

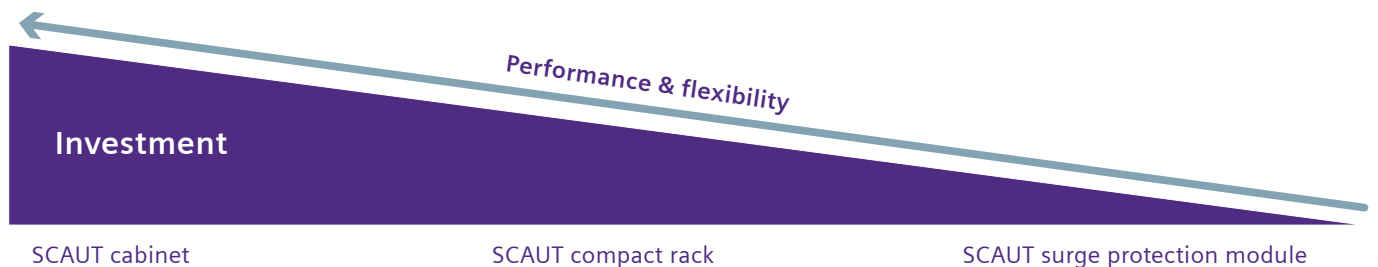
# SCAUT control systems

Increased availability concept against obsolescence




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Challenge	Siemens Energy solution	Benefits
End-of-life announcements for PLCs, MMS and I/O's for compressor control systems, e.g. • Siemens SIMATIC S7-300 & ET 200M	Replacement of outdated control technology	Enhanced availability by addressing system obsolescence
Risk of long delays for maintenance and repair services of obsolete systems	<b>Option: SCAUT</b> • Protection against surge events • Process control • Highly adaptable	Reduced risk of production downtime with reliable spare parts supply
Limitations for service, parts and repairs of obsolete components	<b>Option: SCAUT compact</b> • 1x protection against surge events and 1x process control • Standardized system	Modern, state-of-the-art system technology
	<b>Option: SCAUT Surge Protection</b> Protection against surge	System upgrades enable improvements and custom adaptations
		Strengthened cybersecurity and compliance with current regulations



## SCAUT type overview

	SCAUT	SCAUT compact	SCAUT surge protection
	Adaptive All-in-One Control	Cost-effective solution	Surge protection only
			
	Customizable complete control cabinet	Standardized door mounted system	Standardized rail mounted system
<b>Controller features</b>			
<b>Compressor control</b>			
Surge protection	✓	✓	✓
Anti surge control	✓	✓	✗
Suction/discharge pressure limiter	✓	✓	✗
Anti choke protection	✓	✓	✗
Temperature correction	✓	✓	✗
Fallback strategy	✓	✓	✗
Inlet guide vane control	✓	✓	✗
Machine monitoring system	✓	✓ <sup>1</sup>	✗
<b>Process control</b>			
Process stage limit	Without limit	Up to 4	Single
Load sharing	✓	✓ <sup>1</sup>	✗
Flow control	✓	✓	✗
Suction/discharge pressure control	✓	✓	✗
<b>Auxiliary control</b>			
Oil system control	✓	✗	✗
Seal gas system control	✓	✗	✗
<b>Drive control</b>			
Electric main driver control	✓	✗	✗
Steam turbine control	✓	✗	✗
Overspeed protection	✓	✗	✗
<b>Technology</b>			
Programming software	SIMATIC PCS7	SIMATIC TIA-Portal	SIMATIC TIA-Portal
DCS interface Modbus TCP/IP or OPC UA	✓	✓	Applicable
Human machine interface	Server-client or single station with SIMATIC WinCC	Unified Panel	Applicable
Cyber Security	Scope: Firewalls, system hardening Connection option to customer server e.g. WSUS / LDAP / NTP / Syslog	System hardening	System hardening
Remote diagnostic service <sup>1</sup>	✓	✓	✓
<b>Signal processing</b>			
Redundant PLC & IO's <sup>1</sup>	✓	✓	✗
Failsafe PLC	✓	✗	✗
IECEx Zone (Intrinsic safe barriers)	✓	(✓) <sup>1</sup>	✗
<b>Scope of Delivery</b>			
Assembly variant	Complete cabinet or replacement of obsolete parts	Available as a 19-inch rack, for use in door cut-outs or as a split version	Available as a rail-mounted hardware component
Factory acceptance test	✓	✓	For use in door cut-outs or as customized assembly

<sup>1</sup> Not part of the standard scope

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