

99037003058000

Online-Zeitsynchronisation von entfernten Rechneruhren Durchführung

Heruntergeladen am 27.06.2025

<https://fimportal.de/xzufi-services/576809/B100019>

Modul	Sachverhalt
Leistungsschlüssel	99037003058000
Leistungsbezeichnung I	Online-Zeitsynchronisation von entfernten Rechneruhren Durchführung
Leistungsbezeichnung II	Perform time synchronization of computers
Typisierung	1 - Bund: Regelung und Vollzug
Quellredaktion	Bund
Freigabestatus Katalog	fachlich freigegeben (gold)
Freigabestatus Bibliothek	unbestimmter Freigabestatus
Begriffe im Kontext	
Leistungstyp	Leistungsobjekt mit Verrichtung
Leistungsgruppierung	
Verrichtungskennung	Durchführung (58)
SDG-Informationsbereich	nicht SDG-relevant

Modul	Sachverhalt
Lagen Portalverbund	Anlagenbetrieb und -prüfung (2120100)
Einheitlicher Ansprechpartner	Nein
Fachlich freigegeben am	11.10.2017
Fachlich freigegeben durch	Federal Ministry for Economic Affairs and Energy
Handlungsgrundlage	https://www.gesetze-im-internet.de/me_einhg/
Teaser	
Volltext	If you want to set the clock of your computer or your mobile device exactly, you can use a service of the Physikalisch-Technische Bundesanstalt (PTB) which enables time synchronization via the Internet. Often, you need to indicate the exact time in official traffic and business transactions via the Internet. However, most computer clocks run inaccurately. If you need the exact time on your computer, it is necessary to adjust the computer clock regularly. For the time synchronization of your computer, you can use the services of the PTB. For the time synchronization, 3 time servers are at your disposal whose clocks are directly synchronized by the atomic clocks of the PTB. Central European Time (CET) or Central European Summer Time (CEST) is the legally valid time in the Federal Republic of Germany. The servers of PTB use the so-called "Network Time Protocol" (NTP) to transmit the time information. With this protocol, the clocks of computers, mobile devices or network components can be synchronized. For this purpose, programs are required which support the NTP. Such programs are available for all common operating systems. After installing such a program, you need to specify one or more of the following addresses: • ptbtime1.ptb.com • ptbtime2.ptb.de • ptbtime3.ptb.de.

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	Depending on the runtimes in the network connections, accuracies of one to ten milliseconds can be achieved.
Erforderliche Unterlagen	none
Voraussetzungen	none
Kosten	none
Verfahrensablauf	To synchronize the time of your computer, you must first install a program on your computer. • The programs are available for all common operating systems. • After installing the program, add the addresses of the NTP server to it. • One or more of the following addresses must be entered: ptbtime1.ptb.en ptbtime2.ptb.de ptbtime3.ptb.de • The synchronization of your computer clock is done automatically
Bearbeitungsdauer	none
Frist	none
weiterführende Informationen	https://www.ptb.de/cms/ptb/fachabteilungen/abtq/fb-q4/ag-q42/zeitsynchronisation-von-rechnern-mit-hilfe-des-network-time-protocol-ntp.html https://www.nist.gov/pml/time-and-frequency-division/time-services/publishers-time-and-frequency-software
Hinweise	The PTB accepts no liability for damage caused by a failure of the PTB's time service, as a result of faulty transmission by the PTB's time servers or as a result of deviations caused by delays on the Internet at the users.
Rechtsbehelf	
Kurztext	• Online time synchronization of remote computer clocks • If the exact time is required on the computer, a regular adjustment of the computer clock (time synchronization) is necessary.

Modul	Sachverhalt
	• The Physikalisch-Technische Bundesanstalt (PTB) offers a service for the time synchronization of computers via the Internet. • A program must be installed which supports the network time protocol. • The program is used to synchronize the time. • Responsible: Physikalisch-Technische Bundesanstalt (PTB).
Ansprechpunkt	
Zuständige Stelle	
Formulare	Forms: none Online procedure possible: yes Written form required: no Personal appearance required: no
Ursprungsportal	Online-Zeitsynchronisation von entfernten Rechneruhren Durchführung, Online-Zeitsynchronisation von entfernten Rechneruhren Durchführung