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SIP Server HA Deployment Guide

IP Address Takeover HA Workflows

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IP Address Takeover HA Workflows

The **HA Configuration with One NIC** figure shows an IP Address Takeover configuration prior to a switchover:

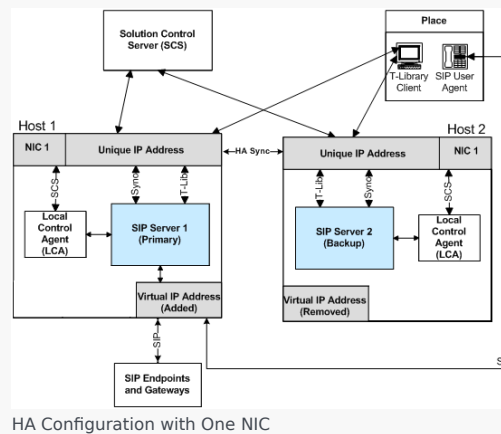
State Prior to Switchover

- SIP Server 1 is in primary mode.
- SIP Server 2 is in backup mode.
- The Virtual IP address at the primary SIP Server (SIP Server 1) is enabled.
- The Virtual IP address at the backup SIP Server (SIP Server 2) is disabled.

State After a Switchover

To see what happens in different scenarios, see the following:

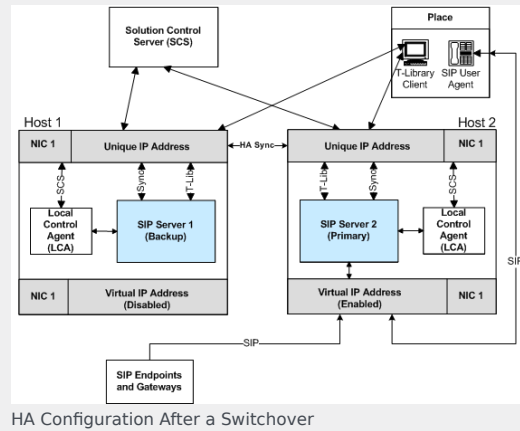
- [Manual-Switchover Workflow](#)
- [Primary Server-Failure Workflow](#)
- [Primary Server-Disconnected Workflow](#)



Manual-Switchover Workflow

The following steps describe a primary to backup-switchover workflow for a IP Address Takeover configuration (the **HA Configuration After a Switchover** figure represents the end state of the workflow):

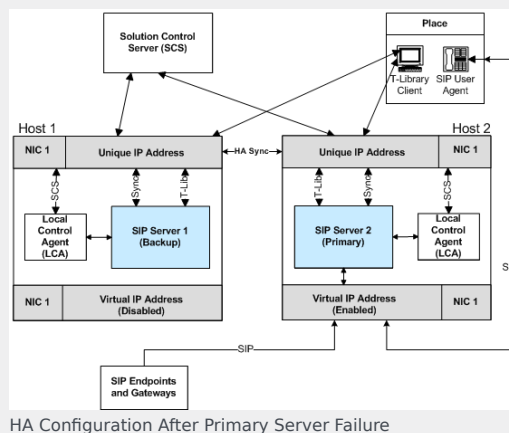
1. The switchover is initiated manually from the Solution Control Interface (SCI).
2. Through LCA, the SCS instructs the primary SIP Server (SIP Server 1) to go into backup mode.
3. Through LCA, the SCS instructs the backup SIP Server (SIP Server 2) to go into primary mode.
4. Each SIP Server instructs LCA to launch the Virtual IP address control script on its own host.
5. The Virtual IP address control scripts disable the Virtual IP address on the SIP Server 1 host (Host 1) and enable the Virtual IP address on the SIP Server 2 host (Host 2).



Primary Server-Failure Workflow

The following steps describe a primary server-failure workflow for an IP Address Takeover configuration (the **HA Configuration After Primary Server Failure** figure represents the end state of the workflow):

1. The primary SIP Server (SIP Server 1) fails.
2. LCA detects the primary SIP Server failure and reports it to the SCS.
3. Through LCA, the SCS instructs the backup SIP Server (SIP Server 2) to go into primary mode.
4. Each SIP Server instructs LCA to launch the Virtual IP address control script on its own host.
5. The Virtual IP address control scripts disable the Virtual IP address on the SIP Server 1 host (Host 1) and enable the Virtual IP address on the SIP Server 2

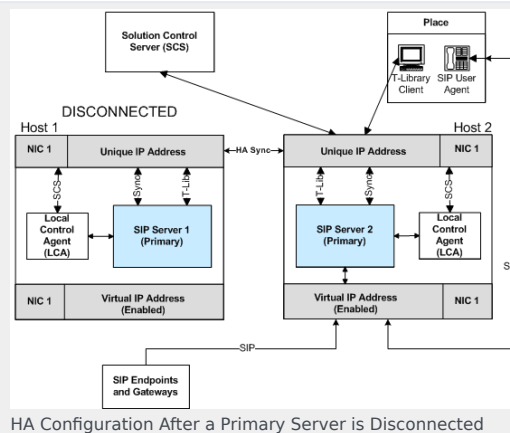


host (Host 2).

Primary Server-Disconnected Workflow

The following steps describe a primary server-disconnected workflow for an IP Address Takeover configuration (the **HA Configuration After a Primary Server is Disconnected** figure represents the end state of the workflow):

1. The SCS detects that the connection to the primary SIP Server host (Host 1) has been lost.
2. Through LCA, the SCS instructs the backup SIP Server (SIP Server 2) to go into primary mode.
3. Each SIP Server instructs LCA to launch the Virtual IP address control script on its own host.



Because SIP Server 1 is disconnected, the script that disables the Virtual IP address on Host 1 cannot be run. When the connection to SIP Server 1 has been restored, the following workflow will occur (not represented in the **HA Configuration After a Primary Server is Disconnected** figure above):

1. The SCS detects that the connection to the SIP Server 1 host has been restored.
2. The SCS discovers that both SIP Servers are running in primary mode.
3. Through LCA, the SCS instructs SIP Server 1, whose connection was just restored, to go into backup mode.
4. SIP Server 1 instructs LCA to launch the Virtual IP address control script on its own host.
5. The Virtual IP address control script runs on the SIP Server 1 host and disables the Virtual IP address.

