

EBT STANDARDS WORKING GROUP

DISCUSSION PAPER

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GLOBAL ITEM #	686
ISSUE	REVISED INVOICE SETTLEMENT DETAIL (ISD) EBT
DRAFT	Post Advisory Approval Completion –Draft 1

EBT Standards Working Group

ISSUE: 686

DOCUMENT TYPE: Consensus

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1.1 Background

- 1.1.1 Charges and credits on settlement invoices are not sufficiently itemized to allow the reconciliation of invoice amounts. The present Invoice Settlement Detail (ISD) design does not provide for a cross-reference linking the charges used to calculate the settlement, with the preceding transactions that initiated the charges to be settled.
- 1.1.2 Specifically, the ISD EBT provides no reference to the particular Usage, Invoice Bill-Ready, Invoice Rate-Ready, or corresponding 'Cancel' EBTs to be settled.
- 1.1.3 In summary, it has been determined that each ISD must reference any preceding transactions that initiated a charge used in calculating the customer invoice and subsequently considered in the settlement between the Distributor and the Retailer.

1.2 Communication of Settlement Information

- 1.2.1 The Invoice Settlement Detail (ISD) EBT is a consumer-level account statement sent from a Distributor to a Retailer. As stated in Section 5.3.6 of the EBT Standards (and amended by Global Item #233), the timing of the ISD is based on consumer billing cycle.
- 1.2.2 The charges and credits listed on a given ISD must reflect any transactions listed below (paragraph 1.2.5) that are:
 - Sent by, or received by, a Distributor for a particular consumer since the last ISD EBT for that consumer was issued,
And
 - Which cause a charge to be generated for customer billing and settlement.
- 1.2.3 Paragraph 1.2.2 above is further clarified in paragraphs 1.3.2.3.1 and 1.3.2.3.2.
- 1.2.4 Example process flows are captured in Section 1. 4.

1.2.5 The transactions to be considered on the ISD EBT are as follows:

1.	<u>Usage EBT</u> transactions sent by the Distributor and used to calculate the settlement.
2.	<u>Usage-Cancel EBT</u> transactions sent by the Distributor and used to calculate the settlement.
3.	<u>Invoice Bill Ready EBT</u> transactions sent by the Retailer and used to calculate the settlement.
4.	<u>Invoice Bill Ready-Cancel EBT</u> transactions sent by the Retailer and used to calculate the settlement.
5.	<u>Invoice Rate Ready EBT</u> transactions sent by the Distributor and used to calculate the settlement.
6.	<u>Invoice Rate Ready-Cancel EBT</u> transactions sent by the Distributor and used to calculate the settlement.

1.3 Implementation- Revisions to EBT Standards-V2.1

1.3.1 New Field -Source Transaction Reference Number

1.3.1.1 To facilitate the identification of Account Charges, one new element will be added to the ISD Schema.

1.3.1.2 Field Name: 'Source Transaction Reference Number'

1.3.1.2.1 This field will be populated with the Transaction Reference Number of the transaction being settled. The Source Transaction Reference Number will be required for every 'RetailerBillAmount' and 'Commodity' Account Charge Category.

1.3.1.2.2 This field is required for all Account Charge Categories.

1.3.2 Account Charge & Charge Categories

1.3.2.1 Each Account Charge will be assigned an Account Charge Category according to the source of the charge. The rules outlined herein supercede Global item # 613.

1.3.2.2 There are 3 possible Account Charge Categories which may be used for the Distributor Consolidated Billing Option:

1.3.2.2.1 Charge Category “**Commodity**”

- Used for all charges related to the Competitive Electricity Cost.
- The Source Transaction Reference Number will refer to the Usage or Usage-Cancel EBT that contained the usage data used to calculate the charge.
- If the distributor uses the WAHSP in the calculation of the commodity, the ~~Charge Quantity and WAHSP elements are all~~ is required when the Charge Category is **Commodity**.

1.3.2.2.2 Charge Category “**RetailerBillAmount**”

- For Distributor Consolidated Billing, this Account Charge Category replaces Account Charge Category ‘Customer’.
- Used for the Retailer’s charges to the customer.
- The Source Transaction Reference Number will refer to the Invoice Bill-Ready, Invoice Bill-Ready-Cancel, Invoice Rate-Ready, or Invoice Rate-Ready-Cancel EBT used to request the charges.

1.3.2.2.3 Charge Category “**Taxes**”

- Used in accordance with Global Item #561.
- The Source Transaction Reference Number will contain a null value.

1.3.2.3 The applicable Account Charge Categories will be shown on the ISD for each Invoice Bill-Ready, Invoice Bill-Ready-Cancel, Invoice Rate-Ready, and Invoice Rate-Ready-Cancel EBT that generates a charge to be settled, notwithstanding the following:

1.3.2.3.1 Invoice Bill-Ready- When a Usage and corresponding Usage-Cancel EBT are issued within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD. Similarly, when an IBR and corresponding IBR-Cancel EBT are received within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD.

1.3.2.3.2 Invoice Rate-Ready- When a Usage and corresponding Usage-Cancel EBT are issued within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD. Similarly, when an IRR and corresponding IRR-Cancel EBT are received within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD.

1.3.2.4 Where one WAHSP is applicable to one or more service periods within one Usage transaction, the consumption amounts with the same WAHSP ~~will~~ **may** be aggregated to one Account Charge on the ISD.

1.3.2.5 Where multiple WAHSPs are used for a given Usage transaction (e.g. there are multiple service periods contained in the Usage transaction), each WAHSP must have it's own commodity charge on the ISD.

1.3.3 Corrections

1.3.3.1 Corrections to settlement amounts will be agreed upon by both parties and included on a future Invoice Settlement Detail EBT. The correction will be listed as an Account Charge with Source Transaction Reference Number referencing the Usage, Invoice Bill Ready, Invoice Rate Ready, or associated Cancel EBT for which the settlement amount is being corrected. The Charge Category will be chosen according to the transaction type, as described above.

1.3.3.2 For clarity, the amount is not to be presented as an adjustment to the original amount, but a correction. The incorrect amount must be provided as a reversal referencing the Source Transaction Reference Number of the EBT for which the amount is being reversed, and then issuing the corrected amount referencing the Source Transaction Reference Number of the EBT for which the amount is being corrected.

1.3.3.3 The reversal and corrected amount may be provided for in the same ISD or in 2 separate ISDs. The correction will also be captured in the subsequent IST that follows. The Bill Purpose will be "Original".

1.4 Examples

This section provides example transaction flows and the corresponding ISD transaction details to be captured for settlement. This section does not provide an exhaustive list of all variations possible during transaction processing, nor are all example flows mandatory.

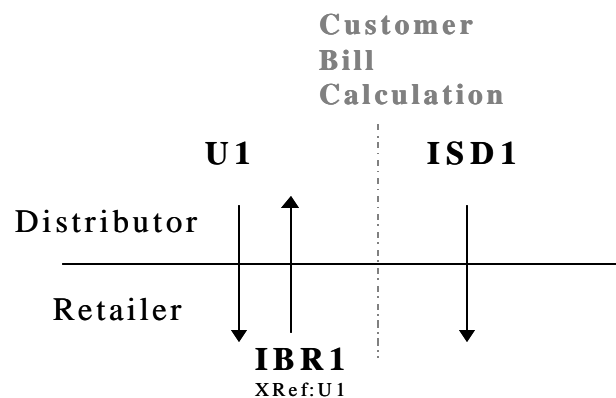
Notes:

1. The examples provided below do not outline all required field values for an ISD transaction but depict the additional requirements/changes introduced in this document.
2. The Source Transaction Reference Number column listed below in each example identifies the transaction to which the Source Transaction Reference Number should be captured.
3. Amounts are fictitious and used as example values for the purpose of illustration.
4. Retailer pricing is set at \$0.05/kWh.
5. Example 1 (Section 1.4.1) depicts the ISD for both Tax presentation options 1 and 2. All other examples provide the example for Tax presentation Option 1 only (although both options are available). Tax presentation options are described in Global Item 561.
6. For the transaction process flow diagrams in the examples that follow;
 - a. ORef: is defined as the transaction to be referenced in the 'Original Transaction Reference Number' field of the stated transaction.
 - b. XRef: is defined as the transaction to be referenced in the 'Transaction Cross Reference Number' field of the stated transaction.

1.4.1 Example 1- Simple Transaction Flow

Scenario:

- o Customer with a metered service (using 500 kWh) with a Service period of May 1-15th and an unmetered service (using 100 kWh) with a Service Period of May 16-31st. Both services are captured on one Usage transaction.
- o The WAHSP is different for each service period in this example.



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
Commodity	U1	0.04578	4.58	0.32
RetailerBillAmount	IBR1		-30.00	0.00

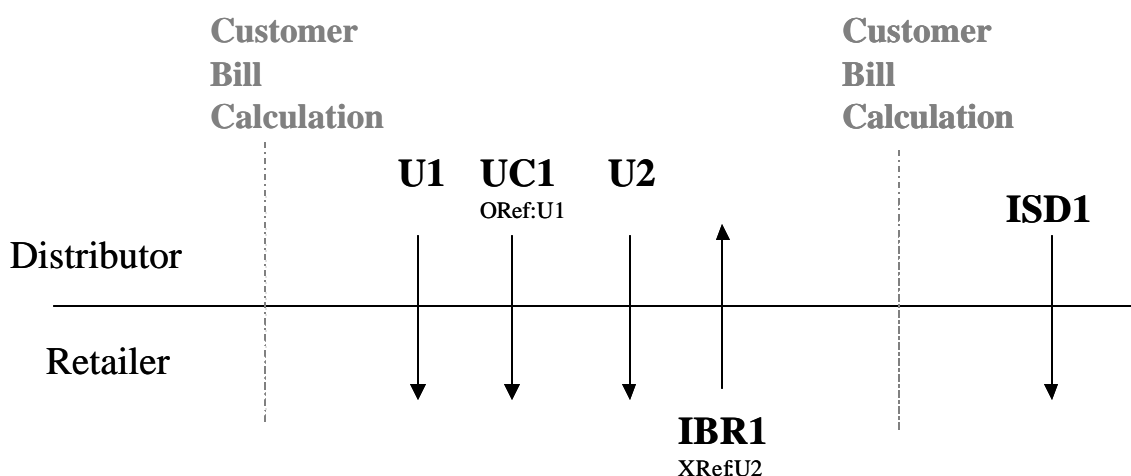
For a Distributor using Tax Option 2, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	
Commodity	U1	0.04578	4.58	
RetailerBillAmount	IBR1		-30.00	
Taxes	< Null Value>		0.00	1.94

1.4.2 Example 2- Usage is Cancelled Before IBR is Sent and New Usage is Sent

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is cancelled and sent prior to the issuance of an IBR
- o Usage 2 is sent to the Retailer
- o IBR1 is issued in response to Usage 2
- o All transactions occur prior to Billing



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

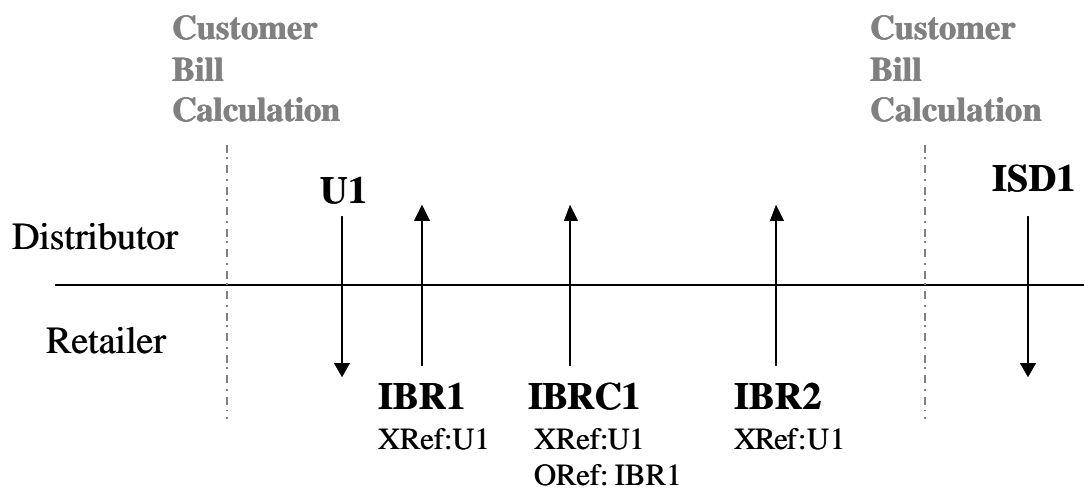
Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	23.18	1.62
RetailerBillAmount	IBR1		-25.00	0.00

*Note: The original Usage and Usage-Cancel have occurred prior to Billing. There is no net effect on the Bill and therefore they are not captured on the ISD.

1.4.3 Example 3: IBR Is Cancelled After it is Sent

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is sent
- o IBR1 is sent in reference to Usage 1
- o IBR1 is then cancelled (IBRC1)
- o Corrected IBR2 is sent in reference to Usage 1
- o All transactions occur prior to Billing



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

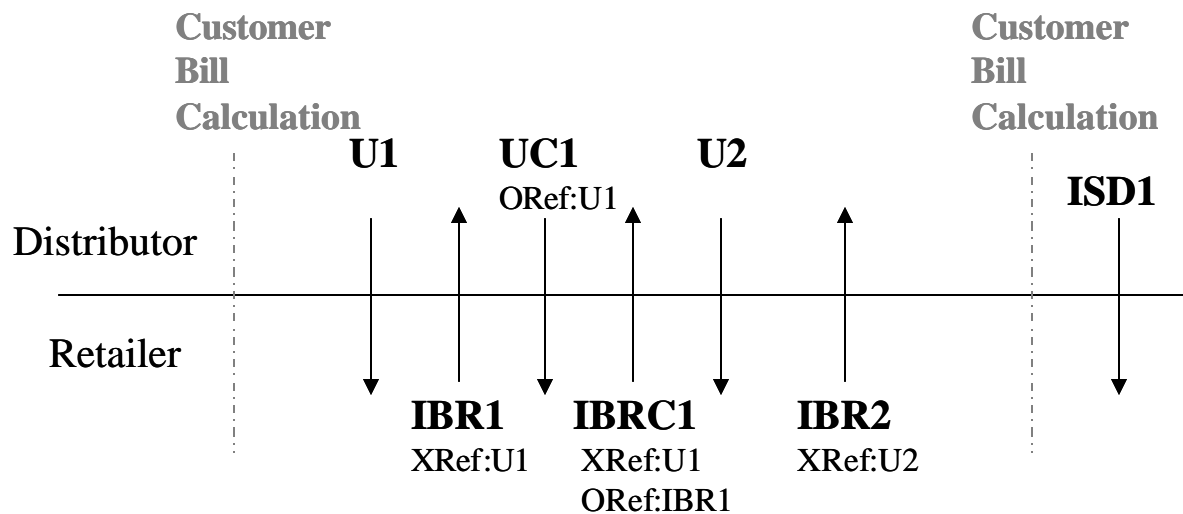
Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
RetailerBillAmount	IBR2		-25.00	0.00

*Note: The original IBR1 and IBR-Cancel have occurred prior to Billing. There is no net effect on the Bill and therefore they are not captured on the ISD.

1.4.4 Example 4- Usage-Cancel is Sent After the IBR is Sent

Scenario:

- o Customer with a metered service (using 500 kWh) with a service period of May 1-15th and a second metered service (using 100 kWh) with a service period of May 1-15th, and a third unmetered service (using 300 kWh) with a service period of May 16th-31st.
- o The WAHSP is different for each service period.
- o All services are captured on one Usage transaction.
- o All transactions occur prior to Billing



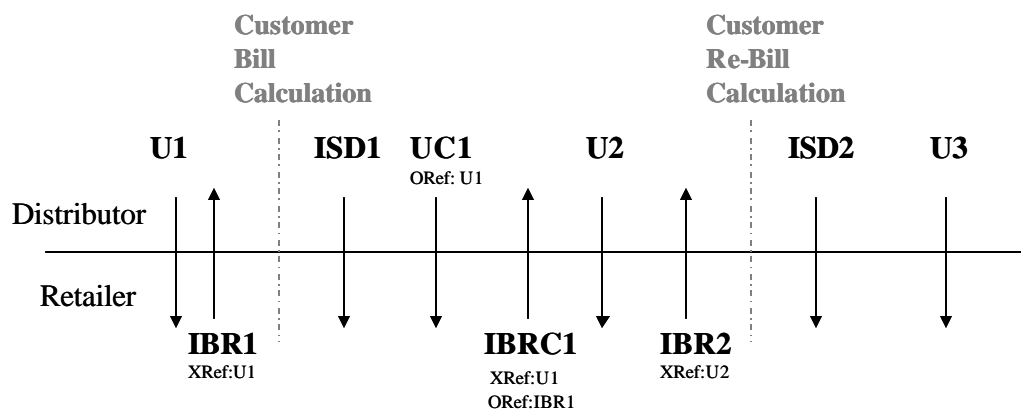
For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	27.81	1.95
Commodity	U2	0.04578	13.73	0.96
RetailerBillAmount	IBR2		-45.00	0.00

1.4.5 Example 5- Usage-Cancel Occurs After Billing (ReBill)

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 600kWh consumption.(incorrect Usage)
- o Usage 1 is subsequently cancelled after Billing and Settlement occur.
- o Usage 2 is issued for 500 kWh (correct usage)
- o The correction (Usage –Cancel) for Usage 1 does not occur until after Billing and Settlement for that billing cycle.



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	27.81	1.95
RetailerBillAmount	IBR1		-30.00	0.00

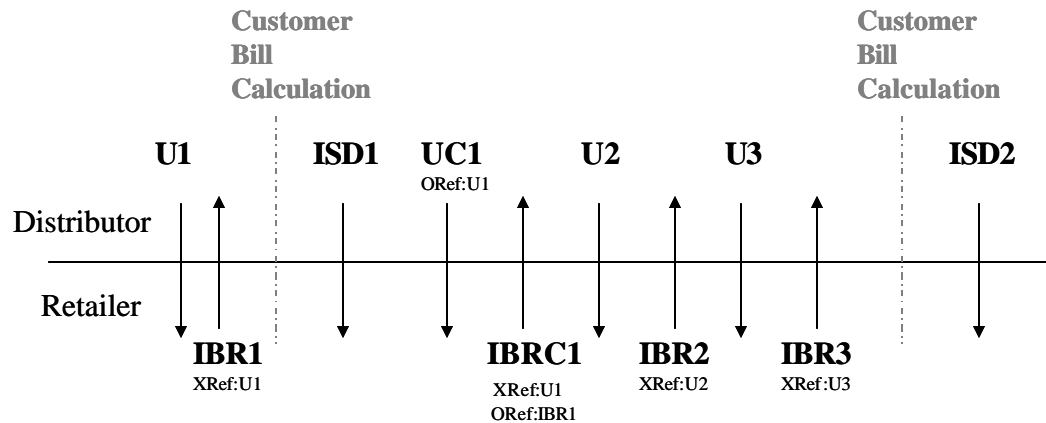
For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD2” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	UC1	0.04635	-27.81	-1.95
Commodity	U2	0.04635	23.18	1.62
RetailerBillAmount	IBRC1		30.00	0.00
RetailerBillAmount	IBR2		-25.00	0.00

1.4.6 Example 6- Usage-Cancel Occurs After Billing (No ReBill)

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 600kWh consumption (incorrect Usage)
- o Usage 1 is subsequently cancelled after Billing and Settlement occur.
- o Usage 2 is issued for 500 kWh (correct usage)
- o The correction (Usage –Cancel 1 and Usage 2) does not occur until after Billing and Settlement for that billing cycle.
- o Usage 3 (450 kWh) is issued for the current billing cycle.



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT "ISD1" would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	27.81	1.95
RetailerBillAmount	IBR1		-30.00	0.00

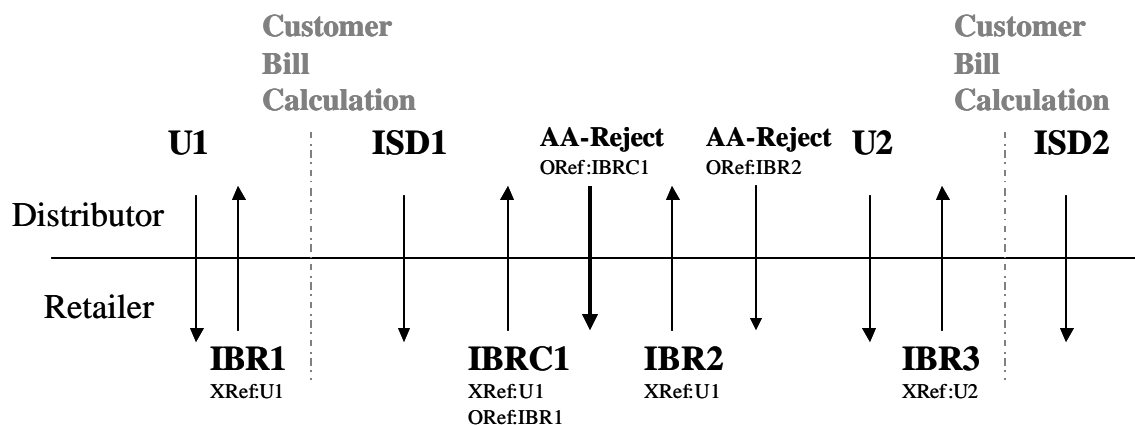
For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT "ISD2" would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	UC1	0.04635	-27.81	-1.95
Commodity	U2	0.04635	23.18	1.62
Commodity	U3	0.04375	19.69	1.38
RetailerBillAmount	IBRC1		30.00	0.00
RetailerBillAmount	IBR2		-25.00	0.00
RetailerBillAmount	IBR3		-22.50	0.00

1.4.7 Example 7-The IBR is Cancelled after Billing Has Occurred- Rejected

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 500 kWh
- o IBR 1 issued to the LDC with an incorrect bill amount (\$20.00)
- o The Customer Bill and Settlement process occurs
- o IBR1 is cancelled (IBRC1) post Customer billing
- o IBR2 issued with the correct bill amount (\$25.00) post Customer Billing
- o The IBR-Cancel (IBRC1) and IBR2 are rejected by the LDC
- o Usage 2 is issued for the next service period (500kWh)



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
RetailerBillAmount	IBR1		-20.00	0.00

For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD2” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	23.18	1.62
RetailerBillAmount	IBR3		-30.00	0.00

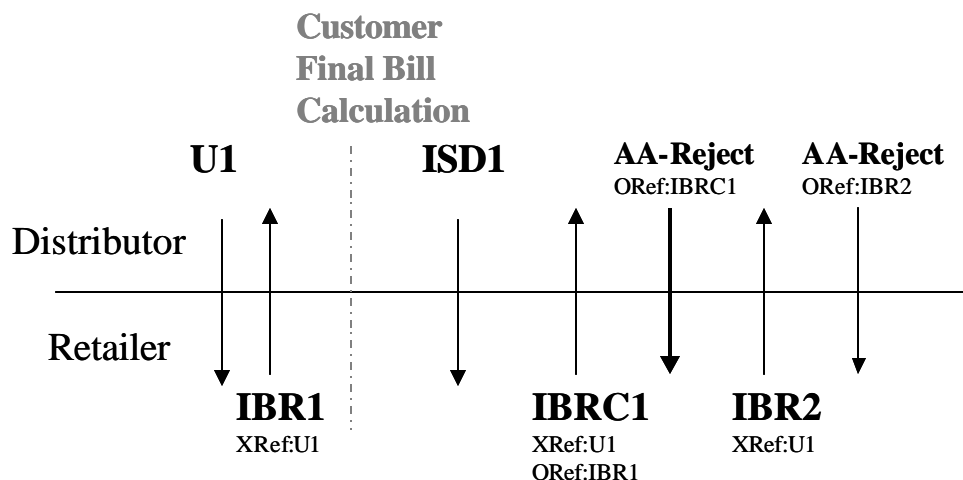
***Note:**

- o IBRC1 and IBR2 will not be settled as the LDC rejected the correction.
- o The Retailer is responsible to consider this previous adjustment in the calculation of the bill amount provided in IBR3. In the example above, the retailer under-billed \$5.00 on IBR1 and subsequently included this adjustment in the bill amount of IBR3 (25.00 + 5.00 = \$30.00).

1.4.8 Example 8- The IBR is Cancelled after Final Billing Has Occurred- Rejected

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Final Usage 1 is issued for 500 kWh
- o IBR 1 issued to the LDC with an incorrect bill amount (\$20.00)
- o The Customer Bill and Settlement process occurs
- o IBR1 is cancelled (IBRC1) post Customer billing
- o IBR2 issued with the correct bill amount (\$25.00) post Customer Billing
- o The IBR-Cancel (IBRC1) and IBR2 are rejected by the LDC
- o The customer has been Final Billed.



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
RetailerBillAmount	IBR1		-20.00	0.00

***Note:**

- o IBRC1 and IBR2 will not be settled as the LDC rejected the correction. The customer was Final Billed. The Retailer, in this example, has under-billed \$5.00.
- o The Retailer is responsible to manage this adjustment directly with the Consumer.

 DCB-End

2.1 Background

- 2.1.1 Charges and credits on settlement invoices are not sufficiently itemized to allow the reconciliation of invoice amounts. The present Invoice Settlement Detail (ISD) design does not provide for a cross-reference linking the charges used to calculate the settlement, with the preceding transactions that initiated the charges to be settled.
- 2.1.2 Specifically, the ISD EBT provides no reference to the particular Usage, Invoice Bill Ready, Invoice Rate Ready, or corresponding 'Cancel' EBTs to be settled.
- 2.1.3 In summary, it has been determined that each ISD must reference any preceding transactions that initiated a charge used in calculating the customer invoice and subsequently considered in the settlement between the Distributor and the Retailer.

2.2 Communication of Settlement Information

- 2.2.1 The Invoice Settlement Detail (ISD) EBT is a consumer-level account statement sent from a Distributor to a Retailer. As stated in Section 5.3.6 of the EBT Standards (and amended by Global Item #233), the timing of the ISD is based on the consumer billing cycle.
- 2.2.2 The charges and credits listed on a given ISD must reflect any transactions listed below (paragraph 2.2.4) that are:
 - Sent by a Distributor for a particular consumer since the last ISD EBT for that consumer was issued,
And
 - Which cause a charge to be generated for customer billing and settlement.
- 2.2.3 Paragraph 2.2.2 above is further clarified in paragraphs 2.3.3.3.1 and 2.3.3.3.2.
- 2.2.4 Examples of process flow have been developed and are shown in section 2.4.

2.2.5 The transactions to be considered on the ISD EBT are as follows:

1.	<u>Usage EBT</u> transactions sent by the Distributor and used to calculate the settlement.
2.	<u>Usage-Cancel EBT</u> transactions sent by the Distributor and used to calculate the settlement.
3.	<u>Invoice Bill Ready EBT</u> transactions sent by the Distributor and used to calculate the settlement.
4.	<u>Invoice Bill Ready-Cancel EBT</u> transactions sent by the Distributor and used to calculate the settlement.
5.	<u>Invoice Rate Ready EBT</u> transactions sent by the Distributor and used to calculate the settlement.
6.	<u>Invoice Rate Ready-Cancel EBT</u> transactions sent by the Distributor and used to calculate the settlement.

2.3. Implementation- Revisions to EBT Standards-V2.1

2.3.1 Charges in the ISD will be presented per Account Charge Category as per section 7.1.1 of the RSC, which includes the ‘Commodity’ charge, among others.

2.3.2 New Field -Source Transaction Reference Number

2.3.2.1 To facilitate the identification of Account Charges, one new element will be added to the ISD Schema.

2.3.2.2 Field Name: ‘Source Transaction Reference Number’

2.3.2.2.1 This field will be populated with the Transaction Reference Number of the transaction being settled. The Source Transaction Reference Number will be required for every Account Charge Category coming from the Usage(s) and IBR STRs.

2.3.2.2.2 This field is required for all Account Charge Categories.

2.3.3 Account Charge & Charge Categories

2.3.3.1 Each Account Charge will be assigned a Charge Category according to the source of the charge. The rules outlined herein supercede Global item # 613.

2.3.3.2 All Account Charge Categories are specified within EBT Standards 2.1. The following lists and defines the Account Charge Categories applicable for the Retailer Consolidated Billing Option. **Where a Charge Category defined below is also defined in the Electricity Rate Handbook, the Electricity Rate Handbook shall prevail.**

2.3.3.2.1 Charge Category “**Commodity**”

- Used to represent the cost of the Usage Consumption (specifically, the ‘Commodity’ charge total for a specified service period per Usage transaction).
- The Source Transaction Reference Number will refer to the Usage or Usage Cancel EBT that contained the usage data used to calculate the charge.
- **If the distributor uses the WAHSP in the calculation of the commodity, the ~~Charge Quantity and~~ WAHSP elements are all is required when the Charge Category is **Commodity**.**

2.3.3.2.2 Charge Category “**Customer**”

- **Used by the LDC to recover the fixed costs for delivering electricity.**
- The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
-

2.3.3.2.3 Charge Category “**Distribution**”

- Used to represent the **variable** cost of delivering electricity from the Utility to the end customer, as well as the cost for providing services such as meter reading, billing and account maintenance.
- The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.

2.3.3.2.4 Charge Category “**Transmission**”

- **Used to represent the Distributor’s retail transmission rate where both the Network and Connection charges have been bundled into a single Charge Category.**
- The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.

- 2.3.3.2.5 Charge Category “TransmissionNetwork”
- Used to represent the Distributor’s retail transmission network charges.
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
- 2.3.3.2.6 Charge Category “TransmissionConnection”
- Used to represent the Distributor’s retail transmission connection charges.
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
- 2.3.3.2.7 Charge Category “WholesaleMarketService”
- Used to represent the distributor’s costs charged by the IMO for administration and the operation of the IMO-controlled grid.
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
- 2.3.3.2.8 Charge Category “BundledNonCompetitiveElectricityCharge”
- Used where an LDC is permitted to bundle charges into one charge item. (Transmission, Wholesale Market Charges).
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
- 2.3.3.2.9 Charge Category “RuralRateAssistance”
- Used to represent a credit to the consumer, when applicable
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.
- 2.3.3.2.10 Charge Category “MarketPowerMitigation”
- As defined in the Market Participant Licenses.
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.

- 2.3.3.2.11 Charge Category “**RSVA**”
- As defined in the Electricity Distribution Rate Handbook.
 - The Source Transaction Reference Number will refer to the IBR or IBR-Cancel EBT that contained the data used to calculate the charge.

- 2.3.3.2.12 Charge Category “**Taxes**”
- Used in accordance with Global Item #561.
 - The Source Transaction Reference Number will contain a null value.

- 2.3.3.2.13 Charge Category “**OtherSpecificCharges**”
- Used to capture other specified charges not identified above as a separate Category code. This Charge Category may not be used to reflect any charge categories that are defined already in this section 2.3.3.2.
 - Where this Charge Category is used, the Charge Category ‘Description’ field of the transaction should reflect the exact charge description as approved on the distributor’s Rate Order.
 - Where there are multiple items, each item must be reflected with a Charge Category of ‘OtherSpecificCharges’ and the Description field populated.
 - ‘Miscellaneous’ is not a valid Charge Category.

2.3.3.3 The applicable Account Charge Categories will be shown on the ISD for each Invoice Bill-Ready, Invoice Bill-Ready-Cancel, Invoice Rate-Ready, and Invoice Rate-Ready-Cancel EBT that generates a charge to be settled, notwithstanding the following:

- 2.3.3.3.1 Invoice Bill-Ready- When a Usage and corresponding Usage-Cancel EBT are issued within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD. Similarly, when an IBR and corresponding IBR-Cancel EBT are received within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD.
- 2.3.3.3.2 Invoice Rate-Ready - When a Usage and corresponding Usage-Cancel EBT are issued within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD. Similarly, when an IRR and corresponding IRR-Cancel EBT are received within the same consumer billing cycle, there is no net effect on the customer bill and therefore will not be captured on the ISD.

2.3.3.4 Where one WAHSP is applicable to one or more service periods within one Usage transaction, the consumption amounts with the same WAHSP ~~will~~ **may** be aggregated to one Account Charge on the ISD.

2.3.3.5 Where multiple WAHSPs are used for a given Usage transaction (e.g. there are multiple service periods contained in the Usage transaction), each WAHSP must have it's own commodity charge on the ISD.

2.3.4 Corrections

2.3.4.1 Corrections to settlement amounts will be agreed upon by both parties and included on a future Invoice Settlement Detail EBT. The correction will be listed as an Account Charge with Source Transaction Reference Number referencing the Usage, Invoice Bill Ready, Invoice Rate Ready, or associated Cancel EBT for which the settlement amount is being corrected. The Charge Category will be chosen according to the transaction type, as described above.

2.3.4.2 For clarity, the amount is not to be presented as an adjustment to the original amount, but a correction. The incorrect amount must be provided as a reversal referencing the Source Transaction Reference Number of the EBT for which the amount is being reversed, and then issuing the corrected amount referencing the Source Transaction Reference Number of the EBT for which the amount is being corrected.

2.3.4.3 The reversal and corrected amount may be provided for in the same ISD or in 2 separate ISDs. The correction will also be captured in the subsequent IST that follows. The Bill Purpose will be "Original".

2.4 **Examples**

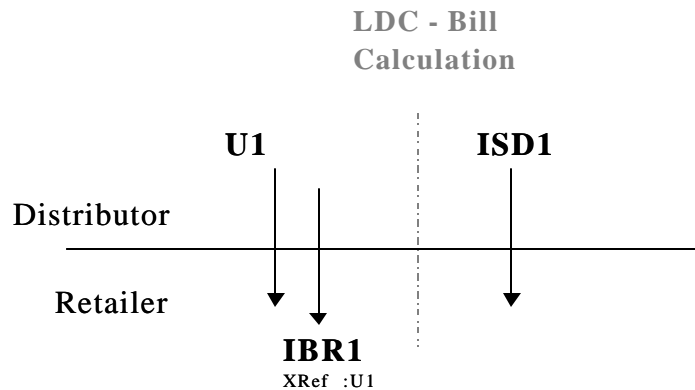
This section provides example transaction flows and the corresponding ISD transaction details to be captured for settlement. This section does not provide an exhaustive list of all variations possible during transaction processing, nor are all example flows mandatory.

Notes:

1. The examples provided below do not outline all required field values for an ISD transaction but depict the additional requirements/changes introduced in this document.
2. The Source Transaction Reference Number column listed below in each example identifies the transaction to which the Source Transaction Reference Number should be captured.
3. Amounts are fictitious and used as example values for the purpose of illustration.
4. All examples provide Tax presentation Option 1 only (although both options are available). Tax presentation options (both options) are described in Global Item 561.
5. For the transaction process flow diagrams in the examples that follow;
 - a. ORef: is defined as the transaction to be referenced in the 'Original Transaction Reference Number' field of the stated transaction.
 - b. XRef: is defined as the transaction to be referenced in the 'Transaction Cross Reference Number' field of the stated transaction.
6. In the various examples that follow, we have captured only some Account Charge Categories out of the possible total listed in Section 2.3.3.

2.4.1 Example 1- Simple Transaction Flow

Consider this simple Retailer-Consolidated Billing scenario for a customer with a metered service (using 500 kWh).



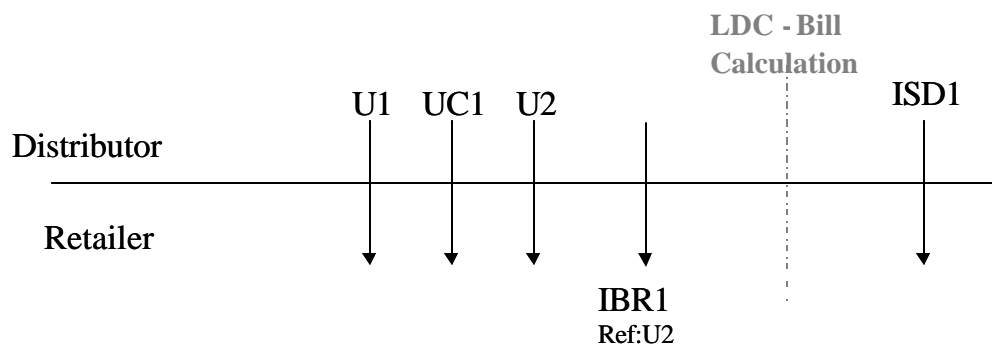
Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
Distribution	IBR1		10.00	0.70
Transmission	IBR1		20.00	1.40
Customer	IBR1		30.00	2.10

2.4.2 Example 2- Usage is Cancelled Before IBR is Sent and New Usage is Sent

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is cancelled and sent prior to the issuance of an IBR
- o Usage 2 is sent to the Retailer
- o IBR1 is issued in response to Usage 2
- o All transactions occur prior to ISD1



Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

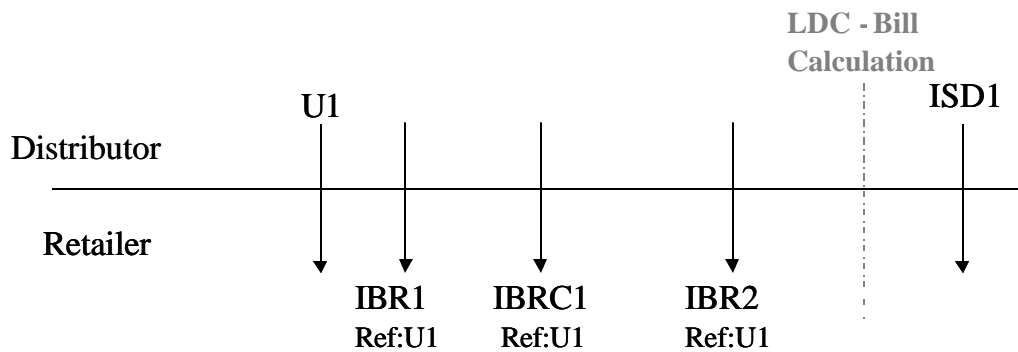
Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	23.18	1.62
Distribution	IBR1		40.00	2.80
Transmission	IBR1		80.00	5.60
Customer	IBR1		25.00	0.00

*Note: The original Usage and Usage-Cancel have occurred prior to ISD1. There is no net effect on the consumer’s Bill and therefore they are not captured on the ISD.

2.4.3 Example 3: IBR Is Cancelled After it is Sent

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is sent
- o IBR1 is sent in reference to Usage 1
- o IBR1 is then cancelled (IBRC1)
- o Corrected IBR2 is sent in reference to Usage1
- o All transactions occur prior to ISD1



Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

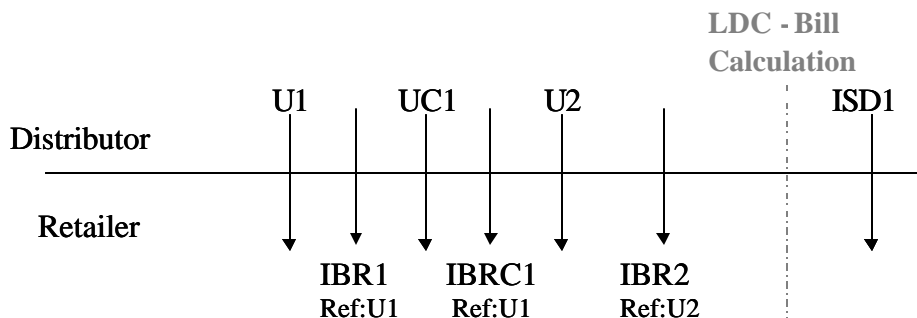
Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
Customer	IBR2		25.00	0.00
Distribution	IBR2		40.00	2.80
Transmission	IBR2		80.00	5.60

*Note: The original IBR1 and IBR-Cancel have occurred prior to ISD1. There is no net effect on the consumer’s Bill and therefore they are not captured on the ISD.

2.4.4 Example 4- Usage-Cancel is Sent After the IBR is Sent

Scenario:

- o Customer with a metered service (using 500 kWh) with a service period of May 1-15th and a second metered service (using 100 kWh) with a service period of May 1-15th, and a third unmetered service (using 300 kWh) with a service period of May 16th-31st.
- o The WAHSP is different for each service period.
- o All services are captured on one Usage transaction.
- o All transactions occur prior to ISD1



Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

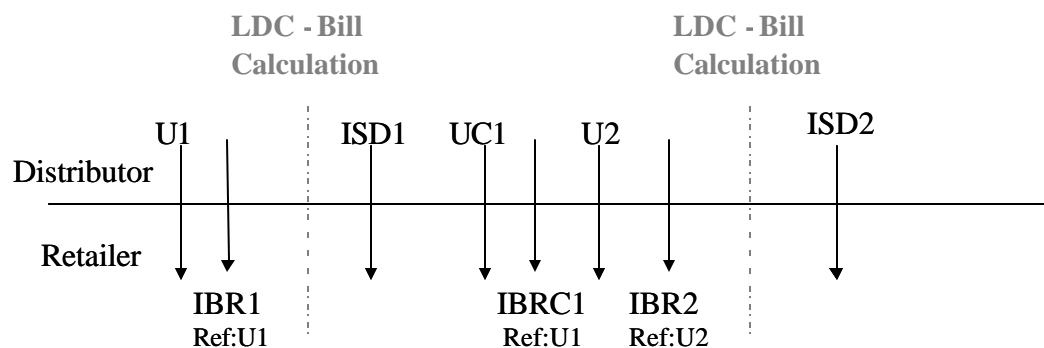
Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	27.81	1.95
Commodity	U2	0.04578	13.73	0.96
Distribution	IBR2		40.00	2.80
Transmission	IBR2		80.00	5.60
Customer	IBR2		45.00	0.00

*Note: The original U1 and UC1, IBR1 and IBR-Cancel 1 have occurred prior to ISD1. There is no net effect on the consumer’s Bill and therefore they are not captured on the ISD.

2.4.5 Example 5 - Usage-Cancel Occurs After ISD1

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 600kWh consumption.(incorrect Usage)
- o Usage 1 is subsequently cancelled after Billing and Settlement occurs.
- o Usage 2 is issued for 500 kWh (correct usage)
- o The correction for Usage 1 (Usage –Cancel 1) and IBR1 (IBR – Cancel 1) does not occur until after ISD1 has taken place.



Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	27.81	1.95
Distribution	IBR1		40.00	2.80
Transmission	IBR1		80.00	5.60
Customer	IBR1		30.00	0.00

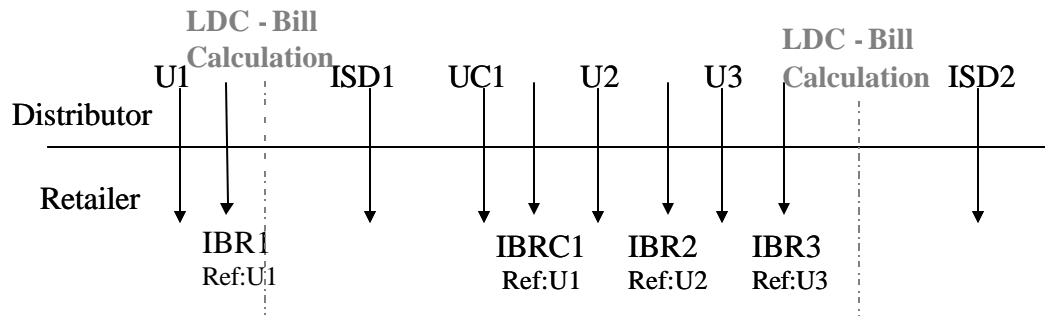
The Account Charges on the Invoice Settlement Detail EBT “ISD2” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	UC1	0.04635	-27.81	-1.95
Commodity	U2	0.04635	23.18	1.62
Customer	IBRC1		-30.00	-0.00
Distribution	IBRC1		-40.00	-2.80
Transmission	IBRC1		-80.00	-5.60
Customer	IBR2		25.00	0.00
Distribution	IBR2		40.00	2.80
Transmission	IBR2		80.00	5.60

2.4.6 Example 6- Usage-Cancel Occurs After ISD1

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 600kWh consumption (incorrect Usage)
- o Usage 1 is subsequently cancelled after Billing and Settlement occurs.
- o Usage 2 is issued for 500 kWh (correct usage)
- o The Usage 1 correction (Usage –Cancel 1 and Usage 2) does not occur until after ISD1 has taken place.
- o Usage 3 (450 kWh) is issued for the current billing cycle.



Given that we are exemplifying a Retailer using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	27.81	1.95
Customer	IBR1		30.00	0.00
Distribution	IBR1		40.00	2.80
Transmission	IBR1		80.00	5.60

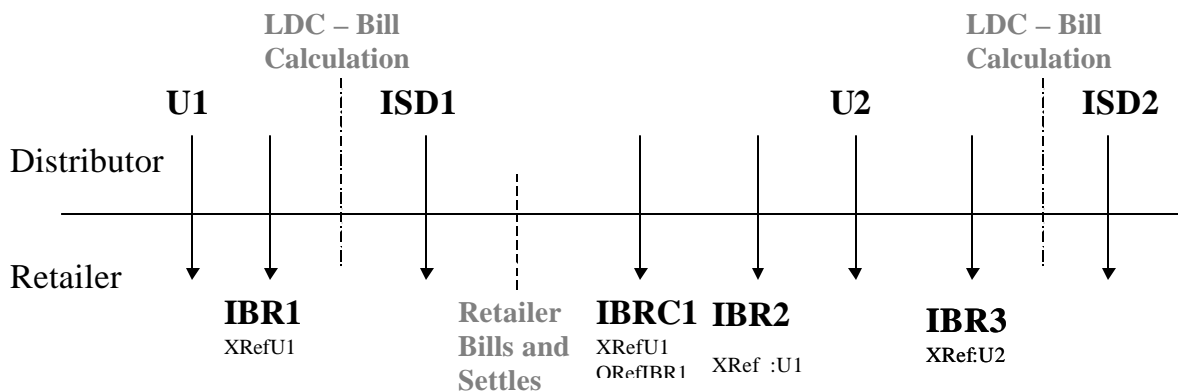
The Account Charges on the Invoice Settlement Detail EBT “ISD2” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	UC1	0.04635	-27.81	-1.95
Commodity	U2	0.04635	23.18	1.62
Commodity	U3	0.04375	19.69	1.38
Customer	IBRC1		-30.00	-0.00
Distribution	IBRC1		-40.00	-2.80
Transmission	IBRC1		-80.00	-5.60
Customer	IBR2		25.00	0.00
Distribution	IBR2		20.00	1.40
Transmission	IBR2		40.00	2.80
Customer	IBR3		22.50	0.00
Distribution	IBR3		40.00	2.80
Transmission	IBR3		80.00	5.60

2.4.7 Example 7 - The IBR is cancelled by the LDC after “LDC - Bill Calculation” has been completed. Additionally, the Retailer has already billed its customer and has settled with LDC (ie IST was paid by Retailer)

Scenario:

- o Customer with a metered service (using 500 kWh).
- o Usage 1 is issued for 500 kWh
- o IBR 1 issued from the LDC to the Retailer with an incorrect bill amount (\$20.00)
- o The ‘LDC - Bill Calculation’ has occurred and the Retailer has sent the composite Bill to its customer
- o The Retailer has settled with the LDC
- o IBR1 is cancelled (IBRC1) post Retailer Customer billing and post settlement with LDC.
- o IBR2 issued with the correct bill amount (\$25.00) post Retailer Customer billing and post settlement with LDC.
- o The IBR-Cancel (IBRC1) and IBR2 are accepted by Retailer
- o Usage 2 is issued for the next service period (500kWh).



For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD1” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
Distribution	IBR1		10.00	0.70
Transmission	IBR1		6.00	0.42
Customer	IBR1		4.00	0.28

For a Distributor using Tax Option 1, the Account Charges on the Invoice Settlement Detail EBT “ISD2” would be:

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U2	0.04635	23.18	1.62
Distribution	IBR3		10.00	0.70
Transmission	IBR3		20.00	1.40
Customer	IBR3		30.00	2.10
Distribution	IBRC1		-10.00	-0.70
Transmission	IBRC1		-6.00	-0.42
Customer	IBRC1		-4.00	-0.28
Distribution	IBR2		10.00	0.70
Transmission	IBR2		6.00	0.42
Customer	IBR2		9.00	0.63

***Note:**

- o Retailer has settled IBR1 prior to it receiving and accepting IBRC1 and IBR2.
- o On ISD2, Charge Category ‘Customer’ referencing IBRC1 and IBR2 show the corrections (ie cancellation of IBR1 and replacement by IBR2) as described in section 2.3.4 and specifically exemplified in section 2.4.9

 RCB End

PART 3.0 INVOICE SETTLEMENT TOTAL (IST) REVISION

3.1. Background

- 3.1.1. During the discussion regarding ISD revisions, it was identified that the requirement to present sub-totals by Account Charge Category on the IST transaction is **presently** 'optional' **and should be revised**.
- 3.1.2. Parties have reached consensus that this requirement become mandatory. Therefore, the IST will provide for charges to be presented, individually totaled by Account Charge Category, in addition to the current requirements.
- 3.1.3. Further stated, a given Invoice Settlement Total (IST) transaction is associated with a set of one, or more, Invoice Settlement Detail (ISD) transactions. Each of the ISD's points to the IST via the Transaction Cross Reference Number. The IST must contain sub-totals for each charge category type present with it's associated set of ISD transactions. The amounts in the set of ISD transactions must balance against those in the associated IST transaction.

3.2 *Example – Distributor Consolidated Billing*

Scenario: An IST, which totals two corresponding ISD transactions.

ISD1

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
Commodity	U1	0.04578	4.58	0.32
RetailerBillAmount	IBR1		-30.00	0.00

ISD 2

Charge Category	Source Transaction Reference Number	WAHSP	Amount	Taxes (GST)
Commodity	U1	0.04635	23.18	1.62
RetailerBillAmount	IBR2		-25.00	0.00

In addition to the Total of all charges, the Account Charges on the Invoice Settlement Detail EBT "IST" would be:

Charge Category	Amount	Taxes
Commodity	50.94	3.56

RetailerBillAmount	-55.00	0.00
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3.3 *Example- Retailer Consolidated Billing*

The Invoice Settlement Total transaction will cross add to the Invoice Settlement Detail transaction(s) at the Account Charge Level and at the total level.

An example of an IST transaction

INVOICE SETTLEMENT TOTAL

Charge Category	Amount	Taxes
Commodity	100.00	7.00
Distribution	40.00	2.80
Transmission	80.00	5.60
Customer	120.00	8.40

See Table 2A –Attached.

TABLE 2-A

Retailer Consolidated Billing Option							
Example of Invoice Settlement Total Equating IST, ISDs and IBRs							
Note 1: The purpose of this example is to show the need from the Retailers' perspective to have symmetry in the individual Charge Categories for each type of EBT so as to allow for facilitating and verification of all charges.							
Note 2: Invariably there are multiple Usage EBTs that make up the 'commodity charge' dollar amount. The idea here is that the Commodity Charge (\$) can be verified by multiplying HOEP by the Hourly Usage of each Usage EBT (noting that to facilitate this, all associated EBTs of the various types have all been associated by the Source Transaction Reference Number, as referred in the document)							
Charge Categories	Charge Description	IST	ISD1	ISD2	IBR1	IBR2	
Total		3,630.0	2,423.6	1,206.4	283.6	136.4	
Account Charges							
Wholesale Market Services		75.0	50.0	25.0	50.0	25.0	
Transmission	Network	150.0	100.0	50.0	100.0	50.0	
Transmission	Connection	110.0	75.0	35.0	75.0	35.0	
Distribution	Monthly Customer Charge	40.0	30.0	10.0	30.0	10.0	
Distribution	Based on kW	17.5	10.0	7.5	10.0	7.5	
Customer							
Debt retirement charges							
Commodity		3,000.0	2,000.0	1,000.0			
Miscellaneous							
Account Taxes*							
Wholesale Market Services		5.3	3.5	1.8	3.5	1.8	
Transmission		10.5	7.0	3.5	7.0	3.5	
Transmission		7.7	5.3	2.5	5.3	2.5	
Distribution		2.8	2.1	0.7	2.1	0.7	
Distribution		1.2	0.7	0.5	0.7	0.5	
Customer							
Debt retirement charges							
Commodity		210.0	140.0	70.0			
Miscellaneous							
*Taxes applied to NCEC if tax option #3 (as indicated on the Service Agreement) was selected. For NCEC options 1 and 2, taxes applied to Commodity only							

 IST End