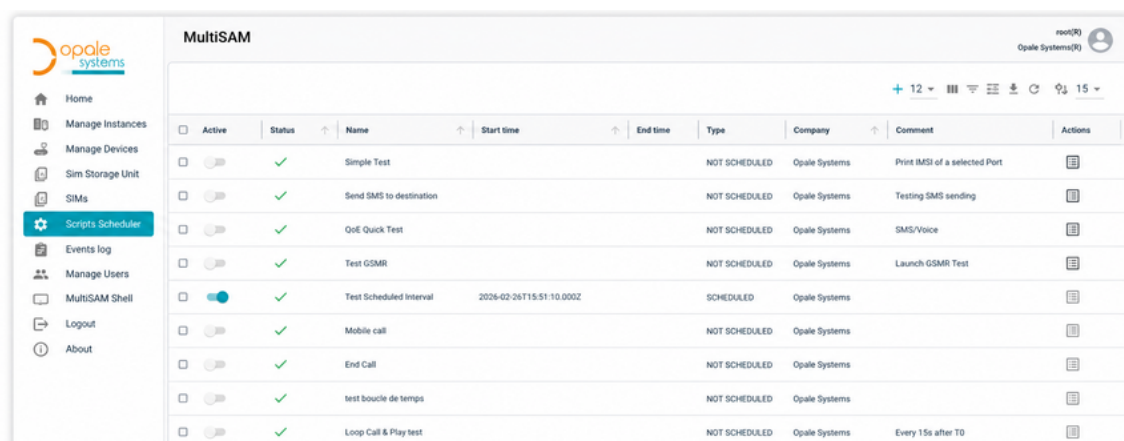


MultiSAM

Active Testing Solution for Mobile Networks

MultiSAM is an advanced active testing platform designed to qualify and validate the Quality of Service (QoS) and Quality of Experience (QoE) of next-generation mobile networks. Based on Mobile Test Robots with cellular connectivity, MultiSAM enables operators to perform reproducible, automated, and scalable testing of 5G services, covering technologies from 4G to 5G Standalone and anticipating future evolution toward 6G.



Active	Status	Name	Start time	End time	Type	Company	Comment	Actions
☐	✓	Simple Test			NOT SCHEDULED	Opale Systems	Print IMSI of a selected Port	[Icon]
☐	✓	Send SMS to destination			NOT SCHEDULED	Opale Systems	Testing SMS sending	[Icon]
☐	✓	QoE Quick Test			NOT SCHEDULED	Opale Systems	SMS/Voice	[Icon]
☐	✓	Test GSMR			NOT SCHEDULED	Opale Systems	Launch GSMR Test	[Icon]
☐	✓	Test Scheduled Interval	2026-02-26T15:51:10.000Z		SCHEDULED	Opale Systems		[Icon]
☐	✓	Mobile call			NOT SCHEDULED	Opale Systems		[Icon]
☐	✓	End Call			NOT SCHEDULED	Opale Systems		[Icon]
☐	✓	test boucle de temps			NOT SCHEDULED	Opale Systems		[Icon]
☐	✓	Loop Call & Play test			NOT SCHEDULED	Opale Systems	Every 15s after 10	[Icon]

MultiSAM Solution Components

Opale Mobile Robot

- Provides connectivity to mobile networks through two integrated cellular modems.
- Enables active end-to-end testing and monitoring of voice, data, and messaging services.
- Can be deployed SIM-less, Better SIM Management.

SIM Server Unit (SSU)

- Securely stores and manages a centralized pool of physical SIM cards.
- Makes SIM cards available on demand for test execution.
- Eliminates the need for manual SIM card handling and enables automated operator switching.

MultiSAM Software

- Centrally manages and controls all deployed robots.
- Manages SIM cards and dynamically assigns them to robots at test execution time.
- Executes Python-based test scripts to automate complex testing scenarios.
- Includes a powerful Test Scheduler to define test frequencies, execution windows, and monitoring campaigns.
- Provides centralized reporting, resource management, and operational visibility.

Key Features

- ▶ **Remote SIM Card Technology**
Test any operator, any country, any SIM/eSIM without human intervention
- ▶ **MultiSAM Solution**
Available as SaaS or On-Premise
- ▶ **Versatile Robots**
Support from 2G to 5G (SA/NSA) - including GSM-R
- ▶ **Multi-Tenant Web UI**
Multiple Roles and Entities - Flexible Test Scheduler
- ▶ **Python-Based scripts & API**
Easy to Customize - Opale Library with simple commands to test any mobile services and retrieve network information

Remote SIM/eSIM Management

Opale Robots can be deployed SIM-less, with SIM cards dynamically allocated at the time of test execution. This unique approach delivers maximum flexibility, enabling fully automated and repeatable testing with different SIM cards and operators without any human intervention.



Main Use Cases

Inbound/Outbound Roaming Validation

Validate roaming agreements across partner operators without travel.

Mobile Service Quality of Service (QoS)

5G rollouts SA/NSA, network coverage, SLAs enforcement

SLA and Compliance Monitoring

Automated test cycles for quality enforcement

Technical Facts

Feature / Item	Opale 5G Robot
Mobile Interface	1 or 2 Modem 5G Support 5G NR NSA and SA mode Compatible with 4G LTE and 3G UMTS
Mobile Frequencies	5G NR: n1/2/3/5/7/8/12/20/25/28/38/40/41/48/66/71/77/78/ 79; LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/ 30/32/66/71; LTE-TDD: B34/38/39/40/41/42/43/48; WCDMA: B1/2/3/4/5/6/8/19;
Opale Robot API (HTTP/SSH)	4G, 5G, Network management Sending/Receiving Call, USSD, SMS, MMS Data and SIP Management
SIM Cards	2x front Nano SIM Trays for Local SIM Cards Local or Remote SIM Card Allocation

Feature / Item	Opale SIM Storage Unit (SSU)
SIM card Interface	ISO 7816-1/2/3/4, Class A/B/C, T=0/T=1 Supports SIM/USIM and SAM cards SIM APDU Command Support Auto-adaptation of SIM card communication speed per SIM
SSU Chassis	2U x 19" Ethernet 10/100 interface
SSU Capacity	120+ SIM / USIM cards Several SSU units can be clustered for additional capacity

Contact Information

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