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# **Alacrity Results Management (ARM)**

## Major Feature Description



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## **What is ARM (Alacrity Results Management)?**

**ARM provides a flexible set of building blocks which provides you the ability to custom design a performance management system without any software coding. Major features are:**

- Configurable model relationships
- Multiple hierarchies of measurement consolidation
- Graphical drilldown
- Time based graphs and charts at all levels in the measurement hierarchy
- Traceable / auditable calculations
- Flexible reporting through Crystal Reports
- Configurable measurement frequencies
- Maintenance of measurement and calculation statuses
- Data import / transfer capability
- Configurable calculations



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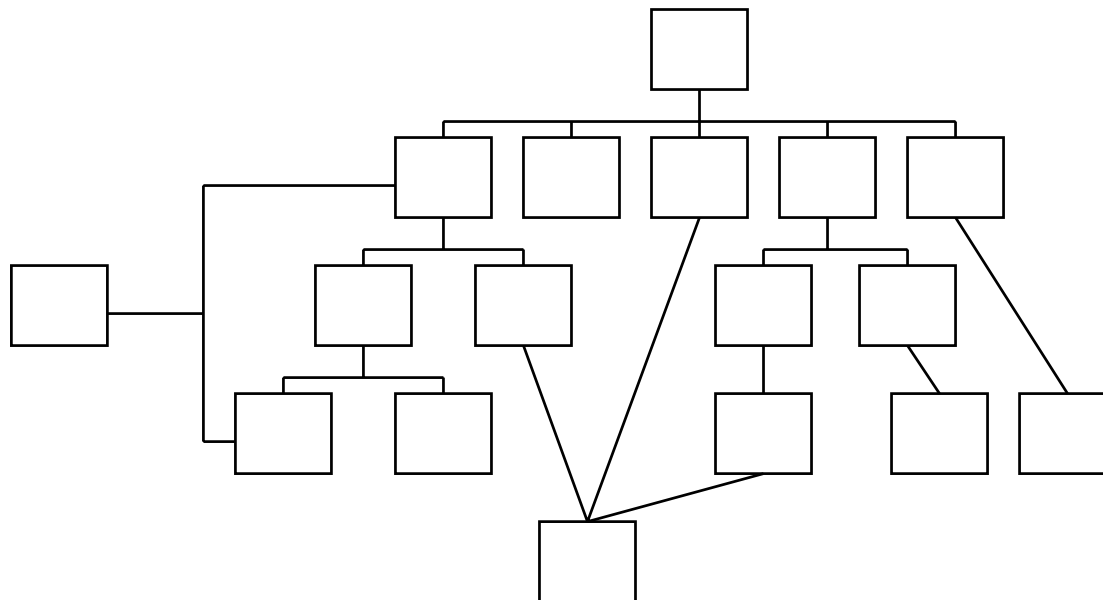
# Configurable model relationships give flexibility to match the system to your business

## ■ Features

- No built-in limit on levels of hierarchy
- Reporting hierarchy can be multi-dimensional with no limits on number of reporting dimensions
- Model is defined by means of objects (called Business Units in ARM) with links to measurements (called Numeric Items in ARM)

## ■ Benefits

- Model can directly map to your business to any level of detail
- Model can support many different views of the enterprise (e.g. by product, region, project, department, etc.)
- Matrixed organizations can be modelled directly



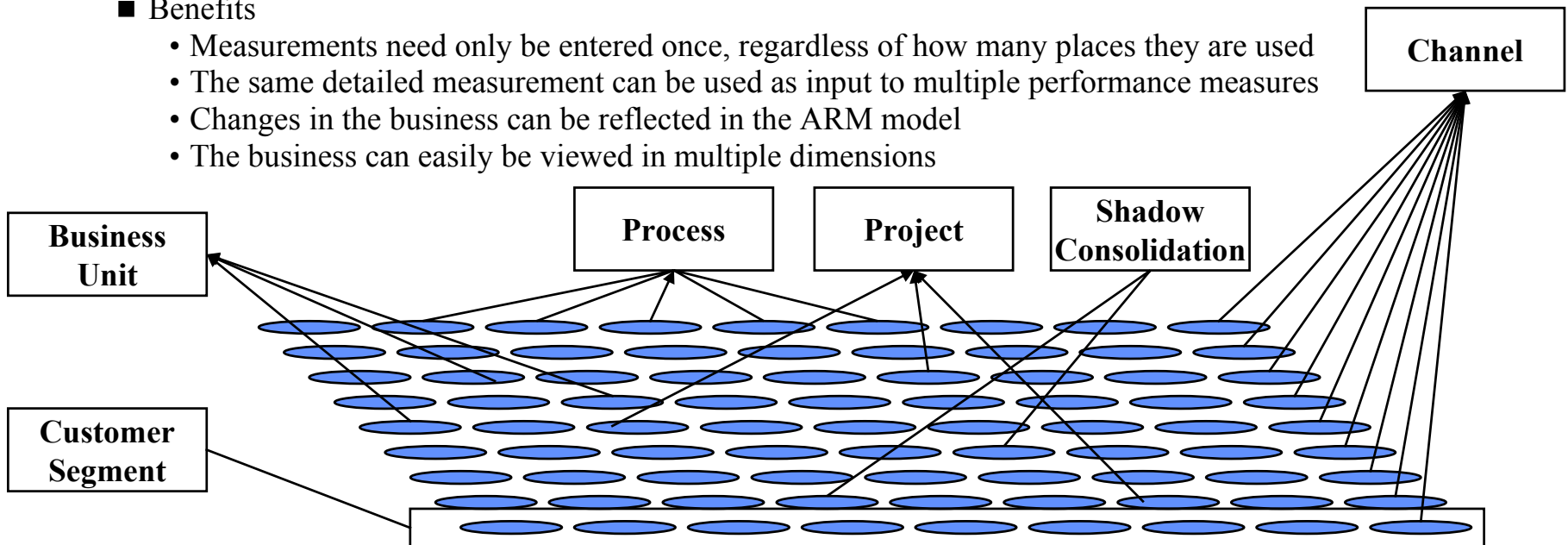
# Multiple hierarchies of measurement consolidation offer unlimited business views

## ■ Features

- Measurements are linked to a Business Unit
- Measurements are either entered, or calculated from other measurements. For example:
  - Corporate sales are the sum of regional sales
  - Regional sales are the sum of store sales in the region
  - Store sales are entered, or captured from an external system
- Calculated measurements are based on other measurements
  - These other measurements can be referenced anywhere in the model

## ■ Benefits

- Measurements need only be entered once, regardless of how many places they are used
- The same detailed measurement can be used as input to multiple performance measures
- Changes in the business can be reflected in the ARM model
- The business can easily be viewed in multiple dimensions



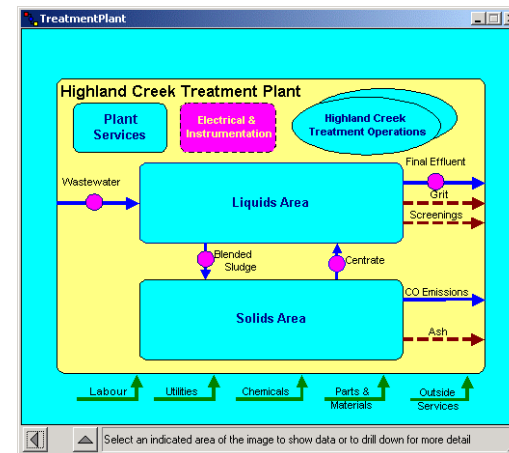
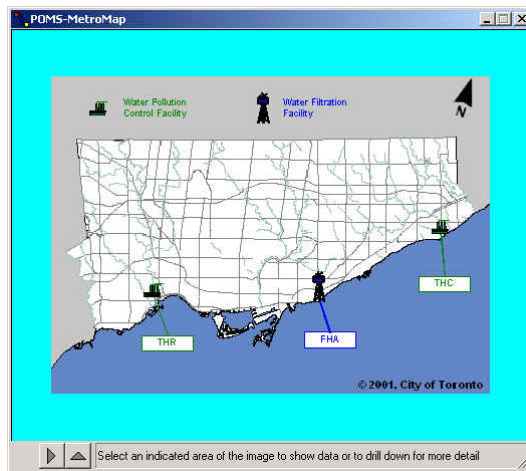
# Graphical drill down capability provides easy navigation through the model

## ■ Features

- User-defined graphical views for each level of the hierarchy
- Single-click access to drill down or view data
- Cursor changes shape on “Hotspots” on the graphic to inform the user where to click
- Ability to go to previous graphic or any graphic previously viewed

## ■ Benefits

- Easy navigation through the model
- Navigation through the model using graphics / pictures that are relevant, not generic



# Time based graphs and charts at all levels in the measurement hierarchy give the user many options to view information

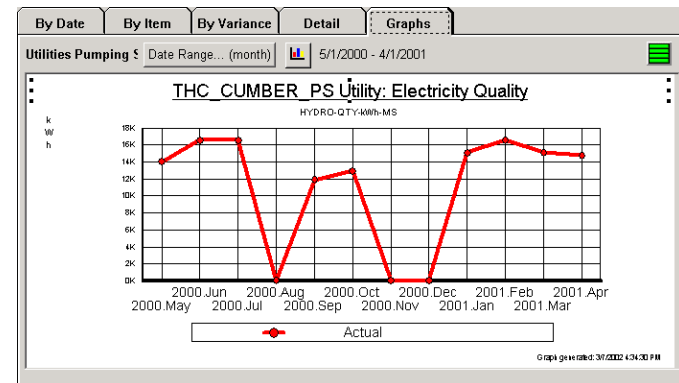
## ■ Features

- Time based charts of all measurements at the frequency of the measurement or less frequent
  - E.g. view monthly data monthly, quarterly or yearly
- Comparison of planned to actual measurements
- Graphs corresponding to each measurement over time
- Ability to export graphs and charts

## ■ Benefits

- Flexibility to view information within ARM at multiple levels
- Ability to manipulate ARM data outside of ARM

By Date	By Item	By Variance	Detail	Graphs
2001.Jan >> 2001.Apr (month)				
Utilities Pumping Stations Combined - M - DEN				
Electricity cost as entered (\$)	2001.Jan	2001.Feb	2001.Mar	2001.Apr
	1,239.03	1,355.60	1,239.03	1,209.88
Electricity cost as entered (\$)	2,225.51	4,306.82	2,274.86	2,121.78
Utility: Electricity Quality (kWh)	15,120	16,560	15,120	14,760
Utility: Electricity Quality (kWh)	24,600	54,000	25,800	27,000
Utility: Water Cost (\$)		391.93	181.12	181.12
Utility: Water Cost (\$)	46.15	88.78	41.92	-3.79
Utility: Water Quantity (m3)		429	197	197
Utility: Water Quantity (m3)	51	97	46	-4



# Traceable / auditable calculations provide peace of mind

## ■ Features

- For each calculated measurement, the user can view
  - The defined calculation for that measurement
  - The entered or calculated measurements used in the calculation
- As well, if any of the measurements used were calculated, the user can further drill down

## ■ Benefits

- All measurements are fully auditable
- A user can be confident that calculations are correct
  - Can easily answer questions such as, “Why is this value 5.1, not 5.5?”
- Calculation transparency speeds up model generation by quickly showing problems

Item	Plan Date	Value	Function	Status
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Q1	3970.0	Rolled up: sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Jan	350.0	sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Feb	1240.0	sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Mar	2380.0	sum	good

Item	Plan Date	Value	Function	Status
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Q1	3970.0	Rolled up: sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Jan	350.0	sum	good
StoreDept:HM:102 HW>2001>Sales:'Sales done' (\$)	2001.Jan	200.0	sum	good
StoreDept:HM:102 SG>2001>Sales:'Sales done' (\$)	2001.Jan	100.0	sum	good
StoreDept:HM:102 LW>2001>Sales:'Sales done' (\$)	2001.Jan	50.0	sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Feb	1240.0	sum	good
StoreDept:HM:102 HW>2001>Sales:'Sales done' (\$)	2001.Feb	900.0	sum	good
StoreDept:HM:102 SG>2001>Sales:'Sales done' (\$)	2001.Feb	90.0	sum	good
StoreDept:HM:102 LW>2001>Sales:'Sales done' (\$)	2001.Feb	250.0	sum	good
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Mar	2380.0	sum	good
StoreDept:HM:102 HW>2001>Sales:'Sales done' (\$)	2001.Mar	1800.0	sum	good
StoreDept:HM:102 SG>2001>Sales:'Sales done' (\$)	2001.Mar	80.0	sum	good
StoreDept:HM:102 LW>2001>Sales:'Sales done' (\$)	2001.Mar	500.0	sum	good



# Flexible reporting through Crystal Reports expands the reporting capability included in ARM

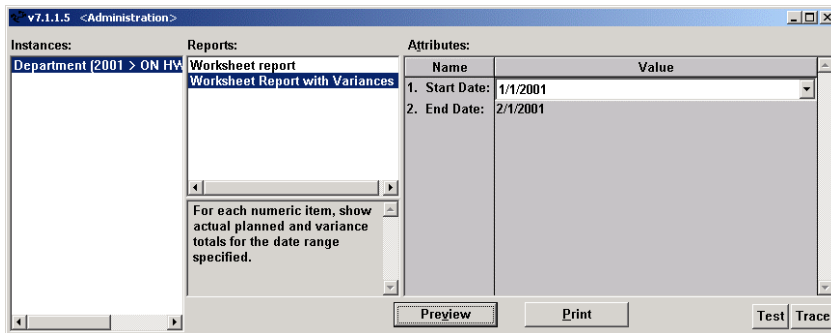
## ■ Features

- User defined reports using Crystal Report Designer
- Supports reports at multiple levels in the hierarchy
- Supports user specified parameters at report generation time

## ■ Benefits

- ARM supplies charts and graphs for measurements at a specific level. Crystal Reports expands this ability to provide a comprehensive set of reports matched to company requirements

### Report Screen



### Output Screen

The screenshot shows the 'Output Screen' displaying a 'Worksheet Report' for 'Department (2001 > ON HW [ProvinceDept]), 1/1/2001 to 2/1/2001'. The report is a table with columns 'Name', 'Planned', 'Actual', and 'Variance'. The data is as follows:

Name	Planned	Actual	Variance
Costs-Dept	30.0	130.0	100.0
Sales-Dept	230.0	400.0	170.0
Income-Dept	200.0	270.0	70.0

The interface also shows navigation controls at the top: '1 of 1', '100%', 'Total:3', '100%', and '3 of 3'.



# Configurable measurement frequencies with automatic rollup supply a separation of measurement entry frequency from viewing frequency

## ■ Features

- Measurements frequency can be hourly, daily, monthly, quarterly or yearly
- All measurements are automatically rolled up. For example:
  - Measurements entered hourly can be viewed daily, weekly, quarterly or yearly
- Measurement rollup is user defined
  - Can be one of many calculations, including first, last, average, sum

## ■ Benefits

- Measurement viewing is separated from measurement entry, allowing people to view results at the frequency that is relevant
- Different people can view measurements in different frequencies, increasing the flexibility of the system
- Views for detailed data, regional data, corporate data or any level in between allow the user full access to information

### Monthly

Centrifuge - D - MAP						
	2000.Jan	2000.Feb	2000.Mar	2000.Apr	2000.May	
Total Run Time for a device (hr)	540.12	338.70	506.41	255.07	649.57	
Time device was available (hr)	540.04	337.03	503.88	253.32	624.47	
Torque measurement on a device (%)	41.53	26.31	34.70	17.20	44.33	
Sludge Cake Flow (m3/day)	26,237	15,092	82,601	15,992	60,865	
Blended Sludge Flow [alternate units] (L/sec)	7.68	5.49	8.65	4.01	10.86	
Polymer Flow [alternate units] (L/sec)	0.846	0.606	0.956	0.420	1.183	

### Quarterly

Centrifuge - D - MAP			
	2000.Q1	2000.Q2	2000.Q3
Total Run Time for a device (hr)	1,385.23	1,448.55	1,399.58
Time device was available (hr)	1,380.96	1,386.25	1,390.53
Torque measurement on a device (%)	34.35	32.68	34.27
Sludge Cake Flow (m3/day)	41,886	40,895	16,660
Blended Sludge Flow [alternate units] (L/sec)	7.31	7.88	7.43
Polymer Flow [alternate units] (L/sec)	0.807	0.833	0.633



# Maintenance of measurement and calculation statuses quickly highlight areas of concern

## ■ Features

- Supports user defined measurement statuses
- Statuses are combined using user defined rules. For example:
  - Incomplete + Incomplete = Incomplete
  - Incomplete + Error = Error
- Supports user defined status thresholds
- Each status has a defined colour which is optionally shown in charts

## ■ Benefits

- Areas of concern are highlighted automatically
- Erroneous or otherwise incomplete measurements are flagged at all levels
- Small data inconsistencies can be filtered out by means of status thresholds to avoid false positives

Item	Plan Date	Value	Function	Status
Store:HM:102>2001>Sales:'Sales done' (\$)	2001.Q1	200 \$	sum	incomplete
StoreDept:HM:102 HW>2001>Sales-Dept:'Sales Done' (\$)	2001.Q1	200 \$	Rolled up: sum	incomplete
StoreDept:HM:102 HW>2001>Sales-Dept:'Sales Done' (\$)	2001.Jan	90 \$	sum	good
StoreDept:HM:102 HW>2001>Sales-Dept:'Sales Done' (\$)	2001.Feb	110 \$	sum	good
StoreDept:HM:102 HW>2001>Sales-Dept:'Sales Done' (\$)	2001.Mar	****	sum	null
StoreDept:HM:102 SG>2001>Sales-Dept:'Sales Done' (\$)	2001.Q1	****	Rolled up: sum	null
StoreDept:HM:102 SG>2001>Sales-Dept:'Sales Done' (\$)	2001.Jan	****	sum	null
StoreDept:HM:102 SG>2001>Sales-Dept:'Sales Done' (\$)	2001.Feb	****	sum	null
StoreDept:HM:102 SG>2001>Sales-Dept:'Sales Done' (\$)	2001.Mar	****	sum	null
StoreDept:HM:102 LW>2001>Sales-Dept:'Sales Done' (\$)	2001.Q1	****	Rolled up: sum	null
StoreDept:HM:102 LW>2001>Sales-Dept:'Sales Done' (\$)	2001.Jan	****	sum	null
StoreDept:HM:102 LW>2001>Sales-Dept:'Sales Done' (\$)	2001.Feb	****	sum	null
StoreDept:HM:102 LW>2001>Sales-Dept:'Sales Done' (\$)	2001.Mar	****	sum	null



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## **Data import / transfer capability allows batch or direct input from other computers**

### ■ Features

- Import data from files upon user request
- Import data from files at a regular interval
- Import data from an external program upon request

### ■ Benefits

- No data entry errors due to data re-entry
- Timely access to data from across the enterprise



# Configurable calculations allow ARM to provide you with results tailored to your enterprise

## ■ Features

- Large set of base calculations ready to use
- Ability to define arbitrarily complex expressions as required
- New base calculations can be added as part of the base package

## ■ Benefits

- All required calculations necessary for your performance management system can be either used or generated
- No need to compromise. Tailored results can almost always be achieved with no program changes

The screenshot shows a dialog box with two tabs: "Select" and "Define". The "Define" tab is active. At the top, there is a "Name:" field containing "Convolutud Calculation". Below this is a list of radio button options for calculation types: Sum, Previous, Delta, Expression (selected), Average, Equal, Count, Last, Source at 00:00, Average Ignoring Nulls, Minimum, Source at 06:00, True False If, Maximum, Weighted Average, and None. Below the options is an "Expression" field containing the formula  $42 * (a + (b - c) * d)$ . At the bottom right, there are "Save" and "Cancel" buttons.

