Memo: Survey DataHub **Date:** September 14th, 2022	European forum for energy Business Information eXchange
Version: v1.3	**EBG** ebIX® Business Group

Survey: DataHub

In spring 2019 the ebIX® member countries answered a questionnaire trying to find a good basis for the ebIX® Role-To-Role (HUB) Project and to get a common understanding of the meaning of a DataHub. The result is published at the ebIX® web site (EBG Survey DataHubv1r1 20190607).

In spring 2022 a new survey was sent to the ebIX® members, triggered by a discussion in Germany related to the possible introduction of a German datahub. In short, the ebIX® members were asked to verify that the information in the survey from 2019 still is correct with rephrased questions.

Country	Owner	Operator	Hub model	Which data are exchanged via the hub?	Which processes are supported by the hub or carried out by the hub?	Are there any data that are stored or managed in in the hub? If yes, which ones?	Regulation
Germany	To be clarified	To be clarified	Planned: 1 Hub 1 Operator	Planned: • Master data • Metered Data	In discussion/planned: • Identification of Accounting Points and Metering Points • Master data update • Processing/support a variety of the regulated processes, e. g. change of supplier, move in/out, master data change, balancing, disconnection or connection, imbalance	In discussion: • Storage of data for fast and secure process execution (e. g. Metering Point ID). • Possibly a model of both (storage of data in the hub and with the market parties): Depending on process, safety and user requirements, costs and legal requirements.	In discussion
Austria	All Austrian Grid Operators own EDA (Energie-wirtschaft-licher	EDA GmbH https://eda.at – starting as a working group without a legal personalit	Energy data exchange in Austria is a de-centralised shared infrastructure. As a principle, all data stays as close to the source as possible and is only shared within the context of	Basically all data relevant for the wider field of electricity and gas - constantly extending. Non-exhaustive list: • Validated metering and consumption data	• Customer Consent Management (allowing customers and eligible parties access to metering data and master data) • Deta exchange to join/leave/manage Energy Communities,	By the data sharing infrastructure itself not. All data stays at the source unless there is a clear business reason for an exchange/transfer.	By law, each market participant must support/implement the processes consulted/ standardised by the relevant

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	Daten-Austausch) GmbH	y in 2012, in 2020 a limited liability company was founded to drive further developm ents	clearly defined business processes. To clarify if we are supposed to describe our infrastructure similar to the others, maybe the following statement might be ok: 1 standard 1 (logically – not physically - centralised) infra-structure 139 hubs (connections to common communication infrastructure) 1 organisation that takes the responsibility and co-ordinates[1]	• Accounting Point master data • Energy community volumes for local, regional renewable and citizen energy communities • Supplier switching data exchange • Billing data exchange • Nomination • Tendering for aFRR • Federal subsidies for inflation compensation • Jointly acting self-consumption data • Characteristics of flexible resources (tbd)	assign and calculate self-consumption share etc. • Supplier switching • Billing • Nomination • Customer Processes • aFRR Tendering • Federal subsidies to compensate for rising energy prices • Flexibility resources data management … and more, extension is an ongoing process.		Austrian Energy Association working groups. The basis for this is “Sonstige Marktregeln – Kapitel 5” (Sonstige Marktregeln)

[1] We put standardisation first, meaning that whenever a new process is to be digitalised, Austrian Energy Association working groups begin with the elaboration of a standard using a consultation process driven by the website https://ebutilities.at. This is also where all process documentation and schema sets are published. The communication layer is realised via an AS4-compatible messaging layer (driven by Ponton X/P Messenger). The approach works very well and has organically led to an “Austrian Energy Data Space”, that is continuously being

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Belgium	Atrias, owned by DSOs (DSOs)	Atrias	Since Nov 2021 1 Hub, 1 Operator	• Master data • Metering data • Grid fee data • Infeed data • Settlement volumes • Energy supply contract data	Supports processes of the metering point administrator including all corresponding market processes from creation to decommissioning of an Accounting Point and processes (e. g. moves, change of supplier, end of supply, change of grid); allocation and reconciliation, grid fee billing, infeed collection, provisional allocation	Master data of Accounting Points, metering and measurement data, grid fee data, infeed data, settlement volumes, energy supply contract data, market party data	
Denmark	TSO	TSO	Since 2013, (Update to go live in 2022) 1 Hub, 1 Operator Video-Clip	Metering data and Meter data; Aggregated data for imbalance settlement	Processed/ Supports change of supplier, change of address, moves, end of supply, Meter data and settlement, Combined grid and supply billing	Master data of Metering Points and Customers, measurement data and transaction data (e. g. Meter readings, measurement data, settlement data)	

extended to support more and more processes and involves more and more roles (suppliers, distribution system operators, regulators, governmental organisation, energy data – driven services, energy communities, transmission system operator, etc.).

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Estonia	TSO	TSO	Since 2013 1 Hub, (there is a separate Hub for gas data, however like electricity Hub), 1 Operator	• Metering point data and Meter data • Customer enquiries between network operators and suppliers • Grid connection and disconnection instructions • Supply and network agreements' data • Aggregated data for imbalance settlement • Customer data	• Change of supplier and exchange of messages describing this process • Encoding • Calculations and reports for accounts and statistics • Joint supply and network invoicing (if the DSO makes this service available) • In case of joint invoice the supplier can request to disconnect debited customer • Balance portfolio management	All data are stored for 12 years, except joint invoice	The high-level principles are set in Electricity Market Act and Gas Market Act, and more detailed requirements are in national Network codes – Network Code on the Operation of the Electricity Market & Network Code on the Operation of the Gas Market.
Finland	TSO	Subsidiary of the TSO	Since Feb 2022 1 Hub, 1 Operator Video-Clip	• Metering data • Aggregated data for imbalance settlement • Customer data • Agreement data	Processed/ supports change of supplier, move in/out, master data change, balancing, disconnection or connection, imbalance settlement and balance corrections	• Master data of Metering Points and Customers • Metering data • Transaction data • Settlement data	

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Netherlands	EDSN, owned by joint (6) DSO's and (2) TSO's. The datahub started as an initiative by the market participants.	Operated by EDSN.	Since 2002 a communication hub and since 2013 also covering data stored Metering Point administration. 1 Hub, 1 Operator	All data in the downstream processes is exchanged via the hub. Master data and Metering data and Meter data	All downstream processes. All processes of the metering point administrator including all corresponding market processes from creation to decommissioning of an Accounting Point and processes (e. g. moves, change of supplier and Metering Responsible, end of supply/ metering, change of grid); balancing for gas; allocation and reconciliation. For historical reasons the measured data is first exchanged via the hub and when relevant roles have used it, it is stored in the hub where consented parties can check it. Allocation and reconciliation are performed by the hub (and necessary (measured) data stored) and related data is	The Metering Point Administration is done in the hub. All roles communicate directly to the administrator (hub) and update the administration (register in the hub) directly. Master data of Metering Points and Customers (Electricity and gas) Not stored: Settlement data (= transaction data)	The datahub is not regulated by the regulator.

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					exchanged to the relevant parties.		
Norway	TSO	Subsidiary of the TSO	Since Feb 2019 (Update to go live in 2023 (15-minute data)) 1 Hub, 1 Operator Video-Clip	Metering data and Meter data	All processes of the metering point administrator including all corresponding market processes from creation to decommissioning of an Accounting Point and processes (e. g. moves, change of supplier and Metering Responsible, end of supply/ metering, change of grid); allocation and reconciliation	Master data of Metering Points and Customers	The datahub is fully regulated by law.
Poland	TSO	TSO	Go live planned in Q3.2024 1 Hub, 1 Operator Video-Clip	• Metering Point data • Accounting Point Data • Meter Data • Network usage invoices • Complaints and inquires • Requests for smart meters	Change of supplier, move in/out, master data change, disconnection or connection, complaints and inquires, agreement notification, metering point characteristics, change of BRP, meter data exchange, resource („metering object") processes	All (See column 5)	The datahub is fully regulated by law.

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				• Market configuration data • Resource („metering objects") data			
Slovenia	5 DSOs	Information company owned by 5 DSOs	Centralized communication hub. The data for 4 DSOs is handled and stored by the same company that operates the hub. The data and services for one DSO is stored and prepared locally by that DSO.	Metering data, Metering point data. Accounting point data. Exchange data for processes.	Master data metering point, Master data accounting point. Metering data D-1, M-1. Supplier switch, Customer switch (move), Change of tariff, Change of address. Data for grid use invoices. End of supply, Aggregated data for balancing.	The data for exchange of data is stored in the hub and the data for 4 DSOs. Meter data is stored locally in DSOs. The data and data services for one DSO is stored and prepared locally by that DSO.	
Sweden	Decides by Regulation	Decides by Regulation	Regulator provides for national hub. Topic is on hold due to the elections.	Decides by Regulation	Decides by Regulation	Decides by Regulation	