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PRP/HSR Substation Solutions  
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knowledge on IEC61850 Route to  
IEC 61850 (2016): Client/Server,~~

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~~GOOSE and Sampled Values Moxa~~  
Webinar: A New Paradigm for  
Communication in Power  
Substations - IEC 61850  
Communication Protocol | IEC  
61850 in Typhoon HIL  
Presentation How to use HSR, PRP  
and redundancy in substations

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61850-103 | PRP with D400 and  
UR v1 61850-102 | IEC 61850  
Introduction v1 61850, PRP, and  
Merging Solutions for PRP/HSR  
Substations ~~Route to IEC 61850  
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~~Ethernet~~ Datacenter Networking with  
Richard Hay and Orhan Ergun IEC  
61850 Client/Server What is  
Ethernet? Multiarea OSPF ~~DNP3~~  
~~vs Modbus~~ What is RTU? Video  
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Networking 101- The Basics of

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relays What is Modbus and How  
does it Work? ~~Introduction to HSR  
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Network Redundancy Protocols -  
HSR and PRP Did You Know This  
About HSR? Introducing New



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Topologies HSR/PRP Switch 4-Port  
vs. 3-Port -- The Significant  
Difference REDUNDANT  
PROTOCOLS GATEWAY (HSR/PRP)  
- SIC-A DEMO PRP - Parallel  
redundant industrial Ethernet  
networks with seamless  
redundancy What is the IEC

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61850 protocol? How does it work? What's the difference with other protocols? ~~[Webinar]~~  
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In addition, the DA-820 is specifically designed for

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Elmtek substation applications that require precise time synchronization and compliance with IEC 61850-3 standards. The DA-820's flexible design makes it suitable for local SCADA, environmental monitoring, video surveillance, protocol conversion,

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and PRP/HSR redundancy  
applications.

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PRP/HSR is Enabling the Next  
Wave of IEC 61850 Substations  
For mission-critical or time-

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sensitive applications, even  
millisecond long network  
interruptions cannot be tolerated,  
as they may severely impact  
system operation or jeopardize  
the safety of onsite personnel.

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~~ERP/HSR Substations~~

Taipei, Taiwan, Sep. 29,  
2020—Moxa, a leading provider of  
substation computing solutions  
and a technology contributor to  
CIGRE Working Groups,  
announced a new series of high-  
performance IEC 61850-3

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computers with PRP/HSR  
connectivity.

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IEC 61850 native PRP/HSR  
computer Intel Core i7 dual/quad  
core processor with Intel QM77

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Express chipset 2 x 204-pin SO-DIMM ECC DDR3 sockets, supporting un-buffered ECC DDR3 1333/1600 memory at 1333 and 1600 MT/s, 16 GB max. 6 USB 2.0 ports for high speed peripherals

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computer Intel Core i7 dual/quad  
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1333/1600 memory at 1333 and

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1600 MT/s, 16 GB max. 6 USB 2.0  
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The NPort S9000 Series is the  
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Electronic Devices (IEDs) to an IEC 61850-based infrastructure for legacy substation retrofits. First, the NPort S9000 device servers connect Modbus and DNP3-based IEDs to an Ethernet network with up to 16 serial ports.

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With Moxa's PRP/HSR RedBox and

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native PRP/HSR management server, Moxa's PRP/HSR substation solutions can help you collect, analyze, and integrate raw data from various devices on one single management platform, enabling efficient and visually represented PRP/HSR network

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management, and making network diagnosis, troubleshooting, and device condition monitoring easier than ever.

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PRP/HSR Substations~~

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IEC 62439-3 Clause 4 (Parallel Redundancy Protocol, or PRP), and IEC 62439-3 Clause 5 (High-availability Seamless Redundancy, or HSR), are the newest standardized redundancy protocols for industrial automation networks that require



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Zero recovery time.

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PRP/HSR RedBox with ...~~

PRP and HSR are standardized by  
the IEC 62439-3:2016). PRP and  
HSR are independent of the  
application-protocol and can be

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~~Elmark~~ used by most Industrial Ethernet protocols in the IEC 61784 suite. It has been adopted for substation automation in the framework of IEC 61850.

~~High availability Seamless  
Redundancy Wikipedia~~

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time synchronization and adherence to the IEC 61850-3 standards. The flexible design makes the DA-820 suitable for local SCADA, environmental monitoring, video surveillance, protocol conversion, and PRP/HSR redundancy applications. In

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addition, the cybersecurity function makes the DA-820 an ideal solution for secure network communication applications. The housing is a standard 3U, 19-inch wide ...

~~IEC 61850 native PRP/HSR~~

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PRP and HSR are independent of the application-protocol and can be used by most Industrial Ethernet protocols in the IEC 61784 suite. PRP and HSR are standardized by the IEC 62439-3:2016). They have been

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adopted for substation  
automation in the framework of  
IEC 61850.

~~Parallel Redundancy Protocol~~  
~~Wikipedia~~

IEC/IEEE 61850-9-3 is a profile  
(subset) of IEEE Std 1588

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**Elimark** Precision Time Protocol (PTP) when clocks are singly attached. IEC/IEEE 61850-9-3 provides seamless fault tolerance by attaching clocks to duplicated networks paths and by support of simultaneously active redundant master clocks.

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~~IEC/IEEE 61850-9-3 - Wikipedia~~

Safeguarding IEC 61850

communication with PRP and HSR

The IEC 61850 standard,

Communication and Systems for

Power Utility Automation,

establishes standard



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Communication methods for intelligent electronic devices (IEDs) that are connected via an Ethernet network at electrical substations.

~~How to achieve robust and high availability communication ...~~

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DANH node with 2 HSR ports  
DANP node with 2 PRP ports  
redbox switch (RSTP) to HSR SAN  
singly attached node (not HSR)  
GC clock GC = grandmaster clock  
TC = transparent clock BC =  
boundary clock OC = ordinary  
clock NC = network clock GPS

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time server 100 Mbit/s Tx 100  
Mbit/s Fx 1 Gbit/s Fx 1Gbit/s Tx  
layer 2 bridge ports edge ports  
trunk port HSR node with  
auxiliary port redbox with one  
single ...

~~HSR High availability Seamless~~

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~~Redundancy~~

Moxa, ein führender Anbieter von Computerlösungen für Umspannwerke und Mitwirkender in den technologischen Arbeitsgruppen der CIGRE, kündigt eine neue Serie hochleistungsfähiger IEC

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61850-3-Computer mit PRP/HSR-Konnektivität an. Bei der Serie DA-820C handelt es sich um lüfterlose 19-Zoll-3U-Rackmount-Computer, die mit einem leistungsstarken Intel Xeon- oder Intel Core<sup>®</sup> i7/i5/i3 ...

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~~IEC 61850-3 Hochleistungs-  
PRP/HSR Computer-  
HASSELWANDER PR~~

IEC 61850 edition 2 clearly states that the transmission of GOOSE and SMV packets in substation automation systems are required to be bumpless. Moxa also

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provides PRP/HSR technology for zero packet loss network redundancy technology to ensuring on-site safety and quality of service. Using Native PRP/HSR Computers for Efficient Network Management

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~~IEC 61850 Standards - Building a  
New Substation from the ...~~  
adherence to the IEC 61850-3  
standards. The flexible design  
makes the DA-820 suitable for  
local SCADA, environmental  
monitoring, video surveillance,  
protocol conversion, and PRP/HSR



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redundancy applications. In addition, the cybersecurity function makes the DA-820 an ideal solution for secure network communication

~~Moxa DA 820 Series - ExcelNex  
Malaysia | Products~~

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The introduction of IEC-61850 digital-based Substation Automation System (SAS) eases implementation of elaborate schemes; however, its reliability and availability continue to be investigated for executing mission-critical applications. Independent

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repairable multi-channel systems with voting capability such as 'one-out-of-two' tripping schemes are often used for critical safety-related ...

~~Reliability and Availability of Multi-Channel IEC 61850 ...~~

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DA-820C Substation Computer.  
IEC 61850-3, IEEE 1613, and IEC  
60255 compliant for substation  
automation systems; EN 50121-4  
compliant for rail wayside  
applications; 7th Generation

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