

Reasons why Full Synchronization may start

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StarWind Documents



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About StarWind

StarWind is a pioneer in virtualization and a company that participated in the development of this technology from its earliest days. Now the company is among the leading vendors of software and hardware hyper-converged solutions. The company's core product is the years-proven StarWind Virtual SAN, which allows SMB and ROBO to benefit from cost-efficient hyperconverged IT infrastructure. Having earned a reputation of reliability, StarWind created a hardware product line and is actively tapping into hyperconverged and storage appliances market. In 2016, Gartner named StarWind “Cool Vendor for Compute Platforms” following the success and popularity of StarWind HyperConverged Appliance. StarWind partners with world-known companies: Microsoft, VMware, Veeam, Intel, Dell, Mellanox, Citrix, Western Digital, etc.

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Content

Full synchronization starts instead of Fast in the following cases*:








- If HA device was configured to use write-back cache and its flush did not complete correctly upon StarWind service restart, or one of the servers was turned off not correctly (i.e. hard reset, power outage, service interruption etc);
- If the errors were detected during the writes on the disk;
- If partner, that should be the source of synchronization has the state other than "Synchronized";
- If initial synchronization was interrupted due to any reason;
- If the Partner that should be the source of synchronization gained "Synchronized" state after initiating "Mark as synchronized" command;
- If StarWind service was turned off on all servers. Such case could be avoided by configuring disk-based synchronization journal:
<https://knowledgebase.starwindsoftware.com/maintenance/how-to-change-synchronization-journal-for-starwind-ha-devices/>

Synchronization will not start automatically if the errors were detected during the writes on the disk. **The options above apply to *.img based HA devices only.* In order to avoid Full synchronization when each server with HA devices should be turned off (for maintenance, scheduled power outage, etc.), the Maintenance mode feature can be used. More information about the Maintenance mode can be found in this [guide](#).

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Contacts

US Headquarters	EMEA and APAC
 +1 617 829 44 95	 +44 2037 691 857 (United Kingdom)
 +1 617 507 58 45	 +49 800 100 68 26 (Germany)
 +1 866 790 26 46	 +34 629 03 07 17 (Spain and Portugal)
	 +33 788 60 30 06 (France)

Customer Support Portal: <https://www.starwind.com/support>

Support Forum: <https://www.starwind.com/forums>

Sales: sales@starwind.com

General Information: info@starwind.com



StarWind Software, Inc. 100 Cummings Center Suite 224-C Beverly MA 01915, USA
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