

Using the SAS Add-In for Microsoft Office

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Overview of Presentation



- What is the Office Add-In
 - ✓ Summary of Features
 - ✓ Overview of Technology
- Example Application
 - ✓ Exploring data
 - ✓ Running tasks and stored processes
 - ✓ Creating stored processes

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Overview of Features



- The SAS Add-In allows users to access the power of SAS through the familiar interfaces of MS Office (Word and Excel)
- Users can use the SAS Add-In to
 - ✓ Browse data sources
 - ✓ Explore data through interactive queries.
 - ✓ Run stored processes that execute dynamic analysis returning the results to Excel or Word

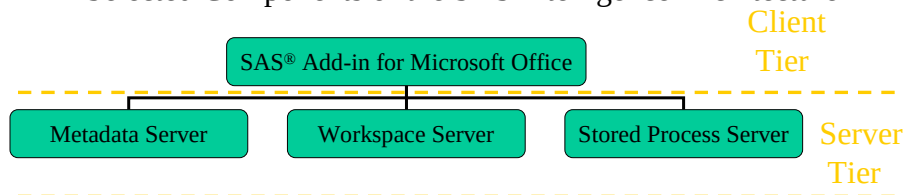
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How it Works



- Add-in extends capabilities of Word and Excel
 - ✓ Component Object Model (COM) allows MS Office client to communicate with SAS servers to extend the capabilities of MS Office.
- No need for SAS on client machines

Selected Components of the SAS Intelligence Architecture



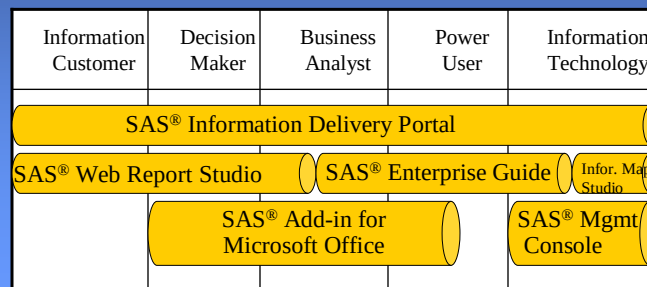
Source: SAS documentation

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Applications



- Targeted toward business analyst, decision makers
- Applications where:
 - ✓ Source data are large, complex, and dynamic
 - ✓ Goal of enabling decision makers and business analysts through direct access to corporate data
 - ✓ Central control of data access and integrity is important
- Licensed as part of SAS Business Intelligence Architecture



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SAS Business Intelligence (BI) Packages



<i>Product</i>	<i>BI Server</i>	<i>BI Enterprise Server</i>
Base SAS	✓	✓
AppDev Studio		✓
SAS Add-In for Microsoft Office	✓	✓
SAS Enterprise Guide	✓	✓
SAS/GRAPH	✓	✓
SAS Information Delivery Portal		✓
SAS Information Map Studio	✓	✓
SAS Integration Technologies	✓	✓
SAS/IntrNet		✓
SAS Management Console		✓
SAS Web Report Studio		✓

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Demo Data: Tax Assessor Data

➤ Description

- ✓ Parcel data obtained from 17 counties in Oregon and Washington
- ✓ Tax Assessor related information on property ownership, attributes, and tax amounts.

➤ Database

- ✓ Standardized data created from raw data files received from counties
 - Consistent variable names, labels, and formatted values.
- ✓ Production database contains over 1.3 million records and 85 variables.
- ✓ Demo database contains 100,000 records and 27 columns

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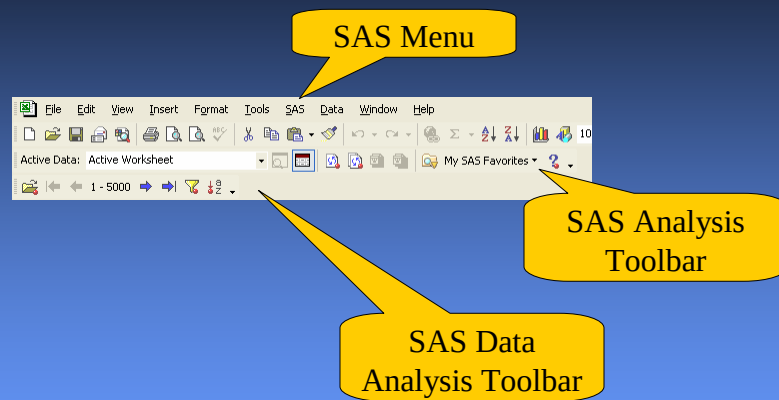
Demo Data: Tax Assessor Data

➤ Data content consists of:

- ✓ Owner name
- ✓ Site Address
- ✓ Mail Address
- ✓ Square Feet
- ✓ Number of Bedrooms
- ✓ Number of Bathrooms
- ✓ Acreage
- ✓ Year Built
- ✓ Property Class Code
- ✓ Building Class Code
- ✓ Zoning Code
- ✓ Taxable Value
- ✓ Assessed Taxes
- ✓ etc

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SAS Add-in modifications to Excel



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On to the Demo....



- Exploring the SAS modifications to Excel
 - ✓ SAS Menu
 - ✓ SAS Data Analysis Toolbar
 - ✓ SAS Analysis Toolbar
- Exploring data in a SAS Table
 - ✓ Open a SAS table
 - From files or SAS server (meta data)
 - ✓ Filter and sort records
 - Owners, Multnomah Co, built after 2000, bedrooms (1-6)
 - ✓ Ad-hoc calculations in Excel
 - Average square feet.
 - ✓ Built-in SAS tasks (experimental)

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More demo...



- Save Excel spreadsheet for self-contained project.
 - ✓ Data selection results embedded with workbook
 - ✓ Analysis and reports embedded with workbook
 - ✓ Apply MS Office formatting and print setup.

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More demo...



- Running tasks and stored processes
 - ✓ Select Browse SAS Programs from menu or toolbar
- Authoring Stored Processes
 - ✓ Manual
 - Defined in SAS Management Console
 - Code written in SAS Program Editor
 - ✓ Automatic
 - Point and click with SAS Enterprise Guide

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Summary



- Easy to use and familiar interface
- Flexible
 - ✓ Developers and IT can control access and provide custom tools
 - ✓ Users can explore data, run analysis, save and rerun projects
- Targeted toward decision makers and business analysts

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