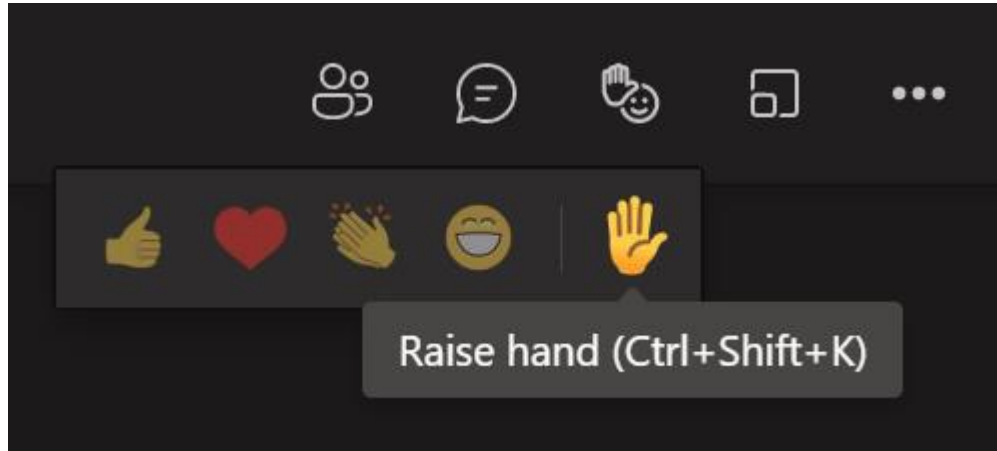


Issue 101 Digital Meeting Etiquette

- Welcome to the Issue 101 Workgroup meeting 6 – we'll start shortly
- No video please to conserve bandwidth
- Please stay on mute unless you need to talk – use the Raise hand feature in the Menu bar in Microsoft Teams if you want to speak, or use the Meeting chat



- Lots of us are working remotely – be mindful of background noise and connection speeds

ELEXION

**Issue 101 ‘Ongoing Governance, Funding
and Operation of the MHHS Data
Integration Platform (DIP) by BSCCo’**

Meeting 6

13 March 2023

Meeting Agenda

Objectives for this meeting:

- Confirm data governance design and documentation that will be/has been created by the MHHS Programme
- Agree data governance that will be in place once the DIP enters the ‘operate and run’ phase and what will be produced from Issue 101
- Seek feedback on initial view of role of BSCCo as Data Processor in carrying out DIP Manager role

Agenda Item	Lead
1. Welcome and meeting objectives	Lawrence Jones (Chair)
2. Recap from meeting 5 and action updates	Keren Kelly and Jenny Sarsfield (Elexon Leads)
3. Overview of the DIP	Robert Golding (MHHS Programme)
4. Information Security	Kevan Gleeson (MHHS Programme) and Stuart Toner (Information Security Manager Elexon)
5. Data Protection Considerations	Nick Brown and Tina Wirth (Elexon Legal)
6. Data Best Practice Guidance	Chris Wood (Elexon Market Design)
7. Open Data	Chris Wood
8. Next steps	Keren Kelly
9. Meeting Close	Lawrence Jones



RECAP OF MEETING 5

Recap of Workgroup Meeting 5

- The objectives of the meeting were to:
 - Decide on Workgroup preferred DIP funding model
 - Agree the DIP qualification framework and principles
- Elexon recapped the shortlisted DIP funding models for the WG to consider:
 - Option 1 - Funding Share based on number of MPANs
 - Option 5 - Connection Fee, with the remainder by Option 1
- Despite the higher development costs, the WG showed a preference for Option 5, due to its similarity to the current funding methodology used for the BSC, and the increased certainty for budgeting that a fixed charge would create
- The WG agreed that the DIP Board would determine the percentage of DIP funding to be covered by the DIP Standing Charge (DSC)
- Due to the number of different groups considering DIP and MHHS “qualification”, the WG decided to use onboarding in this context
- The WG agreed with the proposed DIP onboarding principles and process for the DIP, as presented by Elexon
- The WG raised several other considerations for DIP onboarding:
 - Potential use of Kinnect platform for DIP
 - Consideration of the DIP end-to-end user requirements, once published
 - Consideration of wider code qualification and testing

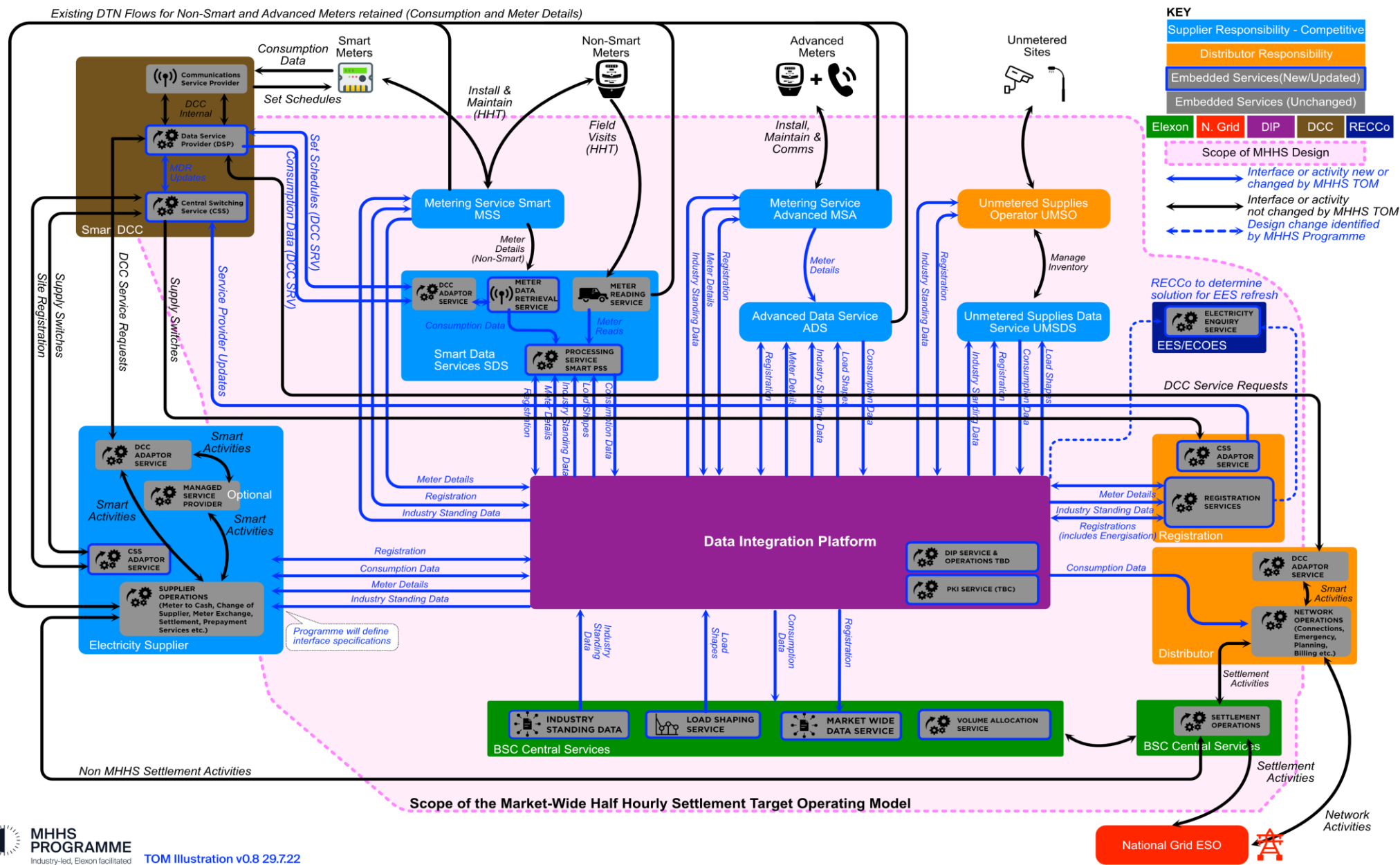
Action Updates

Ref	Action	Owner	Status
1.3	When considering removal of DIP access, include the potential misuse of the service and what would constitute misuse	Elexon	Ongoing
3.1	REC and Elexon to workshop ideas for optimising the BSC CP process for DIP interface change and the interaction with REC	Elexon	Ongoing
3.3	Elexon to work up a proposed solution for the DIP Board arrangements	Elexon	Ongoing
5.1	Consider MHHS Programme connection guidance document, once published, in relation to DIP onboarding	Elexon	Ongoing
5.2	Consider learnings from CSS testing in relation to DIP onboarding	Elexon	Ongoing
5.3	Consider scope of DIP onboarding compared to Code Qualification	Elexon	Ongoing
5.4	Workgroup to provide any feedback on what value add services will look like	WG	Ongoing



OVERVIEW OF THE DIP


Scope of the MHHS TOM




MHHS Business Processes

E2E Walkthrough	Reference	Business Process
MPAN Ownership	MHHSP-BP001	Change of Supplier
	MHHSP-BP010	Change of Registration Data
	MHHSP-BP002	Change of Service – Metering Service
	MHHSP-BP003	Change of Service – Data Service
	MHHSP-BP003A	CSS and DCC Update
	MHHSP-BP003B	Change of Existing Service Appointment Data
	MHHSP-BP003C	Transfer of Reads – Change of Data Service
Metering Changes	MHHSP-BP007	Disconnection
	MHHSP-BP008	Change of Energisation Status
	MHHSP-BP009	Change of Meter
	MHHSP-BP011	Change of Market Segment and/or Connection Type
Meter to Bank	MHHSP-BP004	Data Collection
	MHHSP-BP005	Data Processing
	MHHSP-BP013	Demand Disconnection Events
	MHHSP-BP016	Consumption Amendment
	MHHSP-BP018	Load Shaping Service (ESC)
	MHHSP-BP019	Market-wide Data Service (ESC)
	MHHSP-BP020	Volume Allocation Service
	MHHSP-BP021	Industry Standing Data (ESC)

MHHS Interface Catalogue

 MHHS PROGRAMME Industry-led, Elexon facilitated		MHHS - Interface & Publication List								Ref D-Flows
MHSP Interface ID	Interface Name	Description	Sender	These cols will require further review as part of DIP Detailed Design				Business Processes	Publication	
				Always (Role)	Primary Recipient (Only Sender Know)	Secondary Recipient (MPAN Look Up / Optional)	EES / Ecoes As Always Role ?			
DIP-COMMON	DIP COMMON Blocks	Message Header Information	DIP							
MHSP-IF-001	Notification of Change of Supplier	Notification of Change of Supplier	Registration Service	Central Settlements, EES	Supplier (Incoming)	LDSO	Yes	BP001 - COS	PUB-001	
MHSP-IF-002	Notification to New Supplier of Site Information	Notification to New Supplier of Site Information	Registration Service		Supplier (Incoming)		No	BP001 - COS	PUB-002	
MHSP-IF-004	Comms Hub Information (Optional)	Optional interface to allow passing of Comms Hub information	Metering Service			Supplier	No			
MHSP-IF-005	Metering Service MTD Updates to Registration	To notify the Registration Service of Metering related Data Item changes, for example, New install, Removal, MEX, change to existing Meter Details	MSS, MSA			Registration Service	No	BP09 - Change of Meter	PUB-005	
MHSP-IF-006	Notification of Metering Service MTD Update to Registration	Outcome of Metering Service Request to Update Registration after Install, Removal, MEX or Updates to Existing Meter	Registration Service	EES	MS	MS, DS, Supplier, LDSO incl Xover parties	Yes	BP09 - Change of Meter	PUB-006	
MHSP-IF-007	Change of Energisation Status Outcome	Metering Service Notification of Outcome of Energisation Status to Registration	MSS, MSA, UMISO			Registration Service, Supplier	No	BP008 - Chg En Status	PUB-007	
MHSP-IF-008	Registration Service Notification of Change of Energisation Status	Registration Service notification of Change of Energisation Status [back to] MS & other parties	Registration Service	Central Settlements, EES	MS	MS, DS, Supplier, LDSO incl Xover parties	Yes	BP008 - Chg En Status	PUB-008	
MHSP-IF-009	Notification of LDSO Disconnection / CSS De-Registration	Registration Service CSS De-Registration Notification	Registration Service	Central Settlements, EES	MS	Supplier, LDSO	Yes	BP07 - Disconnection	PUB-009	
MHSP-IF-013	MDS Defaults Applied	Notification of MDS Applied Default Consumption (Previously IF-100)	Central Settlements		DS, Supplier	LDSO	No	BP05 - Data Processing	PUB-013	
MHSP-IF-014	Rejected Consumption Data Submission	Rejection of Settlement Period Consumption Data (previously IF-105)	Central Settlements		Supplier, DS	LDSO	No	BP05 - Data Processing	PUB-014	
MHSP-IF-015	Request Historic Consumption Replay (ADV Sites only)	Request Consumption History Replay	ADS (Only)	DIP			No	BP003C	PUB-015	
MHSP-IF-016	HH Consumption History Replay (ADV Sites only)	Replay of Consumption History Messages	DIP		ADS		No	BP003C	PUB-016	
MHSP-IF-018	Notification of Registration Data	Notification of Registration Data Item Changes, usually	Registration	Central Settlements		MS, DS, Supplier,	Yes	BP010	PUB-018	

MHHS Interface Data Item Catalogue

<div> <div> <div>xi</div>  <div> MHHS PROGRAMME Industry-led, Elexon facilitated </div> </div> <div> MHHS - Interface Data Item Catalogue v0.5 </div> </div>								
MHSP Data Item ID	Data Item	Definition	DTN ID	Authoritative Source	MHHS Owner	MHSP Data Type	Data Typ	
DI-001	Address Line 1	A component of a metering point site address. Recommended to be Free Text, but not un-common for the entire address to be entered into the first value.	J1036	Registration Service	LDSO	DT-001	String	
DI-002	Address Line 2	Recommended to be Sub-building Name / Number	J1037	Registration Service	LDSO	DT-001	String	
DI-003	Address Line 3	Recommended to be Building Name / Number	J1038	Registration Service	LDSO	DT-001	String	
DI-004	Address Line 4	Recommended to be Dependent Thoroughfare	J1039	Registration Service	LDSO	DT-001	String	
DI-005	Address Line 5	Recommended to be Thoroughfare	J1040	Registration Service	LDSO	DT-001	String	
DI-006	Address Line 6	Recommended to be Double Dependent Locality	J1041	Registration Service	LDSO	DT-001	String	
DI-007	Address Line 7	Recommended to be Dependent Locality	J1042	Registration Service	LDSO	DT-001	String	
DI-008	Address Line 8	Recommended to be Locality / Post Town	J1043	Registration Service	LDSO	DT-001	String	
DI-009	Address Line 9	Recommended to be County	J1044	Registration Service	LDSO	DT-001	String	
DI-010	Metering Point Postcode	The full postcode of the metering point site.	J0263	Registration Service	LDSO	DT-007	String	
DI-015	Connection Type Indicator	A code to indicate the type of connection.	N/A	Registration Service	LDSO		String	
DI-016	Connection Type Effective FromDate	The date and time from which the Connection Type is in effect.	N/A	Registration Service	LDSO	DT-003	String	
DI-017	Consent Granularity	Describes the granularity of energy settlement data that a customer has deemed to have consented to.	N/A	Supplier	Supplier		String	
DI-018	Consent Granularity Effective From Date	The date from which the consent granularity was in effect.	N/A	Supplier	Supplier	DT-003	String	
DI-019	Contract Reference Metering Service	The unique reference of the contractual agreement between a supplier and the data service.	J0048	Supplier	Supplier		String	
DI-020	Contract Reference Data Service	The unique reference of the contractual agreement between a supplier and the metering service.	J0048	Supplier	Supplier		String	
DI-021	Customer Direct Contract Metering Service	An indicator to show if a direct customer contract exists between the customer at the metering service and the Metering Service provider.	N/A	Metering Service	Metering Service		Boolean	

API Definitions

SMARTBEAR
SwaggerHub™

SubmitEvents

1.0

Try API Exploration Beta

Servers

https://virtserver.swaggerhub.com/MHHSPPROGRAMME/SubmitEvents/1.0 - SwaggerHub AP...

Authorize

Submit Event/Messages

POST

/submitEvents

Submit a series of events/messages

Get Event/Messages

POST

/fetchEvents

Webhook to pull a series of events/messages

Submit Status Messages

POST

/sendStatusMessages

Submit a series of status messages

Get Status Messages

POST

/fetchStatusMessages

Webhook to pull a series of status messages

ELEXON

DIP Roles, DIP Ids & Message Channels (I)

UK Power Networks

02366906	EASTERN POWER NETWORKS PLC	GB
03929195	LONDON POWER NETWORKS PLC	GB
03043097	SOUTH EASTERN POWER NETWORKS PLC	GB

DIP ID	DIP ROLES
0236690600	UMSO, REGS, LDSO
0392919500	UMSO, REGS, LDSO
0304309700	UMSO, REGS, LDSO

Company Number	MPID	Market Role ID
02366906	EELC	3
02366906	EELC	P
02366906	EELC	R
03929195	LOND	3
03929195	LOND	P
03929195	LOND	R
03043097	SEEB	3
03043097	SEEB	P
03043097	SEEB	R

DIP Role Code	DIP Id	Datetime From	Datetime to
UMSO	0236690600	15/08/2018	
REGS	0236690600	15/08/2018	
LDSO	0236690600	15/08/2018	
UMSO	0392919500	11/04/2018	
REGS	0392919500	14/08/2013	
LDSO	0392919500	15/06/2011	
UMSO	0304309700	20/03/2013	
REGS	0304309700	15/11/2017	
LDSO	0304309700	15/11/2017	

E.ON

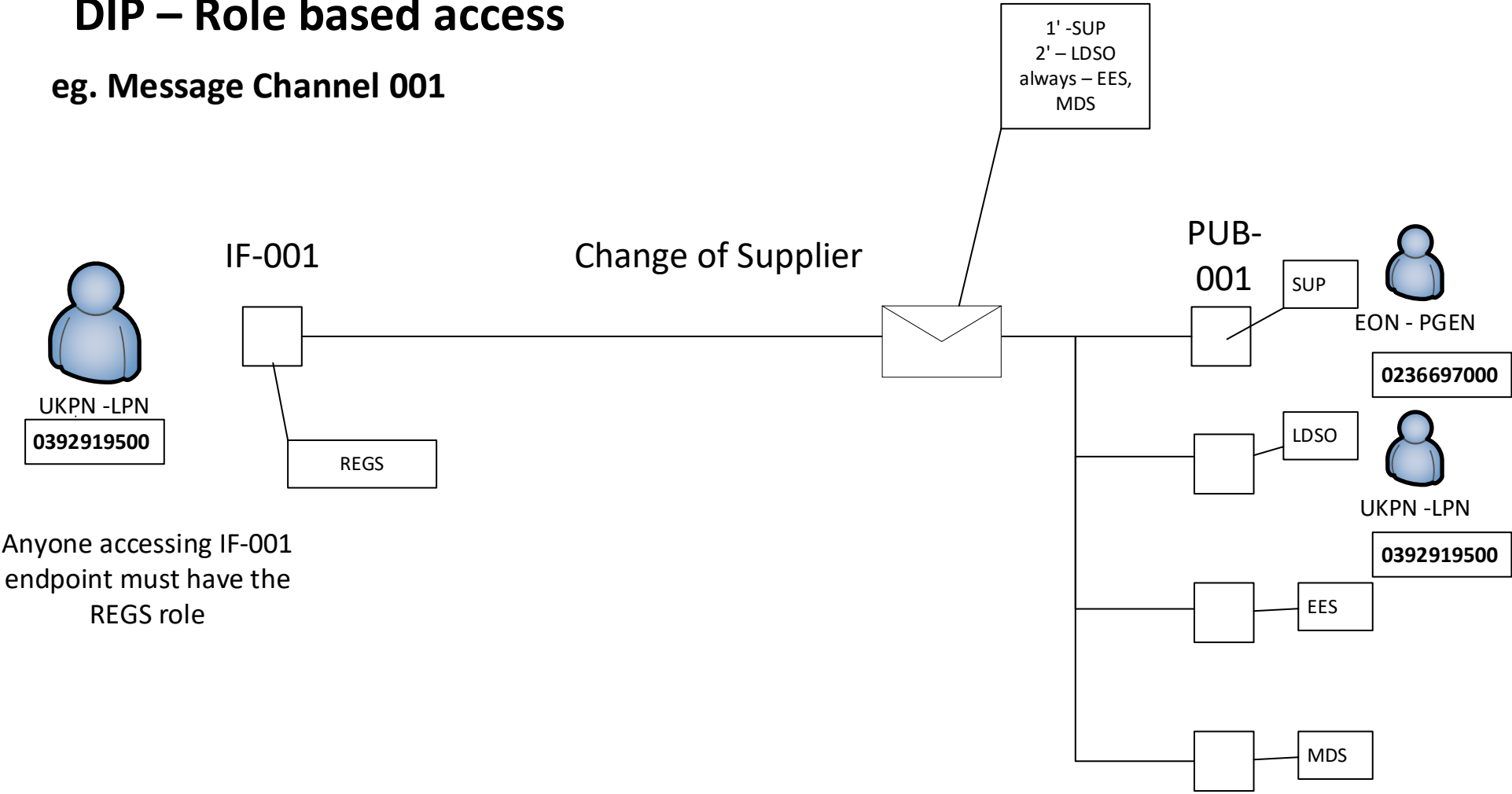
Supplier (SUP)

03407430	E.ON ENERGY SOLUTIONS LIMITED	GB
03782443	E.ON NEXT ENERGY LIMITED	GB
05615669	E.ON UK ENERGY SERVICES LIMITED	GB
02366970	E.ON UK PLC	GB

Company Number	MPID	Market Role ID	DIP Role Code	DIP Id	Datetime From	Datetime to
02366970	PGEN	X	SUP	0236697000	15/08/2018	
03407430	ECON	X	SUP	0340743010	15/08/2018	
03407430	EELC	X	SUP	0340743001	15/08/2018	
03407430	EENG	X	SUP	0340743002	11/04/2018	
03407430	EMEB	X	SUP	0340743003	14/08/2013	
03407430	EPHH	X	SUP	0340743004	15/06/2011	
03407430	NORW	X	SUP	0340743005	20/03/2013	
03782443	COMT	X	SUP	0378244301	15/11/2017	
03782443	EOND	X	SUP	0378244302	15/11/2017	
03782443	PION	X	SUP	0378244303	20/03/2013	
03782443	ROSE	X	SUP	0378244304	15/11/2017	
03782443	SYMB	X	SUP	0378244305	15/11/2017	

DIP – Role based access

eg. Message Channel 001





INFORMATION SECURITY

Ofgem Requirements

- Encryption requirements
 - Original requirement for end to end encryption
 - E2E Encryption is hard to implement for 1 to many messaging scenario when using Digital certificates
 - Requires all Market Participants to have shared key materials.
 - This would require hundreds of shared key materials (Greater risk of exposure)
- Agreed Alternative option to encryption
 - mTLS – Transport layer encryption
 - Digital certificates – Signing all message
- Data Privacy Impact Assessment (DPIA) Requirements
 - Publisher to have DPIA in-place
 - DIP SP to have DPIA in-place
 - Subscriber to have DPIA in-place
 - DIP Manager to verify Market Participants have valid DPIA's during on boarding process

Data Security Categories

- Four data security categories have been identified from the business flows and associated data items that route through the DIP
- After further analysis and assessment of the technical requirements a single security pattern was decided upon
 - Multiple security patterns had been previously identified but were discounted
- Security Pattern 1 - All messages will be digitally signed
 - The publisher digitally signs the message using private keys provided by MHHS DIP
 - The DIP verifies the message from the publisher
 - The MHHS DIP signs the message using its Private Key
 - The recipient verifies the message data using the public key of the MHHS DIP

Table 1 below describes the data security categories, the security pattern and associated actions that need to be applied:

Category	Description	Security Pattern
1	Public Data	Digitally signed [1]
2	MPAN	Digitally signed [1]
3	MPAN + PII	Digitally signed [1]
4	MPAN + Consumption data	Digitally signed [1]

Data Classification



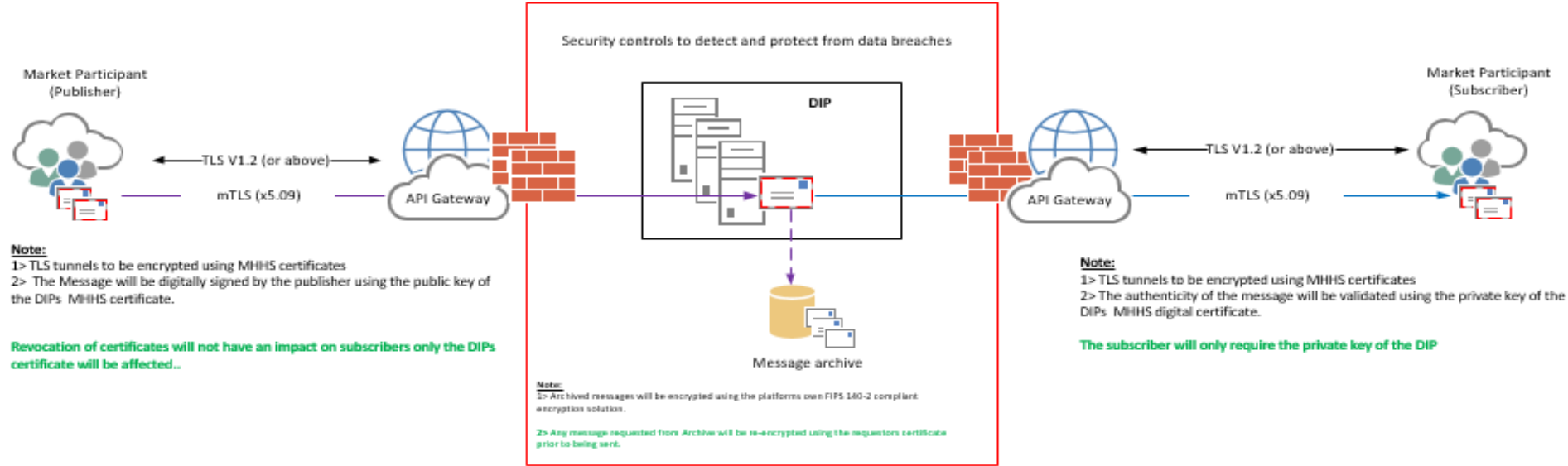
MHHS - Interface Data Item Catalogue v0.35

MHSP Data Item ID	Data Item	Definition	DTN ID	Authoritative Source	MHHS Owner	Data Classification	MHHS Data Grouping Name	MHSP Data Type	Data Type	String Length Min	String Length Max
DI-007	Address Line 7	Recommended to be Dependent Locality	J0142	Registration Service	LDSO	Public	MPAN_Address	DT-001	String		40
DI-008	Address Line 8	Recommended to be Locality / Post Town	J0143	Registration Service	LDSO	Public	MPAN_Address	DT-001	String		40
DI-009	Address Line 9	Recommended to be County	J0144	Registration Service	LDSO	Public	MPAN_Address	DT-001	String		40
DI-010	Metering Point Postcode	The full postcode of the metering point site.	J0263	Registration Service	LDSO	Public	MPAN_Address	DT-007	String		10
DI-015	Connection Type Indicator	A code to indicate the type of connection.	N/A	Registration Service	LDSO	Public	MPAN_Physical		String	1	1
DI-016	Connection Type Effective FromDate	The date and time from which the Connection Type is in effect.	N/A	Registration Service	LDSO	Public	MPAN_Physical	DT-003	String	25	25
DI-017	Consent Granularity	Describes the granularity of energy settlement data that a customer has deemed to have consented to.	N/A	Supplier	Supplier	Public	MPAN_Supplier		String		1
DI-018	Consent Granularity Effective From Date	The date from which the consent granularity was in effect.	N/A	Supplier	Supplier	Public	MPAN_Supplier	DT-003	String	25	25
DI-019	Contract Reference Metering Service	The unique reference of the contractual agreement between a supplier and the data service.	J0048	Supplier	Supplier	Commercial in Confidence	Appointment_Supplier		String		50
DI-020	Contract Reference Data Service	The unique reference of the contractual agreement between a supplier and the metering service.	J0048	Supplier	Supplier	Commercial in Confidence	Appointment_Supplier		String		50
DI-021	Customer Direct Contract Metering Service	An indicator to show if a direct customer contract exists between the customer at the metering service and the Metering Service provider.	N/A	Metering Service	Metering Service	Public			Boolean	1	1
DI-022	Customer Direct Contract Data Service	An indicator to show if a direct customer contract exists between the customer at the metering service and the Data Service provider.	N/A	Data Service	Data Service	Public	MPAN_DS		Boolean	1	1
DI-023	Data Service Effective From Date	The date and time from when a data service will be responsible for a metering point. Initially assumed to be midnight UTC.	J0129	Registration Service	Supplier	Public		DT-003	String	25	25
DI-026	DCC Effective From Date	The inclusive calendar date from which the DCC service flag applies.	J1834	DCC	DCC	Public	MPAN_DCC	DT-003	String	25	25
DI-025	DCC Service Flag	A flag indicating the status of services being provided by the DCC for the metering point.	J1833	DCC	DCC	Public	MPAN_DCC		String		1
DI-027	Disconnection Effective From Date	The date on which the connection point is physically removed from the metering system.	J0473	Registration Service	Registration Service	Public	MPAN_Disconnection	DT-003	String	25	25

Digital Signing

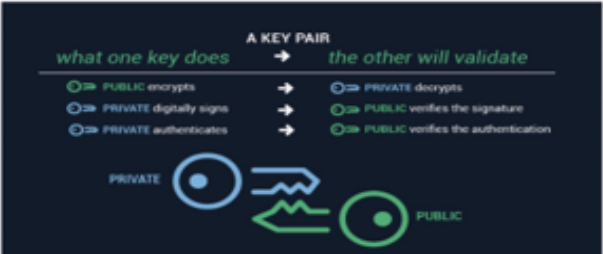
Pattern 1 - Digitally signing only.

- DIP:**
- 1> The authenticity of the message will be validated using the public key of the Publishers' MHHS digital certificate.
 - 3> The DIP will archive a copy of the publishers message using the platform's own encryption (FIPS 140-2 compliant)
 - 4> The DIP will lookup the list of agent identifiers associated with the MPaN sent in the header of the message from the publisher.
 - 5> Every message sent by the DIP (unencrypted) will be digitally signed with the DIPs own private key.
 - 6> The DIP will forward a copy of the message to each subscriber (agent identifier). This could be one or many subscribers



PKI Services

MHHS certificates can be distributed and managed via the PKI infrastructure delivered by the DCC in support of the Faster Switching Programme. (SWIK)



- Working with Avanade to ensure the security design meets the NFRs
- Multiple work streams in-progress
- Governance Risk and Control
 - Alignment with Elexon on governance and risk
 - Security management plan
 - ISO27001:2022
 - DPIA
 - Cyber incident response plan
- Message security
 - API definitions
 - JSON descriptions for digital signing
 - Secure storage of messages using FIPS-140 encryption algorithms
- Interface code of connection
 - PKI policy
 - mTLS
 - User portal access



DATA PROTECTION CONSIDERATIONS

Data Protection Considerations

- **DIP Manager as Data Processor**
 - Our initial view is that the DIP Manager would act as a Data Processor, due to the fact that he would merely receive Data and pass it on
 - The control of the Data would sit with the entity providing it
 - The DIP Manager would act upon and be limited by the instructions that are set out in the Code
- **Data Processing during onboarding**
 - We will include data processing and handling during onboarding, and we will provide guidance on our minimum expected standard too based on Energy Data Taskforce's data best practice
 - The Code will contain a specific section on Data Protection and Processing. This will include the general obligation that all participants will comply with Data Protection Legislation
- **Third Party Participants**
 - How will third parties be bound by data protection obligations?
 - Third parties and data access is still to be determined and the mechanics can be concluded during implementation, but our thinking at this time is that we there will be some sort of license agreement
- **How would our position change if we were required to store data and answer to subsequent data requests?**
- **Considering taking external legal advice**

Data Processors vs. Data Controllers

- Controllers can determine the purposes and means of processing alone, or jointly with others – as a joint controller
- Processors act on behalf of the relevant controller and under their authority
 - They serve the controller's interests rather than their own
- Although a processor may make its own day-to-day operational decisions, it should only process personal data in line with a controller's instructions
- Controllers have more obligations under the UK GDPR than processors do, because they decide what personal data is collected and why, and exercise ultimate control over the data
- Processors have fewer obligations, but must be careful to only process personal data in line with the relevant controller's instructions
- On this basis it appears that the DIP Manager will be a data processor, whose instructions and obligations are expressly set out in the Code



DATA BEST PRACTICE GUIDANCE

Data Best Practice

- Energy Data Taskforce, led Energy Systems Catapult (ESC) made [five key recommendations](#) in June 2019 to move towards a 'Modern, Digitalised Energy System':
 - **Data Visibility:** Understanding the data that exists, the data that is missing, which datasets are important, and making it easier to access and understand data.
 - **Infrastructure and Asset Visibility:** Revealing system assets and infrastructure, where they are located and their capabilities, to inform system planning and management.
 - **Operational Optimisation:** Enabling operational data to be layered across the assets to support system optimisation and facilitating multiple actors to participate at all levels across the system.
 - **Open Markets:** Achieving much better price discovery, through unlocking new markets, informed by time, location and service value data.
 - **Agile Regulation:** Enabling regulators to adopt a much more agile and risk reflective approach to regulation of the sector, by giving them access to more and better data.
- In follow-up to this report, ESC were tasked by BEIS, Ofgem and Innovate UK to develop Data Best Practice Guidance
- ESC's [guidance](#) is based on collaboration with large a large number of stakeholders
- Best practice is designed to support 'transition towards a modern, digitalised energy system that enables net zero'

Best Practice Guidance

- Latest guidance published by Ofgem in November 2021 identifies eleven Data Best Practice Guidelines:
 1. Identify the roles of stakeholders of Data Assets
 - Identify the Data Custodian, Data Subjects, Data Controllers and Data Processors
 - We will do this through the code and guidance
 2. Use common terms within Data Assets, Metadata and supporting information
 - Label and describe Data Assets and Metadata using a taxonomy that is commonly recognised by practitioners who use the Metadata across the relevant subject matter domain
 - Engaging with Programme and Avande
 3. Describe data accurately using industry standard Metadata
 - Make it easy for DIP users to be able to use and understand information that describes each data set by providing metadata associated with data assets; this metadata must be made available to DIP users independent of the data set
 - Engaging with Programme and Avande
 4. Enable potential Data Users to understand Data Assets by providing supporting information
 - Make available supporting information that DIP users may require to realise benefits for consumers, stakeholders and Public Interest
 - Open data processes
 5. Make Data Assets discoverable for potential Data Users
 - Ensure DIP users can identify data sets that users are the Data Custodian of, and how DIP users can pursue access to these Data Assets
 - Will identify Data Custodian, Data Handlers etc. in Code and guidance
 6. Learn and deliver to the needs of current and prospective Data Users
 - Identify the product and service requirements of DIP users who use, or who wish to use DIP data sets
 - Issue 101 is helping to identify potential users, will be augmented by stakeholder engagement and consultation

Best Practice Guidance

- Latest guidance published by Ofgem in November 2021 identifies eleven Data Best Practice Guidelines:
 7. Ensure data quality maintenance and improvement is prioritised by Data User needs
 - This refers to the responsibility of Data Custodians, not Data Handler
 - As discussed previously, on-boarding process will ensure DIP users have appropriate processes in place, this will be augmented by DIP Manager's guidance
 8. Ensure Data Assets are interoperable with Data Assets from other data and digital services
 - This refers to the responsibility of Data Custodians, not Data Handler
 - As discussed previously, on-boarding process will ensure DIP users have appropriate processes in place, this will be augmented by DIP Manager's guidance
 9. Protect Data Assets and systems in accordance with Security, Privacy and Resilience (SPaR) best practice
 - Ensure that compliance with this guidance does not negatively impact compliance with relevant regulations, legislation and SPaR requirements
 - Elexon legal counsel is advising and we will ensure through consultation and Authority review this is adhered to
 10. Store, archive and provide access to Data Assets in ways that ensure sustained benefits
 - This refers to the responsibility of Data Custodians, not Data Handler
 - As discussed previously, on-boarding process will ensure DIP users have appropriate processes in place, this will be augmented by DIP Manager's guidance
 11. Treat all Data Assets, their associated Metadata and Software Scripts used to process Data Assets as Presumed Open
 - This refers to the responsibility of Data Custodians, not Data Handler
 - As discussed previously, on-boarding process will ensure DIP users have appropriate processes in place, this will be augmented by DIP Manager's guidance



OPEN DATA PROCESS

Open data principles

- DIP will not be a data lake/warehouse/etc. – it will be a portal that data passes through
 - There will be an ability to ‘replay’ messages sent via the portal
- Elexon, as an umbrella organisation (BSCCo, MHHS Programme, DIP Manager) recognises the need to share data
- Elexon will make MHHS consumption data available via BSC Central Services in their Data Acquisition Hub (DAH)
- Data Custodians – those that generate and/or consume data should be primary contacts for data requests
 - This is why the on-boarding will include data access processes
 - We, as DIP Manager will provide guidance on what we deem to be minimum requirements for Open Data principles and handling
- DIP Manager may still be able to access data and meet data access requests
 - Guidance provided above will reflect DIP Manager’s own process

YOU CAN GET

DIP DATA

YOU GET

GET

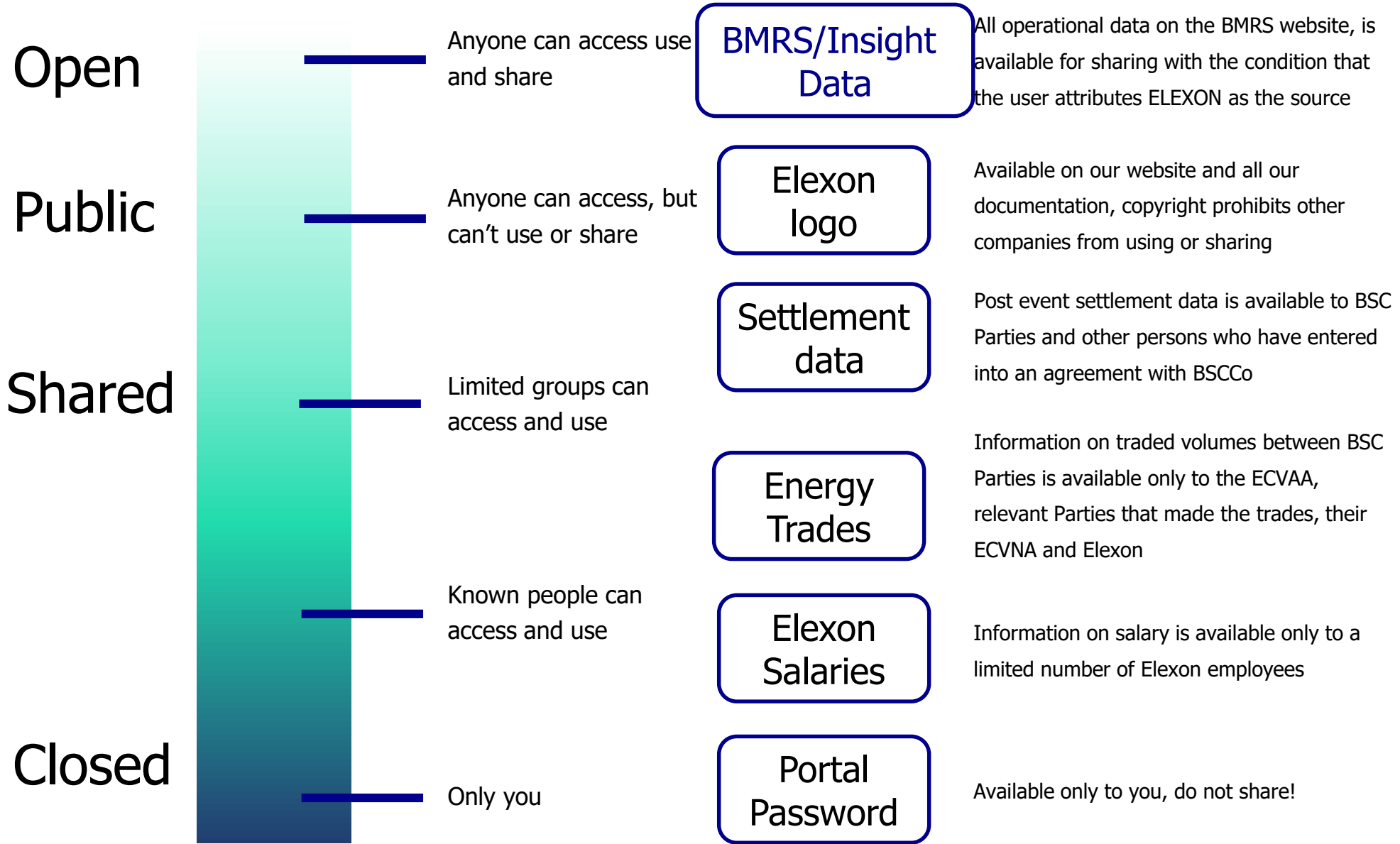
DIP DATA

EVERYONE GETS

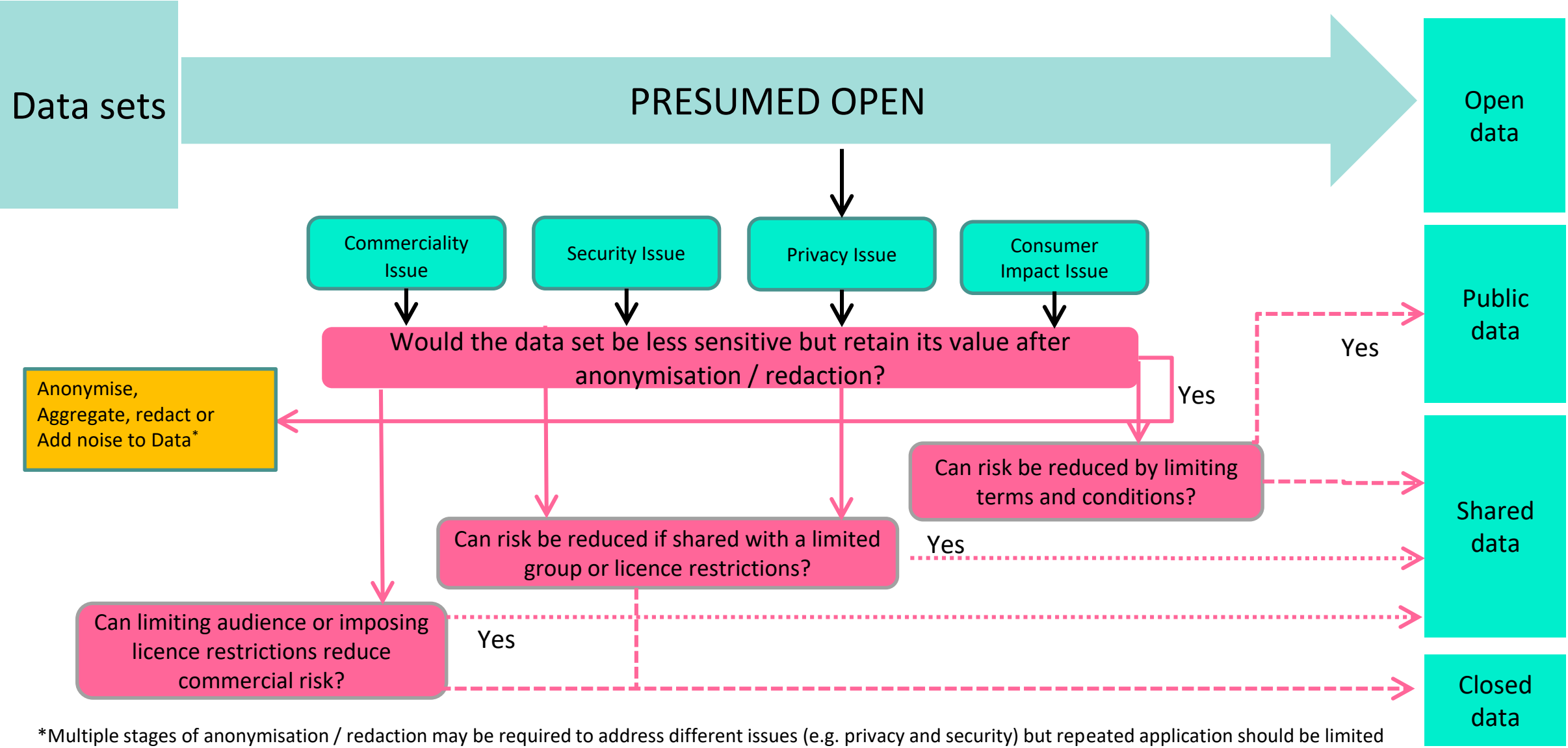
DIP DATA

makeame

Scale of how open the access to data is



Classification of Data - Triage



*Multiple stages of anonymisation / redaction may be required to address different issues (e.g. privacy and security) but repeated application should be limited

Potential mitigation techniques (not conclusive)

Redaction

- Removal of sensitive data

Anonymisation

- Removal of personal data

Aggregation

- Combine data sets so the collective sum is less sensitive

Limitation

- Only share with specific individuals or group(s)

Noise

- Combine original data with meaningless data to confuse

Delay

- Wait until data is less sensitive before sharing

Differential Privacy

- Obscuring the data in such a way as to mask original identities

Shift/rotate

- Altering the position or orientation of spatial or time series data

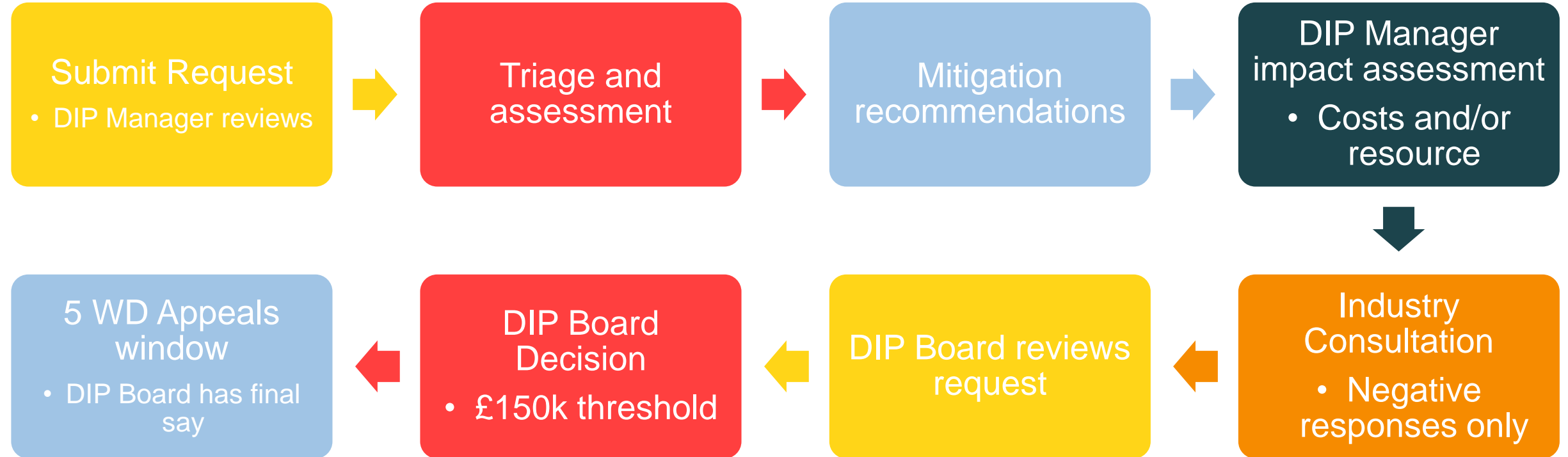
Randomisation

- Making random changes to data

Normalisation

- Modifying data to reduce the difference between individual subjects

Presumed open data process for DIP Manager





NEXT STEPS

Next steps

- Summary of Workgroup meeting decisions and actions by 17 March 2023
- Issue Group Meeting 7 to be arranged

MEETING CLOSE

ELEXON

THANK YOU

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