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SAS VISUAL ANALYTICS | **HIGH PERFORMANCE JOURNEY FOR VISUAL ANALYTICS**

Q4
2012

Q2
2013

Q4
2014

VA 6.1

VA 6.2

VA x.x

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SAS VISUAL ANALYTICS

WHAT IS EXPECTED ACROSS ALL SEGMENTS

Disclaimer: The content presented here is an overview of key capability highlights planned for next releases of VA and does not cover all the new capabilities that might come.

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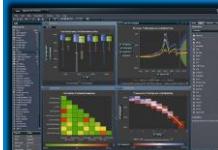
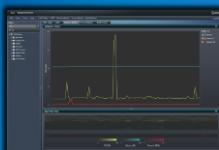
SAS® VISUAL ANALYTICS

DELIVERS A SINGLE SOLUTION FOR FASTER, SMARTER DECISIONS

Central Entry Point

Integration

Role-based Views



DATA BUILDER

- Join data from multiple sources
- Create calculated and derived columns
- Load data

ADMINISTRATOR

- Monitor SAS® LASR™ Analytic server
- Load/unload data
- Manage security

EXPLORER

- Perform ad-hoc analysis and data discovery
- Apply advanced analytics

DESIGNER

- Create dashboard style reports for web or mobile

MOBILE BI

- Native iOS and Android applications that deliver interactive reports

SAS® LASR™ ANALYTIC SERVER

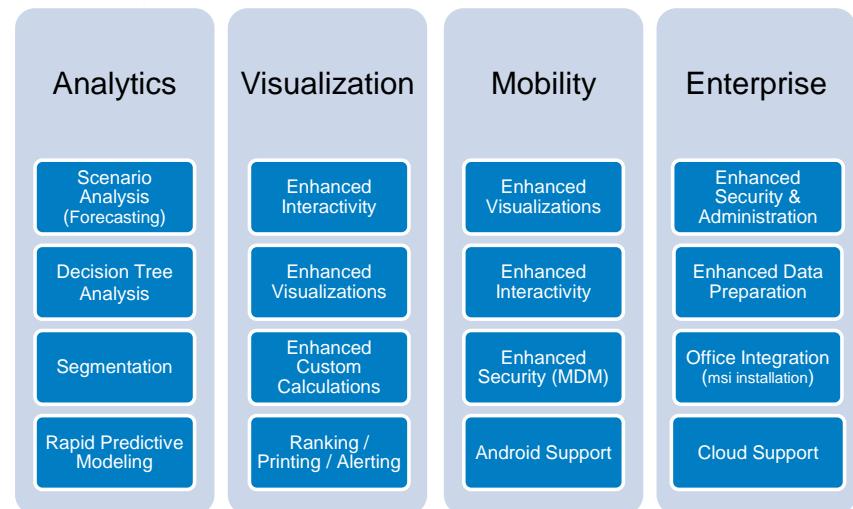
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SAS VISUAL ANALYTICS

WHAT IS EXPECTED ACROSS ALL SEGMENTS

Subject
To
Change



..and many more

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SAS® VISUAL ANALYTICS

KEY CAPABILITY ENHANCEMENTS IN VA 6.2

Subject
To
Change

HOME PAGE (HUB)

- Integration with SAS Solutions: Ability to launch applications of a solutions integrated with VA directly from the HUB
- Ability to open LASR Tables for Reporting, Exploration and Data preparation

VISUAL ANALYTICS EXPLORER

- Enhanced forecasting with Scenario Analysis
- Drill down on hierarchy with hyperlink display
- Geomaps with Choropleth/Polygon support (*please see notes*)
- Charts with ability to lock colour ramps (Chart comparison on same scale)
- Ranking: Top and Bottom raking of a Dimensions based on measure values
- Post Aggregated Calculated Columns: % of total / subtotal; Arithmetic Operators
- Support for User Defined Formats
- Enhanced “Manage Visualization” capability (easy to view and select visualization for Reporting and Printing)
- Visualizations (Charts) with indicator line for displaying values at various point on the chart
- New Data indicator: Indicates existing data source has been updated

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KEY CAPABILITY ENHANCEMENTS IN VA 6.2


 Subject
To
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VISUAL ANALYTICS DESIGNER

- Refined layout of Data Sources and Report Object types as two separate tabs
- Progressive Filters
- Section Linking: Create links from report objects to sections within a report (same data source)
- Report Linking: Create links from report objects to another report (same data source)
- Report Lining: Create links to external URL and STPs (URL based) with parameters
- Report Printing
- Enhanced Sort Option: Sorting values as Formatted or Unformatted
- Post Aggregated Calculated Columns: % of total / subtotal
- Post Aggregated Calculated Columns: arithmetic operators
- Support for more KPI visuals (configurable)

VISUAL ANALYTICS VIEWER

- Ability to Print reports
- Ability to see the filter applied on report objects


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KEY CAPABILITY ENHANCEMENTS IN VA 6.2


 Subject
To
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VISUAL DATA BUILDER

- Support for Input Tables from SAS LASR Analytics Server
- Support for Heterogeneous Joins
- Import SAS Datasets
- Preview of data before importing
- Support for Information Maps (as source for new query)
- Excel Import: Append data from worksheets

SAS MOBILE BI

- MDM Support: Support for Mobile Device Management (MDM) integrating with 3rd party technologies
- Android Support: New release of Mobile BI App for Android devices supporting VA 6.1
- Collaboration support with Annotation, Email report link
- Ability to Refresh reports from the device
- Support for application passcode
- Server side logging for user actions – reports downloaded


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KEY CAPABILITY ENHANCEMENTS IN VA 6.2

Subject
To
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Administrator

- Row Level Security: Enhanced UI for defining row level security
- Indication of available memory (overall system)

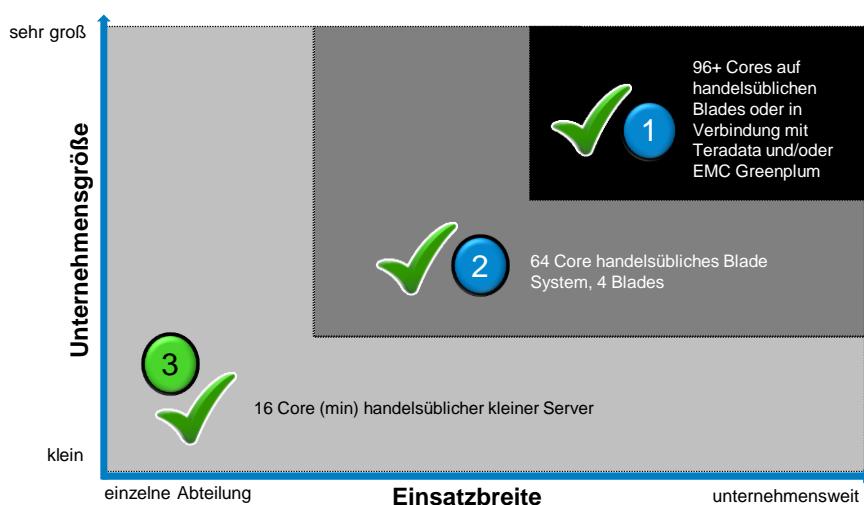
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FLEXIBILITÄT BEIM DEPLOYMENT – JE NACH BEDARF



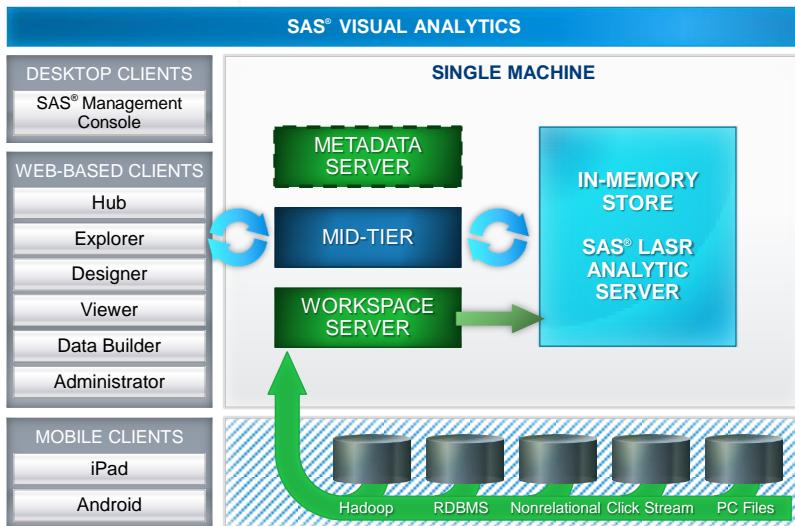
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HIGH LEVEL ARCHITECTURE

NON-DISTRIBUTED DEPLOYMENT ON COMMODITY HARDWARE



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NON DISTRIBUTED DEPLOYMENT

Subject
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OPERATING SYSTEM

- Windows Server 2008 R2 (**neu ab Version 6.2!**)
- Red Hat Enterprise Linux 5 or 6
- SUSE Linux Enterprise Server 10 or 11 SP1

SIZING GUIDELINES NON DISTRIBUTED DEPLOYMENT

- Maximum single largest table size to be loaded is 16 GB
- Total of 110 GB for loading data
- Ability to Scale up

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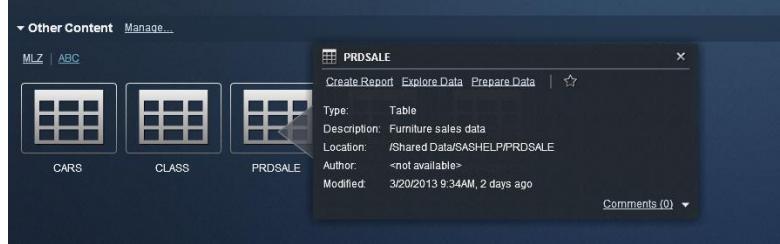
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CAPABILITY OVERVIEW – HOME PAGE

Subject
To
Change

Access to Metadata Tables from Home

- Can create link to accessible folders under **Other Content**
- View list of accessible tables as Thumbnails
- Click on the table to see the Object Inspector giving options for opening the table in **Designer**, **Explorer** or **Prepare Data** interface



PRDSALE

Type: Table
Description: Furniture sales data
Location: /Shared Data/SASHHELP/PRDSALE
Author: <not available>
Modified: 3/20/2013 9:34AM, 2 days ago

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CAPABILITY OVERVIEW – SCENARIO ANALYSIS

Subject
To
Change

Analytical Enhancement

- Forecasting with What-if Analysis



Expenses by Date by Month

Expenses (Sum) (millions)

Expenses (95% confidence)

Summary Data Scenario Analysis

Product Material Cost Expenses (operational) Expenses (material)

Roles Filters Properties Comments

Category: Date by Month
Measures: Expenses
Group: *id*
Lattice columns: *id*
Lattice rows: *id*

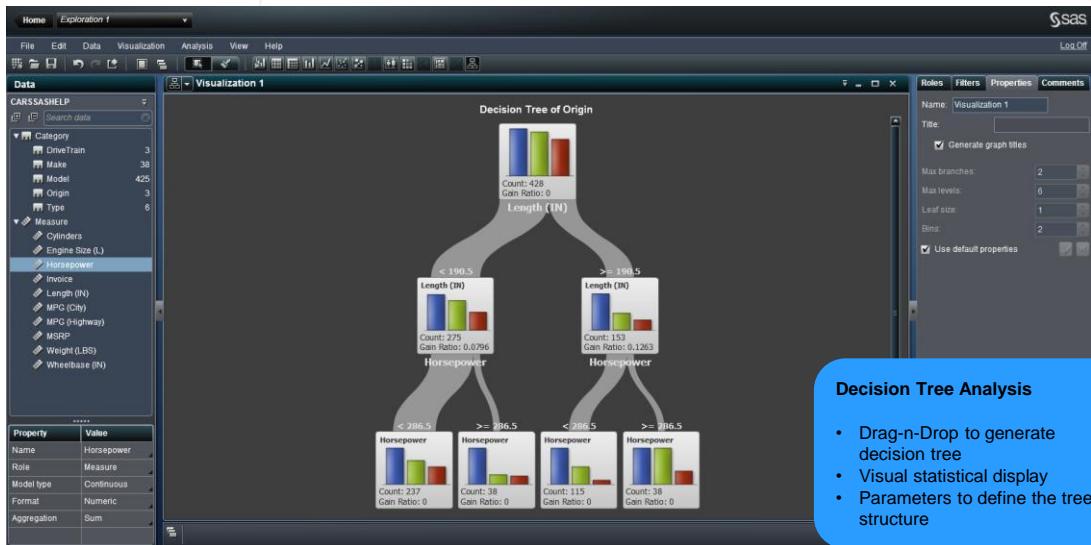
Forecasting
Underlying factors:
Product Material Cost
Expenses (operational)
Expenses (material)

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Subject To Change

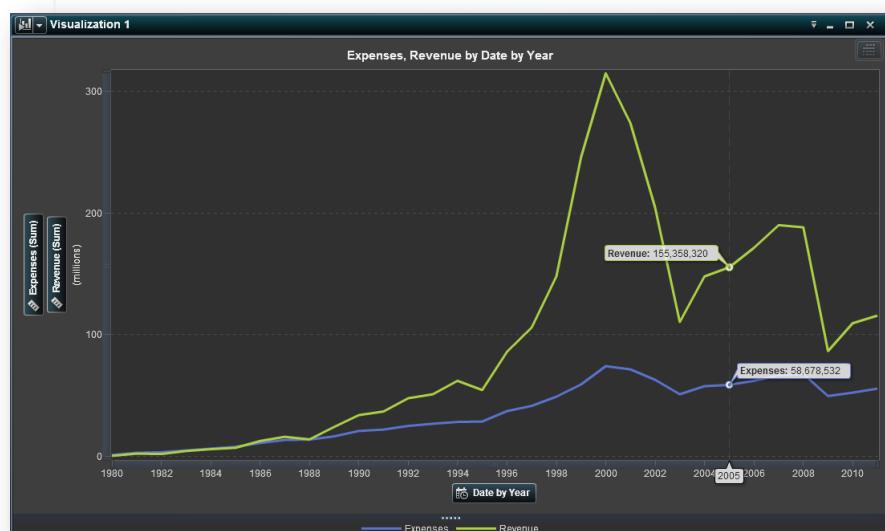
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CAPABILITY OVERVIEW – DECISION TREE


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 Subject To Change

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CAPABILITY OVERVIEW – ENHANCED VISUAL


Enhanced Visual

- Chart provides a vertical line (dotted) indicating position of the cursor
- For various intersection points, clearly displays the data values (as shown for Revenue and Expenses on line and Year on the X-Axis)

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CAPABILITY OVERVIEW – % TOTALS/SUBTOTALS

Subject
To
Change

% Totals / Subtotals

- Menu options to define % Totals and % Subtotals
- Applicable for Columns and Rows
- Automatically calculates contribution of Subtotal towards Grand Total

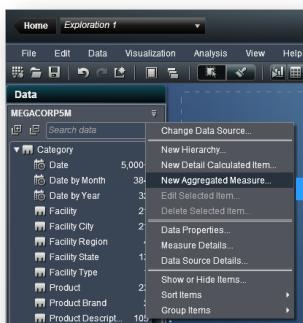
Crosstab 1			Drop controls here to create a section prompt					
Product Brand	Product Line	Product	2000			2001		
			Revenue	Revenue (Percent of Column Total)	Revenue (Percent of Column Subtotal)	Revenue	Revenue (Percent of Column Total)	Revenue (Percent of Column Subtotal)
Total			315,084,021	100%	100%	273,883,770	100%	100%
	Subtotal: Novelty		93,084,133	30%	100%	77,056,016	28%	100%
Novelty	Promotional	Subtotal Promotional	93,084,133	30%	100%	77,056,016	28%	100%
		Backpack	31,637,587	10%	34%	27,500,358	10%	36%
		Coffee Cup	11,864,420	4%	13%	10,473,602	4%	14%
		iPhone Cover	18,500,812	6%	20%	13,429,911	5%	17%
		Pen	12,112,052	4%	13%	9,468,204	3%	12%
Toy	Action Figure	Plaque	18,969,262	6%	20%	16,183,941	6%	21%
		Subtotal: Toy	221,999,887	70%	100%	198,827,754	72%	100%
		Subtotal: Action Figure	20,427,965	6%	9%	17,549,278	6%	9%
		Athlete	2,897,937	1%	14%	2,580,217	1%	15%
		Firefighter	2,841,363	1%	14%	2,622,873	1%	15%
Toy	Game	Movie Star	2,904,892	1%	14%	2,521,741	1%	14%
		Musician	2,925,944	1%	14%	2,457,339	1%	14%
		Police	2,903,737	1%	14%	2,562,018	1%	15%
		Soldier	3,027,960	1%	15%	2,343,128	1%	13%
		Super Hero	2,926,131	1%	14%	2,460,962	1%	14%
Game	Stuffed Animal	Subtotal: Game	166,917,965	53%	75%	148,953,050	54%	76%
		Board	79,696,413	25%	48%	71,685,545	26%	48%
		Card	38,753,292	12%	23%	35,416,185	13%	24%
		Puzzle	48,468,260	15%	29%	41,851,319	15%	28%
		Subtotal: Stuffed Animal	34,653,958	11%	16%	30,325,426	11%	15%

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CAPABILITY OVERVIEW – ADVANCED CALCULATIONS

Subject
To
Change



New Calculated Item

Name: Ratio

Data items:

- Unit
- Unit Status
- Measure
 - City Latitude
 - City Longitude
 - Day of Week
 - Employees Used
 - Expenses
 - Expenses (capital)

Operators:

- Numeric (simple)
- Aggregated
 - Avg (average over co...)
 - Count (count over co...)
 - Distinct (distinct count over co...)
 - Max (max over context)
 - Min (minimum over c...)
 - Sum (sum over conte...)
- Comparison

Calculation: $(\text{Sum [ByGroup] (Revenue)} / \text{Sum [ByGroup] (Expenses)})$

Format: Comma (Width: 12 Decimals: 2 Sample: 2,523,654.01) | Select... | OK | Cancel

Advanced Calculations

- Special operators for using aggregated values in calculations
- Includes Sum / Avg / Min / Max / Count / Distinct Count

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Manage Visualization

- New UI available to manage visualization for
 - Display within Explorer
 - For selecting visual for Exporting as Report
 - For selecting visuals for Exploring as PDF

CAPABILITY OVERVIEW – MANAGE VISUALIZATION



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To
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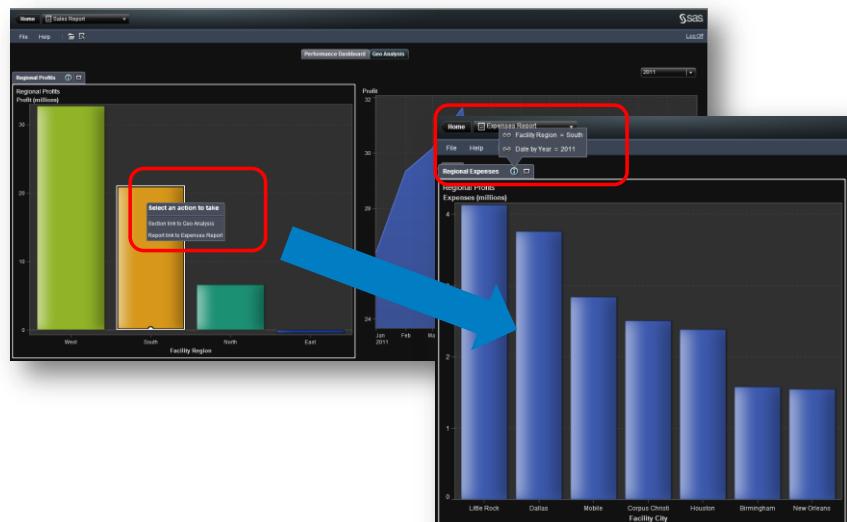
CAPABILITY OVERVIEW – REPORT/SECTION LINKING

Section Linking

- Ability to define interactive links between report objects from one section to another section (all objects)

Report Linking

- Ability to define interactive links between report objects from one report section to another report (all sections)



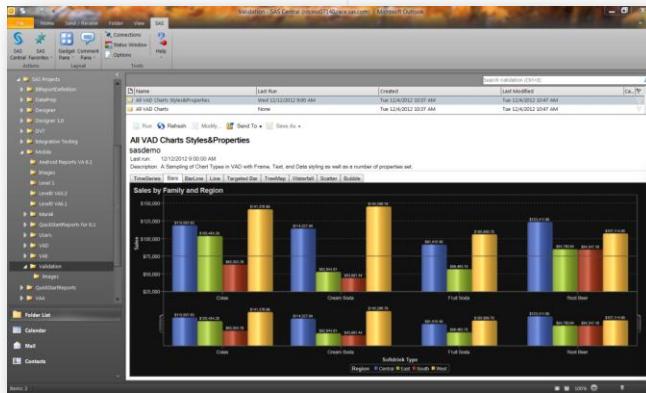
Subject
To
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CAPABILITY OVERVIEW – OFFICE INTEGRATION

Subject
To
Change



The screenshot shows the SAS Visual Analytics interface. On the left, there's a navigation pane with various project and system icons. The main area displays a bar chart with three series: Sales, Cost, and Profit. The x-axis categories are Sales, Cost, Profit, and Total. The y-axis ranges from \$70,000 to \$110,000. The legend indicates Sales (blue), Cost (green), and Profit (yellow).

Outlook Integration



Excel Integration



The screenshot shows an Excel spreadsheet with a bar chart titled 'PromptMultipleChart'. The chart displays car sales data by make. The x-axis lists car makes: Mercedes-Benz, Audi, BMW, Volkswagen, Volvo, Jaguar, Saab, and MINI. The y-axis represents 'KeyNumber' from 0 to 20. The chart shows sales volumes for each make.

Make	KeyNumber
Mercedes-Benz	14
Audi	14
BMW	14
Volkswagen	12
Volvo	10
Jaguar	9
Saab	7
MINI	3

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