

API Index:

1. Add Receipt API
2. Update Receipt API
3. Void Receipt API
4. Get Receipt Details API
5. Download Receipt PDF API
6. API to fetch details of Receipts (Receipts List API)
7. API to fetch details of write-offs done in a given date period
8. Add Refund API
9. Update Refund API
10. Refunds List API

1. API to add Receipt and apply payment to Invoices

Request

URL : <https://ehr.charmtracker.com/api/ehr/v1/receipts>

Method : POST

Sample JSON Input Spec

```
{
  "is_patient_payment": "true",
  "receipt_date": "2015-05-11",
  "receipt_amount": "100.00",
  "payment_method": "Cash",
  "facility_id": "100000000000007562",
  "patient_id": "100000000000008624",
  "provider_id": "100000000000005644",
  "reference_number": "1234567890",
  "check_number": "Check1234567890",
  "description": " test description for payment",
  "invoices": [
    {
      "invoice_id": "100000000000005059",
      "payment_to": "Invoice|Claim",
      "payment_amount": "100.00",
      "adjustment_amount": "2.00",
      "adjustment_type": "Payer Adjustment",
      "writeoff_amount": "10.00",
      "writeoff_type": "Bad debt",
      "pat_res_amount": "5.00",
      "pat_res_type": "Others",
      "transaction_comments": "test comments",

      "items": [
        {
```

```

        "item_id":"100000000000005061",
        "item_payment_amount":"15.00",
        "item_adjustment_amount":"2.00",
        "item_adjustment_type":"Payer Adjustment",
        "item_writeoff_amount":"3.00",
        "item_writeoff_type":"Bad debt",
        "item_pat_res_amount_1":"5.00",
        "item_pat_res_type_1":"Others",
        "item_pat_res_amount_2":"5.00",
        "item_pat_res_type_2":"Others",
        "is_item_denied":"true|false",
        "item_comments":"test comments"
    },
    {
        "item_id":"10000000000000973",
        "item_payment_amount":"20.00",
        "item_adjustment_amount":"0.00",
        "item_adjustment_type":"Payer Adjustment",
        "item_writeoff_amount":"10.00",
        "item_writeoff_type":"Bad debt",
        "item_pat_res_amount_1":"5.00",
        "item_pat_res_type_1":"Others",
        "item_pat_res_amount_2":"5.00",
        "item_pat_res_type_2":"Others",
        "is_item_denied":"true|false",
        "item_comments":"test comments"
    }
]
}

```

Notes:

- Keys specified in blue colour are optional

Sample cURL request

```
curl -i -X POST \
  -H "Content-Type:application/json" \
  -H "Authorization:Bearer xxx" \
  -H "api_key:xxx" \
  -d \
  '{
    "is_patient_payment": "true",
    "receipt_date": "2020-05-13",
    "receipt_amount": "100.00",
    "payment_method": "Check",
    "facility_id": "100027000000000161",
    "patient_id": "100027000000000289",
    "provider_id": "100027000000000101"
  }' \
  'https://<domain_name>/api/ehr/v1/receipts'
```

Sample Response

```
{
  "code": "0",
  "message": "success",
  "receipt":{
    "receipt_id": "1000270000000008005",
    "receipt_number": "1",
    "receipt_date": "2020-05-13",
    "patient_id": "100027000000000289",
    "facility_id": "100027000000000161",
    "receipt_amount": 100.0,
    "payment_method": "Cheque"
  }
}
```

2. API to update Receipt details and its applied Payments

Request

URL : https://ehr.charmtracker.com/api/ehr/v1/receipts/{receipt_id}

Method : PUT

Parameter

{receipt_id} - Unique identifier of the Receipt

Sample JSON Input Spec

```
{
  "is_patient_payment": "true",
  "receipt_date": "2015-05-11",
  "receipt_amount": "100.00",
  "payment_method": "Cash",
  "facility_id": "100000000000007562",
  "patient_id": "100000000000008624",
  "provider_id": "100000000000005644",
  "reference_number": "1234567890",
  "check_number": "Check1234567890",
  "description": " test description for payment",

  "invoices": [
    {
      "invoice_id": "100000000000005059",
      "payment_to": "Invoice|Claim",
      "transaction_id": "100000000000003782",
      "payment_amount": "100.00",
      "adjustment_amount": "2.00",
      "adjustment_type": "Payer Adjustment",
      "writeoff_amount": "10.00",
      "writeoff_type": "Bad debt",
      "pat_res_amount": "5.00",
```

```
"pat_res_type":"Others",
"transaction_comments":"test comments",

"items": [
  {
    "item_id":"1000000000000005061",
    "item_payment_amount":"15.00",
    "item_adjustment_amount":"2.00",
    "item_adjustment_type":"Payer Adjustment",
    "item_writeoff_amount":"3.00",
    "item_writeoff_type":"Bad debt",
    "item_pat_res_amount_1":"5.00",
    "item_pat_res_type_1":"Others",
    "item_pat_res_amount_2":"5.00",
    "item_pat_res_type_2":"Others",
    "is_item_denied":"true|false",
    "item_comments":"test comments"
  },
  {
    "item_id":"100000000000000973",
    "item_payment_amount":"20.00",
    "item_adjustment_amount":"0.00",
    "item_adjustment_type":"Payer Adjustment",
    "item_writeoff_amount":"10.00",
    "item_writeoff_type":"Bad debt",
    "item_pat_res_amount_1":"5.00",
    "item_pat_res_type_1":"Others",
    "item_pat_res_amount_2":"5.00",
    "item_pat_res_type_2":"Others",
    "is_item_denied":"true|false",
    "item_comments":"test comments"
  }
]
```

```
}
]
}
```

Notes:

- Keys specified in blue colour are optional
- Keys specified in green colour are applicable for 'Update API'

3. API to void a Receipt

Request

URL : https://ehr.charmtracker.com/api/ehr/v1/receipts/<receipt_id>/void

Method : PUT

Sample JSON Input Spec

```
{
    "void_comments": "test void comments",
}
```

4. API to fetch details of a Receipt

Request

URL : https://ehr.charmtracker.com/api/ehr/v1/receipts/<receipt_id>

Method : GET

Scope : *charmhealth.patient.receipt.READ*

Parameter Details

Name	Value	Description
receipt_id	Number with maximum length of 19	It is a mandatory parameter

Details

This API will fetch details of receipt along with invoice(s) paid with this receipt, patient and facility details in JSON format. The fields shown in red color in the below response are optional. Optional fields will become part of response only when its corresponding value is available.

Sample Response

```
{
  "code": 0,
  "message": "success",
  "receipt": {
    "receipt_id": "100000000000011065",
    "receipt_number": "16",
    "receipt_amount": "150.0",
    "payment_method": "Check",
    "receipt_date": "2014-12-12",
    "receipt_added_date": "2014-12-12",
    "receipt_updated_date": "2014-12-12",
    "reference_number": "This is field for reference number",
    "check_number": "This is field for check / reference number",
    "description": "This is field for description",
  }
}
```



```
"is_patient_payment": "true",
"is_recurring_receipt": "false",
"is_voided": "false",
"total_applied_payment_amount": "120.0",
"total_refund_amount": "20.0",
"unused_amount": "10.0",
"patient_details": {
    "patient_id": "100000000000002027",
    "patient_record_id": "cha0001",
    "patient_gender": "male",
    "patient_first_name": "Anand Kumar",
    "patient_dob": "1988-07-02",
    "patient_middle_name": "",
    "patient_full_name": "Anand Kumar Arulmurugan",
    "patient_last_name": "Arulmurugan"
},
"facility_details": {
    "facility_id": "100000000000000179",
    "facility_name": "charmadmin",
    "facility_code": "charm"
},
"void_details": {
    "voided_by": "Dr. Steven \" D'Antonio",
    "void_comments": "comments of voiding"
},
"invoices_paid": [
    {
        "payment_id": "1000000000000116723",
        "payment_amount": "100.0",
        "payment_to": "Invoice",
        "payment_added_date": "2014-12-12",
        "payment_updated_date": "2014-12-12",
        "invoice_number": "INV6",
```

```
        "invoice_date": "2014-12-12",
        "invoice_id": "100000000000011001",
        "invoice_amount": "254.88",
        "invoice_status": "Paid",
        "is_deleted": "false",
        "reference_payment_id": ""
    },
    {
        "payment_id": "100000000000011874",
        "payment_amount": "20.0",
        "payment_to": "Invoice",
        "payment_added_date": "2014-12-12",
        "payment_updated_date": "2014-12-12",
        "invoice_number": "INV2",
        "invoice_date": "2014-12-09",
        "invoice_id": "100000000000003465",
        "invoice_amount": "251.0",
        "invoice_status": "Partially Paid",
        "is_deleted": "false",
        "reference_payment_id": ""
    }
],
"refunds": [
    {
        "refund_id": "100000000000013009",
        "refund_amount": "20.0",
        "refund_method": "Cash",
        "refund_date": "2014-12-12",
        "refund_added_date": "2014-12-12",
        "refund_updated_date": "2014-12-12",
        "refunded_by": "Dr. Steven \" D'Antonio",
        "refund_reference_number": "reference number",
        "refund_comments": " This is field for comments"
```

```
}  
  }  
]  
}
```

5. Download Receipt PDF API

URL : https://ehr.charmtracker.com/api/ehr/v1/billing/receipt/{receipt_id}/download

Method : GET

Parameters:

receipt_id - Unique identifier of Receipt in ChARM

6. API to fetch details of Receipts (Receipts List API)

Request

URL :

https://ehr.charmtracker.com/api/ehr/v1/receipts?facility_id=<facility_value>&patient_id=<patient_id_value>

Method : GET

Scope : *charmhealth.patient.receipt.READ*

Parameter Details

Parameter Name	Parameter Value	Example	Description
facility_id	Number with maximum length of 19	If facility_id is not given, Receipts are fetched across facilities	It is a non-mandatory parameter
patient_id	Number with maximum length of 19	If patient_id is not given, Invoices of all patients are fetched	It is a non-mandatory parameter
receipt_number	String	Refers to "Receipt Display ID" in ChARM	It is a non-mandatory parameter
date_name	receipt_date (or) receipt_added_date (or) receipt_updated_date	Receipts are fetched based on this date	It is a non-mandatory parameter. Default value is receipt_date .
from_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
to_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
start_index	Number	Receipts are fetched from this index	It is a non-mandatory parameter. Default is 1

Parameter Value	Description
receipt_date	Refers the date chosen by the user for Receipt i.e 'Receipt Date'
receipt_added_date	Refers the date on which Receipt is added in the System i.e 'Receipt

	Added Date'
receipt_updated_date	Refers the date on which Receipt is updated recently in the System i.e Receipt Updated Date'. The operations such as 'Edit & Apply Payment', 'Add/Edit Refund', 'Void Payment' and 'Adjust Invoice Payments' are considered as 'Update' for Receipt

Details

- This API will fetch details of receipts based on specified date_value, from_value, to_value and start_value parameters
- This API will return a maximum of 100 Receipts in single call. This API should be called in loop with respective value for the parameter **start_index** to get all Receipts for the given criteria. And loop should terminate when Receipts count is less than 100
- For 1st API call, value for the parameter **start_index** should be 1. For 2nd API call, it should be 101 and so on

Sample Response Format:

```
{
    "code": 0,
    "message": "success",
    "receipts": [
        {...1st receipt...},
        {...2nd receipt...},
        ...
        {...nth receipt...}
    ]
}
```

Sample Response:

```
{
  "code": 0,
  "message": "success",
  "receipts": [
    {
      "receipt_id": "100000000000011065",
      "receipt_number": "16",
      "receipt_amount": "150.0",
      "payment_method": "Check",
      "receipt_date": "2014-12-12",
      "receipt_added_date": "2014-12-12",
      "receipt_updated_date": "2014-12-12",
      "reference_number": "This is field for reference number",
      "check_number": "This is field for check / reference number",
      "description": "This is field for description",
      "is_patient_payment": "true",
      "is_recurring_receipt": "false",
      "is_voided": "false",
      "total_applied_payment_amount": "120.0",
      "total_refund_amount": "20.0",
      "unused_amount": "10.0",
      "patient_details": {
        "patient_id": "10000000000002027",
        "patient_record_id": "cha0001",
        "patient_gender": "male",
        "patient_first_name": "Anand Kumar",
        "patient_dob": "1988-07-02",
        "patient_middle_name": "",
        "patient_full_name": "Anand Kumar Arulmurugan",
        "patient_last_name": "Arulmurugan"
      }
    }
  ]
}
```

```
"facility_details": {
    "facility_id": "1000000000000000179",
    "facility_name": "charmadmin",
    "facility_code": "charm"
},
"void_details": {
    "voided_by": "Dr. Steven \" D'Antonio",
    "void_comments": "comments of voiding"
},
"invoices_paid": [
    {
        "payment_id": "10000000000000116723",
        "payment_amount": "100.0",
        "payment_to": "Invoice",
        "payment_added_date": "2014-12-12",
        "payment_updated_date": "2014-12-12",
        "invoice_number": "INV6",
        "invoice_date": "2014-12-12",
        "invoice_id": "100000000000011001",
        "invoice_amount": "254.88",
        "invoice_status": "Paid",
        "is_deleted": "false",
        "reference_payment_id": ""
    },
    {
        "payment_id": "1000000000000011874",
        "payment_amount": "20.0",
        "payment_to": "Invoice",
        "payment_added_date": "2014-12-12",
        "payment_updated_date": "2014-12-12",
        "invoice_number": "INV2",
        "invoice_date": "2014-12-09",
        "invoice_id": "100000000000003465",
```

```

        "invoice_amount": "251.0",
        "invoice_status": "Partially Paid",
        "is_deleted": "false",
        "reference_payment_id": ""
    },
    "refunds": [
        {
            "refund_id": "100000000000013009",
            "refund_amount": "20.0",
            "refund_method": "Cash",
            "refund_date": "2014-12-12",
            "refund_added_date": "2014-12-12",
            "refund_updated_date": "2014-12-12",
            "refunded_by": "Dr. Steven \" D'Antonio",
            "refund_reference_number": "reference number",
            "refund_comments": " This is field for comments"
        }
    ]
},
{...2nd receipt...},
...
{...nth receipt...}
]
}

```


7. API to fetch details of write-offs done in a given date period

Request

URL :

https://ehr.charmtracker.com/api/ehr/v1/writeoffs?facility_id=<facility_value>&date_name=<date_value>

[&from_date=<from_value>&to_date=<to_value>&start_index=<start_value>](#)

Method : GET

Scope : *charmhealth.patient.invoice.READ*

Parameter Details

Parameter Name	Parameter Value	Example	Description
facility_id	Number with maximum length of 19.	If facility_id is not given, Write-offs are fetched across facilities	It is a non-mandatory parameter.
date_name	writeoff_date (or) writeoff_added_date (or) writeoff_updated_date	Write-offs are fetched based on this date	It is a non-mandatory parameter. Default value is writeoff_date
from_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
to_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
start_index	Number	Write-offs are fetched from this index	It is a non-mandatory parameter. Default is 1

Parameter Value	Description
writeoff_date	Refers the date chosen by the user for Write-off i.e 'Write-Off Date'
writeoff_added_date	Refers the date on which Write-off is actually given to Invoice i.e 'Write-Off Added Date'
writeoff_updated_date	Refers the date on which Write-off is updated recently in the System i.e 'Write-off Updated Date'

Details

- This API will fetch the list of write-offs based on specified values for parameters
- This API will return a maximum of 100 Write-offs in single call. This API should be called in loop with respective value for the parameter **start_index** to get all Write-offs for particular date period. And loop should terminate when Write-offs count is less than 100
- For 1st API call, value for the parameter **start_index** should be 1. For 2nd API call, it should be 101 and so on

Sample Response

```
{
  "code": 0,
  "message": "success",
  "writeoffs": [
    {
      "writeoff_id": "100000000000011035",
      "writeoff_amount": "12.0",
      "writeoff_date": "2014-12-12",
      "writeoff_added_date": "2014-12-12",
      "writeoff_updated_date": "2014-12-12",
      "writeoff_type": "Contractual",
      "writeoff_comments": "comments",
      "is_patient_writeoff": "true" ,
      "writeoff_applied_to": "Invoice",
      "invoice_details":{
        "invoice_number": "INV6",
        "invoice_date": "2014-12-12",
        "invoice_id": "100000000000011001",
        "invoice_amount": "254.88",
        "invoice_status": "Paid",
```

```
    "patient_id": "1000000000000002027",
    "patient_record_id": "cha0001",
    "facility_id": "1000000000000000179",
    "item_writeoffs": [
      {
        "item_id": "10000000000000011007",
        "item_writeoff_amount": "20.00",
        "item_writeoff_type": "Contractual"
      }
    ]
  },
  {...}
]
}
```

8. API to refund amount from a Receipt

Request

URL : https://ehr.charmtracker.com/api/ehr/v1/receipts/<receipt_id>/refunds

Method : POST

Sample JSON Input Spec

```
{
  "refund_amount": "50.00",
  "refund_date": "2020-05-30",
  "refund_method": "Cash",
  "refund_to": "Patient | Insurance"
  "refund_reference_number": "test reference number",
  "refund_comments": "test comments",
  "member_id": "1000000000000873672"
}
```

9. API to update refund details of a Receipt

Request

URL : https://ehr.charmtracker.com/api/ehr/v1/receipts/<receipt_id>/refunds/<refund_id>

Method : PUT

Sample JSON Input Spec

```
{
  "refund_amount": "50.00",
  "refund_date": "2020-05-30",
  "refund_method": "Cash",
  "refund_to": "Patient | Insurance"
  "refund_reference_number": "test reference number",
  "refund_comments": "test comments",
  "member_id": "1000000000000873672"
}
```

10. API to fetch details of refunds issued in a given date period

Request

URL :

https://ehr.charmtracker.com/api/ehr/v1/refunds?facility_id=<facility_value>&date_name=<date_value>

[&from_date=<from_value>&to_date=<to_value>&start_index=<start_value>](#)

Method : GET

Scope : *charmhealth.patient.receipt.READ*

Parameter Details

Parameter Name	Parameter Value	Example	Description
facility_id	Number with maximum length of 19.	If facility_id is not given, Refunds are fetched across facilities	It is a non-mandatory parameter
date_name	refund_date (or) refund_added_date (or) refund_updated_date	Refunds are fetched based on this date	It is a non-mandatory parameter. Default value is refund_date
from_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
to_date	yyyy-mm-dd (or) yyyy-mm-dd hh:mm:ss	2015-01-10 2015-01-10 20:30:40	It is a mandatory parameter
start_index	Number	Refunds are fetched from this index	It is a non-mandatory parameter. Default is 1

Parameter Value	Description
refund_date	Refers the date chosen by the user for Refund i.e 'Refund Date'
refund_added_date	Refers the date on which Refund is actually issued from the Receipt i.e 'Refund Added Date'
refund_updated_date	Refers the date on which Refund is updated recently in the System

	i.e Refund Updated Date'
--	--------------------------

Details

- This API will fetch the list of refunds based on specified values for the parameters
- This API will return a maximum of 100 Refunds in single call. This API should be called in loop with respective value for the parameter **start_index** to get all Refunds for the given criteria. And loop should terminate when Refunds count is less than 100
- For 1st API call, value for the parameter **start_index** should be 1. For 2nd API call, it should be 101 and so on.

Sample Response

```
{
  "code": 0,
  "message": "success",
  "refunds": [
    {
      "refund_id": "100000000000013009",
      "refund_amount": "20.0",
      "refund_method": "Cash",
      "refund_date": "2014-12-12",
      "refund_added_date": "2014-12-12",
      "refund_updated_date": "2014-12-12",
      "refunded_by": "Dr. Steven \" D'Antonio",
      "refund_reference_number": "This is field for reference number",
      "refund_comments": " This is field for comments",
      "receipt_details": {
        "receipt_id": "10000000000011065",
        "receipt_number": "16",
        "receipt_amount": "150.0",
```

```
    "payment_method": "Check",
    "receipt_date": "2014-12-12",
    "reference_number": "reference number",
    "check_number": "check reference number",
    "description": "This is field for description",
    "is_patient_payment": "true",
    "patient_id": "100000000000002027",
    "patient_record_id": "cha0001",
    "patient_full_name": "Anand Kumar Arulmurugan",
    "facility_id": "100000000000000179"
  },
  {...}
]
```

