

## SPECIFICATION OF DISAGGREGATED SETTLEMENT REPORT

This appendix sets out the format and detailed content of the Disaggregated Settlement Report for all Settlement Runs other than RF. The output file is a CSV with 40 columns with all records having the same structure. The report file is created after each settlement run; it uses the identical data as its associated Aggregated Settlement Report. The reports for the CMA and SW contain some 600-700,000 records; reports for LPs will depend on the number of SPIDs.

The reports contain details of all water and sewer charges at Service Element level:

- The generic rules are set out in the Section APP 3.1;
- The derivation of each field is set out in Section APP 3.2; and
- The format and type of each field are set out in Section APP 3.3.

## APP 3.1: General Information

### File Structure

There are three extracts within this set; all have the same structure:

- X21: Detailed Settlement Data Extract for the CMA;
- X22: Detailed Settlement Data Extract for SW showing all data items except the ID of the LP; and
- X23: Detailed Settlement Data Extract for LPs with data restricted to a specific LP.

The file name has the format X2n\_XXXX\_09CP01APRP1\_20090304050747.xxx where:

- X2n defines the file type X21, X22 or X23;
- \_XXXX\_ defines the recipient;
- 09CP01APR defines the year and the Invoice Period (IP);
- P1, R1, R2, R3 defines the settlement run type;
- \_2009mmddhhmmss defines the date and time of the report; and
- xxx – the file is created as a .txt file but is usually compressed into a .zip file with the same file name for transmission to Market Participants.

The field separator is the pipe character "|"; if the field is blank then the record will contain "||" for each blank field. Quotations are not used to separate fields but may occasionally be found in address fields.

### SPID inclusion rules

A SPID will be reported if it has a Service Element (SE) which has a charge or a volume with a zero charge.

Trade Effluent charges are not reported:

- A SPID with only TE charges will not be reported at all; and
- Where a SPID has both TE and other charges, only the other charges are reported.

The vacancy status of a SPID has no impact on whether the SPID is reported or not.

### Attribute Values

Where an attribute of a SPID is changed during the period it is the value at the end of the period that is reported.

All reports will show the gross volumes. Any applicable reduction in charges is achieved by scaling down the charging rate; this will affect Schedule 3; 29e and Service Elements affected by Phasing Transitional Arrangements.

### Rules for X23: Supporting Settlement Data Extract for LPs:

LPs only receive data for SPIDs registered to them and this is limited to the period of registration.

If there are no charges for the LP then there will be no extract provided for that LP.

A Sewerage Service LP shall receive metering information that is directly related to sewerage charges.

## APP 3.2: Field Derivation Information

The disaggregated file is a flat file where all records have the same structure; however there are several conceptual levels within a record:

- Level 1 is at ORGID level;
- Level 2 is at SPID level;
- Level 3 is at Service Element level; and
- Level 4 is at Meter Level.

By inspection it can be seen that there will be a row for most SPIDs held on the Central System. Where the SPID has more than one Service Element (SE) there will be a row for each SE. For instance a premises with a metered supply and a farm trough will have a SE for the metered water supply and a SE for the trough. Where there is more than one meter of the same size on the SPID each meter will be reported separately.

Field	Description and Derivation
<b>Level 1: Data at Recipient Level</b>	
Recipient Org Id	Identity of the recipient of the file; The Licensed Provider ID or SW or the CMA
Year	The Settlement Year
Period	The Invoice Period (date and month)
Settlement Run	The settlement run type e.g. P1, R1, R2, R3
Extract Type	Code for data extract type: X21 for CMA; X22 for SW; X23 for LPs
Timestamp	The time and date.
<b>Level 2: Data at SPID level</b>	
Postcode Outcode	Postcode Outer Derived from the D5013 for the SPID
SPID	Supply Point Identification, this is the unique identifier allocated to each supply point by the CMA. Derived from the D2001 for the SPID
LP ID	The Licensed Provider Identification. Will be blank for SW and populated for LPs and the CMA
SPID Category	SPID Category provides an abbreviation on whether the SPID is Water only (WONLY), Water with associated Sewerage (WANDS), Sewerage with associated Water (SANDW) or Sewerage only (SONLY).
Rateable Value	The SPID's Rateable Value as at the end of the Invoice Period. Derived from the D2011 for the SPID
Exempt Customer Flag	Populated with a Y when there is an Exempt Customer Flag and when there is none it will be blank in the report. Derived from the D2004 for the SPID
Phasing Transitional Arrangement	Populated with a Y when there is Phasing Transitional Arrangement and when there is none it will be blank in the report. Derived from the D2022 for the SPID

Field	Description and Derivation
Schedule3 Applied	The Schedule 3 discount percentage applied to a supply point. 0 = zero discount 100 = "no charges - free" Derived from the D2003 for the SPID
Schedule 29e Applied	The 29e discount percentage applied to a supply point. 0 = zero discount 100 = "no charges - free" Derived from the D2006 for the SPID
LUVA	Large User Volume Agreement indicator for the supply point. Set to "Y" if the indicator is true on the last day of the IP being settled, if not it will be left blank. Derived from the D2007 for the SPID
Un-measurable Indicator	This identifies whether the supply point has been declared as Unmeasurable. Set to "Y" if the indicator is true on the last day of the IP being settled, if not it will be left blank.
Vacancy Indicator	This declares whether the premises for the SPID are vacant at the end of the IP. Populated with a Y when the vacant; when not vacant it will be blank. Derived from the D2015 for the SPID
EWA	Estimate Weighted Average Unit Rate for the SPID as applicable at the end of the IP.
EWA Changed this period	The date the EWA value changed if it was changed in the period. Note that the EWA is now always updated immediately prior to the running of each Settlement Run so the intended use of this field has been superseded
Meter Network Flag	Indicates that the meter is a Main-meter in a meter network. Sub-meters are not specifically indicated
Actual Weighted Average	The actual weighted average for a SPID. Applies to RF only and so is not deployed in this report
<b>Level 3: Data at Service Element Level</b>	
Service Category	Identifies the service category for a SPID i.e. Water or Sewerage. The D2002 value for the SPID
Service Component	Identifies whether the line is presenting Measure (MEAS) or Miscellaneous services (MISC)
Service Element	Chargeable meter size e.g. 20mm, 40mm, 80mm, Unmeasurable size, or other type of Service Element.
Registered days	The number of days between the Effective-From and Effective-To dates (inclusive) for a given service element / LP combination
Non Volumetric Charges	Total of the non-volumetric charges for Measured and Miscellaneous Services. Stated in pence
Volumetric Charges	Total of the volumetric charges for Measured Services. Stated in pence.

Field	Description and Derivation
Estimated Volume	<p>Only applies to Volumetric Service Elements.</p> <p>Shows the volume that is not based on a Meter Advance. It is the sum of Daily Volume Estimates (DVe) for the Invoice Period. It excludes Derived Volume but will include all volumes that are deducted for a meter network (Complex Site SPID). For sewerage SPIDs apply the NRSA.</p> <p>See qualification in Appendix 3.4</p>
Actual Volume	<p>Only applies to Volumetric Service Elements.</p> <p>Shows the volume that is based on a Meter Advance (the sum of DVa for the Invoice Period) excludes Derived Volume.</p> <p>For sewerage SPIDs apply the NRSA.</p> <p>See qualification in Appendix 3.4</p>
Derived Volume	<p>Only applies to Volumetric Service Elements.</p> <p>The derived volume as derived from the RV for Unmeasurable Volumetric Charges.</p>
Total Volume	<p>Only applies to Volumetric Service Elements.</p> <p>This is the total volume for the SPID in the Invoice Period; it is the sum of the Estimated, Actual and Derived Volumes.</p>
<b>Level 4: Data at Meter Level</b>	
Meter Id	<p>The unique meter Identification</p> <p>Derived from the D3001 for the Meter</p>
Meter Read Frequency	<p>The frequency that the licensed provider reads a meter e.g. Bi-annually (B) or monthly (M)</p> <p>Derived from the D3011 for the Meter</p>
Last Read Date	<p>The date of last meter reading</p>
Estimated Daily Volume (Annualised)	<p>Only applies to Volumetric Service Elements.</p> <p>Will be populated using the DVe (where this is applicable for the IP) and multiplying this by the number of days in the Tariff Year.</p> <p>It will be null where the Estimated Volume field is not populated or where this is the main meter for a meter network (Complex Site SPID).</p>
Estimated Yearly Volume	<p>Only applies to Volumetric Service Elements.</p> <p>The annual estimated volume that is used as the basis of the calculation to create the EWA for the Settlement Period</p> <p>When the EWA is derived from an imputed volume based on the RV this field is blank</p>
YVe Derivation Method	<p>Only applies to Volumetric Service Elements.</p> <p>The method used to derive the estimated yearly volume. It will be one of the following: 'Read' where a Meter Advance is used; 'LPYV' where a LP YVe has been used; or 'ISTD' where the industry default value is being applied.</p> <p>Where there is an NDA the annual volume is already provided and this field will be blank</p>

Field	Description and Derivation
LP YVe	Only applies to Volumetric Service Elements. Yearly volumetric usage estimate for each meter associated with the SPID provided by the LP. Derived from the D2010 for the Meter
Non-return to sewer allowance	Only applies to Volumetric Service Elements. This is the percentage applied to the metered water volume to calculate the sewerage volume for the sewerage SPID. The percentage is the % return to the sewer. Derived from the D3007 for the Meter

### APP 3.3: Field Type Information

Field	Type	Opt	Notes
Recipient Org Id	nvarchar(50)	M	
Year	nvarchar(2)	M	
Period	nvarchar(7)	M	
Settlement Run	nvarchar(2)	M	
Extract Type	nvarchar(3)	M	
Timestamp	nvarchar(14)	M	Format : yyyyymmddhh24miss
Postcode Outcode	nvarchar(4)	O	
SPID	nvarchar(12)	M	
LP Id	nvarchar(50)	O	optional as blank for SW extract
SPID Category	nvarchar(5)	M	
Rateable Value	decimal(18,2)	M	defaults to 0
Exempt Customer Flag	nvarchar(1)	O	Y if true else blank
Phasing Transitional Arrangement	nvarchar(1)	O	Y if true else blank
LUVA Applied	nvarchar(1)	O	Y if true else blank
Schedule3 Applied	nvarchar(1)	O	Y if true else blank
Schedule29e Applied	nvarchar(1)	O	Y if true else blank
Unmeasurable Indicator	nvarchar(1)	O	Y if true else blank
Vacancy Indicator	nvarchar(1)	O	Y if true else blank
EWA	decimal(18,2)	O	
EWA Changed this period	nvarchar(8)	O	Format : yyyyymmdd
Meter Network Flag	nvarchar(1)	O	Y if true else blank
Actual Weighted Average	decimal(18,2)	O	always blank at the moment
Service Category	nvarchar(2)	M	
Service Component	nvarchar(4)	M	
Service Element	nvarchar(50)	M	
Registered days	decimal(4,0)	M	
Non Volumetric Charges	decimal(18,2)	M	defaults to 0
Volumetric Charges	decimal(18,2)	M	defaults to 0
Estimated Volume	decimal(50,4)	O	

Field	Type	Opt	Notes
Actual Volume	decimal(50,4)	O	
Derived Volume	decimal(50,4)	O	
Total Volume	decimal(50,4)	O	
Meter Id	nvarchar(32)	O	
Meter Read Frequency	nvarchar(1)	O	
Last Read Date	nvarchar(8)	O	Format : yyyyymmdd
Estimated Daily Volume (Annualised)	decimal(50,4)	O	
Estimated Yearly Volume	decimal(50,4)	O	
YVe Derivation Method	nvarchar(4)	O	
LP YVe	decimal(13,0)	O	
Non-return to sewer allowance	decimal(5,2)	O	

**Notes on table:**

Type	<ul style="list-style-type: none"> <li>Nvarchar(X) is a field containing character data possibly numeric with maximum length X.</li> <li>Decimal(x,y) is a numeric field with a maximum of x digits with a maximum of y digits after the decimal place. Hence maximum space is number of digits plus decimal place and possible leading minus sign.</li> </ul>
Opt	M is Mandatory , O is Optional

## APP 3.4: Recognised Issues

There are two recognised issues that in some circumstances the fields are not populated fully in accordance with this specification.

- Meter swaps affecting Estimated and Actual Volumes; and
- Actual Volume (meter networks).

Once these issues are remedied the bullets above and description below will no longer apply.

### **Meter swaps affecting Estimated and Actual Volume**

- There are special circumstances when meters have been swapped out leading to incorrect values being provided for these two fields.
- Note that in all cases it is Total Usage is correct and is on what the charges calculated.

### **Actual Volume (meter networks)**

- There is a known issue with the representation of network meters in the Disaggregated Settlement Report where they are contributory to meters in an 'upstream' network, but where they themselves do not require volume deductions from any 'upstream' meters.