



## **Server and Storage Standards Listing**

**Ecodesign Technical Assistance Study on Standards  
for Enterprise Servers and Enterprise Data Storage**

Document title: Server and Storage Standards Listing

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## Server Standards

Parameter	Source	Reference Test Method / Title	Notes
Active State Energy Efficiency (incorporating Idle State and Energy proportional design / Dynamic Range considerations)	SPEC	Server Efficiency Rating Tool (SERT) V1.1.1	<p>Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz)</p> <p>Metrics can be developed based upon SERT tool results. Examples include:</p> <ul style="list-style-type: none"> <li>ENERGY STAR Program Requirements for Computer Servers v2.0/v3.0</li> <li>"White Paper: Investigation of potential approaches to energy efficiency metrics for enterprise servers, based upon the SERT rating tool" developed for EC contract No 419/PP/ENT/IMA/14/11931A - Ecodesign Technical Assistance Study For "DG ENTR Lot 9"</li> </ul>
Power Supply Efficiency	EPRI and Ecova	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7	<p>Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz)</p> <p>Initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>80 Plus programme (EPRI and Ecova)</li> <li>Ecodesign Regulation (EU) No.617/2013</li> </ul>
Power Supply Power Factor	EPRI and Ecova	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7	<p>Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz)</p> <p>Initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>80 Plus programme (EPRI and Ecova)</li> </ul>

Parameter	Source	Reference Test Method / Title	Notes
			<ul style="list-style-type: none"> <li>Ecodesign Regulation (EU) No.617/2013</li> </ul>
Operating temperature		Not available	<p>There are no specific test methods for testing this aspect in relation to the operation of a product, but a method for measuring temperatures during testing is provided in:</p> <ul style="list-style-type: none"> <li>CENELEC EN 50564:2011 Electrical and electronic household and office equipment. Measurement of low power consumption</li> </ul> <p>In addition, initiatives specifying potential ranges for this parameter in the context of a data centre include:</p> <ul style="list-style-type: none"> <li>American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) Thermal Guidelines for Data Processing Environments, 3rd Edition, in Table 2.3 specify different conditions for data centre operation.</li> </ul>
Operating humidity		Not available	<p>There are no specific test methods for testing this aspect in relation to the operation of a product, but initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) Thermal Guidelines for Data Processing Environments, 3rd Edition, in Table 2.3 specify different conditions for data centre operation.</li> </ul>
Acoustic noise	ECMA	Standard ECMA-74 Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment 13th edition (June 2015)	<p>Initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal</li> </ul>

Parameter	Source	Reference Test Method / Title	Notes
			computers
Secure deletion of data	CESG	HMG IA Standard No. 5 - Secure Sanitisation Version 5.0	<p>Initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>• CPA Security Characteristics for Data Sanitisation - Flash Based Storage</li> <li>• CPA Security Characteristic Overwriting Tools for Magnetic Media Version 2.1</li> <li>• CAS Sanitisation Requirements Version 2.0 Nov 2014</li> </ul>
Removability of external enclosures/casings to increase material recovery rate		Not available	<p>There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive)</li> <li>• Article 15: Information for treatment facilities" requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> </ul>

Parameter	Source	Reference Test Method / Title	Notes
			<ul style="list-style-type: none"> <li>• IEEE 1680.1 Computers</li> </ul>
Removability of printed circuit boards (including main boards and memory cards), processors, data storage devices (such as HDD or SSD) and batteries		Not available	There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include: <ul style="list-style-type: none"> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive)</li> <li>• Article 15: Information for treatment facilities" requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> <li>• IEEE 1680.1 Computers</li> </ul>
Ease of dismantling, reuse and recycling at the end-of-life of the product.		Not available	The closest solution to a test procedure for design for recyclability is contained in <ul style="list-style-type: none"> <li>• European Commission: COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul> There are no specific test methods for the other

Parameter	Source	Reference Test Method / Title	Notes
			<p>aspects, but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• PAS 141:2011 - Reuse of used and waste electrical and electronic equipment (UEEE and WEEE) – Process management – Specification</li> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive) Article 15: Information for treatment facilities</li> <li>• Article 15: Information for treatment facilities” requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> <li>• IEEE 1680.1 Computers</li> </ul>
Critical raw material (CRM) content		Not available	<p>There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• Draft NSF 426 Servers</li> </ul>

Parameter	Source	Reference Test Method / Title	Notes
Postconsumer recycled content of CRM		Not available	No test methods or initiatives specifying requirements for this parameter were identified.
Firmware availability and compatibility		Not available	No test methods or initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>Draft NSF 426 Servers</li> </ul>
Restriction of Substances of Very High Concern (SVHCs)	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Restrictions on the presence of specific hazardous substances	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Restrictions based on CLP hazard classifications	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Data storage drive reliability and protection	Telcordia	SR-332 - Reliability Prediction Procedure for Electronic Equipment	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the</li> </ul>



Parameter	Source	Reference Test Method / Title	Notes
			award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)

## Storage Standards

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Active State Energy Efficiency (incorporating Idle State and Energy proportional design / Dynamic Range considerations)	SNIA	SNIA Emerald™ Power Efficiency Measurement Specification Version 2.0.2: Section 7.3 General Requirements and Definitions and Section 7.4.3: Active Test	Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz)
Power Supply Efficiency	EPRI and Ecova	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7	Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz) Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>80 Plus programme (EPRI and Ecova)</li> <li>Ecodesign Regulation (EU) No.617/2013</li> </ul>
Power Supply Power Factor	EPRI and Ecova	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7	Testing should be conducted at an appropriate EU voltage and frequency (e.g. 230v, 50Hz) Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>80 Plus programme (EPRI and Ecova)</li> <li>Ecodesign Regulation (EU) No.617/2013</li> </ul>
Capacity Optimizing Methods (COMs)	US EPA and SNIA	US EPA ENERGY STAR v1.0 specification for data centre storage and SNIA Emerald™ Power Efficiency Measurement Specification Version 2.0.2: Section 7.4.5 Capacity Optimization Test	
Operating temperature		Not available	There are no specific test methods for testing this aspect in relation to the operation of a

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			<p>product, but a method for measuring temperatures during testing is provided in:</p> <ul style="list-style-type: none"> <li>CENELEC EN 50564:2011 Electrical and electronic household and office equipment. Measurement of low power consumption</li> </ul> <p>In addition, initiatives specifying potential ranges for this parameter in the context of a data centre include:</p> <ul style="list-style-type: none"> <li>American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) Thermal Guidelines for Data Processing Environments, 3rd Edition, in Table 2.3 specify different conditions for data centre operation.</li> </ul>
Operating humidity		Not available	<p>There are no specific test methods for testing this aspect, but initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) Thermal Guidelines for Data Processing Environments, 3rd Edition, in Table 2.3 specify different conditions for data centre operation.</li> </ul>
Acoustic noise	ECMA	Standard ECMA-74 Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment 13th edition (June 2015)	<p>Initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> </ul>
Secure deletion of data	CESG	HMG IA Standard No. 5 - Secure Sanitisation Version 5.0	<p>Initiatives specifying requirements for this parameter include:</p> <ul style="list-style-type: none"> <li>CPA Security Characteristics for Data</li> </ul>

Parameter	Source	Reference/Title	Notes
			<p>Sanitisation - Flash Based Storage</p> <ul style="list-style-type: none"> <li>• CPA Security Characteristic Overwriting Tools for Magnetic Media Version 2.1</li> <li>• CAS Sanitisation Requirements Version 2.0 Nov 2014</li> </ul>
<p>Removability of external enclosures/casings to increase material recovery rate</p>		<p>Not available</p>	<p>There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive)</li> <li>• Article 15: Information for treatment facilities" requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> <li>• IEEE 1680.1 Computers</li> </ul>
<p>Removability of printed circuit boards (including main boards and memory cards), processors, data storage devices (such as HDD or SSD) and</p>		<p>Not available</p>	<p>There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include:</p>

Parameter	Source	Reference/Title	Notes
batteries			<ul style="list-style-type: none"> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive)</li> <li>• Article 15: Information for treatment facilities" requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> <li>• IEEE 1680.1 Computers</li> </ul>
Ease of dismantling, reuse and recycling at the end-of-life of the product.		Not available	<p>The closest solution to a test procedure for design for recyclability is contained in</p> <ul style="list-style-type: none"> <li>• European Commission: COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul> <p>There are no specific test methods for the other aspects, but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• PAS 141:2011 - Reuse of used and waste electrical and electronic equipment (UEEE and WEEE) – Process management –</li> </ul>

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			<p>Specification</p> <ul style="list-style-type: none"> <li>• COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers</li> <li>• COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> <li>• European Community Directive (2012/19/EU) - The Waste Electrical and Electronic Equipment Directive (WEEE Directive) Article 15: Information for treatment facilities</li> <li>• Article 15: Information for treatment facilities" requirements of the EU WEEE Directive (2012/19/EU).</li> <li>• Draft NSF 426 Servers</li> <li>• IEEE 1680.1 Computers</li> </ul>
Critical raw material (CRM) content		Not available	<p>There are no specific test methods for testing this aspect but initiatives specifying requirements for this parameter for ICT equipment include:</p> <ul style="list-style-type: none"> <li>• Draft NSF 426 Servers</li> </ul>
Postconsumer recycled content of CRM		Not available	No initiatives specifying requirements for this parameter were identified.
Firmware availability and compatibility		Not available	Initiatives specifying requirements for this

Parameter	Source	Reference/Title	Notes
			parameter include: <ul style="list-style-type: none"> <li>Draft NSF 426 Servers</li> </ul>
Restriction of Substances of Very High Concern (SVHCs)	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Restrictions on the presence of specific hazardous substances	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Restrictions based on CLP hazard classifications	CENELEC	EN 62321 - Determination of certain substances in electrotechnical products	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>
Data storage drive reliability and protection	Telcordia	SR-332 - Reliability Prediction Procedure for Electronic Equipment	Initiatives specifying requirements for this parameter include: <ul style="list-style-type: none"> <li>COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers (January 2016)</li> </ul>

## References

Organisation	Programme	URL(s)
American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE)	American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) Thermal Guidelines for Data Processing Environments, 3rd Edition, in Table 2.3	<a href="https://www.ashrae.org/resources--publications/bookstore/datacom-series">https://www.ashrae.org/resources--publications/bookstore/datacom-series</a>
British Standards Institute (BSI)	PAS 141:2011 - Reuse of used and waste electrical and electronic equipment (UEEE and WEEE) – Process management – Specification	<a href="http://shop.bsigroup.com/en/ProductDetail/?pid=0000000030245346">http://shop.bsigroup.com/en/ProductDetail/?pid=0000000030245346</a>
CENELEC	EN 50564:2011 Electrical and electronic household and office equipment. Measurement of low power consumption	<a href="http://shop.bsigroup.com/ProductDetail/?pid=0000000030192768">http://shop.bsigroup.com/ProductDetail/?pid=0000000030192768</a>
CENELEC	Mandate 545 - Commission Implementing Decision on a standardisation request to the European standardisation organisations as regards computers and computer servers in support of the implementation of Commission Regulation (EU) No 617/2013 of 26 June 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	<a href="http://ec.europa.eu/growth/tools-databases/mandates/index.cfm?fuseaction=search_detail&amp;id=566">http://ec.europa.eu/growth/tools-databases/mandates/index.cfm?fuseaction=search_detail&amp;id=566</a>
CENELEC	EN 62321-1:2013 Determination of certain substances in electrotechnical products. Introduction and overview	<a href="http://shop.bsigroup.com/ProductDetail/?pid=0000000030229131">http://shop.bsigroup.com/ProductDetail/?pid=0000000030229131</a>
Communications-Electronics Security Group	CPA Security Characteristics for Data Sanitisation -	<a href="https://www.cesg.gov.uk/.../data_sanitisation_flash">https://www.cesg.gov.uk/.../data_sanitisation_flash</a>

(CESG)	Flash Based Storage	<a href="#">_based_storage.pdf</a>
Communications-Electronics Security Group (CESG)	CAS Sanitisation Requirements Version 2.0 Nov 2014	<a href="https://www.cesg.gov.uk/publications/Documents/cas_sanitisation_service_requirement.pdf">https://www.cesg.gov.uk/publications/Documents/cas_sanitisation_service_requirement.pdf</a>
Communications-Electronics Security Group (CESG)	CPA Security Characteristic Overwriting Tools for Magnetic Media Version 2.1	<a href="https://www.cesg.gov.uk/content/files/protected_files/document_files/CPA%20SC%20Overwriting%20Tools%20for%20Magnetic%20Media%20v2-1.pdf">https://www.cesg.gov.uk/content/files/protected_files/document_files/CPA%20SC%20Overwriting%20Tools%20for%20Magnetic%20Media%20v2-1.pdf</a>
Communications-Electronics Security Group (CESG)	HMG IA Standard No. 5 - Secure Sanitisation Version 5.0	<a href="http://www.cesg.gov.uk/aboutus/contactus/Pages/index.aspx">http://www.cesg.gov.uk/aboutus/contactus/Pages/index.aspx</a>
ECMA	Standard ECMA-74 Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment 13th edition (June 2015)	<a href="http://www.ecma-international.org/publications/standards/Ecma-074.htm">http://www.ecma-international.org/publications/standards/Ecma-074.htm</a>
ECMA	ECMA 370: 5th Edition / June 2015 - TED THE ECO DECLARATION	<a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>
Ecova	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.7	<a href="http://www.plugloadsolutions.com/80PlusPowerSupplies.aspx">http://www.plugloadsolutions.com/80PlusPowerSupplies.aspx</a>
European Commission (EC)	Waste Electrical and Electronic Equipment Directive (WEEE)	<a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a>
European Commission (EC)	European Rare Earths Competency Network (ERECON)	<a href="http://ec.europa.eu/growth/sectors/raw-materials/specific-interest/erecon/index_en.htm">http://ec.europa.eu/growth/sectors/raw-materials/specific-interest/erecon/index_en.htm</a>
European Commission (EC)	Raw Materials Initiative	<a href="http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=C:520">http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=C:520</a>



European Commission (EC)	COMMISSION DECISION of 9 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel for personal computers	<a href="http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32011D0337&amp;from=EN">http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32011D0337&amp;from=EN</a>
European Commission (EC)	COMMISSION DECISION of XXX establishing the ecological criteria for the award of the EU Ecolabel for personal, notebook and tablet computers Date: 22 Jan 2016	<a href="http://ec.europa.eu/transparency/regcomitology/index.cfm?do=search.documentdetail&amp;GhBtyQRBEE CxQIbXLck+VK7dtxVGV2+ZcjrWVPNcE3IjYPYKb9Q5I4ombI50qVxG">http://ec.europa.eu/transparency/regcomitology/index.cfm?do=search.documentdetail&amp;GhBtyQRBEE CxQIbXLck+VK7dtxVGV2+ZcjrWVPNcE3IjYPYKb9Q5I4ombI50qVxG</a>
International Standards Organisation (ISO)	ISO/IEC JTC 1/SC 39 - Sustainability for and by Information Technology	<a href="http://www.iso.org/iso/home/store/catalogue_tc/catalogue_tc_browse.htm?comid=654019&amp;development=on">http://www.iso.org/iso/home/store/catalogue_tc/catalogue_tc_browse.htm?comid=654019&amp;development=on</a>
Standard Performance Evaluation Corporation (SPEC)	Server Efficiency Rating Tool (SERT)	<a href="https://www.spec.org/sert/">https://www.spec.org/sert/</a>
Telcordia	SR-332 Reliability Prediction Procedure for Electronic Equipment	<a href="http://telecom-info.telcordia.com/site-cgi/ido/docs.cgi?ID=SEARCH&amp;DOCUMENT=SR-332&amp;#ORD">http://telecom-info.telcordia.com/site-cgi/ido/docs.cgi?ID=SEARCH&amp;DOCUMENT=SR-332&amp;#ORD</a>
US Environmental Protection Agency (EPA)	ENERGY STAR Enterprise Servers Specification Version 2.0	<a href="https://www.energystar.gov/products/spec/enterprise_servers_specification_version_2_0_pd">https://www.energystar.gov/products/spec/enterprise_servers_specification_version_2_0_pd</a>