

“Trinity”: Towards the interoperable meter



The Interoperable Meter

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The Basis: DLMS

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From Concepts to Reality

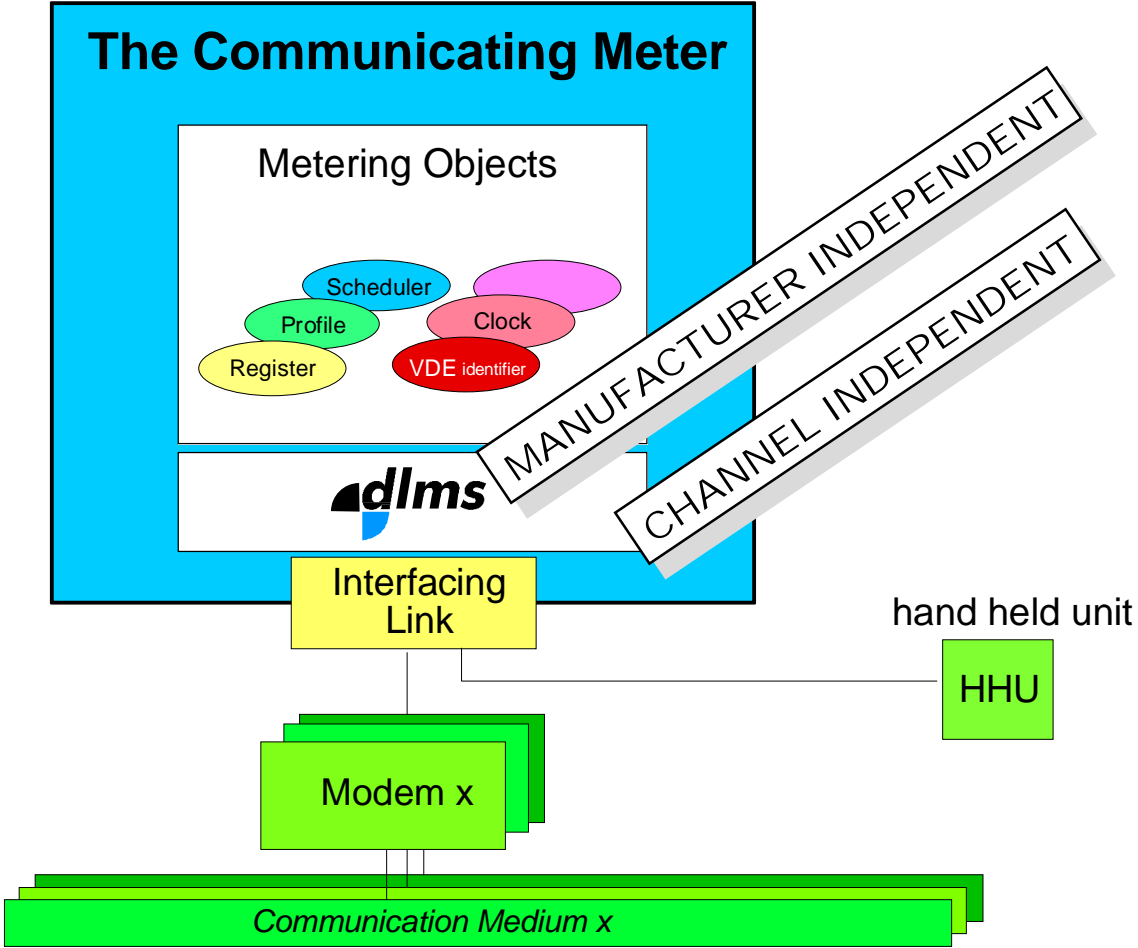
Ali Inan

Why do 3 meter manufacturers work together ?

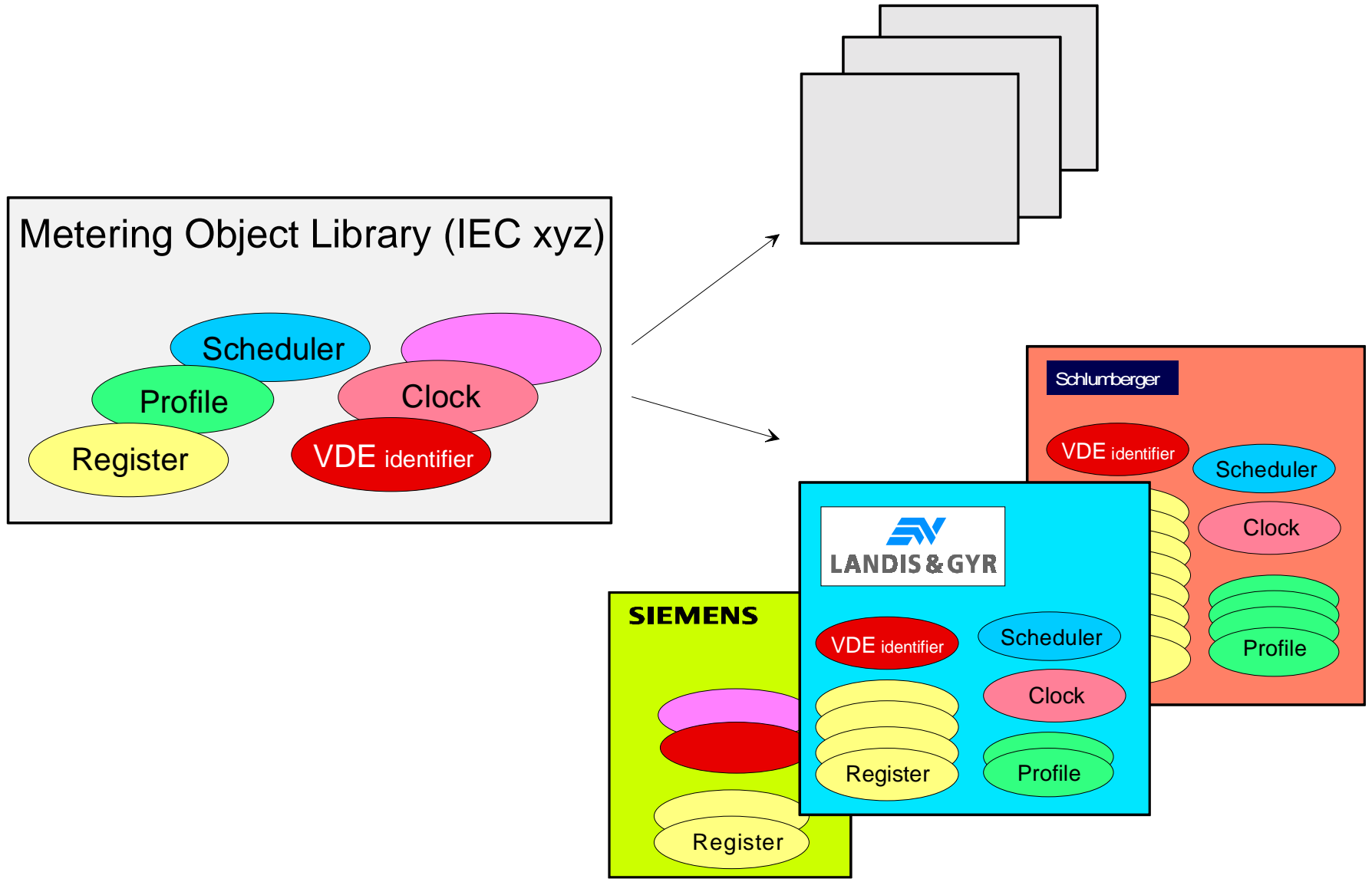
Communicating Interoperable Meters



The Communicating Meter



The standardised (IEC TC13) Object Library



The three step concept

1. Object Library

Register	0..n	public				
Attribute(s)	Data Type	Read	Write	Min	Max	Def
• EDIS-medium (static)	Enum	R				
• EDIS-channel (static)	Enum	R		1	99	
• EDIS-value (static)	USint	R		0	255	
• EDIS-value_type (static)	USint	R		1	255	
• EDIS-rate (static)	USint	R		0	9	
• current_value (dyn)	Inst. Specific	R,d	W,d	0		0
• unit (static)	Enum	R,d				X
Common and Specific Service(s)		m/o	Access Level			
• read_register ()		mandatory	0 (all clients)			
• read_current_value ()		mandatory	0 (all clients)			
• read_unit ()		optional	0 (all clients)			
• write_current_value ()		optional	1 (password)			
• reset_current_value ()		optional	1 (password)			

DIN 43863 - 3

2. Messaging System



IEC1334

ReadRequest ::= SEQUENCE OF ([2] object-name)

DLMSpdu

05	01	02	06	48
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3. Channel

