

Info type: Confidential

Company: NTT Data Payment Services India Limited

Info. owner: Product Management Group



Settlement API



CONFIDENTIALITY DISCLAIMER

The information included in this document is confidential information relating to the business of NTT Data Payment Services, India(NDPS). It is being presented to you based on the understanding that it will not be used for any reason other than consideration of a commercial relationship with NDPS and, will not be used in connection with any decision to trade in securities of NDPS. Please be advised that any disclosure of the information contained in this document/presentation to any other person, or any use of this information in connection with the trading of NDPS securities, may be a violation.

This document, or any part of it, may not be reproduced, copied, circulated and/or distributed nor quoted without prior written approval from NDPS.

A. Document Information

Document Attributes	Information
Document Name	Settlement API
Document Version	1.0
Owner	PMG
Author	Aviral Tripathi
Approved	Pavan Nikumbh

B. Revision Chart

This chart contains a history of this document's revisions.

Version	Primary Author	Description of Version	Date Completed	Reviewed By
1.0	Aviral Tripathi	Settlement API	22/08/2022	Pavan N.



Contents

I. Settlement API (Without AES)	5
a) Settlement report: (In .csv format)	5
UAT Testing Credentials	5
Production Credentials	5
Sample Response	5
b) JSON format [with CC/DC])	6
UAT Testing Credentials	6
Production Credentials	6
c) Sample Response (Settlement Date wise)	7
d) Sample Response (Transaction Id wise)	8
e) JSON format [without CC/DC])	8
UAT Testing Credentials	9
Production Credentials	9
f) Sample Response (Settlement Date wise)	9
g) Sample Response (Transaction Id wise)	
h) Status Code	10
II. Settlement API (With AES)	11
a) Settlement report: (In .csv format)	11
UAT Testing Credentials	11
Production Credentials	11
Open Request	11
Sample Response	11
b) JSON Format [with CC/DC])	12
UAT Testing Credentials	12
Production Credentials	12
c) Sample Encrypted Data (Settlement Date wise)	12
d) Sample Response (Settlement Date wise)	14
e) Sample Encrypted Data (Transaction Id wise)	15



f) Sample Response (Transaction Id wise)	15
g) JSON Format [without CC/DC])	16
UAT Testing Credentials	16
Production Credentials	16
Open Request	17
h) Sample Encrypted Data (Settlement Date wise)	17
i) Sample Response (Settlement Date wise)	17
j) Sample Encrypted Data (Transaction Id wise)	18
k) Sample Response (Transaction Id wise)	18
I) Status Code	19
m) Settlement status for particular transaction	19
III. Additional Parameter in Multi-Product Settlements	19
IV. AES Encryption/Decryption Logic	21
a) Request Encryption Code	21
b) Response Decryption Code	21



I. Settlement API (Without AES)

Description: Settlement API is provided for merchants to fetch the settlement report for transactions processed for any given time period.

a) Settlement report: (In .csv format)-

- 1) The API will only support POST method
- 2) For the API merchant need to share their IP for whitelisting in our system. API allows only whitelisted IPs to get the required report.
- 3) The parameters are "merchantId" and "settlementDate" (date should be in format YYYY-MM-DD e.g., 2015-05-26).
- 4) If there are records in for the merchant ID for the settlement date the Settlement File isgenerated.
- 5) In other cases, or error cases merchant will get response as .csv file always.

UAT Testing Credentials:

UAT:

URL= https://titanuat.atomtech.in/SettlementReport/generateReport

```
merchantId = 7760
settlementDate = 2019-03-25
responseType = json;
```

Production Credentials:

Production:

URL=https://pgreports.atomtech.in/SettlementReport/generateReport

```
merchantId = Merchant Production MID
settlementDate = Settlement Date
responseType = json;
```

Sample Response – .CSV



b) JSON format [with CC/DC])-

- 1) The API will only support POST method
- 2) For the API merchant need to share their IP for whitelisting in our system. API allows only whitelisted IPs to get the required report.
- 3) The parameters are "merchantId", "settlementDate" (date should be in format YYYY-MM-DD e.g. 2015-05-26) and responseType: json.
- 4) If there are records in for the merchant id for the settlement date the Settlement File is generated.
- 5) In other cases, or error cases merchant will get response as .JSON format always.

UAT Testing Credentials:

UAT:

URL= https://titanuat.atomtech.in/SettlementReport/generateReport

merchantId = 7760 settlementDate = 2019-03-25 responseType = json;

Production Credentials:

Production:

URL=https://pgreports.atomtech.in/SettlementReport/generateReport

merchantId = Merchant Production MID
settlementDate = Settlement Date
responseType = json;



c) Sample Response (Settlement Date wise)-

```
[
"srNo": "1",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "400036128272",
"txnState": "Sale",
"txnDate": "20-Mar-2019 13:23:31",
"clientCode": "4539",
"merchantTxnID": "47642867",
"product": "AXISEP SAND",
"discriminator": "DC",
"bankCardName": "",
"cardType": "INTERNATIONAL",
"cardNo": "652154XXXXXX6986",
"cardIssuingBank": "INTERNATIONAL",
"bankRefNo": "907918271417",
"refundRefNo": "",
"grossTxnAmount": "2796.60",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "2796.6",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
},
"srNo": "2",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "400036133790",
"txnState": "Sale",
"txnDate": "20-Mar-2019 14:21:52",
"clientCode": "4539",
"merchantTxnID": "47644324",
"product": "AXISEP SAND",
"discriminator": "DC",
"bankCardName": "",
"cardType": "DOMESTIC",
"cardNo": "652166XXXXXX7565",
"cardIssuingBank": "HDFC",
"bankRefNo": "907919271778",
"refundRefNo": "",
"grossTxnAmount": "15625.30",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
```



```
"totalChargeable": "0.0",
"netAmountToBePaid": "15625.3",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
}
]
```

d) Sample Response (Transaction Id wise)-

```
"srNo": "1",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "400036128272",
"txnState": "Sale",
"txnDate": "20-Mar-2019 13:23:31",
"clientCode": "4539",
"merchantTxnID": "47642867",
"product": "AXISEP SAND",
"discriminator": "DC",
"bankCardName": "",
"cardType": "INTERNATIONAL",
"cardNo": "652154XXXXXX6986",
"cardIssuingBank": "INTERNATIONAL",
"bankRefNo": "907918271417",
"refundRefNo": "",
"grossTxnAmount": "2796.60",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "2796.6",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
]
```

e) JSON format [without CC/DC])-

- The API will only support POST method
- 2. For the API merchant need to share their IP for whitelisting in our system. API allows only whitelisted IPs to get the required report.
- 3. The parameters are "merchantId", "settlementDate" (date should be in format YYYY-MM-DD e.g. 2015-05-26) and responseType: json.
- 4. If there are records in for the merchant ID for the settlement date the Settlement File



is generated.

5. In other cases or error cases merchant will get response as .JSON format always.

UAT Testing Credentials:

```
UAT:
```

```
URL= https://titanuat.atomtech.in/SettlementReport/generateReport
merchantId = 7760
settlementDate = 2019-03-25
responseType = json;
```

Production Credentials:

Production: URL=https://pgreports.atomtech.in/SettlementReport/generateReport merchantId = Merchant Production MID settlementDate = Settlement Date transactionId = Transaction Id responseType = json;

f) Sample Response (Settlement Date wise)-

```
"srNo": "9",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "300036240200",
"txnState": "Sale",
"txnDate": "22-Mar-2019 04:52:17",
"clientCode": "4539",
"merchantTxnID": "47667147",
"product": "AXISEP SAND",
"discriminator": "NB",
"bankCardName": "Corporation Bank",
"bankRefNo": "5593092",
"refundRefNo": "",
"grossTxnAmount": "3179.02",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "3179.02",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 00:00:00",
"refundStatus": "Not refunded"
]
```



g) Sample Response (Transaction Id wise)-

```
"srNo": "9",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "300036240200",
"txnState": "Sale",
"txnDate": "22-Mar-2019 04:52:17",
"clientCode": "4539",
"merchantTxnID": "47667147",
"product": "AXISEP SAND",
"discriminator": "NB",
"bankCardName": "Corporation Bank",
"bankRefNo": "5593092",
"refundRefNo": "",
"grossTxnAmount": "3179.02",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "3179.02",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 00:00:00",
"refundStatus": "Not refunded"
]
```

h) Status Code:

Status Code	Status Description
"00"	Mandatory parameter value can't be null.
S0	Invalid merchantld or merchant is not present.
S6	Invalid IP address or IP is not configured
S3	Invalid settlement date. Date should be in Format(yyyy-MM-dd)
S1	Invalid Response Type
S7	No data found



II. Settlement API (With AES)

- a) Settlement report: (In .csv format)-
 - 1) The API will only support POST method
 - 2) For the API merchant need to share their IP for whitelisting in our system. API allows only whitelisted IPs to get the required report.
 - 3) The parameters are "merchantId" and "settlementDate" (date should be in format YYYY-MM-DD e.g., 2015-05-26).
 - 4) If there are records in for the merchant ID for the settlement date the Settlement File is generated.
 - 5) In other cases, or error cases merchant will get response as .csv file always.

UAT Testing Credentials:

UAT:

Encrypted URL=

https://titanuat.atomtech.in/SettlementReport/generateReport?merchantId=7760&encdata=F1F7E46B85600F3CBB86E848B8F80149FF27D16E2D3B5B002081007CF73F90D15CEC7C147057045DCBCDDCF80A3661AC9460947D5940EB843C1CB31BC686F9C9C4670FD823D9F6DB062097FDB8F5337CF3B348D85BECB776CD77B4262D6D2D7C

Note*: For Open request refer Non-AES Section

Production Credentials:

Production:

Encrypted URL=

https://pgreports.atomtech.in/SettlementReport/generateReport&encdata=F1F7E46B856 00F3CBB86E848B8F80149FF27D16E2D3B5B002081007CF73F90D15CEC7C147057045DCBCDDC F80A3661ACF377EDB0545BE671F9F8192E1813D697FF9FA11D5D5DFE2F85A3B192E1C11262

Open Request

merchant Id=1191 | settlement Date=2020-08-04 | transaction Id=| response Type=| json the properties of the properties

Sample Response –

.CSV



b) JSON Format [with CC/DC])-

- 1) The API will only support POST method
- 2) For the API merchant need to share their IP for whitelisting in our system. API allowsonly whitelisted IPs to get the required report.
- 3) The parameters are "merchantId", "settlementDate" (date should be in format YYYY-MM-DD e.g. 2015-05-26) and responseType: json.
- 4) If there are records in for the merchant ID for the settlement date the Settlement File is generated.
- 5) In other cases, or error cases merchant will get response as .JSON format always.

UAT Testing Credentials:

UAT:

URL= <u>https://titanuat.atomtech.in/SettlementReport/generateReport</u>

merchantId = 7760

settlementDate = 2019-03-25

transactionId = 400036128272

responseType = json;

Production Credentials:

Production:

URL=https://pgreports.atomtech.in/SettlementReport/generateReport

merchantId = Merchant Production MID settlementDate = Settlement Date transactionId = Transaction Id responseType = json;

c) Sample Encrypted Data (Settlement Date wise)-

18642F36C9661C57F6518466E8E9539BB5F48B31D83BF0F632AC9A80D3532B1C8B12D173
0A1A53329157828C84256D366654791D30553C71718A17E004C3CB85D3C605FCE0B6B59
4CBA67D53DCEBC05896299468ABFEC540C52FF3D4A31361EBE6CE467F438D504414B8F
66C11731141E6BA419C9175F5C5F0C6BA8CBBA589B78BFF61E70CB06B756CECCFB13F3
9E034A60342B82FFB7CA657BEBBFF5F8DA7BAA02AD8DE79085BDBE1A4515E1EA38930
4680CA62131A526B3B9E8234ED10836DF067348F407DA03778F76E5D751BC26563B514B6
D0206B2959208419F84C1ED88DC81A6E4CEA71507722D59597D962B83E6129BD7197D98
AE778E298326B854183014A10A2ECDE46E35E7E676E5240D7D5B0663254D6661B933D6F



EFDC43DD8A2204996B67785836CF6E98502545A1CFE6B4007E1E5B22832D50D234C9200 7E08D2417785AD2AE66594F68F8B9E469F4020037AA60AB50C7704F3D545039ECC1AD95 CC6133D9BB9EC271E85723E4D96598B42551CA09897764B3EAC43CB633B09D6ED29218 3CB2EBDCA18A3A313594B18FEC3A949613EE3145C40037EF58C666D3455567BFCFAA47 CAEA5182212F59D103EC6B4B30CABBEDC6EE4728ADE14A34D52AD266BD2C25AA95193 23D2004EA76DDA11E7DBB023AC18AD82CC47F78F64CA3B82CC24B9A07C1F62830A9DA CFCE410AD5D3F44F995035B947C7CBA66B88D77847C5F92487E3BD5699157CD1BA0406 81F84818BB57A782F89F7FAE855C9CDC5A21712C397A4D69DA17AF61E4A35BCFCD2489 E3065ACBB42125FFE36DFA65087FEB67C0507B0D52509FCC1AF56AFD58C789AC4AC6B4 32AA7EA135FA9FB29CAA6485DF1AADF1929373A79542BED43618ECDC92543F9A7F8529 6BCF15613215A85160FDD7F9D05687618C92D6D232CC148F3C27CBB78BB17F1E5277CB B77DCAC1A7A1988950C34112B293099E604BB7340B4D54690821CF33D5BF51C9A784589 1C11A2B73137296B07D0D4FA5737A78819BAD6B41407049F0734DC3A0AA931D04B642AF E7DE66247B8679DC185A6320EC674528A9CB85637E1BED60768AE5E7063EF1522F50FA5 FF077BDA5B0DCFB866050D8324152C6C9FF5C671218127F1D97A998B2E4F7C20DED73F 9650865CE596C190B37348E73CFFA5407A1CF99058A5C6C28157D37B3E2FD9F2DB8564A 0F0AD044A80B5A629E5108CBD89133EB7CE8E57F0367800DF61CCFB4B6E86369167FF1A DFB605358A12FD6F5E92F91FFAF22FDCD79B0B2D799CAB220B0B18617E54B9878E2D6A 522B1E04DF2D863175D89F19252DBD46BF3AA45F4BB9D0CA6676774A2520C25B3213DE5 462DF689D91B0F32C33DFB416B3C3CBA448EF896716276120267B4245ED5A26B50F1607 FE138F5568BC9B24EB2073F0628E7A65D34FFFFA56C5F00BE35645367F068F6A829073E3 35CFC02F9EB691C6550F4D222F0ABC25A220C793C46CD442CF787DEA8C50B82037AA8C 1ECBB9CB10D69A85468E9B7C817C4248395D8579556C3360B4FBEF1D4513A10D40FF142 274A2CCE857D5792B8598B0D7D941FC195C2BAEF0962E99CE9FC1E1AF461C58E2450C C2FEE283D400176288D25E927A876BC41E958EB438B89DD7329BAF96ED0DEDFE43E429 F85D7D84F49E5F22E27F13CED7682E9C1E0F17069A45DD71F4BE200774AB21C699DC802 4C6410A398E404E2FEF1140100039C014705A3A441E4503A86284B84B9B3D62F717F40A6 C69EDCD893F4A6A5260D9B2CA86A075640431976DBC46C3C652FB549BC9F38EA8176CF CFC5F242060BBD9F2E8039E1786DE2AE1206246A8EA1B1F5D86F6BB2602D88E277267C B765B3478C23A594E257F6C65E7B3E5BE85A01882150B34C233CB3DCFE3239906AE851E 6CD4A0D56481873230FF820DF7D087D82F901C8416E66A05C681D40319D8A00238BFB40 9CDC5026F2FF11486B368FE856558ACC8661C96E7833F39E9BC1D9901F6261E972565C4 E51D0C8B8C0167715FA387AE004398F14907612425A6156CFD9D514C0A92943AA3EF2A2 A245EE22CA43D3BB69C002BB1D39C10ACF8A72080298403328976C776EFC8A78CCF371 9C272577D3EE3F05D1701F9F18EC971CE7A6D024B17E8AE19D65B36ADE7341D22641D6 2F772EECC17EF8F98A37D68903E717AB32CB0429E2D4E09F03BB071D1397C4F93EA3BE 5E9977E8733ADF2DFA2C9EE2EA3D946D6A3398B4BD793E43B04CE510A7A7A3FAB04365 B897FAA6677824FDE0EB89A05820E61D685B1DCCE5003F13D128BEAC16808F599BFEE0 2AE4BE429CB7F1843C2CDAD7F9D62CB2DD3DAD8B2B7E6B63D0818D



d) Sample Response (Settlement Date wise)-

```
[
ſ
"srNo": "1",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "400036128272",
"txnState": "Sale",
"txnDate": "20-Mar-2019 13:23:31",
"clientCode": "4539",
"merchantTxnID": "47642867",
"product": "AXISEP SAND",
"discriminator": "DC",
"bankCardName": "",
"cardType": "INTERNATIONAL",
"cardNo": "652154XXXXXX6986",
"cardIssuingBank": "INTERNATIONAL",
"bankRefNo": "907918271417",
"refundRefNo": "",
"grossTxnAmount": "2796.60",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "2796.6",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
},
"srNo": "2",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "400036133790",
"txnState": "Sale",
"txnDate": "20-Mar-2019 14:21:52",
"clientCode": "4539",
"merchantTxnID": "47644324",
"product": "AXISEP SAND",
"discriminator": "DC",
"bankCardName": "",
"cardType": "DOMESTIC",
"cardNo": "652166XXXXXX7565",
"cardIssuingBank": "HDFC",
"bankRefNo": "907919271778",
"refundRefNo": "",
"grossTxnAmount": "15625.30",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "15625.3",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
```



```
"refundStatus": "Not refunded"
}
]
```

e) Sample Encrypted Data (Transaction Id wise)-

18642F36C9661C57F6518466E8E9539BB5F48B31D83BF0F632AC9A80D3532B1C8B12D173 0A1A53329157828C84256D366654791D30553C71718A17E004C3CB85D3C605FCE0B6B59 4CBA67D53DCEBC05896299468ABFEC540C52FF3D4A31361EBE6CE467F438D504414B8F 66C11731141E6BA419C9175F5C5F0C6BA8CBBA589B78BFF61E70CB06B756CECCFB13F3 9E034A60342B82FFB7CA657BEBBFF5F8DA7BAA02AD8DE79085BDBE1A4515E1EA38930 4680CA62131A526B3B9E8234ED10836DF067348F407DA03778F76E5D751BC26563B514B6 D0206B2959208419F84C1ED88DC81A6E4CEA71507722D59597D962B83E6129BD7197D98 AE778E298326B854183014A10A2ECDE46E35E7E676E5240D7D5B0663254D6661B933D6F EFDC43DD8A2204996B67785836CF6E98502545A1CFE6B4007E1E5B22832D50D234C9200 7E08D2417785AD2AE66594F68F8B9E469F4020037AA60AB50C7704F3D545039ECC1AD95 CC6133D9BB9EC271E85723E4D96598B42551CA09897764B3EAC43CB633B09D6ED29218 3CB2EBDCA18A3A313594B18FEC3A949613EE3145C40037EF58C666D3455567BFCFAA47 CAEA5182212F59D103EC6B4B30CABBEDC6EE4728ADE14A34D52AD266BD2C25AA95193 23D2004EA76DDA11E7DBB023AC18AD82CC47F78F64CA3B82CC24B9A07C1F62830A9DA CFCE410AD5D3F44F995035B947C7CBA66B88D77847C5F92487E3BD5699157CD1BA0406 81F84818BB57A782F89F7FAE855C9CDC5A21712C397A4D69DA17AF61E4A35BCFCD2489 E3065ACBB42125FFE36DFA65087FEB67C0507B0D52509FCC1AF56AFD58C789AC4AC6B4 32AA7EA135FA9FB29CAA6485DF1AADF1929373A79542BED43618ECDC92543F9A7F8529 6BCF15613215A85160FDD7F9D05687618C92D6D232CC148F3C27CBB78BB17F1E5277CB B77DCAC1A7A1988950C34112B293099E604BB7340B4D54690821CF33D5BF51C9A784589 1C11A2B73137296B07D0D4FA5737A78819BAD6B41407049F0734DC3A0AA931D04B642AF E7DE66247B8679DC185A6320EC674528A9CB85637E1BED60768AE5E7063EF1522F50FA5 FF077BDA5B0DCFB866050D8324152C6C9FF5C671218127F1D97A998B2E4F7C20DED73F 9650865CE596C5ED09FC2132AA69D2CF319C54FE93B9E

f) Sample Response (Transaction Id wise)-

```
[
[
{
"srNo": "1",
"merchantName": "BOB_DIP",
"merchantID": "7760",
"atomTxnID": "400036128272",
"txnState": "Sale",
"txnDate": "20-Mar-2019 13:23:31",
"clientCode": "4539",
"merchantTxnID": "47642867",
"product": "AXISEP_SAND",
"discriminator": "DC",
```



```
"bankCardName": "",
"cardType": "INTERNATIONAL",
"cardNo": "652154XXXXXX6986",
"cardIssuingBank": "INTERNATIONAL",
"bankRefNo": "907918271417",
"refundRefNo": "",
"grossTxnAmount": "2796.60",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "2796.6",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
]
```

g) JSON Format [without CC/DC])-

- 1. The API will only support POST method
- 2. For the API merchant need to share their IP for whitelisting in our system. API allows only whitelisted IPs to get the required report.
- 3. The parameters are "merchantId", "settlementDate" (date should be in format YYYY-MM-DD e.g. 2015-05-26) and responseType: json.
- 4. If there are records in for the merchant id for the settlement date the Settlement File isgenerated.
- 5. In other cases, or error cases merchant will get response as .JSON format always.

UAT Testing Credentials:

UAT:

Encrypted URL= https://titanuat.atomtech.in/SettlementReport/generateReport?
merchantId=7760&encdata=F1F7E46B85600F3CBB86E848B8F80149FF27D16E2D3B5B002081007CF7
3F90D15CEC7C147057045DCBCDDCF80A3661AC9460947D5940EB843C1CB31BC686F9C9C4670FD823D
9F6DB062097FDB8F5337CF3B348D85BECB776CD77B4262D6D2D7C

Note*: For Open request refer Non-AES Section

Production Credentials:

Production:

Encrypted URL=

https://pgreports.atomtech.in/SettlementReport/generateReport&encdata=F1F7E46B856 00F3CBB86E848B8F80149FF27D16E2D3B5B002081007CF73F90D15CEC7C147057045DCBCDDC F80A3661ACF377EDB0545BE671F9F8192E1813D697FF9FA11D5D5DFE2F85A3B192E1C11262



Open Request

merchantId=1191|settlementDate=2020-08-04|transactionId=|responseType=json

h) Sample Encrypted Data (Settlement Date wise)-

69E0C5BD05E52F084A1956AAA52585C9AF83B895120423D1EC36753063437D82D759313DAAC68BA4DB5F83C4CA0 1503F42A64E9E0C0A7676E6521EE4325254429E86D486BDC6754A4639B06FA145C210169C655C8BC18A7D823D7F1 03A8C84CAF5470295D5D6EB4864932192349AAEDCCF94070EF404130E91F1CEDEE692067A1F838E0861E86956C7CF EFEFB742A7E91556ED0B370F63FD96DC51107031D0D53EA653C1113FADAD791209E3091B5E1EC10FE0C8FA179ED3 E5841AF475182BF9B3F3F2B366E711CDE342896064C705F7BE3D8F8F60D4F5F4258405BC760871EA7B0ABD72495A4 3DDD24207CEDD2BB69884E36CAFEADB1C802CB78F9F73F63C5CDF8BF0987A4214E19AFFEDFB75D3DF2B2AC14FAE 67EC911B39C84BFF21841726A18E5AAB117D49259AF9ABFCC20DFC8738BC1055D1C67FB93C37446ABF7EA7BD2B73 61A52F0EB57C7E6CBEF308864A738815BBCCF55BDD04B7C7EBECA4AF0D6CEF5B4F4D687A3980A5A577D3E3A9643 18A15F0EEACEE134A1C1A4D5AB7D759DACC5880E8EE981C5808850BE75C1961CEC04E2D31768C8D5F8EE15F030FC AEC9E1A1CC335BEF745CCB975BDEB73207656B4932D45735E8DF202E2A982CAD6B728D6786F50FAA3ECD5C884AD 28D3D79DC22432DAE22875670C2EC0E894668B788AB021FDDDFF78D389BBD65814138020D18B59967D7962B58F9 A6A24A0EC5049602DF8E28632A0B41A09F163EB46441058AA5B3C25A7CE47B391EFC6704DFBAAD14C835E77F5869 44A46887D24D7D918DA50D3498481BEF609E88F57653C120F398B0645CB7CE4E22F5459B7CED7DEFF42CC5CE0E1A C945191FA2A29578A6A4F05C4A3206FF2C7F575D81673DBC6F56F889A6176EEC15983135CD63938D79CA3ECABB6D B81F35BCF1089DA82E47FC45C5B44AF9FA9B95AE3DA1AAE896C5F5C46B33230F70447BC1C2376C867175F88571746 11D01F20E79ED9A8198F5D573E15EC868860A574AC9871BF59D827A7E7AFD0B5E73B0204B7F03B7FCD5A0D63F5A DF5

i) Sample Response (Settlement Date wise)-

```
"srNo": "9",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "300036240200",
"txnState": "Sale",
"txnDate": "22-Mar-2019 04:52:17",
"clientCode": "4539",
"merchantTxnID": "47667147",
"product": "AXISEP SAND",
"discriminator": "NB",
"bankCardName": "Corporation Bank",
"bankRefNo": "5593092",
"refundRefNo":"",
"grossTxnAmount": "3179.02",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "3179.02",
```



```
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 00:00:00",
"refundStatus": "Not refunded"
}
]
```

j) Sample Encrypted Data (Transaction Id wise)-

EE0B35DCD326B903B5EEE756DDD30EBA57642E9A5E0A494577CE51ABDBC04E8F950E0ECF7198FC741150A6CB7266 5DA522E5485EE2B89D204436D7623D95B9B74829346A71B06F4F154A19DF548E3124D6E585F19F0DD7DE89E4DFE6 60234E7BEE5E17C254CB00CF1EC48CA05D6CC2FF262C5C735A45245F383606F9463EFB0775DE1182CF0267F790182 OD8D3E186D991A47159C81E8498039380F983FF34F754622708E98DA6B4484370BA4D66BB28CE4CBD58209C514DD A9524E9B37B17DB47BEE5BFA2C16A41B3920CBCCDCFA1ADED6E18FCD6862276410BA7B9597693F4CC895879C2E7 C30CE8D679BF2AAA74D0002CE077D4AC54DBEFB3D8B66759D5691E901CE547B216CEBC9A9BFF9CE4A5C2528DBA7 692F4FFB054F8F703E68FAF413529BFB90FA5227AEA8EFE404AF1706EA18A6571A14C5BF169BDC2A64C673C7E7EAA 012DE327AB1DFECCD3EA39FE3FCBC19303DAB211759CDD3353512E8B71103C47F9576A790FA0AA7F65CBEA35FB78 92A6BB1C6E1530D963BBF0638F59013AA882C022B0BDFCD3D5EDC1AC55B2A5836ACD1635353A96223C5D06036EE6 BB74F517EA5ECA6DC8DAE8B193ED168F2B94DA6118EF464E98E9879F6D2C1FDD86037ABC5AB4653A8AF3FAAD2B2 B3BCF447494AB18EFCA67A722D36344AD7575C31071EB9D706FBF28B9A0590E328DC1EDA0766895DF672DF86C59A AD970A8278C8C0B3CE71245DD0FD387058C26FD7A546EB831A33D21EA2511327D3AFB75834AD4F441E440A40C88 03C4392284B50EB283A61693C6E1BF4D45EA1DE791CB2749BA519C354D80F5C88982B3918E3F8CD0808AE684DB95 D8C19F7A66A22D18B1F64E2316231445C33764724023A96A6274E2D2FF6EF847CCDA94B9B4BB6B466CA7805B27B88 E8DAE5D336570271B4B2128F9F4011C1DAC90C78709628D22637835636404CE8E4CA92358BF6E2A3D221A481526A 7973D9CE054EBFF7A110C08C0121E73A4FDA2819706098882688A92CA8F79168686E9A830037A4483E0127A02B39 396B26F63C7A3B64A335FAB34B7FEFB609182E59E5078AC7145A8406734609A66

k) Sample Response (Transaction Id wise)-

```
[
"srNo": "9",
"merchantName": "BOB DIP",
"merchantID": "7760",
"atomTxnID": "300036240200",
"txnState": "Sale",
"txnDate": "22-Mar-2019 04:52:17",
"clientCode": "4539",
"merchantTxnID": "47667147",
"product": "AXISEP SAND",
"discriminator": "NB",
"bankCardName": "Corporation Bank",
"bankRefNo": "5593092",
"refundRefNo": "",
"grossTxnAmount": "3179.02",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
```



```
"totalChargeable": "0.0",
"netAmountToBePaid": "3179.02",
"paymentStatus":"SALE",
"settlementDate": "25-Mar-2019 00:00:00",
"refundStatus": "Not refunded"
}
]
```

l) Status Code:

Status Code	Status Description
"00"	Mandatory parameter value cant be null.
S0	Invalid merchantId or merchant is not present.
S6	Invalid ip address or ip is not configured
S3	Invalid settlement date. Date should be in Format(yyyy-MM-dd)
S1	Invalid Response Type
S2	Invalid transactionId
S7	No data found

Note*:

- 1. Settlement Date and Transaction Id cannot be passed together
- 2. If both are passed together, error "Provide Either TransactionID or SettlementDate. Both cannot be provided same together." With Status code "00" will be exhibited
- 3. If responseType= JSON is not provided in request, .csv file will be downloaded
- 4. For testing make use of transaction details provided in attached file

m) Settlement status for particular transaction -

Link -

 $\underline{\text{https://psa.atomtech.in/paynetz/vsfts?merchantid=107031\&merchanttxnid=M123\&amt=1\&tdate=2022-09-20\&atomtxnid=11000126322726}$

Sample Response -

```
<?xml version="1.0" encoding="UTF-8"?>
<VerifyOutput TxnDate="2016-06-21 18:21:24" CardNumber="652189XXXXXX0233"
surcharge="0.00" discriminator="DC" atomtxnId="17075765" bankname="ATOM PG"
BID="617318000165" VERIFIED="SUCCESS" AMT="50" MerchantTxnID="123"
MerchantID="1646" SettlementAmount="49.52" ReconStatus="RNS"/>
```



Response Example – date=Tue Sep 20 15:59:26 IST

2022&CardNumber=null&surcharge=0.01&clientcode=NAVIN&scheme=null&udf15=null&udf14=null&signat ure=b7234715592f900fe640d03a5bb67fdf8f308dda002a8174b4c97a38aafe664b8584b565d2f9cf159147ec 548f280eb9c801e7254dd0f1961e9ad4f6faa28261&udf13=null&udf12=null&udf11=DUMMY1313&amt=1.00 &udf10=ABCD123&merchant_id=107031&mer_txn=M123&f_code=Ok&bank_txn=226344205817&udf9=AB CD&ipg_txn_id=11000126322726&bank_name=ICICI

Bank&prod=Pennydrop&mmp_txn=11000126322726&udf5=null&udf6=null&udf3=99999999999998udf4=null&udf1=smithbob&udf2=aviral.tripathi@atomtech.in&discriminator=UP&auth_code=null&desc=APPROVED OR COMPLETED SUCCESSFULLY

Please note that response would be given in case of RNS and RS transactions, for NRNS transaction response would be NODATA.

Abbreviation:

Transaction	
State	Description
NRNS	Not Reconciled Not Settled
RNS	Reconciled Not Settled
RS	Reconciled Settled

III. Additional Parameter in Multi-Product Settlements

The following is the additional parameter received in the Response in case there are multi-product transactions in the Settlement Report –

Parameter Name - "prodDetails"

Sample Response (Transaction Id wise):

```
[
{
"srNo": "1",
"merchantName": "BOB_DIP",
"merchantID": "7760",
"atomTxnID": "400036128272",
"txnState": "Sale",
"txnDate": "20-Mar-2019 13:23:31",
"clientCode": "4539",
"merchantTxnID": "47642867",
"prodDetails":
[{"prodName":"Pennydrop1","prodAmount": 10.00},
{"prodName":"Pennydrop2","prodAmount": 10.00}],
"discriminator": "DC",
"bankCardName": "",
"cardType": "INTERNATIONAL",
```



```
"cardNo": "652154XXXXXXX6986",
"cardIssuingBank": "INTERNATIONAL",
"bankRefNo": "907918271417",
"refundRefNo": "",
"grossTxnAmount": "2796.60",
"txnCharges": "0.0",
"serviceTax": "0.0",
"sbCess": "0.0",
"krishiKalyanCess": "0.0",
"totalChargeable": "0.0",
"netAmountToBePaid": "2796.6",
"paymentStatus": "SALE",
"settlementDate": "25-Mar-2019 18:30:00",
"refundStatus": "Not refunded"
}
```

IV. AES Encryption/Decryption Logic

a) Request Encryption Code -

```
private String encrypt(String plainText) throws Exception
{
   byte[] saltBytes = this.salt.getBytes("UTF-8");
   SecretKeyFactory factory = SecretKeyFactory.getInstance("PBKDF2WithHmacSHA1");
   PBEKeySpec spec = new PBEKeySpec(this.password
        .toCharArray(), saltBytes, pswdIterations, keySize);
   SecretKey secretKey = factory.generateSecret(spec);
   SecretKeySpec secret = new SecretKeySpec(secretKey.getEncoded(), "AES");
   IvParameterSpec locallvParameterSpec = new IvParameterSpec(this.ivBytes);
   Cipher cipher = Cipher.getInstance("AES/CBC/PKCS5Padding");
   cipher.init(1, secret, locallvParameterSpec);
   byte[] encryptedTextBytes = cipher.doFinal(plainText.getBytes("UTF-8"));
   return byteToHex(encryptedTextBytes);
}
```

b) Response Decryption Code -

```
private String decrypt(String encryptedText)
  throws Exception
{
   byte[] saltBytes = this.salt.getBytes("UTF-8");
   byte[] encryptedTextBytes = hex2ByteArray(encryptedText);
   SecretKeyFactory factory = SecretKeyFactory.getInstance("PBKDF2WithHmacSHA1");
   PBEKeySpec spec = new PBEKeySpec(this.password
   .toCharArray(), saltBytes, pswdIterations, keySize);
```



```
SecretKey secretKey = factory.generateSecret(spec);
SecretKeySpec secret = new SecretKeySpec(secretKey.getEncoded(), "AES");
IvParameterSpec localIvParameterSpec = new IvParameterSpec(this.ivBytes);
Cipher cipher = Cipher.getInstance("AES/CBC/PKCS5Padding");
cipher.init(2, secret, localIvParameterSpec);
byte[] decryptedTextBytes = (byte[])null;
decryptedTextBytes = cipher.doFinal(encryptedTextBytes);
return new String(decryptedTextBytes);
}
```