NRDR CTC Data Exchange

Version 1.1
NRDR CTC Exam Data Exchange

1. Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/04/2018</td>
<td>1.0</td>
<td>Baseline</td>
</tr>
<tr>
<td>09/10/2019</td>
<td>1.1</td>
<td>Error message updated for error code C3045</td>
</tr>
<tr>
<td>09/25/2019</td>
<td>1.1</td>
<td>Error message updated for error code: C3131, C3132</td>
</tr>
<tr>
<td>11/13/2019</td>
<td>1.1</td>
<td>Added error code C3166</td>
</tr>
</tbody>
</table>

2. Background

This document describes the data model, data elements, data exchange architecture between the partner and the ACR NRDR, and the JSON schema for the CTC exam data.

3. Architecture

This document describes the CTC Exam data elements, JSON schema, NRDR CTC APIs and error messages. It also demonstrates how to use the authorization token when consuming the CTC APIs.

The diagram below depicts the events take place in the ACR Connect during the authentication and authorization processes. Please refer to the *ACR Connect Authentication Service.pdf* for a detailed description of ACR Connect.
The CTC APIs are a set of REST web services. They return an acknowledgement to the caller when submission is received. It is the responsibility of the caller to capture this acknowledgement to ensure the submission has reached the ACR Connect successfully.

The frequency of the data submission is defined by the partner, however, the ACR prefers the submission to happen more frequent so that the facility/physician will have a faster turnaround time for review and be able to resubmit data before the CMS submission deadline if needed.

Partners shall be able to query the status of the submitted transactions by using the ‘Retrieve CTC Exam Previous Submission’ API.
4. Data Model

The CTC data to be submitted to the ACR NRDR shall be “wrapped” in a transaction. Each transaction has one or more Exams.

This approach provides the flexibility of submitting multiple exams for a facility within a single transaction. Note: each transaction shall contain exams for one facility.

5. JSON Schema

As the data required by CTC for an exam may be coming from different systems within a facility, the CTC web service will accept transactions with incomplete data and merge them into a single exam record when the rest of the required data elements arrive in subsequent transactions.

The key identifiers of an exam record are:

- facility_ID
- exam_date
- patient ID(s).

If exam with the same key exists, the system shall update existing exam.

In order to define, if the patient of the uploaded exam is in the list of patients of the facility in the NRDR, the system searches for existing patient by any of the following IDs:

- SSN,
- Medicare Beneficiary ID,
- New Medicare Beneficiary ID,
- Other ID (patient’s MRN can be used as the Other ID).

However, the different systems which will provide exam data to CTC must all agree on all common patient IDs (SSN, Old Medicare Beneficiary ID, New Medicare Beneficiary ID, Other ID (patient’s MRN can be used as the Other ID)), that will be used in the transactions. Otherwise, we will not be able to merge them into a single exam record automatically.

To successfully submit a transaction, you must provide the following minimum required data elements:

- Transaction_ID,
- Transaction_DateTime,
- Num_of_Exam_Included,
- Facility_ID,
- PartnerID,
- AppID,
- Date_of_Examination,
- Either Patient_SSN or Patient_ID or Medicare Beneficiary ID or New Medicare Beneficiary ID.

For each examination property in a transaction the API will base on its composite key (facility_id, date_of_examination, patient) to determine if it should create a new examination record or update
an existing record in the CTC database. If the composite key is found in the CTC database the API will update the existing record; otherwise, it will create a new examination record.

When updating existing case, System shall not overwrite existing values with NULL values from the newly uploaded data file, if ‘Update Method’ field of the record declares that fields must not be updated by NULL. The parameter ‘Update Method’ is ignored for patient’s fields and conditionally not applicable fields. Patient's data is not updated by null. Value of conditionally not applicable field is set to NULL if the one is not applicable based on values of another fields regardless of value of update method.

Each CTC exam can have up to five polyps.

The “CTC_Exam_Transaction” schema describes the data elements in a transaction:

```json
{
    "name": "CTC_Exam_Transaction",
    "Properties": {
        "Transaction_ID": {
            "type": "string",
            "required": true
        },
        "Transaction_DateTime": {
            "type": "string",
            "required": true
        },
        "Num_of_Exam_Included": {
            "type": "number",
            "required": true
        },
        "Facility_ID": {
            "type": "string",
            "required": true
        },
        "PartnerID": {
            "type": "string",
            "required": true
        },
        "AppID": {
            "type": "string",
            "required": true
        },
        "Previous_Transaction_ID": {
            "type": "string",
            "required": false
        },
        "Exam": {
            "type": "array",
            "required": true,
            "properties": {
                "Update_Method": {
                    "type": "string",
                    "required": false
                },
                "Patient_SSN": {
                    "type": "string",
                }
            }
        }
    }
}
```
  'required": false
  },

  "Other_ID": {  
    "type": "string",
    "required": false
  },

  "Description": {  
    "type": "string",
    "required": false
  },

  "Patient.Middle_Name": {  
    "type": "string",
    "required": false
  },

  "Patient.Last_Name": {  
    "type": "string",
    "required": true
  },

  "Medicare_Beneficiary_ID": {  
    "type": "string",
    "required": false
  },

  "New_Medicare_Beneficiary_ID": {  
    "type": "string",
    "required": false
  },

  "Date_of_Birth": {  
    "type": "string",
    "required": true
  },

  "Patient.Sex": {  
    "type": "string",
    "required": true
  },

  "Race": {  
    "type": "string",
    "required": false
  },

  "Hispanic_Origin": {  
    "type": "string",
    "required": false
  },
"Date_of_Exam": {  
  "type": "string",  
  "required": true
},

"Type_of_Study": {  
  "type": "string",  
  "required": true
},

"Meet_ACR_Guidelines": {  
  "type": "string",  
  "required": true
},

"Referred_Colonoscopy": {  
  "type": "string",  
  "required": false
},

"Interpreting_Philisician_NPI": {  
  "type": "string",  
  "required": true
},

"Patient_Width": {  
  "type": "string",  
  "required": false
},

"Scanner_Name": {  
  "type": "string",  
  "required": false 
},

"Scanner_Manufacturer": {  
  "type": "string",  
  "required": false 
},

"Scanner_Manufacturer_Specify": {  
  "type": "string",  
  "required": false 
},

"Detector_Rows": {  
  "type": "string",  
  "required": false 
}
"Detector_Row_Size": {
  "type": "string",
  "required": false
},

"CTDI_vol": {
  "type": "string",
  "required": false
},

"Slice_Thickness": {
  "type": "string",
  "required": false
},

"Interval": {
  "type": "string",
  "required": false
},

"IV_Contrast": {
  "type": "string",
  "required": false
},

"Supine_Image_Acquisition": {
  "type": "string",
  "required": false
},

"Prone_Image_Acquisition": {
  "type": "string",
  "required": false
},

"Decubitus_Image_Acquisition": {
  "type": "string",
  "required": false
},

"Polyp_10MM": {
  "type": "string",
  "required": true
},

"Entire_Colon_and_Rectum": {
  "type": "string",
  "required": true
},
"Is_Non_Diagnostic_Segment": {
    "type": "string",
    "required": true
},

"Is_Non_Diagnostic_Segment_Excess_Fluid": {
    "type": "string",
    "required": false
},

"Is_Non_Diagnostic_Segment_Fecal_Matter": {
    "type": "string",
    "required": false
},

"Is_Non_Diagnostic_Segment_Segmental_Collapse": {
    "type": "string",
    "required": false
},

"Is_Non_Diagnostic_Segment_Other": {
    "type": "string",
    "required": true
},

"Is_Non_Diagnostic_Segment_Other_Specify": {
    "type": "string",
    "required": false
},

"Colonic_Perforation": {
    "type": "string",
    "required": true
},

"Colonic_Perforation_Etiology": {
    "type": "string",
    "required": false
},

"Colonic_Perforation_Etiology_Other_Specify": {
    "type": "string",
    "required": false
},

"Location_of_Perforation": {
    "type": "string",
    "required": false
},
"Symptomatic_from_Perforation": {
    "type": "string",
    "required": false
},

"Clinically_Significant_Extracolonic_Findings": {
    "type": "string",
    "required": true
},

"C_Score": {
    "type": "string",
    "required": false
},

"Patient_Lost_to_Follow_up": {
    "type": "string",
    "required": false
},

"Date_of_Reference_Exam_or_Confirming_Surgery": {
    "type": "string",
    "required": false
},

"Polyp_Size_1": {
    "type": "string",
    "required": false
},

"Location_1": {
    "type": "string",
    "required": false
},

"Morphology_1": {
    "type": "string",
    "required": false
},

"Colonoscopy_Reach_Level_of_Lesion_1": {
    "type": "string",
    "required": false
},

"Polyp_Confirmed_1": {
    "type": "string",
    "required": false
},

"Polyp_Size_2": {
    "type": "string",
    "required": false
}
"type": "string",
"required": false
},

"Location_2": {
  "type": "string",
  "required": false
},

"Morphology_2": {
  "type": "string",
  "required": false
},

"Colonoscopy_Reach_Level_of_Lesion_2": {
  "type": "string",
  "required": false
},

"Polyp_Confirmed_2": {
  "type": "string",
  "required": false
},

"Polyp_Size_3": {
  "type": "string",
  "required": false
},

"Location_3": {
  "type": "string",
  "required": false
},

"Morphology_3": {
  "type": "string",
  "required": false
},

"Colonoscopy_Reach_Level_of_Lesion_3": {
  "type": "string",
  "required": false
},

"Polyp_Confirmed_3": {
  "type": "string",
  "required": false
},

"Polyp_Size_4": {
  "type": "string",
  "required": false
},
"Location_4": {
    "type": "string",
    "required": false
},

"Morphology_4": {
    "type": "string",
    "required": false
},

"Colonoscopy_Reach_Level_of_Lesion_4": {
    "type": "string",
    "required": false
},

"Polyp_Confirmed_4": {
    "type": "string",
    "required": false
},

"Polyp_Size_5": {
    "type": "string",
    "required": false
},

"Location_5": {
    "type": "string",
    "required": false
},

"Morphology_5": {
    "type": "string",
    "required": false
},

"Colonoscopy_Reach_Level_of_Lesion_5": {
    "type": "string",
    "required": false
},

"Polyp_Confirmed_5": {
    "type": "string",
    "required": false
},

}
6. API

Authentication

To be able to call API you must add JWT token received from ACR Connect to the “Authorization” request header using the following format:

   Bearer <jwt-token>

Responses with a status code 401 indicate errors related to the authentication. Following error codes are used to provide more detailed error:

- `invalid_token`, token is invalid or expired
- `missing_token`, token is not provided in the request header

Create or resubmit transaction

POST

This request is used to upload a new set of CTC exams data. It allows to resubmit transaction if data contains ID of the already submitted transaction. Otherwise, it creates a new transaction.

Acceptable request representations:

- application/json

Possible responses:

- 200, returned when transaction data is uploaded and transaction is created successfully,
- 400, content-type: application/json
  - error_code = 'data_error'
    Transaction data is missing or doesn't have valid JSON representation
- 403, content-type: application/json
  - error_code = 'no_permission'
    Authenticated user doesn’t have permissions to upload transaction data for a given facility

Get transaction status

GET
This request is used to get a transaction JSON object for a single transaction.

Possible responses:

- 200, content-type: application/json
  Response will contain JSON data according to CTC_Exam_Transaction_Status schema

- 400, content-type: application/json
  - error_code = ‘missing_param’
    Indicates that missing transaction ID query string parameter

- 404, content-type: application/json
  - error_code = ‘invalid_param’
    Indicates that transaction with a given ID doesn’t exist

7. Test environment settings

URL: https://nrdr9x.acr.org/NonPQRSapi/CTC/transactions
AppID:
Facility_ID and PartnerID will be provided by the ACR IT team

Examples

Creating transaction

Sample parameters:

```plaintext
Facility_ID: "100000"
PartnerID: "10000"
AppID: "10007"
Authorization: "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJ..."
```

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**Note**: the authentication/authorization mechanism in the CTC Exam API adopts the ACR Connect security model which requires an authorization token after authenticated successfully. The token in the sample parameters above is an example.

```javascript
function createTransaction(transactionData, token) {
    $.ajax({
        type: 'POST',
        url: "https://nrdr9x.acr.org/NonPQRSapi/CTC/transactions",
        data: JSON.stringify(transactionData),
        dataType: "json",
        contentType: "application/json; charset=utf-8",
        headers: { "Authorization": "Bearer " + token },

        success: function (data) {
            // handle data load success
            
        },
    });
}
```

This function can be used in the following way:

```javascript
var transactionJsonData = {
    Transaction_ID: "26",
    Transaction_DateTime: "01/01/2014",
    Num_of_Exam_Included: 1,
    Facility_ID: "100000",
    PartnerID: "30004",
    AppID: "10005",
    Previous_Transaction_ID: null,
    Exam: [
        {
            "Update_Method": "0",
            "Patient_SSN": "555-66-7777",
            "Patient_First_Name": "Jane",
            "Patient_Last_Name": "Smith",
            "Medicare_Beneficiary_ID": "897645667",
            "Date_of_Birth": "09/09/1977",
            "Patient_Sex": "2",
            "Race": "9",
            "Hispanic_Origin": "0",
            "Date_of_Exam": "12/12/2017",
            "Type_of_Study": "1",
            "Meet_ACR_Guidelines": "1",
            "Interpreting_Physician_NPI": "7899998767",
            "Polyp_10MM": "1",
            "Entire_Colon_and_Rectum": "0",
        }
    ]
};
```
“Is_Non_Diagnostic_Segment”: "1",
“Is_Non_Diagnostic_Segment_Fecal_Matter”: "1",
“Colonic_Perforation”: "1",
“Colonic_Perforation_Etiology”: "4",
“Location_of_Perforation”: "2",
“Symptomatic_from_Perforation”: "1",
“Clinically_Significant_Extracolonic_Findings”: "0",
“C_Score”: "C0",
“Reference_Exam_Date”: "12/17/2017",
“Polyp_Size_1”: "15.4",
“Location_1”: "1",
“Morphology_1”: "1",
“Colonoscopy_Reach_Level_of_Lesion_1”: "1",
“Polyp_Confirmed_1”: "1",
“Polyp_Size_2”: "18.9",
“Location_2”: "1",
“Morphology_2”: "1",
“Colonoscopy_Reach_Level_of_Lesion_2”: "1",
“Polyp_Confirmed_2”: "1"

}
}

Getting transaction status

For UAT use the following values:

https://nrdr9x.acr.org/NonPQRSapi/CTC/transactions?id=<transaction id>
&facilityid=<facility id>&partnerid=<partner id>&appid=<app id>

Sample parameters:

FacilityID: "100000"
PartnerID: "10000"
AppID:

Note: the authentication/authorization mechanism in the CTC Exam API adopts the ACR Connect security model which requires an authorization token after authenticated successfully.

function getTransaction(transactionId, token, partnerId, appld, facilityId) {
  $.ajax({
    type: ‘GET’,
    url: “https://nrdr9x.acr.org/NonPQRSapi/CTC/transactions”,
    data: { "id": transactionId, "appid": appld, "partnerid":
    partnerId,"facilityid": facilityId },
  })
headers: { "Authorization": "Bearer " + token },
success: function (data) {
    // handle JSON with transaction data
}
}};
}
8. Validation & Error Messages

The Validator will validate the following:

1. JSON syntax
2. Required fields
3. Response value of the data elements based on the business rules.

The table below lists the possible messages generated by the validator during the validation process for a transaction:
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0000</td>
<td>Transaction is loaded successfully</td>
</tr>
<tr>
<td>C0001</td>
<td>Transaction has been received and is pending for validation</td>
</tr>
<tr>
<td>C0002</td>
<td>Validation has been completed, pending for loading to database</td>
</tr>
<tr>
<td>C0003</td>
<td>Transaction was partially loaded. Some elements did not pass validation and were rejected.</td>
</tr>
<tr>
<td>C0004</td>
<td>The entire transaction was rejected due to failure in validation</td>
</tr>
<tr>
<td>C0005</td>
<td>This transaction has been replaced with another transaction</td>
</tr>
<tr>
<td>C1003</td>
<td>Unable to import data submitted. Data does not match schema</td>
</tr>
<tr>
<td>C1004</td>
<td>Unable to import data submitted. Data is empty or null</td>
</tr>
<tr>
<td>C1005</td>
<td>Error importing data &lt;exception message&gt;</td>
</tr>
<tr>
<td>C1010</td>
<td>User account is not authorized to submit data to CTC</td>
</tr>
<tr>
<td>C1012</td>
<td>Partner &lt;Partner ID&gt; is not authorized to submit data for facility &lt;facility ID&gt; and/or application &lt;application&gt;</td>
</tr>
<tr>
<td>C2001</td>
<td>Missing Transaction_ID</td>
</tr>
<tr>
<td>C2002</td>
<td>Invalid Transaction_ID. Maximum length is 50 characters</td>
</tr>
<tr>
<td>C2011</td>
<td>Missing Transaction_DateTime</td>
</tr>
<tr>
<td>C2012</td>
<td>Transaction_DateTime is not a valid date time format</td>
</tr>
<tr>
<td>C2013</td>
<td>Transaction_DateTime is a future date</td>
</tr>
<tr>
<td>C2014</td>
<td>Transaction_ID must be unique. &lt;transaction_id&gt; has been submitted in a previous transaction</td>
</tr>
<tr>
<td>C2021</td>
<td>Missing Num_of_Exam_Included</td>
</tr>
<tr>
<td>C2022</td>
<td>Num_of_Exam_Included is not an integer</td>
</tr>
<tr>
<td>C2031</td>
<td>Missing PartnerID</td>
</tr>
<tr>
<td>C2032</td>
<td>Invalid PartnerID</td>
</tr>
<tr>
<td>C2041</td>
<td>Missing AppID</td>
</tr>
<tr>
<td>C2042</td>
<td>Invalid AppID</td>
</tr>
<tr>
<td>C2051</td>
<td>Missing Facility_ID</td>
</tr>
<tr>
<td>C2052</td>
<td>Invalid Facility_ID</td>
</tr>
<tr>
<td>C2053</td>
<td>Facility has not registered for LCSR. Submission aborted</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>C2054</td>
<td>FacilityNotAccepted</td>
</tr>
<tr>
<td>C2057</td>
<td>FacilityNotAccessible</td>
</tr>
<tr>
<td>C2062</td>
<td>PreviousTransactionIdInvalid</td>
</tr>
<tr>
<td>C2071</td>
<td>ExamsMissing</td>
</tr>
<tr>
<td>C2072</td>
<td>ExamsIncludedNumberIncorrect</td>
</tr>
<tr>
<td>C2081</td>
<td>ExamsPartiallyRejected</td>
</tr>
<tr>
<td>C2091</td>
<td>HasUnknownFieldsInvalid</td>
</tr>
<tr>
<td>C2092</td>
<td>HasForbiddenSymbolInFieldsInvalid</td>
</tr>
<tr>
<td>C2101</td>
<td>MissingCTCFileVersionNumber</td>
</tr>
<tr>
<td>C2102</td>
<td>InvalidCTCFileVersionNumber</td>
</tr>
<tr>
<td>C3001</td>
<td>FieldMissing</td>
</tr>
<tr>
<td>C3002</td>
<td>FieldNotApplicableInvalid</td>
</tr>
<tr>
<td>C3003</td>
<td>FieldsCountInvalid</td>
</tr>
<tr>
<td>C3007</td>
<td>FieldFormatInvalid</td>
</tr>
<tr>
<td>C3008</td>
<td>RegistrationFieldRequiredForSubmit</td>
</tr>
<tr>
<td>C3009</td>
<td>NumberOutOfRangeInvalid</td>
</tr>
<tr>
<td>C3010</td>
<td>UniqueWithinArrayInvalid</td>
</tr>
<tr>
<td>C3011</td>
<td>MaximumArrayLengthInvalid</td>
</tr>
<tr>
<td>C3012</td>
<td>ExamFieldRequiredForSubmit</td>
</tr>
<tr>
<td>C3015</td>
<td>PolypFieldRequiredForSubmit</td>
</tr>
<tr>
<td>C3031</td>
<td>VersionNumberInvalid</td>
</tr>
<tr>
<td>C3032</td>
<td>VersionNumberNotSupported</td>
</tr>
<tr>
<td>C3042</td>
<td>RadiologistNPIInvalid</td>
</tr>
<tr>
<td>C3045</td>
<td>RadiologistNotExists</td>
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<td>Code</td>
<td>Description</td>
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<td>--------------------------------------------------</td>
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<tr>
<td>C3062</td>
<td>DateInvalidFormat</td>
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<td>C3110</td>
<td>CharacterLengthInvalid</td>
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<td>C3111</td>
<td>NumericFieldInvalid</td>
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<td>DecimalInvalid</td>
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<td>NumDigitsAfterDecimal PointInvalid</td>
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<td>SelectionFieldInvalid</td>
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<td>C3129</td>
<td>DatesInFebruaryInvalid</td>
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<td>C3130</td>
<td>MonthDatesInvalid</td>
</tr>
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