

Chapter 1: Getting Started with SAS® Visual Analytics

1.1 Introduction to SAS Visual Analytics

1.2 Exploring the Visual Analytics Course Environment

1.3 Viewing Visual Analytics Reports

Objectives

- Describe the purpose of SAS Visual Analytics.
- Describe the features of SAS Visual Analytics.
- Describe SAS Cloud Analytic Services (CAS).
- Discuss the SAS Viya architecture.
- List the components of SAS Visual Analytics.



What Is SAS Visual Analytics?

SAS Visual Analytics is a web-based product that leverages SAS High-Performance Analytics technologies to empower organizations to explore huge volumes of data very quickly to identify patterns, trends, and opportunities for further analysis.



SAS Visual Analytics: Features

SAS Visual Analytics enables users to perform the following tasks:

- apply the power of SAS analytics to massive amounts of data
- visually explore and find patterns in your data
- quickly create reports or dashboards
- share insights with anyone, anywhere, via the web or a mobile device
- quickly create powerful statistical models*
- work with factorization machines, forests, gradient boosting, neural networks, and support vector machines**

Cloud Analytic Services (CAS)

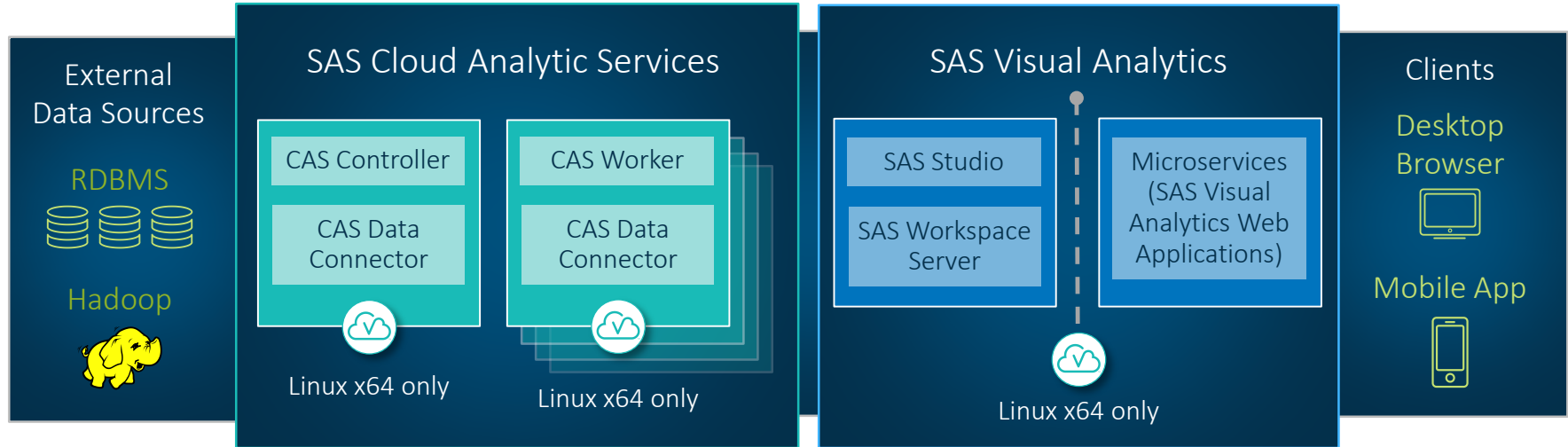


Cloud Analytic Services (CAS) is the server that provides the run-time environment for data management and analytics with SAS Viya.

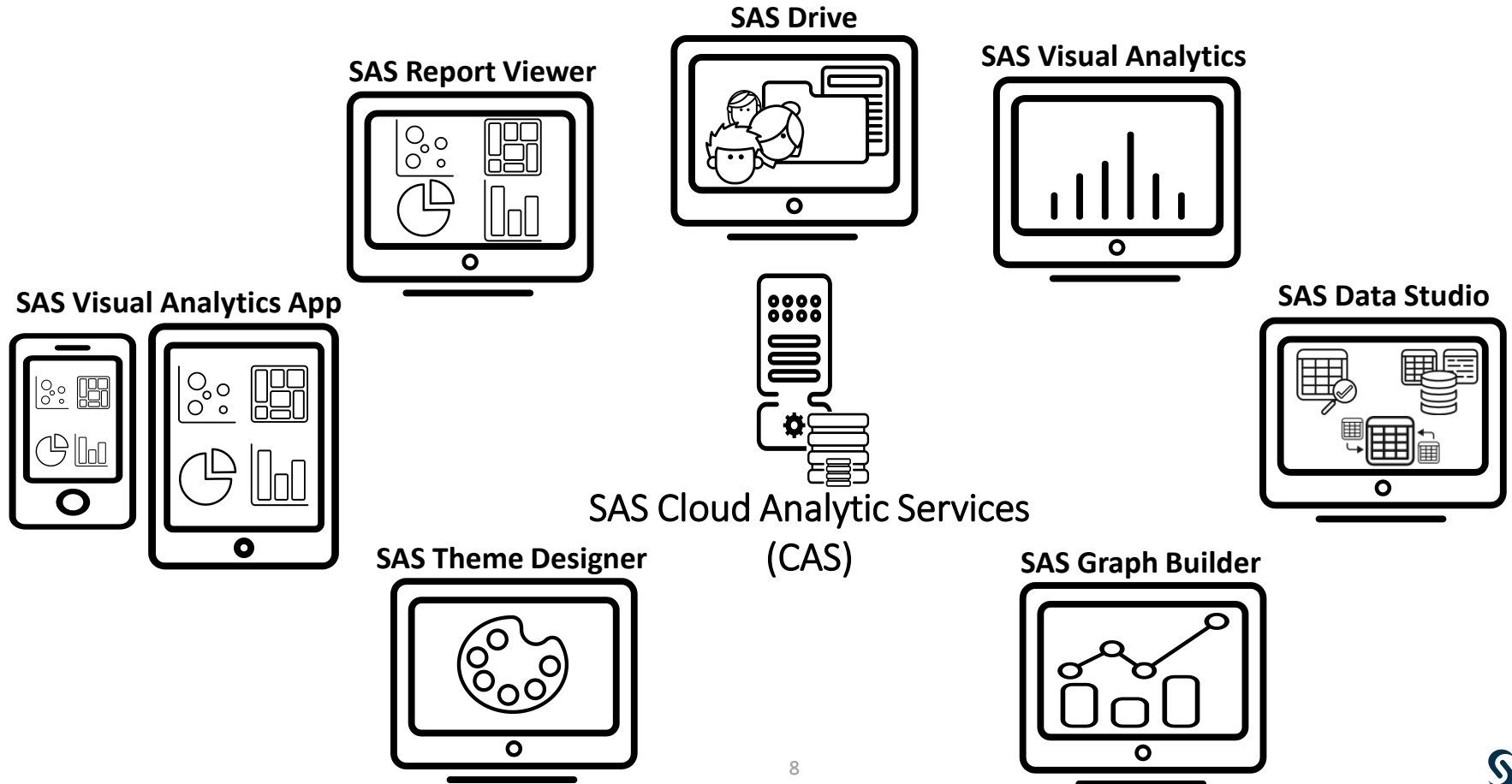
CAS uses a high-performance, in-memory engine along with a distributed architecture to execute multi-threaded analytic code, rapidly processing requests against data of any size. CAS provides the following features:

- high speed
- resiliency
- scalability
- node-to-node communication
- worker node fault tolerance

SAS Viya Architecture

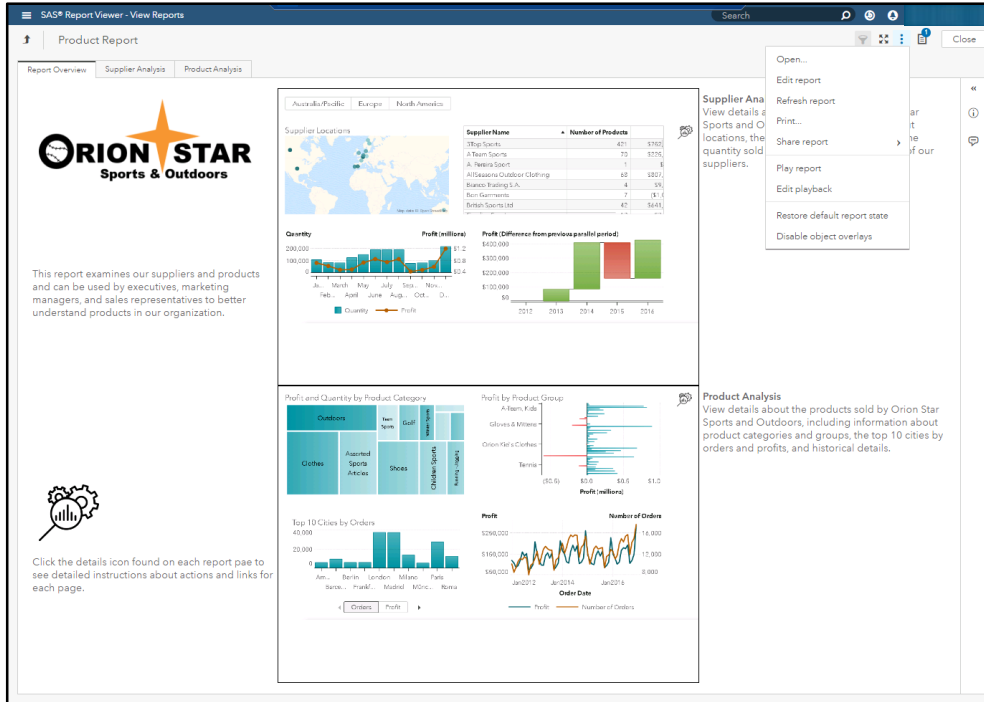


SAS Viya Applications

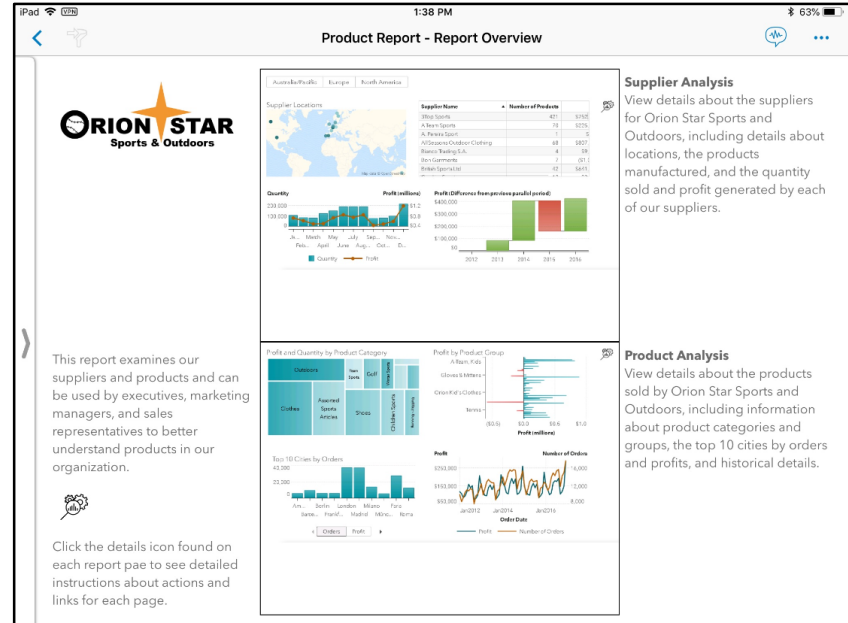


Viewing SAS Visual Analytics Reports

Report Viewer



SAS Visual Analytics App



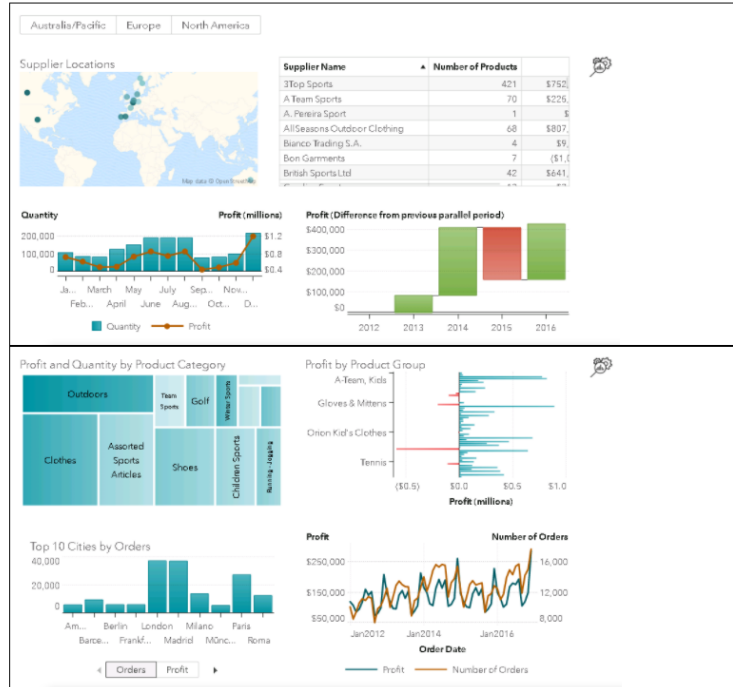
SAS Report Viewer Interface

Page tabs

This report examines our suppliers and products and can be used by executives, marketing managers, and sales representatives to better understand products in our organization.



Click the details icon found on each report page to see detailed instructions about actions and links for each page.



More options

View details about the suppliers for Orion Star Sports and Outdoors, including details about locations, the products manufactured, the quantity sold and profit generated by our suppliers.

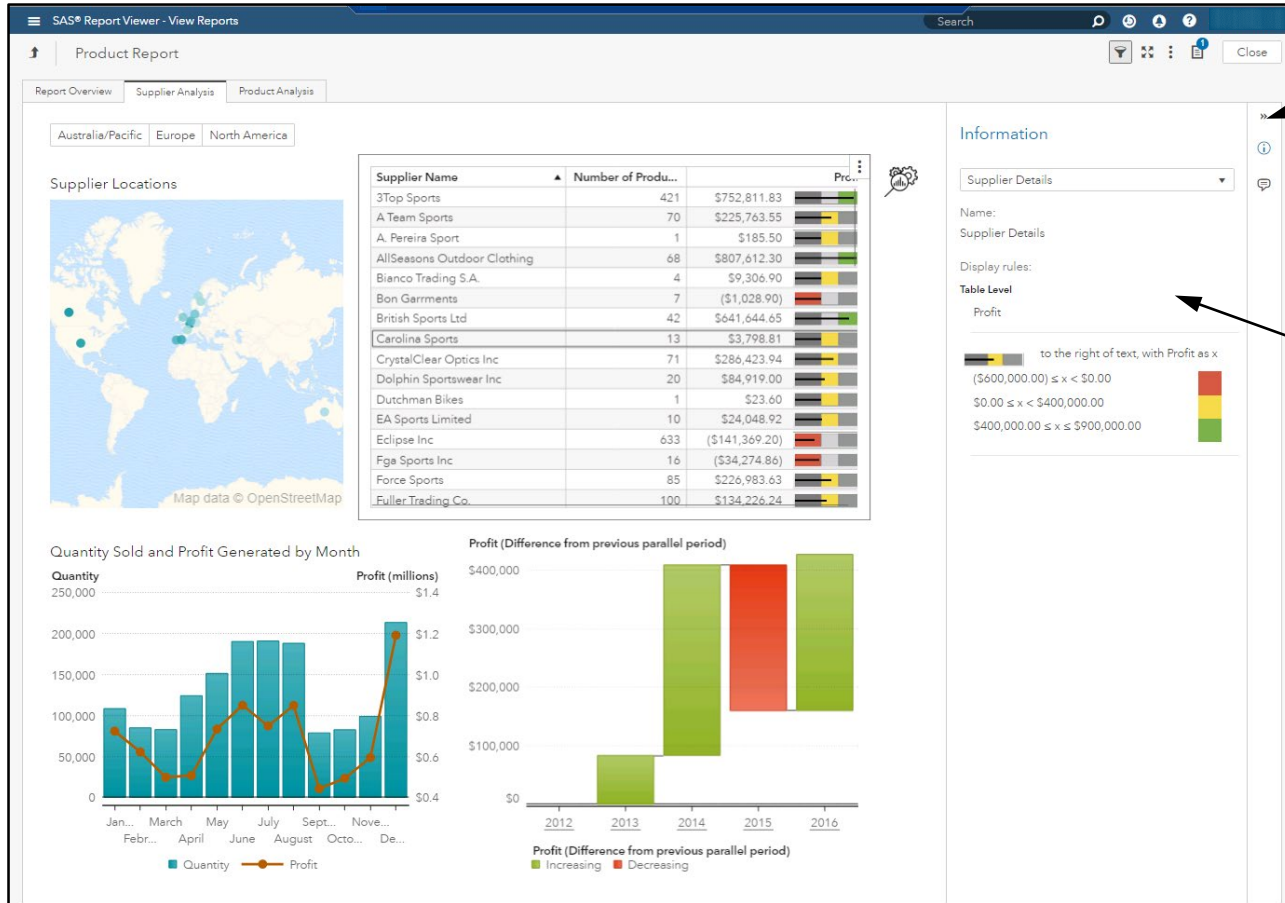
Opened items

- Open...
- Edit report
- Refresh report
- Print...
- Share report >
- Email...
- Link...

Product Analysis

View details about the products sold by Orion Star Sports and Outdoors, including information about product categories and groups, the top 10 cities by orders and profits, and historical details.

SAS Report Viewer Interface



Expand or collapse

Right pane