

Failover Switchers Function ("Automatic Switching on Alert")

 The description is valid for software version [2.11.0](#) and newer.

The **Failover Switchers** function uses a hysteresis algorithm to select the best window based on [alerts](#) obtained by analyzing the displayed signal. Based on this selection, it is possible to send [commands](#) to other modules, enabling:

- configure automatic selection of the desired crosspoint on the SDI router via the Router Bus module,
- control "OnAir" status output in the [Program](#) module to generate [AsRun logs](#) properly for a pair of servers (main/backup),
- automatically place keyframes on the recording performed by the [Recorder](#) module,
- change the input settings of modules that use the output of the Capture module to use the signal from another Capture module. This allows you to switch between different types of sources, such as SDI and IPTS or RTMP.
- etc.

The feature was added to the [Multiscreen](#) module in the [2.11.0](#) version.

Configuration

The function is configured in the tab: Administrator Control Panel→Manage→Multiscreen→Multiscreen→Multiscreen_N→Fail Over Switchers.

Video IO Boards Program Outputs Recorders Recording Managers Storages GPI Boards RSS Feeds Godot Engines

Multiscreen 1

Service Enabled Name: Multiscreen_1 ([Change](#))

Load Config Save Config

Playout Parameters Actions Layout Email Fail Over Switchers

Fail Over Switchers: ([Add](#))

X	Name	Label	Window 1	Window 2
Del Edit	Pgm1_Switcher	Status	Pgm1_Main	Pgm1_Backup

Parameter	Description
Add	Opens the dialog box for creating a new switch.
Del	Deletes the selected switch.

Parameter	Description
Edit	Opens the dialog box for editing the selected switch.

Switch Editor

The Parameters tab specifies the basic information needed for tracking.

Edit Fail Over Switch

Parameters
Actions

Switcher Name:

Label:

Window 1 Name:

Window 2 Name:

Parameter	Description
Switcher Name	User name of the switch, which is displayed on the Status tab and can also be used in Switch Fail Over and Enable Fail Over actions to make switching automatic.
Label	A custom title that will be displayed on top of windows running in monitoring and switching mode.
Window 1 Name	
Window 2 Name	The name of the second monitored window specified in the setting: Administrator Control Panel→Manage→Multiscreen→Multiscreen_N→Layout→Windows→Edit→Window Name.

The Actions tab adds [commands](#) that can be executed when the [events Window 1 Activated and Window 2 Activated](#) are triggered.

Edit Fail Over Switch

Parameters
Actions

Event actions: ([Add action](#))

X	Name	Address	Service	Action
Del Edit	Pgm1_goto_main	10.1.0.1	RouterBus_1	Set pin
Del Edit	Pgm1_goto_backup	10.1.0.2	RouterBus_1	Set pin

Ok
Cancel

Edit Action

Action configuration

Name:

Trigger condition:

Address:

Service:

Action:

Action parameters

Param 1: Param 7:

Param 2: Param 8:

Param 3: Param 9:

Param 4: Param 10:

Param 5: Param 11:

Param 6: Param 12:

Ok
Cancel

Parameter	Description
Action configuration	
Name	An arbitrary name for the rule.
Trigger condition	Event to trigger the rule and send the action: <ul style="list-style-type: none"> • Window 1 Activated - window 1 is activated (selected as "best"). • Window 2 Activated - window 2 is activated (selected as "best").
Address	IP address of the server where you want to send the command. An empty value = localhost.
Service	The module to which the command will be addressed. It is selected from the list of available modules . For example, if you want to control the switching of a matrix switch, commands can be sent to the Router Bus module.
Action	The name of the command (action) to be sent. The value is selected from the list of available ones for this service. Full list of actions .
Action parameters	
Param 1-Param 12	Transmitted parameters. The number of parameters to be transmitted depends on the specific action selected in the Action field.

Monitoring and Control

You can control the operation status and the current "best" window on the Status tab:
 Administrator Control Panel→Status→Multiscreen_N.

Multiscreen_1 - 1080p50 - (Multiscreen)



Crash Cnt:	0
Fail Over Pgm1_Switcher:	ON
Active Window:	Pgm1_Main

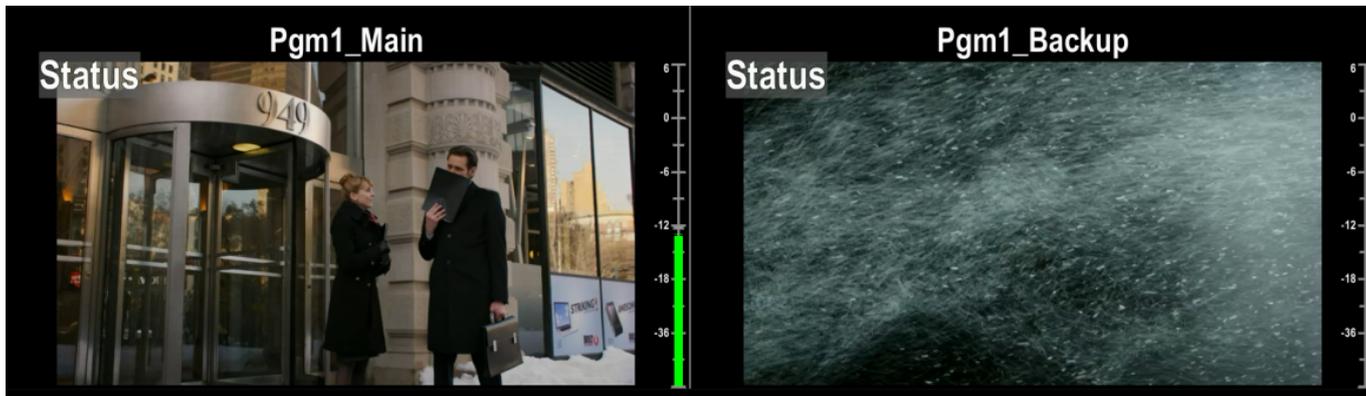
[Action...](#)

[Restart Component...](#)

Parameter	Description
Fail Over "Switch Name "	<p>The field displays the activity status for a specific switch:</p> <ul style="list-style-type: none"> • ON - the switch is activated and operating. • OFF - the switch is disabled. <p>A click opens a window that allows you to manually control the activity of the switch:</p> <div style="border: 1px solid gray; padding: 5px; background-color: #f0f0f0;"> <p style="text-align: center; margin: 0;">Set Fail Over Enabled</p> <p>Enabled:</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px;">OFF</div> <div style="font-size: 0.8em;">▼</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Ok Cancel </div> </div>
Active Window	<p>The field displays the name of the current best window for a particular switch. A click opens a window that allows you to manually control the selection of the best window:</p> <div style="border: 1px solid gray; padding: 5px; background-color: #f0f0f0;"> <p style="text-align: center; margin: 0;">Set Fail Over Active Window</p> <p>Window Name:</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px;">Pgm1_Main</div> <div style="font-size: 0.8em;">▼</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Ok Cancel </div> </div> <p>. It is worth keeping in mind that if problems in the signal are detected, the system may switch the best window on its own after manual selection. If you want to fix the manual window selection, e.g. for maintenance work, you have to deactivate the switch via the menu "Fail Over "Switch Name".</p>

Display in Multiscreen

The image shows the status of the indicators of the Failover Switchers function when the Multiscreen module is started. Both indicators have a gray background color, indicating an undefined system state - the "best" window is not selected.



The image shows the state of the Failover Switchers feature indicators when the system has selected the "best" window based on receiving alert VFR in the window on the right. The "best" window (left) is marked in green background color.



Multiscreen, Function, Failover, Switch

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