

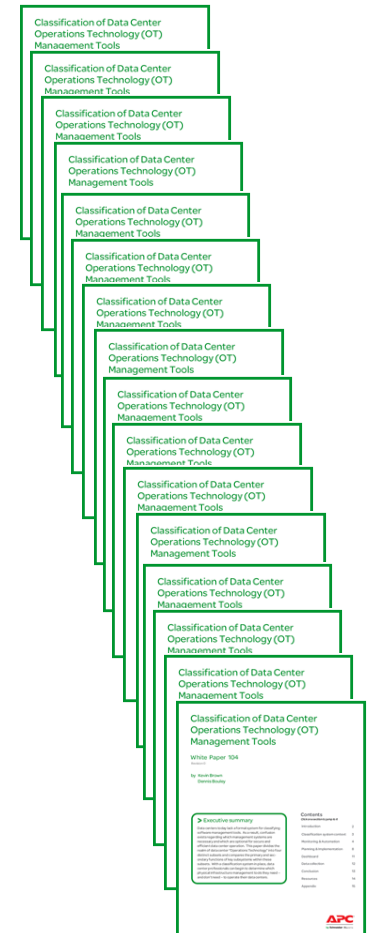
# White Paper Library Navigation Guide



# White Paper Categories

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- Data center planning papers
- Power fundamentals papers
- Cooling fundamentals papers
- Power best practices papers
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- **Hot topic:** energy efficiency papers



# Data Center Overview

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 WP 118 Virtualization: Optimized Power and Cooling to Maximize Benefits

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# Data Center Planning

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# Power Fundamentals

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 WP 15      Watts and Volt-Amps: Powerful Confusion

 WP 18      The Seven Types of Power Problems

 WP 127      A Quantitative Comparison of High Efficiency AC vs. DC Power Distribution for Data Centers

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# Cooling Fundamentals

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-  WP 25    Calculating Total Cooling Requirements for Data Centers
-  WP 55    Air Distribution Architecture Options for Mission Critical Facilities
-  WP 56    How and Why Mission-Critical Cooling Systems Differ From Common Air Conditioners
-  WP 57    Fundamental Principles of Air Conditioners for Information Technology
-  WP 59    The Different Types of Air Conditioning Equipment for IT Environments
-  WP 130    The Advantages of Row and Rack-Oriented Cooling Architectures for Data Centers

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# Power Best Practices

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 WP 29 Rack Powering Options for High Density

 WP 128 High-Efficiency AC Power Distribution for Green Data Centers

 WP 129 A Scalable, Reconfigurable, and Efficient Data Center Power Distribution Architecture

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# Cooling Best Practices

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-  WP 49    Avoidable Mistakes that Compromise Cooling Performance in Data Centers and Network Room
  
-  WP 68    Cooling Strategies for IT Wiring Closets and Small Rooms
  
-  WP 135    Hot-Aisle vs. Cold-Aisle Containment for Data Centers
  
-  WP 137    Energy Efficient Cooling for Data Centers: A Close-Coupled Row Solution
  
-  WP 139    Cooling Entire Data Centers Using Only Row Cooling

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# Management Best Practices

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 WP 102 Monitoring Physical Threats in the Data Center

 WP 103 How Monitoring Systems Reduce Human Error in Distributed Server Rooms and Wiring Closets

 WP 104 Classification of Data Center Operations Technology (OT) Management Tools

 WP 150 Power and Cooling Capacity Management for Data Centers

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# Hot Topic: High Density

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## *Recommended white papers:*

-  WP 42 Ten Steps to Solving Cooling Problems Caused by High Density Server Deployment
-  WP 46 Power and Cooling for Ultra High Density Racks and Blade Servers
-  WP 72 Five Basic Steps for Efficient Space Organization High Density Enclosures
-  WP 123 Impact of High Density Hot Aisles on IT Personnel Work Conditions
-  WP 134 Deploying High Density Zones in a Low Density Data Center

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# Hot Topic: Energy Efficiency

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## *Recommended white papers:*

 WP 66 Estimating a Data Center's Electrical Carbon Footprint

 WP 114 Implementing Energy Efficient Data Centers

 WP 126 An Improved Architecture for High Efficiency, High Density Data Centers

 WP 154 Electrical Efficiency Measurement for Data Centers

 WP 158 Guidance for Calculation of Efficiency (PUE) in Data Centers

 WP 161 Allocating Data Center Energy Costs and Carbon to IT Users

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