

Draft ID	Risk title	Risk scope - what does it cover / include
1	The risk that a SVA site is registered incorrectly or not at all, such that the Data Collector doesn't collect metered data or the Data Aggregator is not instructed to aggregate, resulting in energy being overstated in or missing from Settlement	Settlement attributes and agents
2	The risk that Settlement attributes are not maintained such that the settlement volumes are not processed accurately, resulting in energy being misallocated	Standard Settlement Configuration, Time Pattern Regime, Profile Class
3	The risk that SVA metering systems are installed, programmed or maintained incorrectly, resulting in incorrect or estimated data entering Settlement	Initial installation, Subsequent works including maintenance and remote firmware upgrades
5	The risk that changes to metering equipment are not notified, such that the MOA, Data Collector and Supplier do not hold the correct MTDs, resulting in inaccurate data in Settlement	Meter exchange, Installation, Removal, Measurement Transformer change
6	The risk that a fault with the metering equipment is not resolved, such that metered data is recorded incorrectly or cannot be retrieved, resulting in estimated or inaccurate data in Settlement	
7	The risk that MTDs are not transferred or processed correctly, such that parties do not hold the latest MTDs, resulting in Settlement data being estimated or inaccurate	MTDs Auxiliary MTDs D313 Site details D0215

8	The risk that metered data is not retrieved, such that the proportion of estimated data being used in Settlement is too high, resulting in energy being allocated incorrectly	
9	The risk that metered data is not processed or processed incorrectly, such that the energy volumes required for Settlement are incorrect or not available, resulting in incorrect or estimated data in Settlement	
10	The risk that the DA does not process metered data correctly or at all, including transfer to SVAA, such that the energy volumes required for Settlement are incorrect or missing, resulting in missing, incorrect or default data in Settlement	
11	The risk that on Change of Supplier or Change of Agent, meter reading history is not transferred such that sufficient history is not available for validating and estimating energy volumes, resulting in inaccurate and estimated data in Settlement	
12	The risk that UMS volumes are calculated incorrectly resulting in incorrect data entering Settlement	

13	The risk that errors are made in the processing of metered data from export meters (or from import meters at premises with generation), resulting in incorrect or estimated data in Settlement.	Registration, metering, retrieval and processing of SVA registered export meters (NHH and HH, smart and non-smart). Also includes the impact of generation on import metering.
14	The risk that commissioning is not performed or documented, such that Metered Data is not confirmed as correct resulting in incorrect data entering Settlement	
15	The risk that Meter Technical Details are created incorrectly resulting in estimated, incorrect or missing Settlement data	
18	The risk that manual adjustments to metered data are not completed or completed incorrectly, resulting in estimated or incorrect Settlement data.	GVCs and dummy meter exchanges processed to correct errors within the fluid period, GVCs and dummy meter exchanges processed such that adjusted volumes are incorrect, Erroneous transfer, Long Term Vacant

21	The risk that Suppliers do not appoint agents at all, or such that SMRS is not complete or up to date, members of the Supplier Hub do not hold the correct MPID of other Hub members or the appropriate agents are not appointed, resulting in missing, estimated or default data in Settlement	Change of Supplier / Agent, New connection, Change of Measurement Class
22	The risk that reference data is not created at all or accurately, or used at all or correctly, such that settlement data is calculated on an inaccurate basis resulting in erroneous data in Settlement	Line Loss Factors, Profiling data, Aggregation rules (e.g. complex sites) - infrequent for SVA sites, Shared SVA metering arrangements, Market Domain Data
23	The risk that the SVAA does not use default data where appropriate, resulting in incorrect or missing data in Settlement	Timetabled Reconciliation Volume Allocation Run(s) for a Settlement Day (post Initial Volume Allocation Run)
24	The risk that the energisation status is incorrect resulting in incorrect, estimated or missing data in Settlement	
25	The risk that Parties do not pay FAA Advice Notes, such that Payment Default is triggered, resulting in default funding by other Trading Parties	
26	The risk that involuntary disconnections requested by the Transmission Company are not processed correctly, such that energy volumes are not appropriately calculated, resulting in erroneous data entering Settlement	
101	The risk that a CVA site is registered incorrectly or not at all, such that the CDCA doesn't collect data, resulting in energy being overstated in or missing from Settlement	
102	The risk that CVA metering systems are installed or programmed incorrectly, such that the metered data collected by the CDCA is inaccurate, resulting in incorrect data entering Settlement	

104	The risk that changes to metering equipment are not completed or notified, such that the CVA MOA, CDCA and Registrant do not hold the correct MTDs, resulting in inaccurate data in Settlement	
105	The risk that Meter Technical Details are created incorrectly resulting in estimated, incorrect or missing Settlement data	
106	The risk that commissioning is not performed correctly, such that Metered Data is not confirmed as correct, resulting in incorrect data entering Settlement	
107	The risk that metering equipment is faulty, such that metered data is recorded incorrectly or cannot be retrieved, resulting in estimated or inaccurate data in Settlement	
108	The risk that MTDs are not transferred or processed correctly, such that parties do not hold the latest MTDs, resulting in Settlement data being estimated or inaccurate	
109	The risk that metered data is not retrieved, such that the proportion of estimated data being used in Settlement is too high, resulting in energy being allocated incorrectly	
110	The risk that reference data is not created at all or accurately, or used at all or correctly, such that settlement data is calculated on an inaccurate basis resulting in erroneous data in Settlement or incorrect credit positions	Line Loss Factors, Transmission Loss Factors/Multipliers, Credit Assessment Load Factor, Market Domain Data, Generation Capacity / Demand Capacity, Daily Profile Co-efficients, Production/Consumption flags

111	The risk that Aggregation Rules in CDCA are missing or incorrect, such that CVA Metered Data is not correctly aggregated, resulting in missing or double counted data in Settlement.	
112	The risk that Parties do not pay FAA Advice Notes, such that Payment Default is triggered, resulting in default funding by other Trading Parties	
113	The risk that the SAA receives incorrect or no Metered Volumes or other data, such that calculations are performed using incorrect data, resulting in incorrect Energy Imbalance Volumes and incorrect amounts payable by or to Parties.	
115	The risk that the System Operator does not submit or submits incorrect Settlement data, resulting in erroneous System Price calculation.	
117	The risk that the SAA's calculations and processing are incorrect or use incorrect data, resulting in incorrect Energy Imbalance Prices and incorrect amounts payable by or to Parties	Credit, Reporting DNUOs and TNUOs, MIDS and BSAD data
118	The risk that the ECVA does not carry out processes correctly, resulting in incorrect Energy Imbalance Volumes and incorrect amounts payable to or by Parties or incorrect credit positions	Default Parties

119	The risk that the FAA does not accurately process Party financial information, such that Advice Notes and Credit positions are incorrectly calculated, resulting in erroneous payments or defaults.	Payment Calculation, Default Share Amounts, Payment Calendar, Interest charges, Ad-Hoc Trading Charges (ESDs), Advice Notes, Cash Credit Cover, Letter of Credit, Approved Insurance Product, Material Doubt, Payment Default
120	The risk that the BSCCo calculates default funding shares incorrectly resulting in incorrect amount payable by or to Parties.	
122	The risk that involuntary disconnections requested by the Transmission Company are not processed correctly, such that energy volumes are not appropriately calculated, resulting in erroneous data entering Settlement	
123	The risk that Settlement Volume Adjustments are not made, or are made incorrectly, resulting in incorrect Energy Imbalance Volumes and incorrect amounts payable by or to Parties	Demand control, Independent Aggregators (Virtual Lead Parties), Peer-Peer provisions

<b>Risk factors</b> - what can cause it	<b>Service</b>
1 - energised but not registered (includes LDSO notifying disconnection of wrong site) 2 - registered in SVA and CVA 3 - wrong meter registered instead / as well as right meter 4 - LDSO logically disconnects meters erroneously 5 - UMSO does not update SMRS of disconnection of an UMS 6 - Supplier registers supply as both UMS and metered	Registration
1 - Supplier registers incorrect attributes in SMRS 2 - DC calculates EAC/AA using wrong attributes 3 - MOA notifies DC/Supplier of wrong SSC/TPR 4 - Supplier notifies DC/MOA of wrong attributes	Attributes
1 - import / export 2 - faults including systemic issues with batch of meters 3 - incorrect MTDs 4 - incorrect MT ratios 5 - incorrect site technical details from LDSO 6 - firmware installation problems 7 - tampering	Meter installation and maintenance
1 - activities undertaken incorrectly by MOA or LDSO regarding exchange, installation, removal (detail to be added) 2 - change not reported 3 - change to HH site not notified between so that site not recognised and treated as complex (or ceases to be recognised as complex) 4 - complex sites mapping information not notified, including by customer	Notification of change to metering equipment
1 - DC raising flags as fault alerts 2 - MOA acting on the fault alerts 3 - LDSOs not maintaining LDSO-owned equipment 4 - fault identification and instigating investigations including potential tampering 5 - fault information not transferred on change of agent	Faults
1 - LDSO not providing site details on time / at all to the MOA 2 - Supplier passing on smart MTDs 3 - MOA passing to new MOA and within its Hub (DC, Supplier and LDSO) 4 - Change of Measurement Class 5 - Change of Supplier 6 - Change of DC 7 - Recipient not processing received MTDs 8 - Change of Supplier for remote read meters (failure to support interoperability) 9 - manually amending data in systems that is then not passed on to other participants 10 - complex sites supplementary information not passed MOA to DC	MTD transfer and process



1 - failure to access sites 2 - long term vacant sites not managed 3 - failure to dial remote read meters at sufficient frequency 4 - failure to install or maintain comms (have to spend extra resource getting manual / customer reads) including cost of line installation and lack of interoperability on CoS 5 - lack of sufficient signal for remote metering? 6 - agents directly contracting for meters they can't support 7 - address inaccuracy 8 - initial / final reads retrieved by MOA and LDSO where required 9 - failure to obtain CoS reads 10 - supplier not passing on reads to the DC	Retrieval of metered data
1- Supplier and/or DC validating 2 - DC estimating 3 - DC calculating EAC/Aas 4 - DC sending energy volumes (e.g. D0019 / D0036 / D0379) to DA	Processing of metered data
1 - processing of energy volumes from DC 2 - submission to SVAA 3 - aggregation run completeness / timing 4 - demand disconnection values not applied? 5 - corrections not submitted to SVAA for DF runs / ESDs	DA processes metered data
1 - for Supplier on legacy metering 2 - for all Change of DC (including CoMC?)	Meter read history
1 - UMSO / MA does not maintain an accurate inventory 2 - incorrect charging codes assigned 3 - energisation status for seasonal connections not adjusted 4 - MA does not operate the equivalent meter accurately	Unmetered Supplies

<ul style="list-style-type: none"> <li>1 - import/export channels mapped incorrectly or meter wired incorrectly</li> <li>2 - import meters without a 'backstop' can run backwards when generation is installed</li> <li>3 - NHH export processes are little used, but usage will increase as a result of FIT scheme rules and smart roll-out</li> <li>4 - NHHDA defaults EACs for export using Profile Class 8 import values, vastly overstating export values</li> </ul>	Export
<ul style="list-style-type: none"> <li>1 - failure to undertake commissioning test</li> <li>2 - failure to document commissioning test</li> <li>3 - failure to advise Supplier as to outcome of commissioning test</li> <li>4 - failure for Supplier to take action in regards to a failed commissioning test</li> <li>5 - failure to request commissioning records as required</li> <li>6 - failure to provide commissioning records upon request</li> <li>7 - process not completed or commissioning details not transferred on change of MOA</li> <li>8 - non-BSC Party Agents involved in commissioning</li> <li>9 - not clear ownership of measurement transformers</li> </ul>	Commissioning
<ul style="list-style-type: none"> <li>1 - capturing details incorrectly onsite</li> <li>2 - entering data incorrectly into systems</li> <li>3 - translating details from other flows (e.g. CoMC &amp; DCC serviced Meters)</li> <li>4 - manually amending data in systems that is then not passed on to other participants</li> <li>5 - incorrect complex sites supplementary information</li> </ul>	MTD creation
<ul style="list-style-type: none"> <li>1 - Settlement teams within Suppliers requesting dummy meter exchanges or GVCs without understanding the process or the Settlement impact of these actions</li> <li>2 - Dummy meter exchanges processed to correct transposed multiple register readings without the correct orientation of registers being confirmed</li> <li>3 - registrant does not instruct DA to submit data to SVAA for DF runs / ESDs</li> <li>4 - Processing of revenue protection readings / volumes - timely by Supplier, done by agent</li> <li>5 - demand disconnection values not applied?</li> <li>6 - LTV process not followed</li> </ul>	Manual adjustments

1 - overlapping appointments 2 - Supplier not populating agents in SMRS before physical energisation 3 - Supplier and agents not managing appointments, including processing and acting on rejections 4 - Supplier not notifying all agents in the hub on each other's identity 5 - Supplier not appointing the correct HH or NHH agents on CoMC	Agent appointments
1 - LDSOs creating or providing compliant Line Loss Factors 2 - [agent] use right LLF 3 - Profiling Agent creates Profile information 4 - SVAA uses profiling information 5 - MDD created incorrectly or latest versions not used	Reference Data
1 - DA file missing 2 - DA file incorrect/failed validation	Settlement Runs
1 - Failure to notify 2 - Incorrect notification	Energisation Status
	Payment Default
1 - Embedded LDSOs, Data Collectors and Data Aggregators are not informed of the affected MSIDs by the LDSO 2 - Data Collectors do not correctly estimate disconnection volumes 3 - Data Aggregators do not correctly aggregate disconnection volumes	Demand Disconnection
1 - energised but not registered (missing) 2 - registered in CVA and SVA (overstated) 3 - wrong meter registered instead / as well as right meter (over/understated)	Registration
1 - import / export 2 - faults 3 - incorrect MTDs 4 - incorrect MT ratios	Installation

1 - CVA MOA actions 2 - Transmission Company taking actions on equipment they own without informing the Registrant (likely LDSO) 3 - exchange, energisation, de-energisation, installation, removal	Change to Metering Equipment
1 - capturing details incorrectly onsite 2 - entering data incorrectly into systems	MTD creation
	Commissioning
1 - installation 2 - commissioning 3 - clock drift 4 - modem faults or issues 5 - comms failures or issues (tbc)	Faults
1 - CVA MOA doesn't send to the CDCA and registrant 2 - CDCA manually enters and processes MTDs received incorrectly	MTD transfer and process
1 - Line Loss Factors incorrect 2 - Communication faults 3 - Central systems failure 4 - Removal of Metering Equipment before de-registering a BM Unit (because site is demolished)	Retrieval of metered data
1 - LDSOs creating Line Loss Factors 2 - Transmission Loss Factor Agent creating Transmission Loss Factor / Transmission Loss Multipliers 3 - ELEXON creating the Mapping Statement 4 - CDCA uses right LLF, TLF/TLM, CALF 5 - SVAA uses right LLF	Reference Data

1 - registrant creates incorrectly 2 - CDCA inputs rules incorrectly	Aggregation rules
1 - Supplier of Last Resort (could come before/after Payment Default), could include going into Administration (Section H default) 2 - Insufficient credit cover lodged / updated letter of credit not submitted 3 - Extreme prices 4 - Bank details not maintained	Payment Default
1 - Market Index Data (from MIDP) 2 - BM Data (BMRA) 3 - Account Bilateral Contract & Meter Volume Reallocations (from ECVA) 4 - BM Unit Meter Volumes (from IA) 5 - GSP Group Take, Aggregated Meter Volumes & Interconnector Flow (from CDCA) 6 - Supplier BM Unit Metered Volumes (except Interim Information Runs) (from SVAA)	SAA input data
1 - Bids and offers 2 - Balancing Services Adjustment Data	Settlement data
1 - SAA calculates cashflows incorrectly 2 - SAA calculates Bid/Offer volumes incorrectly 3 - SAA incorrectly calculates Energy Imbalance Volumes 4 - SAA incorrectly calculates Energy Imbalance Prices 5 - SAA uses incorrect imbalance price parameters 6 - SAA uses incorrect or erroneous input data, or data is missing	SAA calculations
1 - ECVA sends incorrect Aggregate Energy Contract Volumes to the SAA 2 - ECVA carries out Volume Notification rejection and refusal incorrectly following Panel resolutions on a defaulting Party 3 - ECVA calculates Energy Indebtedness incorrectly 4 - ECVA does not use the agreed Credit Assessment Price value	ECVA processes

1 - Invalid customer credit contact details 2 - Missing or incorrect payment reference 3 - Incorrect payment account details 4 - Bank credit ratings 5 - Overpayments/Underpayments	Processing party data
	Default Funding Shares
1 - Transmission company does not notify SVAA of voluntary disconnected Metering Systems 2 - SVAA does not notify DC/DA of voluntary disconnected Metering Systems 3 - CDCA does not correctly estimate disconnection volumes 4 - SVAA and SAA do not correctly process disconnection volumes 5 - SAA does not correctly process demand control instructions	Demand Disconnection
	Settlement Volume Adjustments

Category	Market - HH, NHH, CVA	Notes / Assumptions	Controls
Registration and Appointments	HH, NHH		
Registration and Appointments	HH, NHH		
Metering	HH, NHH	No requirement to identify smart meters specifically within this risk	Commissioning, Proving tests, Post energisation checks. Fault reporting process, Data validation, Main/check comparisons
Metering	HH, NHH	Increased volume of meter exchanges with smart rollout, including interoperability issues	
Metering	HH, NHH		
Metering	HH, NHH		

Data retrieval and processing	HH, NHH		
Data retrieval and processing	HH, NHH		
Data retrieval and processing	HH, NHH		D0023 exception report
Data retrieval and processing	HH, NHH		
Data retrieval and processing	HH, NHH		



Data retrieval and processing	HH, NHH	<p>Excludes the impact of spill from unregistered generation, which impacts demand forecasting, but not Settlement per se.</p> <p>There is the potential for an increase of circa a million NHH export MPANs during the smart roll-out, as deemed export payments can be claimed under the FIT scheme, where HH-capable metering is installed.</p>	Default EAC Monitoring Report, data validation
Metering	HH, NHH		
Metering	HH, NHH		
Data retrieval and processing	HH, NHH		D0095 (Non Half Hourly Data Aggregation Exception Report), EAC/AA Exception Report

Registration and Appointments	HH, NHH		
Registration and Appointments	HH, NHH		LLF audits
Central aggregation and trading charges	HH, NHH		
Metering	HH, NHH		
Central aggregation and trading charges	HH, NHH		
Central aggregation and trading charges	HH, NHH		
Registration and Appointments	CVA		
Metering	CVA		Commissioning, Proving tests, Post energisation checks, Fault reporting process, Data validation, Main/check comparisons, BSC permissions

Metering	CVA	Could be more impact from TC actions in E&W than Scotland as those are more integrated TC/LDSO	
Metering	CVA		Proving tests
Metering	CVA		ELEXON does not approve site energisation until registrations are completed. Post energisation check (not in BSCP02) to ask the Registrant to confirm flow direction and magnitude - confirms commissioning and proving.
Metering	CVA	Meters should have outstation clock drift functionality switched on	Commissioning, Proving tests, Post energisation checks, Fault reporting process, Data validation, Main/check meter comparisons
Metering	CVA		
Data retrieval and processing	CVA		ELEXON review of new or changed Aggregation Rules on behalf of CDCA, Guidance produced for Registrants on production of Aggregation Rules (to supplement BSCP75 examples)
Registration and Appointments	CVA		LLF audits TFLA reviewer

[illegible]

Central aggregation and trading charges	CVA		
Central aggregation and trading charges	CVA		
Central aggregation and trading charges	CVA	Could align with Settlement adjustments risk 123?	
Central aggregation and trading charges	CVA	Assuming P344 approved	

<b>Risk Indicators</b> - how could we evaluate it












