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[1] [2].

United power system and isolated power systems. Information model of power industry. Nonoperative technological information exchange profile of information model

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3.2 : -

HTTPS (Hypertext Transfer Protocol Secure) —

REST (Representational State Transfer) —

SOAP (Simple Object Access Protocol) —

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4.1 [1] [2], «rf:», -

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4.2 58651.1, 58651.2, 58651.3 58651.8. , -

4.3 58651.1, 58651.2, 58651.3 58651.8. , -

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	rf:NonoperativeTechnologicalData	IdentifiedObject
	rf:OscillogramChannel	IdentifiedObject
	rf:AnalogChannel	rf:OscillogramChannel

5.2

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	rf:ACAnalogChannel	rf:AnalogChannel
	rf:DCAnalogChannel	rf:AnalogChannel
	rf:DisturbanceRecorder	ProtectionEquipment
	rf:FaultLocationData	rf:NonoperativeTechnologicalData
	rf:FaultLocationDocument	Document
	rf:Oscillogram	rf:NonoperativeTechnologicalData
	rf:OscillogramDocument	Document
	rf:ProtectionEquipmentData	rf:NonoperativeTechnologicalData

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	rf:ProtectionEquipmentDocument	Document
	rf:StatusChannel	rf:OscillogramChannel
-	rf:WSAccessPoint	TCPAccessPoint

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-	isPrimary	rf:ACAnalogChannel	
	sequence	rf:ACAnalogChannel	resequences ¹⁾
	dCVoltageMeasType	rf:DCAnalogChannel	rf:DCVoltageType ¹⁾
	address	rf:NonoperativeTechnologicalData	
, , , (-)	firstValueTimestamp	rf:OscillogramDocument	
, , , -	triggerPointTimestamp	rf:OscillogramDocument	
	number	rf:OscillogramChannel	
, -	nTDKind	rf:ProtectionEquipmentData	rf:NTDKind ¹⁾
HTTPS	isHTTPS	rf:WSAccessPoint	
	url	rf:WSAccessPoint	
-	wsKind	rf:WSAccessPoint	WebServiceKind ¹⁾
1)			

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-	rf:ACAnalogChannel	rf:SensorWinding	SensorWinding	0..1
,	Analog	rf:AnalogChannel	Analogchannels	0..*
-	rf:AnalogChannel	Analog	Analog	1
-	Asset	rf:ProtectionEquipmentData	PE Data	0..*
,	CommunicationLink	rf:NonoperativeTechnologicalData	NonoperativeTechnologicalData	0..*
,	Discrete	rf:StatusChannel	Statuschannels	0..*
-	rf:DisturbanceRecorder	rf:FaultLocationData	FaultLocationData	0..1
-	rf:DisturbanceRecorder	rf:Oscillogram	Oscillograms	0..*
-	rf:DisturbanceRecorder	rf:OscillogramChannel	Channels	0..*
-	rf:FaultLocationData	rf:DisturbanceRecorder	DisturbanceRecorder	0..1
-	rf:FaultLocationData	rf:FaultLocationDocument	FaultLocationInstances	0..*
	rf:FaultLocationDocument	rf:FaultLocationData	FaultLocationData	1
-	rf:NonoperativeTechnologicalData	CommunicationLink	CommunicationLinks	0..*
-	rf:Oscillogram	rf:DisturbanceRecorder	DisturbanceRecorders	0..*

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,	-	rf:Oscillogram	rf:Oscillogram-Channel	Channels	0..*
,	-	rf:Oscillogram	rf:OscillogramDocument	Oscillograminstances	0..*
,		rf:OscillogramChannel	rf:Oscillogram	Oscillograms	0..*
,	-	rf:OscillogramChannel	rf:DisturbanceRecorder	DisturbanceRecorder	0..1
		rf:OscillogramDocument	rf:Oscillogram	Oscillogram	1
,	-	rf:ProtectionEquipmentData	Asset	Asset	0..1
,		rf:ProtectionEquipmentData	rf:ProtectionEquipmentDocument	PEDataInstances	0..*
,	-	rf:ProtectionEquipmentDocument	rf:ProtectionEquipmentData	PEData	1
,	-	rf:StatusChannel	Discrete	Discrete	1

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-	rf:DCVoltageType	—
,	rf:NTDKind	—
	resequences	—
-	rf:WebServiceKind	—

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	()	()
(-)	negative2ground	rf:DCVoltageType
	pole2pole	rf:DCVoltageType
(+)	positive2ground	rf:DCVoltageType
		rf:NTDKind
	configurationData	rf:NTDKind
	incidentReport	rf:NTDKind
	tripLog	rf:NTDKind
	positive	resequences
	negative	resequences
	zero	resequences
- REST	rest	rf:WebServiceKind
- SOAP	soap	rf:WebServiceKind

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- [1] 61968
() (Application integration at electric utilities — System interfaces for distribution management)
- [2] 61970
() management system application program interface (EMS-API) (EMS-API) [Energy

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