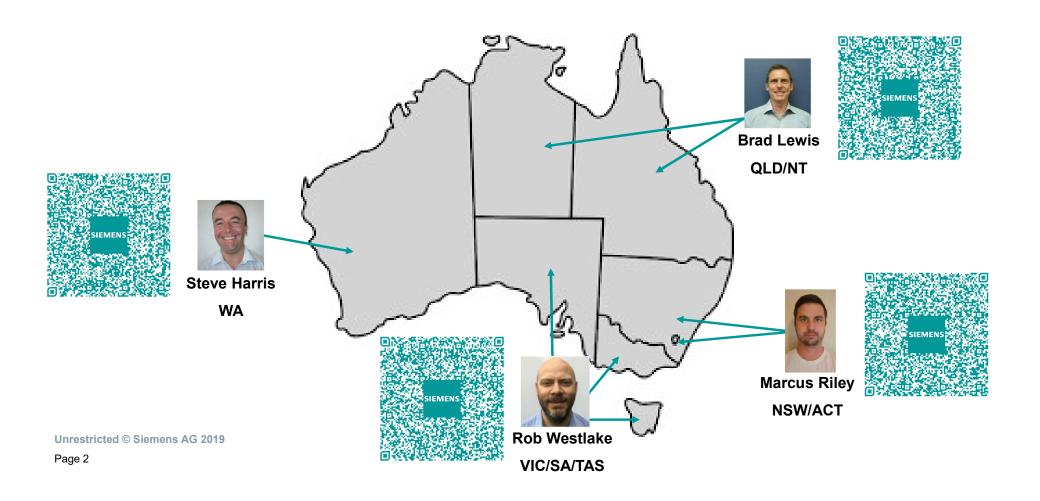


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Application Engineering Team





Positioning within Telecontrol RTU Portfolio

	Large	Modular RTU based on SIMATIC S7-400	For large applications with high demands on the performance.
Performance class	ium	Modular RTU based on SIMATIC S7-300 / S7-1500	For medium-sized applications with flexible configuration.
	Medium	Modular RTU based on Distributed Controller SIMATIC ET 200SP	For small to medium-sized applications with flexible configuration.
	Small	Modular RTU based on SIMATIC S7-1200	For small and cost-effective applications.
	Compact	SIMATIC RTU3000C	For small applications that require energy-self-sufficient RTU with own power supply.
	o I	Expansion Flexibility	

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CP1243-1 DNP3 / CP 1243-1 IEC Highlights

Flexible choice of remote networks through industrial router e.g. Internet (DSL) or 2-/4-wire solutions with SHDSL

Data point configuration with STEP 7 in TIA Portal



Secure and fast connection for remote diagnostics



Gapless recording of all data and time stamping



Configurable SMS and E-mail alarm



Enhanced integration in the overall system through standard communication of S7-1200





IEC standard 60870-5-104 with CP 1243-1 IEC:



 Communication with control center, e.g., PCS 7, WinCC, or other control center system available on the market, is based on the IEC telecontrol protocol

Support of **DNP3** protocol with CP 1243-1 DNP3:



- Communication to control center is based on the established standard of the DNP3 specification 2 (2007/2009)
- Secure data transmission over longdistance networks thanks to security mechanisms, which have already been defined in the DNP3 standard (DNP3 Secure)
- Up to 500 Data points

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Communication processor CP 1542SP-1 IRC

Distributed Controller SIMATIC ET 200SP as RTU in telecontrol applications





Feature/ Function

- The CP 1542SP-1 IRC allows the use of Distributed Controller SIMATIC ET 200SP as Remote Terminal Unit (RTU) in telecontrol applications with both standardized protocols DNP3 and IEC 60870-5-104 and TeleControl Basic protocol
- Data buffering and automated time stamping and support of 1500 data points
- Data point configuration in STEP 7

Benefit

- Connection of Distributed Controller SIMATIC ET 200SP to control center according DNP3 or IEC 60870-5-104.
- Connection of substations (RTUs) based on SIMATIC ET 200SP for simple remote control systems with TeleControl Server Basic.
 - Gapless and comprehensible data recording.
 - Easy commissioning without programming.

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SIMATIC TIM 1531 IRC

Benefits

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TIM 1531 IRC



Feature / Function

Use in telecontrol solutions as a station module for SIMATIC S7-1500 or as a node/control center

Data buffering of telegrams/data points including timestamps

Remote configuration and FW update of TIM 1531 IRC, diagnostics and monitoring over WAN

Path redundancy

Engineering with TIA Portal V16

Benefits

Extension of existing telecontrol systems with S7-1500 stations

Reliable storage of the data to be transmitted, even in the case of disconnections

Saving of travel expenses

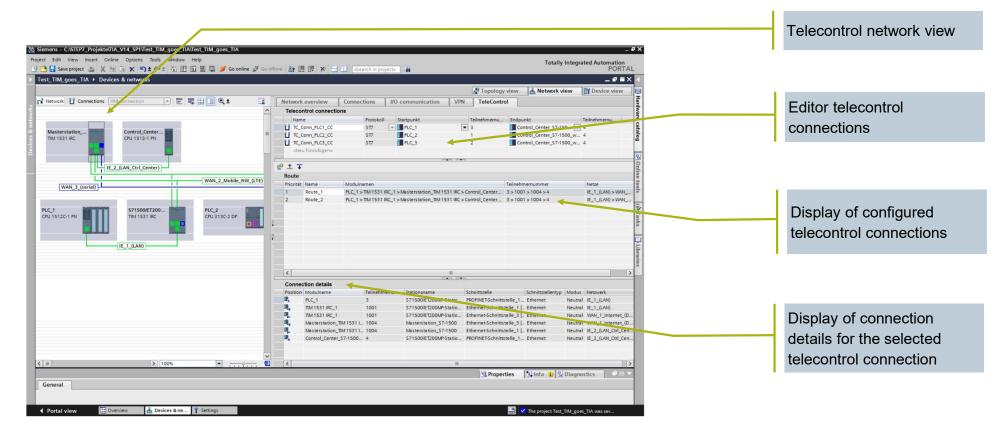
Media redundancy provides a higheravailability, even if the primary connection fails

 Centralized and convenient engineering of the telecontrol network saves time and money

Telecontrol in TIA Portal

DNP3 configuration in portal





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Thank you for your attention! → LIVE DEMO



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