



Joint workshop between the EnC and ENTSOG on the developments on interoperability and the revised SoS Regulation

NC INT – implementation by the TSO of Ukraine

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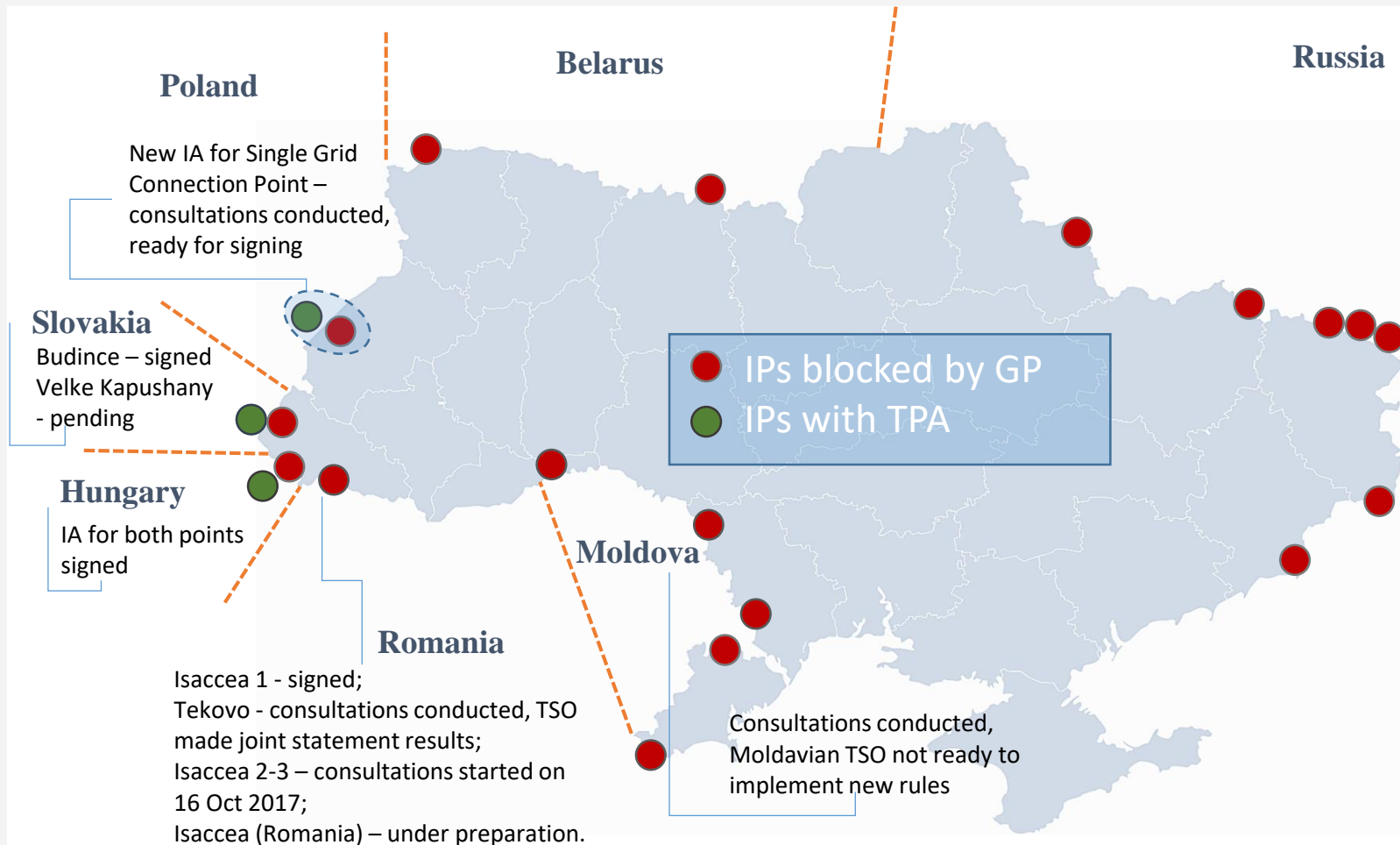
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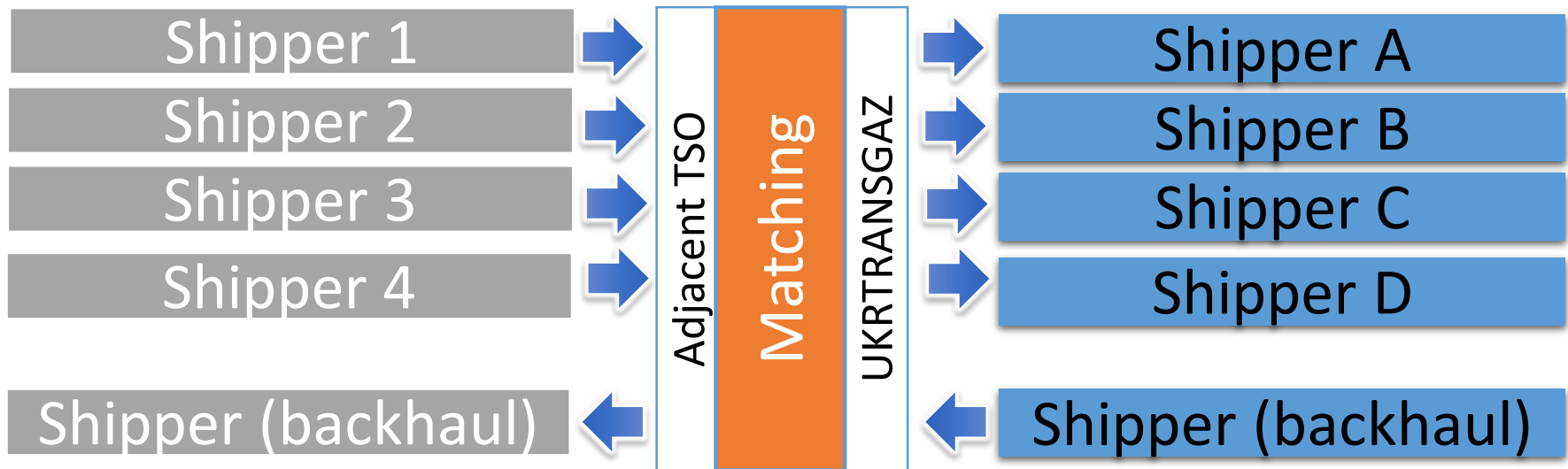


1. General overview
 - IPs with TPA
 - IPs without TPA
2. Point by Point
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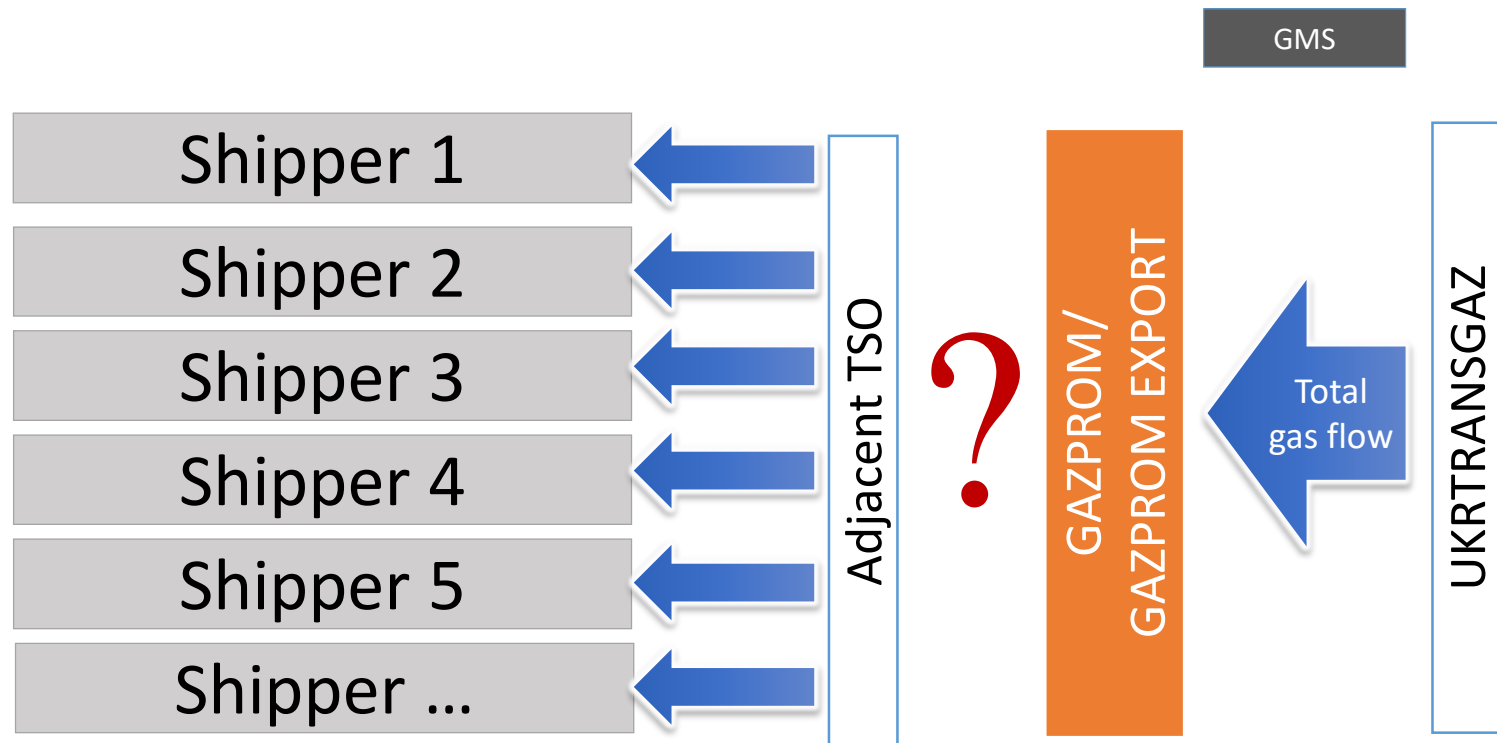
NC INT implementation – general overview



NC INT implementation – IPs with TPA



NC INT implementation – IPs without TPA



No direct cooperation between TSOs,
matching, OBA, backhaul - impossible

NC INT implementation – by Point by Point



Adjacent country	IP name	Interconnection Agreement	Business rules implemented	Public consultations conducted / ongoing
Poland	Hermanowice	prepared	✓	✓
	Drozdovichi	prepared	✗	✓
Hungary	Beregdaroc	signed	✓	-
	Beregovo	signed	✗	-
Slovakia	Budince	signed	✓	-
	Velke Kapushany (Uzhgorod)	pending	✗	✗
Romania	Tekovo - MA	prepared	✗	✓
	Isaccea - 1 (BG)	signed	✗	-
	Isaccea 2-3 (TR)	prepared	✗	✓
	Isaccea (RO)	under preparation	✗	✗
Moldova	All IPs	prepared / under preparation	✗	✓

NC INT implementation – business rules and data exchange



	IP Beregdaroc	IP Hermanowice	IP Budince
Allocation (OBA)	✓	✓*	✓
Gas day time	✓	✓	✓
Matching: Lesser rule	✓	✓	✓
Time-schedule	✓	✓	✓
Units	<i>kWh (m³ on Ukrainian side)</i>	<i>kWh (m³ on Ukrainian side)</i>	<i>kWh (m³ on Ukrainian side)</i>
Data exchange**	Excel	Edigas, AS-2	Excel
Provisions regarding backhaul	✓	✗	✓

* Settled to zero at the end of each month due to customs limitations

** Informational platform implemented in test mode (prescribes Edigas, AS-4)

NC INT implementation – gas quality harmonization



	IP Budince	IPs Beregovo-Beregdaroc	IP Hermanowice	IP Isaccea-Orlovka (Bulgaria)
Methane (C1) (min)	92	90	-	70
Ethane (C2) (max)	4	7	-	10
Propane (C3) (max)	2	3	-	3,5
Butane (C4) (max)	2	2	-	1,5
Pentane (C5) (max)	1	1	-	0,5
Hexane (C6+) (max)	-	-	-	0,2
Nitrogen (N2) (max)	3	5	-	10
Carbon dioxide (CO2) (max)	2	2,5	-	5
Oxygen (O2) (max)	0,01	0,02	-	0,02
Hydrogen sulphide (H2S) (max mg/m³)	2	5	7	6,5
Mercaptan sulphur (C2H5SH) (max mg/m³)	5	6	16	20
GCV (kWh/m³)	min 9,96 max 11,92 (25°C/20°C)	min 10,71 max 11,54 (25°C/20°C)	min 10,56 max 11,56 (25°C/0°C)	min 10,738 (25°C/0°C)

NC INT implementation – way forward

- Interconnection Agreements for all IPs – prepare and conduct public consultations to be ready for the Stockholm Arbitration decision or end of 2019.
- Data exchange – informational platform already run in test mode, to be fully operational in 2018
- Energy units – together with switching to energy units by Ukraine – the TSO is ready
- IPs with TPA and public consultations show that rules are efficient and they can be implemented



Thank you for your attention!