

Change Preferred Role in Active-Active Geographical Redundancy

Ericsson Service-Aware Policy Controller

OPERATING INSTRUCTION

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1 Description

This instruction describes how to change the Preferred cluster in Geographical redundancy environment in the SAPC. The preferred cluster change is useful when there are situations that cause both SAPCs not to be synchronized, and the SAPC configured as non-preferred (`preferred=false`) is selected to be the SAPC how remains the whole database information.

1.1 Prerequisites

This section provides information of the prerequisites which must be fulfilled before using the procedure.

The following conditions must apply:

- Understand geographical redundancy functionality.
- Both SAPCs are not in `Initial` or `Standby` state.





2 Procedures

2.1 Change Preferred Role in Both SAPCs

The following figure shows the procedure to change the preferred role in both SAPCs when they are processing traffic. Take into consideration the SAPC set as non-preferred requires to start full synchronization with the other SAPC, so it is temporary unavailable for traffic and provisioning management until synchronization is done:

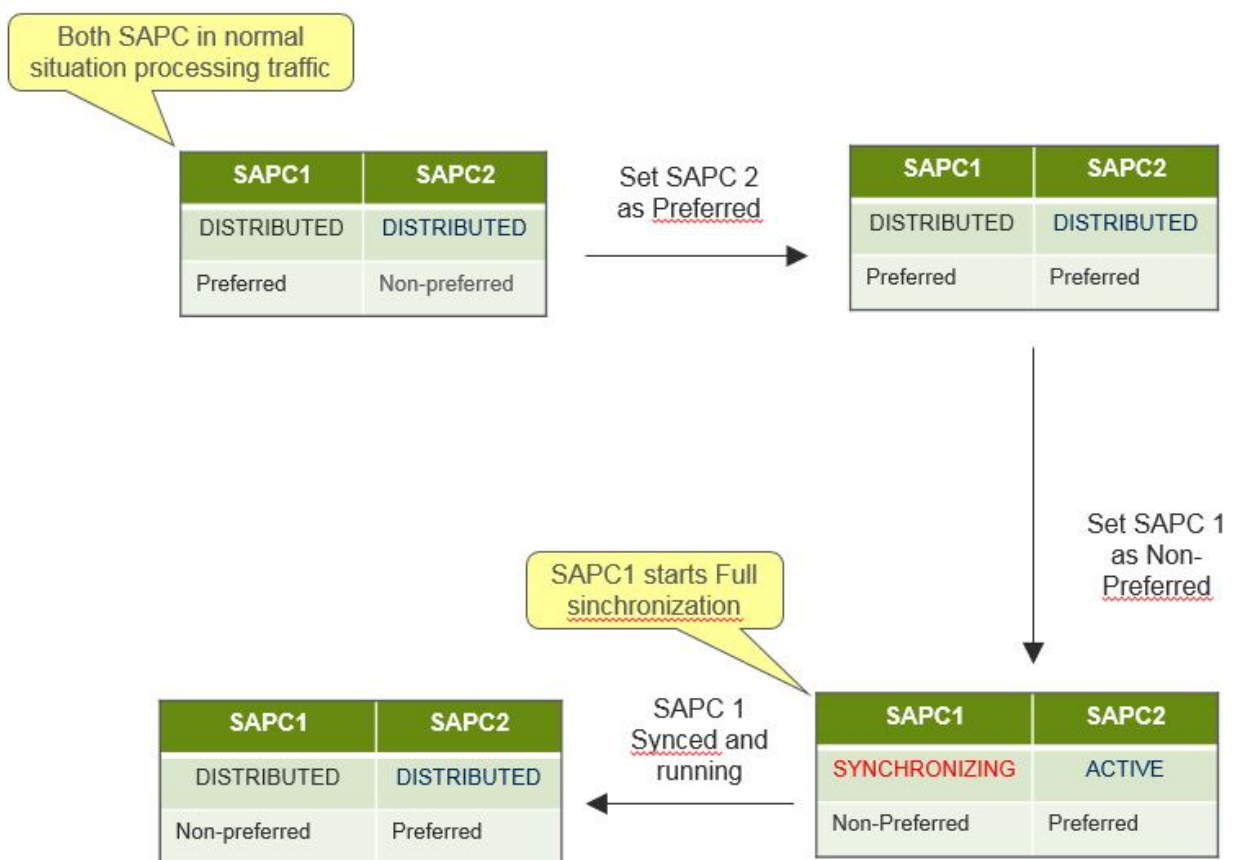


Figure 1 Change Preferred role in both SAPCs Procedure

To configure SAPC2 as Preferred, do the following:

1. Connect to SAPC2 and open an Ericsson Command-Line Interface (CLI) session.
2. Navigate to class GeoRedManager object:

```
>dn ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1
```
3. Execute setConfig action:



```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>  
setConfig --preferred true
```

During this period, DBS, NR, Configuration Invalid alarm is raised.

4. Verify the result of the action:

```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>show
```

Note: Since this is a long-running operation, it can be required to enter show command several times until the final operation result is shown in the progress report.

When the operation is successfully executed, it shows the following values:

```
lastOperationExecuted=SET
```

```
lastOperationResult=ACTION_RESULT_OK
```

If an error occurs during the execution of the operation, it shows the following values.

```
lastOperationExecuted=SET
```

```
lastOperationResult=ACTION_RESULT_NOT_OK
```

Attribute lastOperationDetailedInfo shows more specific information about the error. It can take one of these values:

- Already configured as Preferred
- Internal error updating Preferred value
- Not possible to execute set action from <state> state

5. Check Preferred role configuration:

```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>  
showConfiguration
```

Verify that the attribute Role has Preferred value.

6. Connect to SAPC1 and open an Ericsson Command-Line Interface (CLI) session.

7. Navigate to class GeoRedManager object:

```
>dn ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1
```

8. Execute setConfig action:

```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>  
setConfig --preferred false
```




Warning!

This action causes that SAPC1 starts full synchronization with SAPC2, so it is temporary unavailable for traffic and provisioning management until synchronization is done.

DBS, NR, Configuration Invalid alarm is cleared.

9. Verify the result of the action:

```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>show
```

Note: Since this is a long-running operation, it can be required to enter show command several times until the final operation result is shown in the progress report.

When the operation is successfully executed, it shows the following values:

```
lastOperationExecuted=SET
```

```
lastOperationResult=ACTION_RESULT_OK
```

If an error occurs during the execution of the operation, it shows the following values.

```
lastOperationExecuted=SET
```

```
lastOperationResult=ACTION_RESULT_NOT_OK
```

Attribute lastOperationDetailedInfo shows information about the error. It can take one of these values:

- Already configured as Non-Preferred
- Internal error updating Preferred value
- Not possible to execute set action from <state> state

10. Check Preferred role configuration:

```
(ManagedElement=1,PolicyControlFunction=1,GeoRedManager=1)>  
showConfiguration
```

Verify that the attribute Role has Non-Preferred value.