



DATA → INFORMATION → ACTION

Model Design III



Course Description

Model Design is a required course for the IS person or individuals responsible for preparing the data used for the creation and maintenance of the Models used by Diver. This course presents to the student the considerations that must be taken into account prior to designing and building a Model with Builder.

This Segment of the course assumes that the student is familiar with the mechanics of building a model, and focuses on designing models that perform – both at build time and at Dive time.



The Build Process

- Model Building
 - Inside the Model File
 - The Build Phases
 - Building Summary Tables
- Summary Tables and Diving
- Factors Influencing Model Size and Build Time
- Tuning Considerations



Inside the Model File

- Binary File
- De-normalized input file now normalized
- Info Fields converted to a table
- Detail Row table created from Dimension values and Summary fields
- Summary Tables based upon the Dimensions and the Block Factor
- Header Information



The Build Phases

Phase 1

- Read and Parse Input File
- Perform Calcs

Phase 2 – 5

- Build Dimension Values Tables, Info Field Tables, Detail Table and Dump Key

Phase 6

- Building the Summary Tables



Phase Six - Building Summary Tables

- Builds a Top Level Summary table for all Dimensions.
- Creates lower level Summary tables as determined by a comparison of the number of records for each distinct Dimension value to the block factor.
- Block factor is a developer-modifiable number that sets the level of detail tables created.
- This level of summarization may improve the performance speed of Diving.
- The process proceeds from Dimension to Dimension.



Sample Data

<u>Product</u>	<u>Customer</u>	<u>Size</u>	<u>Invoice</u>	<u>Units</u>
Dr Pepper	Dan	can	1	5
Dr Pepper	Dan	can	2	5
Dr Pepper	Dan	bottle	3	5
Cherry Coke	Dan	can	4	10
Cherry Coke	Dan	can	5	5
Coca-Cola	Dan	can	6	20
Coca-Cola	Dan	can	7	-10
Coca-Cola	Dan	can	8	15
Coca-Cola	Dan	bottle	9	5
Coca-Cola	Dan	bottle	10	5
Coca-Cola	Dan	bottle	11	5
Coca-Cola	Fred	can	12	10
Coca-Cola	Fred	bottle	13	10
Coca-Cola	Fred	bottle	14	5
Pepsi	Dave	bottle	15	10
Pepsi	Dave	bottle	16	5



Phase Six - Building Summary Tables

Top Level 'Size' Summary Table

Value	Total	Count
Can	60	8
Bottle	50	8

Top Level 'Customer' Summary Table

Value	Total	Count
Dan	70	11
Fred	25	3
Dave	15	2

.....

Block Factor = 5
Dimensions
 Size (2)
 Customer (3)
 Product (4)
 Invoice (16)

'Can' - Customer Summary Table

Value	Total	Count
Dan	50	7
Fred	10	1

'Can' - Product Summary Table

Value	Total	Count
Dr Pepper	10	2
Cherry Coke	15	2
Coca-Cola	35	4

'Can' - Invoice Summary Table

Value	Total	Count
1	5	1
2	5	1
4	10	1
5	5	1
6	20	1
7	-10	1
8	15	1
12	10	1

'Bottle' - Customer Summary Table

Value	Total	Count
Dan	20	4
Fred	15	2
Dave	15	2

'Bottle' - Invoice Summary Table

Value	Total	Count
3	5	1
9	5	1
10	5	1
11	5	1
13	10	1
14	5	1
15	10	1
16	5	1

"Can - Dan" - Product Summary Table

Value	Total	Count
Dr Pepper	10	2
Cherry Coke	15	2
Coca-Cola	25	3

"Can - Dan" - Invoice Summary Table

Value	Total	Count
1	5	1
2	5	1
4	10	1
5	5	1
6	20	1
7	-10	1
8	15	1

'Bottle' - Product Summary Table

Value	Total	Count
Dr Pepper	5	1
Cherry Coke	30	5
Coca-Cola	15	2



Phase Six - Building Summary Tables

Top Level 'Customer' Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Dan	70	11
Fred	25	3
Dave	15	2

Block Factor = 5

Dimensions

Size (2)

Customer (3)

Product (4)

Invoice (16)

'Dan' - Size Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Can	50	7
Bottle	20	4

'Dan' - Product Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Dr Pepper	15	3
Cherry Coke	15	2
Coca-Cola	40	6

'Dan' - Invoice Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
1	5	1
2	5	1
3	5	1
4	10	1
5	5	1
6	20	1
7	-10	1
8	15	1
9	5	1
10	5	1
11	5	1

"Dan - Can" - Product Summary Table

Table Already Built

"Dan - Can" - Invoice Summary Table

Table Already Built

"Dan - Coca-Cola" - Size Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Can	25	3
Bottle	15	3

"Dan - Coca-Cola" - Invoice Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
6	20	1
7	-10	1
.....		



Phase Six - Building Summary Tables

Top Level 'Product' Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Dr Pepper	15	3
Cherry Coke	15	2
Coca-Cola	65	9
Pepsi	15	2

Top Level 'Invoice' Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
1	5	1
2	5	1
3	5	1
4	10	1
5	5	1
6	20	1
7	-10	1
8	15	1
9	5	1
10	5	1
11	5	1
12	10	1
13	10	1
14	10	1
15	10	1
16	10	1

'Coca-Cola' - Size Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Can	35	4
Bottle	30	5

'Coca-Cola' - Customer Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
Dan	40	6
Fred	25	3

'Coca-Cola' - Invoice Summary Table

<u>Value</u>	<u>Total</u>	<u>Count</u>
6	20	1
7	-10	1
8	15	1
9	5	1
10	5	1
11	5	1
12	10	1
13	10	1
14	10	1

'Dan - Coca-Cola' - Size Summary Table

Table Already Built

'Dan - Coca-Cola' - Invoice Summary Table

Table Already Built



Phase Six - Building Summary Tables

Reporting % Complete

Dimension	Tables Built	% of Required Tables Completed	% Complete Reported by Builder
Size	9	45%	25%
Customer	6	75%	50%
Product	4	95%	75%
Invoice	1	100%	100%



Builder Tuning Considerations

Dump Key

- DI “metadata” - data about data
- Option set by default (new versions)
- Key Elements
 - num values: # of unique values for each Dimension
 - max clump: value that appears most frequently in the data, and in how many records it appears
 - detail row size: # bytes to store 1 detail record

Num input records = 16

Key Product, num values = 4, max clump = (9)“Coca-Cola”

Key Customer, num values = 3, max clump = (11)“Dan”

Key Size, num values = 2, max clump = (8)“can”

Key Invoice, num values = 16, max clump = (1)“1”

Dtl row size = 20, bucket size = 16



Factors Influencing Model Size and Build Time

- Number of Dimensions
- Dimension Domain Values (L)
- Number of Input Rows
- Number of Info Fields
- Number of Summary Fields
- Statistics Requested
- Block Factor



Tuning Considerations

- Reduce the Number of Dimensions
- Adjust the Block Factor
- Skip Build
- Squash
- Use the Build Journal
- Split Models



Builder Tuning Considerations

Block Factor

- Model Size - Access Speed Trade-off
- Determines Level of Summarization
- First-Level Always Summarized (Console)
- Default = 100,000 records



Block Factor (continued)

Block Factor Options

- Designer can set default number or percent
- Maximum Block Factor
- Minimum Block Factor = 10000 (default)
 - Can prevent “Too Many Table Types”



Builder Tuning Considerations

Skip Build

- Designer can specify that detail tables are not created for certain Dimension Values, e.g. blanks
- Useful for values which exist in the data on a large number of records but are unlikely to be dived on
- An additional option exists in which the Block Factor for these values can be set



Builder Tuning Considerations

Squash

- Causes Builder to Collapse Duplicate Rows
- May Reduce Build Time
- May Reduce Model Size
- Re-defines Definition of “Count”
- All Builder Calcs Done “Pre-Squash”



Builder Tuning Considerations

Build Journal

- Reports Data Inconsistencies
 - Parse errors
 - Summary field contains character data
 - Info Field data integrity warning
 - First 100 “problems”
- Contains Dump Key
- Location
 - Same directory as .dsc file
 - “journal=” will re-direct
 - “Best Practice” : name same as Model



Builder Tuning Considerations

Split Models

- **Strongly** Emphasizes the Dimension(s) used to split
 - Time
 - Security
 - First Dives
- Think of Block Factor as percentage
- Force one-value Dimensions
- Approach has its limits



Builder Tuning Considerations

Combine Dimensions

- Select Dimensions with few values
- Select Dimensions with some correlation
- Don't worry about selecting Dimensions that "go together"



Builder Tuning Considerations

Working Set

- Defines Size of Temporary “bucket” Files
- Default Size of 30 MB
- No Effect on Model or Model Size
- “Too many buckets”
- May reduce the Build Time



Example Dump Key

Input information:

Num input records = 1000000

Key information:

Key Product Class; num values = 6, max clump = (329275) "Wine"

Key Brand; num values = 298, max clump = (79482) "Kendall Jackson"

Key Product; num values = 4121, max clump = (7821) "Berenger White Zin 12/750"

Key On/Off Premise; num values = 3, max clump = (842012) "Off Premise"

Key Customer Chain; num values = 612, max clump = (711090) ""

Key Customer; num values = 8933, max clump = (22985) "Enormous Liquors #17"

Key Sales Division; num values = 7, max clump = (265148) "Eagle Wines"

Key Sales Manager; num values = 43, max clump = (102875) "Ted Sobchak"

Key Salesperson; num values = 241, max clump = (33921) "Maureen Keefe"

Key Year-Month; num values = 12, max clump = (99043) "2007-12"

Key Invoice Date; num values = 252, max clump = (6123) "2007-12-13"

Key Invoice Number; num values = 328905, max clump = (23) "J8675309"

Field Information:

12 dimensions, 4 summaries, 57 infos



Dump Key – Wal-Mart

Input information:

Num input records = 1000000

Key information:

Key Product Class; num values = 6, max clump = (329275) "Socks"

Key Brand; num values = 65, max clump = (79482) "ComfortBlend"

Key Product; num values = 1054, max clump = (7821) "Mens T 3pk"

Key Customer Type; num values = 3, max clump = (842012) "Discount/BigBox"

Key Customer Chain; num values = 108, max clump = (711090) "Wal-Mart"

Key Customer; num values = 1855, max clump = (22985) "Wal-Mart DC #317 STLMO"

Key Sales Division; num values = 7, max clump = (698324) "Wal-Mart Sales"

Key Sales Manager; num values = 14, max clump = (698324) "Ted Sobchak WMT"

Key Salesperson; num values = 45, max clump = (133921) "Maureen Keefe"

Key Year-Month; num values = 12, max clump = (99043) "2007-12"

Key Invoice Date; num values = 252, max clump = (6123) "2007-12-13"

Key Invoice Number; num values = 328905, max clump = (23) "J8675309"

Field Information:

12 dimensions, 4 summaries, 57 infos



Dump Key – Wal-Mart – Wal-Mart Model

Input information:

Num input records = 698324

Key information:

Key Product Class; num values = 6, max clump = (201566) "Socks"

Key Brand; num values = 22, max clump = (55241) "ComfortBlend"

Key Product; num values = 639, max clump = (5655) "Mens T 3pk"

Key Customer Type; num values = 1, max clump = (698324) "Discount/BigBox"

Key Customer Chain; num values = 1, max clump = (698324) "Wal-Mart"

Key Customer; num values = 207, max clump = (22985) "Wal-Mart DC #317 STLMO"

Key Sales Division; num values = 1, max clump = (698324) "Wal-Mart Sales"

Key Sales Manager; num values = 1, max clump = (698324) "Ted Sobchak WMT"

Key Salesperson; num values = 18, max clump = (133921) "Maureen Keefe"

Key Year-Month; num values = 12, max clump = (66210) "2007-12"

Key Invoice Date; num values = 204, max clump = (4215) "2007-05-07"

Key Invoice Number; num values = 185223, max clump = (23) "J8675309"

Field Information:

12 dimensions, 4 summaries, 57 infos



Dump Key – Wal-Mart – “Other” Model

Input information:

Num input records = 301676

Key information:

Key Product Class; num values = 6, max clump = (127709) “Socks”

Key Brand; num values = 64, max clump = (24241) “ComfortBlend”

Key Product; num values = 1022, max clump = (2166) “Mens T 3pk”

Key Customer Type; num values = 3, max clump = (143688) “Discount/BigBox”

Key Customer Chain; num values = 108, max clump = (44251) “Target”

Key Customer; num values = 1688, max clump = (22985) “KOHLS #517”

Key Sales Division; num values = 6, max clump = (55914) “Southeast Retail”

Key Sales Manager; num values = 13, max clump = (59888) “Walter Robertson”

Key Salesperson; num values = 27, max clump = (133921) “Maureen Keefe”

Key Year-Month; num values = 12, max clump = (32833) “2007-12”

Key Invoice Date; num values = 252, max clump = (2655) “2007-12-13”

Key Invoice Number; num values = 143718, max clump = (16) “J8634921”

Field Information:

12 dimensions, 4 summaries, 57 infos



DI Model Structures

- The Model Structure
 - ‘Short and Fat’
 - ‘Long and Thin’
 - Model Structure Comparison
- The Time Dimension Across Models



Short & Fat vs Long & Thin

Short and Fat

Product	Jan	Feb	Mar	Apr
1	10	20	30	40
2	20	30	40	50
3	30	40	50	60
4	40	50	60	70

Long and Thin

Product	Month	Revenue
1	Jan	10
1	Feb	20
1	Mar	30
1	Apr	40
2	Jan	20
2	Feb	30
2	Mar	40
2	Apr	50



Short & Fat vs Long & Thin

Short & Fat

Calcs

Calcs

Calcs

Calcs

Calcs

No Graphical Trending

Calcs

Administrator

Specific Periods

Period-to-Period

Roll-Ups

Stacked Reporting

Time Period "Counts"

Moving Avg/Totals

Who does it?

Long & Thin

Named Groups

Wizards

Calendars

MultiCrossTab

DimCounts

Yes

Named Groups

Admin or User



Model Structures

- **General analysis**
 - Most flexibility
 - Fewer Models: long and thin
- **Specialized analysis and reporting**
 - Many business reports
 - More Models: short and fat
- **Report Palette / DivePort**
 - Speed is the driving factor !!!
 - Many Models: long and thin ; short and fat
 - Structure is secondary to record count here



Model Structures under DivePort

- Downlink/Crosslink vs Dive
- Models at multiple levels
- Consistency in QuickViews and Dive Fields



The Time Dimension Across Models

- Only the current data which is changeable needs to be refreshed in your Models.
- History can be combined with current data through the use of a Multi-Model DivePlan containing Consolidated Models.
- The History Models are only rebuilt if necessary.
- Use Info Fields in newer Models or Lookups



Options for Large Data Sets

- Core Model with a minimum of Dimensions
- Console Jump
- Tunnel
- Detail Model



Console Jump

Used to quickly access complementary data in another Model.

- Both Models or DivePlans must be open in the Console
- Common Dimensions are represented with the same name in each Model
- "Group" Dimension values to create a subset
- Red Dive arrow indicates current available "Jump" Dimension
- A Jump opens a new Dive Window for the new dive into the second Model
- "Save Extra DivePlans" in Marker Options tab
- Compared to Crosslink/Downlink: no parent values



Detail Models

A Detail Model integrates a standard Model with rows of original data as detail Dimensions, so users do not need to interact with your enterprise database directly in order for the detail information to be available.

Detail Models make it possible to provide access to detailed information such as complete invoices, patient records, shipping manifests, purchase orders, items in a General Ledger, etc.



Creating a Detail Model

Visual Builder - c:\di_training\programs\ot_salesdetail.dsc

File Model Help

Projects and Files: ot_salesdetail.dsc

Property	Value
Input	
Data File	c:\DI_Training\data\distribfile.txt
Column Definition Type	Column Headers
Delimiter	tab
Columns (41)	
Calculated Fields (0)	
Model Structure	
Dimensions (3), Infos (0)	
Summaries (2)	
Detail	
Detail Dimensions (7), Infos (0)	
Detail Summaries (2)	
Output	
Options	

Define Model Structure - c:\di_training\programs\ot_salesdetail.dsc

Sort Data and Computed Columns into Dimension, Summary, and Info categories. Drag and Drop items from the list to the Tree or use the "D", "S", or "I" keys to set the category type of each item in the lists.

Available Columns (41)
From Source:

- Premise
- Chain
- Customer
- City/State/Zip
- Brand
- Group
- Label
- Size
- Item Name

Calculated Fields:

Model Specification

- Dimensions (3), Infos (0)
 - Customer
 - YearMo
 - Sales Manager
- Summaries (2)
 - Cases
 - Revenue
- Details
 - Dimensions (7), Infos (0)
 - Premise
 - Invoice Number
 - Product Class
 - Supplier Name
 - Brand
 - Company
 - Salesperson
 - Summaries (2)
 - Cases YTD 2009

Buttons: New, Edit, Delete, Properties, < Back, Next >, Finish, Cancel



Detail Model Journal File

- Includes the number of Detail Dimensions, Info Fields, and Summaries
- Places the following in the list of Core Dimensions:
 - Key <no name>, num values = 1197139, max clump = (1)"1"



Diving into A Detail Model

DI-Diver

File Edit Organize Display Window Help

Customer [nu_horizons_detail.mdl-Dive A]

Customer	Cases	Revenue	Count
Totals	12,259,135	440,080,208.63	1,197,139
FELICIA'S	48,945	1,660,803.65	6,272
VILLAGE REST. GROU	68,783	2,917,216.00	4,650
FOX & HOUNDS	14,283	502,150.22	2,783
FOX & HOUNDS INC	23,308	654,358.26	2,396
VILLAGE OPERATING,	42,506	1,495,475.12	2,229
AMERICAN LEGION POS	19,422	621,319.90	2,021
TGI FRIDAY'S	23,349	788,487.10	1,966
MARRIOTT INTERNATIO	64,242	2,851,650.99	1,835
VFW POST	29,482	653,141.74	1,726
MARTHA RAE SEAFOODS	22,819	843,721.01	1,692
VILLAGE OPERATING I	39,189	1,801,702.71	1,629
SUNSET MANAGEMENT C	18,969	675,932.45	1,576
NY RESTAURANT COMPA	23,829	652,271.16	1,572
B P O E LODGE	13,196	452,392.36	1,559
MASHPOOG REST., INC.	28,833	2,388,992.55	1,506
CAPITAL BAY OF B	8,189	1,006,888.21	1,477
ANGELICA'S	14,111	709,328.24	1,442
WESTIN HOTEL	40,515	1,832,516.36	1,442
MARTHA RAE SEAFOOD	10,555	476,857.67	1,410
EAT WELL INC	5,292	643,960.22	1,402
ZORBA WEST INC	16,214	614,694.92	1,370
NEW YORK HARBOR HOT	3,808	292,197.01	1,294
TGI FRIDAY	17,382	655,856.23	1,286
FOX & HOUNDS INC.	2,283	154,064.18	1,270
OYSTER BAR LTD PART	8,035	407,762.03	1,252
J P C INC	21,090	569,599.01	1,239

5526 Rows (Totals-41)

Console

Dive A Dive B Dive C Dive D

- History(sales_detail)
 - Customer: FOX & HOUNDS
- Models
 - sales_detail
 - Customer
 - YearMo
 - Sales Manager
 - Detail
 - Premise
 - Invoice Number
 - Product Class
 - Supplier Name
 - Brand
 - Company
 - Salesperson
- Totals
- Info
- Time Series Info



Diving into A Detail Model (Cont'd)

- Click on a Single Detail Dimension or...
- Click on Detail – See All

The screenshot shows the DI-Diver application window with a menu bar (File, Edit, Organize, Display, Window, Help) and a toolbar. The main window displays a table titled "Detail [Detail Model-Dive A]" for a customer. The table has the following columns: Premise, Invoice Number, Product Class, Supplier Name, Brand, Company, Salesperson, Cases Year to Date 2006, and Revenue Year to Date 2006. The data is organized into two groups: BEER (from Delta Brands) and LIQUOR (from Omega Brands). The BEER group shows 13 rows of data with a total of 6,313 cases and 244,330.86 in revenue. The LIQUOR group shows 18 rows of data, all with 0.00 cases and revenue. The status bar at the bottom indicates "2636 Rows (Totals-41)".

Premise	Invoice Number	Product Class	Supplier Name	Brand	Company	Salesperson	Cases Year to Date 2006	Revenue Year to Date 2006
							6,313.00	244,330.86
On	100,032,429	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,444	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,463	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,480	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,497	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,514	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,521	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,532	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,545	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,554	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,032,569	BEER	BECCO LTD.	BECK'S	Delta Brands	Sikorsky, Wilbur	0.00	0.00
On	100,059,360	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,372	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,380	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,397	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,409	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,421	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,436	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,450	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,059,466	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Norris, Peter	0.00	0.00
On	100,060,747	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Bowen, Frank	0.00	0.00
On	100,060,755	LIGUOR	JAMES B BEAM	OLD GRANDDAD	Omega Brands	Bowen, Frank	0.00	0.00
On	100,190,482	LIGUOR	JAMES B BEAM	DEKUYPER	Omega Brands	Bowen, Frank	0.00	0.00
On	100,231,795	LIGUOR	JAMES B BEAM	DEKUYPER	Omega Brands	Smithson, Tim	0.00	0.00
On	100,231,808	LIGUOR	JAMES B BEAM	DEKUYPER	Omega Brands	Smithson, Tim	0.00	0.00



Diving into a Detail Model - Detail Column Groups

Narrow down your Detail Model using the Detail Column Group

- Detail Model builds faster
- The “Dump” window includes only the fields in the group.





DivePlans and Detail Models

DivePlans can be used with a Detail Model to customize the view.

- Can add a Detail Model with other Models in a DivePlan through DiveMaster
- Other DiveMaster settings can be used only for the core Model
- DI-Diver or ProDiver can be used to make changes to the DivePlan that will apply to the Detail Model.



DATA → INFORMATION → ACTION