

AMR Protocol Challenges



What do you want to do...

..easily read data from all different meters



...and create one
high quality database.



John,
Business Manager



...how it impacts your business?



... we can use data in business
management.
... we are able to serve our clients better.

John,
Business Manager



Yes, but this is the reality



John,
Business Manager

Our metering environment is too complex,
so we are unable to collect quality data



Different devices
from various Manufactures
using different protocols



This is a current solution

You are forced to rely on One Manufacturer

In few years we are totally locked
in our metering device provider

Then we are forced to make future
investments
only on this manufacturer



John,
Business Manager



Hard
investments
on Devices



One Meter
Reading system



Manufacturer
lock-in



Future challenges

➤ *Demand Response, Renewable energy sources...*

➤ *We are collecting more data...*



Description	DLMS/COSEM	OSGP	IEC 62056-21
Binary	Yes	Yes	No
Manufactures support	Wide	Narrow	Wide
Manufacturer specific implementations	Yes	?	Yes
Authentication	Yes	Yes	No
Ciphering (Encryption)	Yes, Only few manufacturers support	Yes	No
Walk through	Association View	Yes	Readout in Mode A
Payload	Low	OK	High
Learning curve	Hard	Normal	Easy
Challenges	Data concentrator support		No meter or message ID in message Limited Error handling (ERROR/OK)
Standard documents	Consists from several standards	One standard, Freely available	One standard



Thank You

