#### IEC 61850 Refresh

#### Dana Point January 11, 2002



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# IEC 61850 and UCA Approach



#### 61850-x-y

UCA2

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# Traditional system architecture



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#### Traditional approach



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#### Introducing breaker IED's



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# Introducing new sensor technology





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# System architecture using 61850-9-1



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#### Full process bus solution





# System architecture using 61850-9-2



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# Part 4 and Part 6 - Engineeringtools



Page 10, 11.01.2002

#### Example from Part 6



#### The Contents of IEC 61850

System Aspects	Data Models
Part 1: Introduction and	Basic Communication Structure for
Overview	Substations and Feeder Equipment
Part 2: Glossary	Part 7-4: Compatible Logical Node Classes and Data
Part 3: General Requirements	Classes
Part 4: System and Project	Part 7-3: Common Data Classes
Part 5: Comm Requirements for Functions and Device Models	Abstract Comm. Services Basic Communication Structure for Substations and Feeder Equipment Part 7-2: Abstract Communication Services (ACSI)
Configuration	Part 7-1: Principles and Models
Part 6: Configuration Language	Mapping to real Comm. Networks (SCSM)
for electrical Substation	Part 8-1: Mapping to MMS
IED's	Part 9-1: Serial Unidirectional Multidrop Point-to-Point
<b>Testing</b>	link
Part 10: Conformance Testing	Part 9-2: Mapping on a IEEE 802.3 based Process Bus
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