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GUIDE

# MiVoice MX-ONE

## Surveillance Observation and Monitoring using SIP Proxy - Operational Directions

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The Surveillance, Observation and Monitoring (SOM) using SIP proxy feature provides a function for monitoring of traffic in the system from a central monitoring server. The monitoring server is added as a free server in the MiVoice MX-ONE system without making it a LIM. The SOM functionality using SIP proxy is software-based unlike the legacy SOM, which works on TDM Trunk Lines. The SOM using SIP proxy functionality is controlled by a port-level license. One license is used for every media server instance.

The monitoring server will have a media server instance and a stateless SIP proxy running on it. The media server will handle the redirection of RTP streams between endpoints. The stateless SIP proxy is used to receive meta-data information of the calls so that this information can be mapped to the media streams.

After the function is enabled, MiVoice MX-ONE will treat all the calls in the system as gateway calls and redirect the media traffic through the media server. The MiVoice MX-ONE also generates a SIP call through the SIP proxy running on the monitoring server. This SIP call contains the meta-data required to capture the call and generate call data records. The meta-data contains the call information along with the port numbers on media server where the RTP streams will be captured.

The administration of the surveillance function, that is, enabling, disabling, and configuring the proxy address, is done using a UNIX-based command.

# Prerequisites

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A port-level license is required to enable the "SOM using SIP proxy" feature. A license tag is used for each LIM configured.

A PC-client with a Unix shell is needed for control and configuration of the exchange.

# Procedure

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To initiate SOM using SIP proxy:

1. Start Stateless Proxy
2. Load Regional Program Unit
3. Configure Proxy Address

To remove SOM using SIP proxy:

1. Remove Regional Program Unit
2. Stop Stateless Proxy

To check the configuration:

1. Check Proxy Address
2. Check Regional Program Unit Status

This chapter contains the following sections:

- [Initiation of SOM using SIP Proxy](#)
- [Removal of SOM using SIP Proxy](#)
- [Check Configuration](#)

## 5.1 Initiation of SOM using SIP Proxy

1. Log in to the monitoring server terminal and start the stateless SIP proxy to run as a background service. Enable the service to start automatically on system startup by entering the following commands:

```
systemctl start ms_stateless_proxy
```

```
systemctl enable ms_stateless_proxy
```

2. Log in to the master LIM terminal and load the program unit SOMLP on all the LIMs by entering the following command:

```
pu_add -unit SOMLP
```

**Note:**

The SOMLP program unit should be loaded in all the LIMs.

3. Log in to the master LIM terminal and configure the proxy address for all the LIMs by entering the following command:

```
som_proxy -i --lim 1 --ip-address 10.211.19.115 --port 5092
```



## 5.2 Removal of SOM using SIP Proxy

1. Log in to the monitoring server terminal and stop the stateless SIP proxy to run as a background service. Disable the service to start automatically on system startup by entering the following commands:

```
systemctl stop ms_stateless_proxy
```

```
systemctl disable ms_stateless_proxy
```

2. Log in to the master LIM terminal and remove the program unit SOMLP from all the LIMs by entering the following command:

```
pu_remove -unit SOMLP
```

## 5.3 Check Configuration

1. Log in to the monitoring server terminal and check the status of stateless sip proxy by entering the following command:

```
systemctl status ms_stateless_proxy
```

2. Log in to the master LIM and check the status of the program unit SOMLP by entering the following commands:

```
pu_info -unit SOMLP
```

```
pu_info -unit SOMLP -lim 1 (particular lim)
```

3. Log in to the master LIM terminal and check the proxy address configuration for all the LIMs by entering the following command:

```
som_proxy -p
```

If exchange data have been altered and no more commands are to be keyed, create a dump to the backup media.

