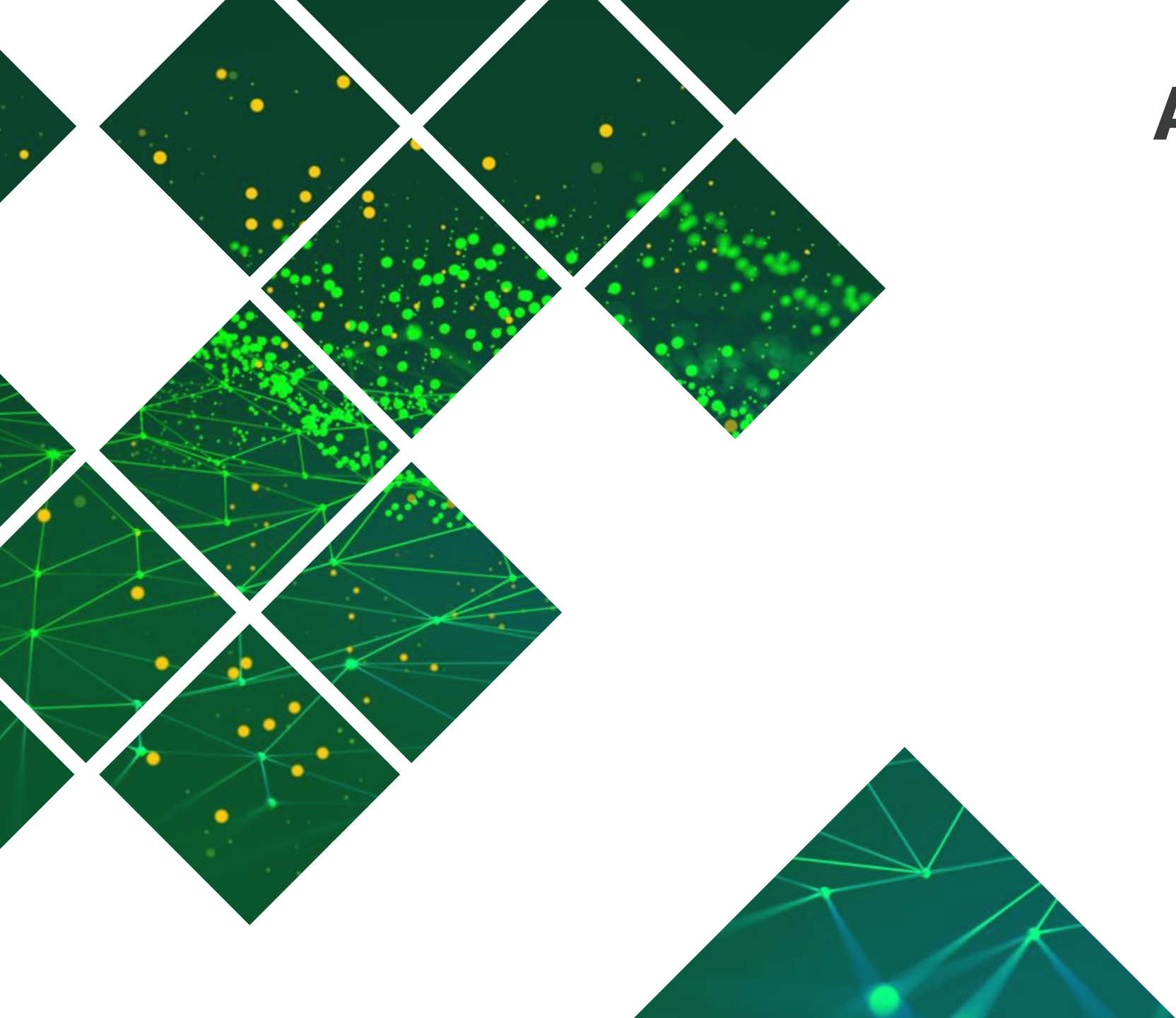
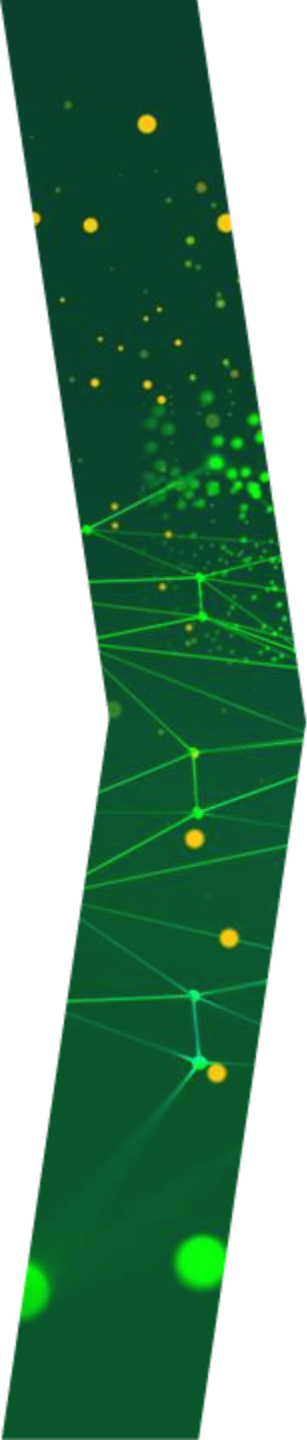




AGENDA ITEM 07

Device Interoperability

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Background

- The National Audit Office (NAO) Review of Smart Metering Assurance for Device Interoperability, noted concerns about the interoperability of Devices, the volume of Device Model Combinations (DMC) and potential impacts this may have for Parties operating smart metering systems
- A growing volume of Home Area Network (HAN) Device combinations encompassing unique manufacturer, hardware and firmware versions presents a significant challenge.
- The report provides a view of the scale of meter manufacturer, hardware and firmware versions, to draw insights and then consider mitigations

■ Meter Model & Firmware combination vols

- Total number of unique combinations of Manufacturer, Meter Model, and Manufacturer, Model and Firmware deployed

- 31/3/24

SMETS	Meter Model Combinations	Meter Model Firmware Combinations
1	1,289	4,742
2	90,971	345,614
Total	92,260	350,356

- 29/2/24

SMETS	Meter Model Combinations	Meter Model Firmware Combinations
1	1,270	4,667
2	88,759	340,246
Total	90,029	344,913

■ SMETS 2 Firmware Freshness

- Provides a view of the % of SMETS2 Devices* on latest Firmware “N-ness” with all N-ness lower than 4 grouped

SMETS	Type	NA%	N+1%	N%	N-1%	N-2%	N-3%	N-4%	>N-5%
2	ESME	30.01	0.28	26.90	27.06	6.07	1.76	1.31	5.44
2	GSME	57.54	0.06	4.89	21.99	2.99	3.26	0.99	8.28
2	PPMID	94.23	0.0	5.77	0.0	0.0	0.0	0.0	0.0
2	HCALCS	0.0	0.0	65.63	34.37	0.0	0.0	0.0	0.0

*excludes status Pending or Decommissioned

Unique Firmware version

- SMETS Firmware version by Device and Manufacturer

SMETS	Device	No Manufacturers	F/w Versions
2	ESME	7	132
2	GSME	8	77
2	PPMID	5	79
2	HCALC	1	2
1	ESME	5	17
1	GSME	5	16
1	PPMID	5	92

SRV Average Success

- % Success of SRVs and volume of Meter, Model and Firmware (MMF) Combination, as a proxy of performance

• 31/3/24

SRV	MMF Combination	Volumes	Success %
1.1.1 (Update Tariff)	310	7,027,855	82.58%
2.2 (Top Up Device)	263	15,856,982	90.38%
4.11.1 (Read Tariff)	406	5,321,506	82.12%
4.6.1 (Daily Read Log)	462	948,306,966	97.04%
4.8.1 (Read Active Import)	437	879,977,122	94.05%
6.23 (Update Security Credential)	424	2,231,674	84.91%

• 29/2/24

SRV	MMF Combination	Volumes	Success %
1.1.1 (Update Tariff)	323	19,258,544	85.58%
2.2 (Top Up Device)	266	12,935,201	90.08%
4.11.1 (Read Tariff)	404	6,391,402	82.71%
4.6.1 (Daily Read Log)	476	923,615,162	96.71%
4.8.1 (Read Active Import)	444	851,869,265	93.63%
6.23 (Update Security Credential)	417	1,336,856	79.74%