SDRNode - SmartTester

MONITOR YOUR CRITICAL INFRASTRUCTURE





Features

Automated check to ensure your critical radio infrastructure is operating correctly - 100 to 6000 MHz

- Checking for signal presence
- Verification of the nature and conformity of the transmitted signal
- On edge automatic processing
- Web interface with Waterfall, Channel usage statistics
- Timestamp & position from GNSS receiver
- Connectivity: MQTT, SFTP, Http REST API

Functionalities

- Determine which test to conduct (signal presence, signal type, signal content,...)
- Set up associated notifications: MQTT, SMTP, Http REST API
- Define the frequency and periodicity

Type of tests

- RF envelope: Level, bandwidth at fundamental and harmonics
- Modulation: Type, Symbol rate, framing
- Content analysis: Contact us for more details.

Options

- Rack mount
- Rugged enclosure
- Wall mount / Mast mount
- 3G/4G modem with SMS alerts



Sensors to Detect, Analyze and Process Radiocommunications

SDR Technologies

Test Plans

Predefined test-schemes are scheduled and executed automatically by the SmartTester. Test results and reports can then be stored in the local database, or forwarded to remote IT infrastructure for consolidation and dashboarding. Tests can also be triggered by remote system through the HTTP REST API, or though MQTT messages.

Signal Search							
Definition	Definition						
Test Name			Bandwidth (MHz)				
DMR	DMR		0.200	0.200			
Capture le	ngth (s)		Description				
1			Test presence of DMR Signal	Test presence of DMR Signal			
Processing	Processing script						
Atests/dmr.js							
Test Plan /	Test Plan / Schedules						
ID	Name	Frequency	Schedule	Enabled			
1	DMR Out	432.150	*/5 * * * ?	Enabled			
2	DMR In	439.750	*/5 * * * ?	Enabled			



Highly customizable

² Proposed test-cases can be extended easily thanks to the embedded DSP scripting engine included in the device: the operating system will provide required samples periodically for custom analysis or custom reporting. Add framing analysis, content verification for in-depth analysis of your critical communication infrastructure.

Specifications

Case	Aluminium	Frequency	100 to 6000 MH
Dimensions	L250mm * P250mm * H75mm	Bandwidth	Up to 50 MHz
Weight	2kg		
Power	10v to 19v DC @15W max		
Connectors	N or SMA, frontside or backside		

Engineered & manufactured in France

www.sdrtechnologies.fr - 🖂 contact@sdr-technologies.fr

7 rue Ernest Gouin - 78290 Croissy-sur-Seine - FRANCE