

Maximize



Visualization with the Right Devices from Lenovo

Importance of the Right Devices for the Right

White Paper





Big Data is increasingly becoming an integral part of technology deployment in most organizations. Mined efficiently, big data enables organizations to win over customers, drive competitive differentiation and pave the way for newer opportunities. Then what's keeping businesses from charging ahead and taking the lead? The answer is effective data interpretation and analysis to provide actionable recommendations.

While gathering the data is half the battle won, you have to be able to view all your data in a way that you can make sense of it. Acquiring the right skills for the job is your first step. An equally critical step is equipping these skilled employees – data scientists and analysts - with the right end computing devices to maximize the value of data visualization.

Click here to explore Lenovo's **Big Data Solutions**



Key Aspects of Data Visualization



Graphical Representations

2D or 3D representations of data, leverage the right frameworks to represent the data effectively.



Visual Story Telling

Sequential depiction of data to help see the larger picture with impact, next steps, and benefits.

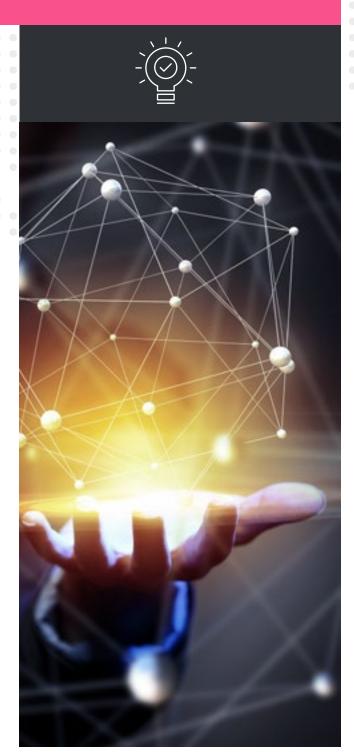


overview.

Assess Multitude of Data Sets To derive a holistic



The Role of End User Computing in Effective Visualization





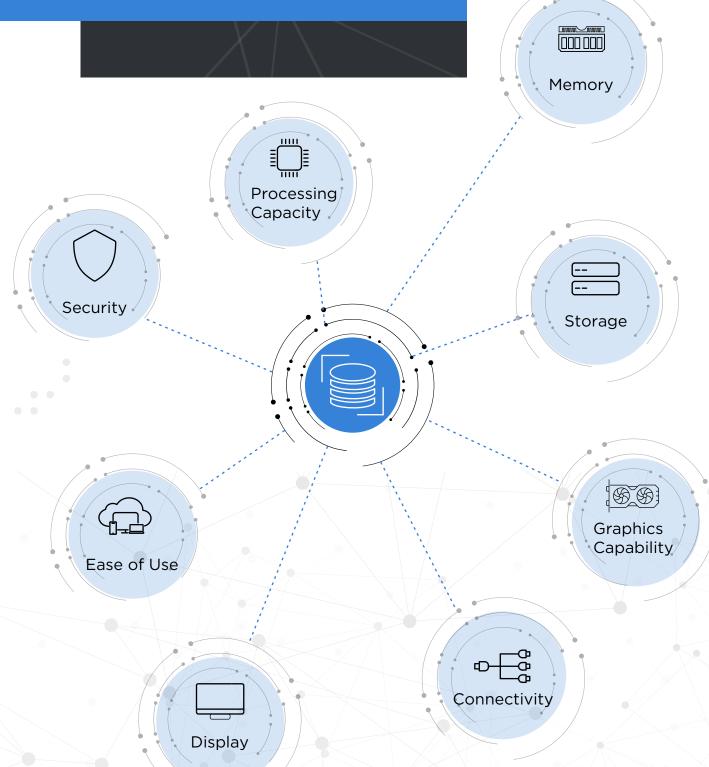
From the need to effectively visualize rapid prototyping to improving response times in healthcare to assessing the success of MOOC courses in education, data visualization can open up myriad opportunities for growth. But all this cannot be enabled without the right computing devices which offer the power to process large data sets along with the ability to run specialized visualization software.

Click here to explore Lenovo's Big Data Visualization Solutions

Powered by Intel®.
Intel Inside®.
Powerful Productivity Outside.

The Role of End User Computing in Effective Visualization

Attributes of a Good End User Computing Device for Data Visualization:



rocessing Capacity

Handling large volumes of data is no mean feat. End computing devices must not only have the capability to process such large volumes of data, but they must be able to do it fast. The ThinkCentre Tiny seems like a perfect fit in this scenario. With 8th **Generation Intel® Core™ vPro™ processors** and Intel® HD Graphics, the ThinkCentre Tiny can carry out intensive tasks like analyzing and visualizing big data much faster.

Attributes of a Good End **User Computing Device** for Data Visualization





To see your data as meaningful insights, you need to transform them into rich visuals like graphs and visuals. The end computing device that you choose must provide the graphics capabilities needed for effective visualization of big data. ThinkStation P series would easily fulfil this need. Featuring the latest Intel® Xeon® processors and NVIDIA® Quadro® graphics cards, ThinkStation P series workstations are just what you need.

Ultimate

Flexibility

to Customize

See the Bigger **Picture**

The ThinkCentre Tiny supports up to 3-4 independent displays in mosaic mode, ideal for data analysts to visualize big data and interpret it.

ThinkCentre Tiny

Click here to explore the complete range of End User **Computing Solutions from Lenovo**



Get the most out of your ThinkStation P series workstation with unique configurations supported by Lenovo's Fully Loaded Experience (FLEX) features. The FLEX mezzanine adapter allows a direct connection to the PCIe bus without taking up a traditional PCIe slot, there by saving you precious space to customize your workstation as you need.

ThinkStation P710

Display



Pair the reliable ThinkStation P series workstation or the ThinkCentre Tiny with a ThinkVision monitor for a superior, full HD experience. With up to 75% color gamut, 16.7M colors, and a 1000:1 contrast ratio, the ThinkVision monitor is an outstanding choice. It also has a low blue light function that reduces eye strain over long viewing periods.

A Display Like None Other

The ThinkCentre Tiny supports up to 3-4 independent displays in mosaic mode, ideal for data analysts to visualize big data and interpret it.

Wide-angle Screen

IPS displays clear, crisp images edge-to-edge with a tilt adjustable stand for comfortable viewing

Compact Space Saving Design With multiple Connectivity Options

Environment Friendly Certified 'green' monitors

Budget-friendly

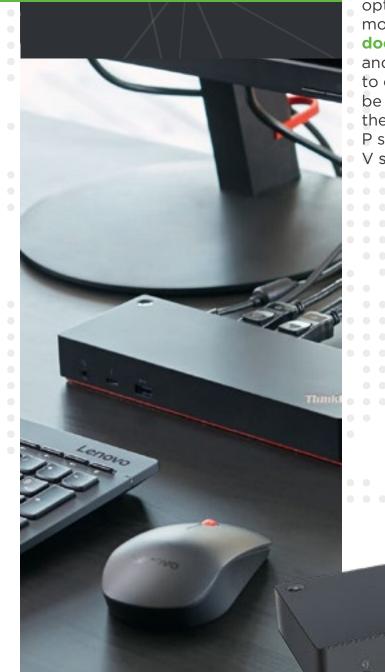
Graphic brilliance that's affordable

ThinkVision

Click here to explore the complete range of Monitors from Lenovo

Attributes of a Good End **User Computing Device** for Data Visualization





Big data is staggering and being able to visualize this data clearly and easily can help optimize productivity. End computing devices for analysts must be able to support multiple accessories that are required for data analysis. Additional ports like Intel® Thunderbolt™ port for fastest connection and docking options are a must for analysts to be more efficient. The ThinkPad Thunderbolt™ docking allows 3x faster processing and easy single cable docking option to charge multiple devices at once. It can be supported by a range of devices like the ThinkPad P series, ThinkStation P series, ThinkCentre Tiny and Lenovo V series devices.

Prepare to be **Thunderstruck**

With ThinkPad Thunderbolt™ docking station, experience dual 4k display, fast charging, peer to peer data transfer. Thunderbolt™ 3 moves massive files, images and video at speeds 8x faster than USB 3.0, accelerating data access and archiving of large files on your external Thunderbolt™ 3 storage.

> ThinkPad Thunderbolt™ 3 **Docking Station**







Big data needs big space. With the volumes of data we're talking about, it's easy to run out of space. The computing devices used by big data analysts need to be scalable as needed, to keep up with the constant data flow and analysis. The ThinkStation P series workstations come with the perfect storage solution

More HDD Without More Space

Lenovo's newly designed HDD tray for the ThinkStation P910 workstation supports both 2.5" and 3.5" hard drives. With one tray supporting up to two hard drives, you can add a staggering 14 drives on the ThinkStation P910.

ThinkStation P910



Click here to explore the complete range of Lenovo Solutions

Attributes of a Good End User Computing Device for Data Visualization



Working with big data requires a large memory capacity. Computing systems must be able to launch and run apps and select software essential for big data analysis. The ThinkPad P50 mobile workstation is a powerful performer with a high memory capacity. It's got a 64GB DDR4 memory capacity; equipped to handle any compute-intensive task, smoothly.



Ease of Use



Big data analysts use selected software for data analysis and interpretation that are not always supported by all devices. Lenovo ensures that its workstations are Independent Software Vendor (ISV) certified to support applications that analysts need. The ThinkPad P series workstations are ideal for such usage.

ISV Certified and Ready to Perform

The ThinkStation P series workstations and the ThinkPad P series mobile workstations are certified to support all major ISV applications, including Adobe, Autodesk, Avid, Dassault, PTC, Siemens and more.



ThinkPad P71

Powered by Intel®. Intel Inside®. Powerful Productivity Outside. Click here to explore the complete range of Lenovo Solutions

Attributes of a Good End User Computing Device for Data Visualization





With the massive amounts of data accumulating from various sources, it's hard to say when the next hacker is going to attack your big data. Collecting and storing data is just one side of the coin, the other side being protection of this data. Lenovo has a 360° approach to security which is a cohesive mesh of features and technologies that deliver maximum protection in a business PC.

Protected Devices and Workstations

ThinkPad devices - laptops, workstations and mobile workstations come with complete 360° security features. This includes industry-leading hardware security from Lenovo and identity protection and data security with Intel® Authenticate as well as Pro SSD Integration with Intel® Remote Secure Erase from Intel® Active Management **Technology (Intel® AMT).**



Services



Encryption Services

Hard drive encryption is essential to prevent unauthorized access to data sophisticated attacks.



Laser Tagging

A misplaced laptop can be costly. Help deter theft and increase brand recognition by having Lenovo laser etch as your laptop cover during manufacturing.



Having your IT manually apply asset tags to your organization's computers is a time-consuming and expensive process. However, Lenovo Asset Tagging reduces your costs by having Lenovo apply your asset tag during manufacturing.



First Boot Services

With Lenovo First Boot, automate the processes for any image type and move the activities into Lenovo manufacturing. As a result, you save time, resources, and costs right from the start.

Deployment Automation Services

Enabling organizations to Increase capacity through shifting specialized technical activities such as image design and delivery to hardware manufacturing.



Smart Image

Manage multiple images and drivers, as well as tackle driver installation issues with Lenovo's Smart Image that gives you compatibility across all Lenovo-based hardware platforms.





Click here to explore Lenovo's Services



Conclusion



Think Big Data. Think Lenovo.

Click here to explore the complete range of Lenovo Solutions





Conclusion



Think Big Data. Think Lenovo.

Click here to explore the complete range of Lenovo Solutions









reasons

why Lenovo is a difference maker



Trusted around the world



Expertise across categories



Choose Lenovo with confidence



Business-boosting technology



Flexible support network



Powered by Intel[®].
Intel Inside[®].
Powerful Productivity Outside.

Brand-Specific Trademark Acknowledgment Line

Intel, the Intel logo and Thunderbolt are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.