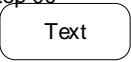| Version	Description	Author	Date
0.01	First draft	MHHS Programme	15/11/2021
0.02	Updated after design team review	MHHS Programme	23/11/2021
0.03	Updated after design team review of MDS	MHHS Programme	26/11/2021
0.04	Updated after ECS sub group review of LSS	MHHS Programme	26/11/2021
0.05	Updated after ECS sub group comments of LSS	MHHS Programme	15/12/2021
0.06	Updated after ECS sub group meeting of LSS	MHHS Programme	21/12/2021
0.07	Updated following ECS sub group comments	MHHS Programme	05/01/2022
0.08	Updated after ECS sub group meeting (07/01/2022) of LSS	MHHS Programme	11/01/2022
0.09	Updated after ECS sub group meeting (14/01/2022) of LSS	MHHS Programme	14/01/2022
0.091	Final comments from ECS sub group incorporated, issue to BPRWG	MHHS Programme	27/01/2022
0.091	Final comments from ECS sub group incorporated, issue to BPRWG	MHHS Programme	27/01/2022
1.1	Updated following design team review	MHHS Programme	17/03/2022
1.2	Updated following BPRWG comments	MHHS Programme	24/03/2022
1.3	Updated following BPRWG Tranche 1 Review 2 comments	MHHS Programme	14/04/2022
2.0	Version for DAG approval	MHHS Programme	26/04/2022
2.1	Updated following reconciliation of attributes required for ECS	MHHS Programme	28/07/2022
2.2	Updated following internal review	MHHS Programme	01/08/2022
3.0	Tranche 4 review	MHHS Programme	05/08/2022
3.5	Issued for Industry Review	MHHS Programme	14/10/2022
4.6	Issued for M5 Work Off Plan approval	MHHS Design Team	20/01/2023
5.0	DAG Baseline	MHHS Design Team	16/02/2023

Reference	Description	Version	Date
[BPD]			

MHHSP – Business Process - Key

Item	Description
	Process
Step 00 Text	Task
X	Decision gateway
+	Initiate multiple steps
+	Collapsed sub-process
	Message
	Start BPM
	End BPM
→	Sequence flow – Black = Process Step / Blue = DIP Output
o– – –▷	Message flow - Orange = 3rd Party / Red = TBD

MHHSP-BP-018 – Load Shaping Service – v5.0

MHHS PROGRAMME
Industry-led, Elexon facilitated

Business Process Description
This BPMN diagram describes the 'Load Shaping Service'

Actors
Data Integration Platform (DIP)
Load Shaping Service (LSS)
Industry Standing Data (ISD)
Market-wide Data Service (MDS)

MHHS Interfaces
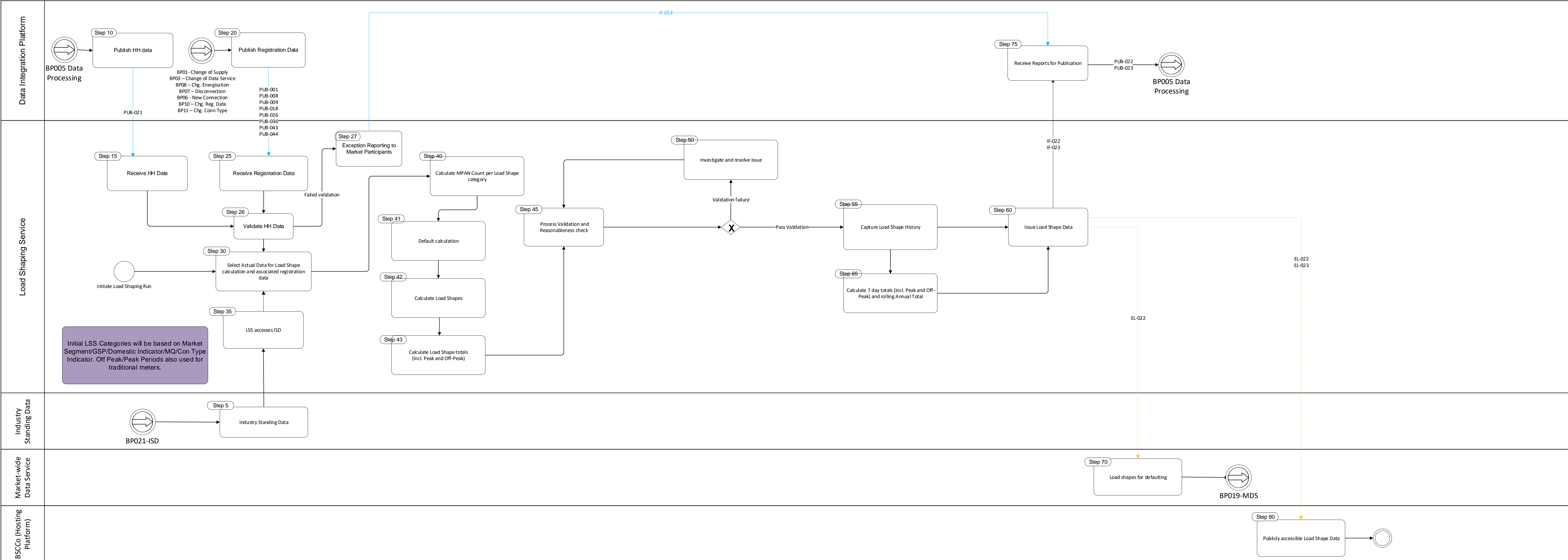|	
MHHS-EL-022	MHHS-EL-023
MHHS-IF-001	MHHS-IF-008
MHHS-IF-009	MHHS-IF-018
MHHS-IF-021	MHHS-IF-022
MHHS-IF-023	MHHS-IF-026
MHHS-IF-036	MHHS-IF-043
MHHS-IF-044	

Publication List
PUB-001	PUB-008
PUB-009	PUB-018
PUB-021	PUB-022
PUB-023	PUB-026
PUB-036	PUB-043
PUB-044	

BPM Entry
BP005-Data Processing
BP010-Change of Registration Data

BPM Exit
BP005-Data Processing
BP019-MDS

Data Integration Platform

BP005 Data Processing

Step 10 — Publish HH data

Step 20 — Publish Registration Data
BP01- Change of Supply
BP03 – Change of Data Service
BP08 – Chg. Energisation
BP07 – Disconnection
BP06 – New Connection
BP10 – Chg. Reg. Data
BP11 – Chg. Conn Type

PUB-001
PUB-008
PUB-009
PUB-018
PUB-026
PUB-036
PUB-043
PUB-044

PUB-021

IF-014

Step 75 — Receive Reports for Publication

PUB-022
PUB-023

BP005 Data Processing

Load Shaping Service

Step 15 — Receive HH Data

Step 25 — Receive Registration Data

Step 27 — Exception Reporting to Market Participants

Failed validation

Step 26 — Validate HH Data

Step 40 — Calculate MPAN Count per Load Shape category

Step 50 — Investigate and resolve issue

Validation failure

Step 30 — Select Actual Data for Load Shape calculation and associated registration data

Initiate Load Shaping Run

Step 41 — Default calculation

Step 45 — Process Validation and Reasonableness check

X

Pass Validation

Step 55 — Capture Load Shape History

IF-022
IF-023

Step 60 — Issue Load Shape Data

EL-022
EL-023

Step 35 — LSS accesses ISD

Initial LSS Categories will be based on Market Segment/GSP/Domestic Indicator/MQ/Con Type Indicator. Off Peak/Peak Periods also used for traditional meters.

Step 42 — Calculate Load Shapes

Step 43 — Calculate Load Shape totals (incl. Peak and Off-Peak)

Step 65 — Calculate 7 day totals (incl. Peak and Off-Peak) and rolling Annual Total

EL-022

Industry Standing Data

BP021-ISD

Step 5 — Industry Standing Data

Market-wide Data Service

Step 70 — Load shapes for defaulting

BP019-MDS

BSCCo (Hosting Platform)

Step 80 — Publicly accessible Load Shape Data

Item	Description
ADS	Advanced Data Service
BPM	Business Process Model
BPMN	Business Process Modelling Notation
DIP	Data Integration Platform
ISD	Industry Standing Data
LSS	Load Shaping Service
MDS	Market-wide Data Service
MSA	Metering Service Advanced
MHHS	Market-wide Half Hourly Settlement
MSS	Metering Service Smart
SDS	Smart Data Service
SMRS	Registration Service
UMSDS	Unmetered Supply Data Service
UMSO	Unmetered Supplies Operator