



Cisco BTS 10200 Softswitch Shared-Memory Synchronization Feature Module

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This document describes the Shared-Memory Synchronization feature for Release 6.0 of the Cisco BTS 10200 Softswitch and explains how to use it.

Understanding the Shared-Memory Synchronization Feature

Prior to the Shared-Memory Synchronization feature implementation, the data contained in the shared memory (provisioned and dynamic data) of the Cisco BTS 10200 network elements (CA, FS, and so forth) was not periodically written reliably to disk. Because of this, if a power outage occurred and the power was restored, the Cisco BTS 10200 network could come back up on stale data. This could result in loss of service at a customer site, due to loss of provisioned data. Previously, synchronization occurred only at the time of manual platform shutdown.

The Cisco BTS 10200 Shared-Memory Synchronization (SMS) feature adds a periodic synchronization of the shared memory to the disk. If a power cycle happens, the loss of data is limited to the changes since the last sync.

The Shared-Memory Synchronization feature provides the ability to periodically perform a sync of the shared memory to disk at a pre-determined interval. After a power failure, the system will automatically come back up with data from the last sync minimizing data loss.



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Troubleshooting

This section explains how to troubleshoot the following conditions:

- [Periodic Shared Memory Sync Started—Maintenance \(124\)](#)
- [Periodic Shared Memory Sync Completed—Maintenance \(125\)](#)
- [Periodic Shared Memory Sync Failure—Maintenance \(126\)](#)

Periodic Shared Memory Sync Started—Maintenance (124)

The Periodic Shared Memory Sync Started event serves as an information alert that a periodic shared-memory synchronization has successfully started on the Cisco BTS 10200 system. The customer should monitor the Cisco BTS 10200 system for the successful completion of the periodic shared-memory synchronization as indicated by the Periodic Shared Memory Sync Completed event.

Periodic Shared Memory Sync Completed—Maintenance (125)

The Periodic Shared Memory Sync Completed event serves as an informational alert that a periodic shared-memory synchronization to disk has been successfully completed. No customer action is required when the periodic shared-memory synchronization is successfully completed by the Cisco BTS 10200 system.

Periodic Shared Memory Sync Failure—Maintenance (126)

The Periodic Shared Memory Sync Failure alarm (critical) indicates that the periodic shared-memory synchronization write to disk has failed. To troubleshoot and correct the cause of the Periodic Shared Memory Sync Failure alarm, check the Cisco BTS 10200 system for the cause of the failure, correct it, and then verify that the next periodic shared-memory synchronization to disk is successfully completed by monitoring the Cisco BTS 10200 system for a Periodic Shared Memory Sync Completed informational event.

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