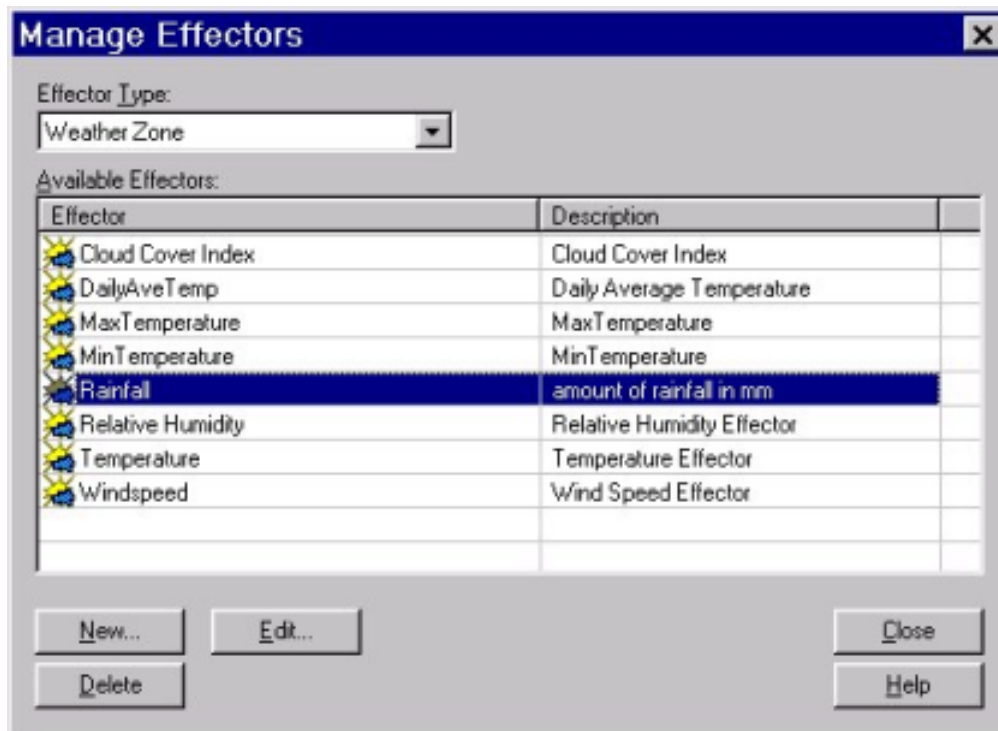
Note: All of the available effector types are in use for this meter.

Buttons: Add, Delete, Advanced Settings, Special Day Factors, Interruptions, OK, Cancel, Help

Each effector can be configured for a variety of situations – e.g. handling daily demands

# Adding Effector Types

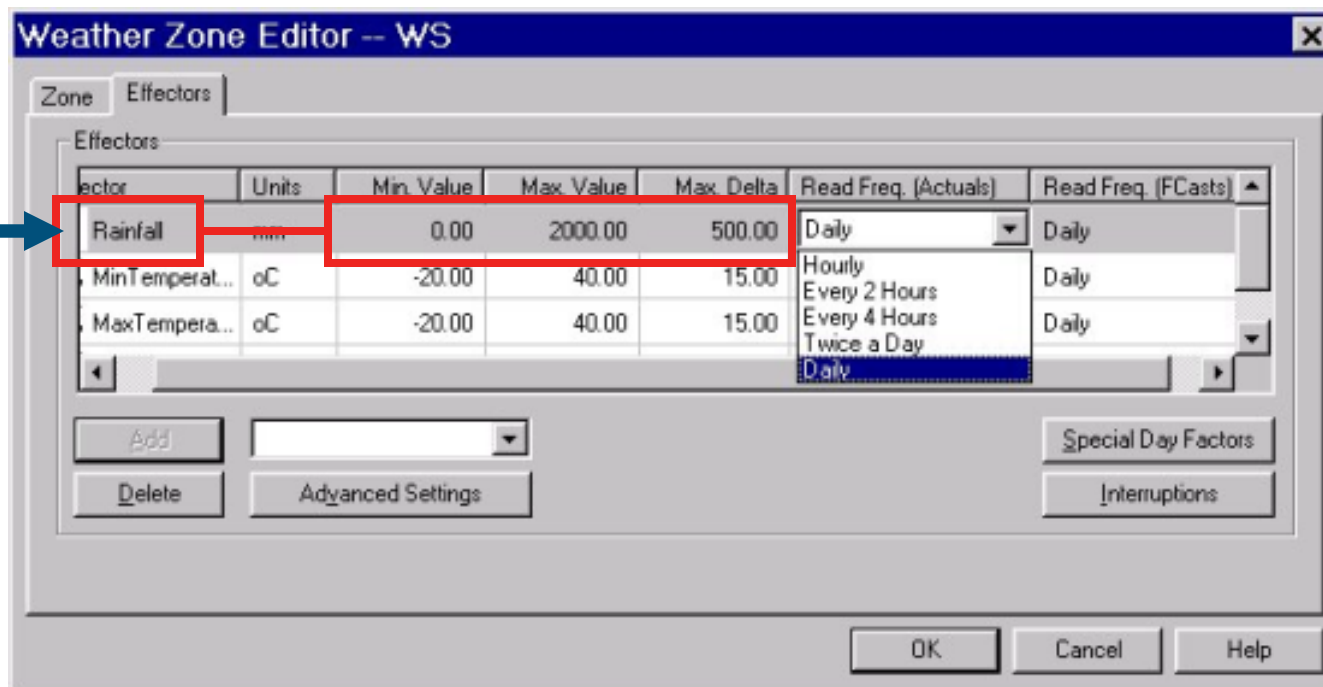
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The new effector has now been added to the system and can now be assigned and used in a weather zone

# Adding Effector Types

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A new entry in the effector list describing rainfall appears

The user can set min, maximum and maximum change values and select the granularity of actual and forecast information

The ability to configure new effector types and assign to different locations is a key feature of Forecaster

# Managing Predictors - Introduction

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- Predictors are used to generate forecasts for meters
- This presentation provides a brief overview of predictor management

```
name="DA_Reg_RO_Temp_DOW-  
"DA reg model inc hols and DOW"  
freq="Daily" EngineDataStyle="NOR  
PersonSpec Version="1.1" />  
ForecastEffector="Load" MinOffset="1"  
ForecastIntegTerm="NONE">  
EffectorName="Load" MinStep="-9" Max  
EffectorName="DayOfWeekFiscal" MinSt  
EffectorName="Temperature" MinStep="-  
EffectorName="MinTemperature" MinStep:
```

# Managing Predictors

```
A day ahead regression model using load, holidays an dDOW as inputs with 365 days
training
-> 
- <ModelPackXML Name="DA_Reg_RO_Temp_DOW_365d_train"
  Description="DA reg model inc hols and DOW"
  TimeIntervalName="Daily" EngineDataStyle="NORMAL">
  <ForecasterVersionSpec Version="1.1" />
- <!--
Effector variables
--> 
- <VariablesSpec ForecastEffector="Load" MinOffset="1"
  MaxOffset="1" ForecastIntegTerm="NONE">
  <EffectorVar EffectorName="Load" MinStep="-9" MaxStep="-
  2" />
  <EffectorVar EffectorName="DayOfWeekFiscal" MinStep="1"
  MaxStep="1" />
  <EffectorVar EffectorName="Temperature" MinStep="-9"
  MaxStep="1" />
  <EffectorVar EffectorName="MinTemperature" MinStep="-9"
  MaxStep="1" />
- <!--
```

This is an extract from a configured predictor showing the raw XML notation  
Using XML means that models within Forecaster can be configured in many different ways without having to modify the software making it highly flexible and powerful