NRDR

GRID Data Exchange Specification

Version 1.4

February 13, 2020
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# NRDR GRID Exam Data Exchange

## Revision History

<table>
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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>9/28/2014</td>
<td>Draft</td>
</tr>
<tr>
<td>12/4/2014</td>
<td>Added list of web service’s methods with description. Added samples of the web service usage.</td>
</tr>
<tr>
<td>1/20/2015</td>
<td>Added UAT environment information.</td>
</tr>
<tr>
<td>1/23/2015</td>
<td>Updated the NON PQRS data element reference spreadsheet to Non-PQRS-GRID-Data-Elements-20150112.xlsx</td>
</tr>
<tr>
<td>1/29/2015</td>
<td>Updated API section with the refresh token information</td>
</tr>
<tr>
<td>4/26/2015</td>
<td>Included ACR Connect flow and edits</td>
</tr>
<tr>
<td>11/22/2015</td>
<td>Corrected the name of the following parameters of the GET method:</td>
</tr>
<tr>
<td></td>
<td>Updated transaction_id to id</td>
</tr>
<tr>
<td></td>
<td>Updated facility_id to facilityid</td>
</tr>
<tr>
<td>10/11/2018</td>
<td>Added error codes G1012, G2057, G2091, G2092, G3003, G3042, G3014, G3110, G3111, G3112, G3113, G3114, G3115, G3116, G3117, G3118, G3119, G3120, G3121, G3122, G3123, G3124.</td>
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<tr>
<td></td>
<td>The following error codes are obsolete: G3082, G3072, G3061, G3032, G3092, and G3094.</td>
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<tr>
<td>02/19/2019</td>
<td>Added error codes G3032, G3033, G3045, G3072.</td>
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<tr>
<td>04/17/2019</td>
<td>Added new data elements to JSON schema: Multiple_Readers, Place_of_Service. New error codes added: G3095, G3096.</td>
</tr>
<tr>
<td>09/17/2019</td>
<td>Error message updated for error code G3045</td>
</tr>
<tr>
<td>10/09/2019</td>
<td>New error codes added: G3211, G3212, G3221, G3222.</td>
</tr>
</tbody>
</table>
2 GRID Data Elements

2.1 GRID Exam Data Submission

The NRDR provides a set of APIs which allow authorized partners to submit GRID exam data for their affiliated facilities. Partner is authenticated via the ACR Connect Authentication Service. Once authenticated ACR Connect will provide access token to partner to submit GRID Exam data and query submission status using the NRDR GRID APIs.

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

The diagram below depicts the events take place during the authentication and authorization processes.
The GRID APIs are a set of REST web services. They return an acknowledgement to the partner when submission is received. It is the responsibility of the partner 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.
2.2 Data Model

The GRID Exam data to be submitted to the ACR NRDR shall be “wrapped” in a transaction. Each transaction has one or more Exams. Each transaction shall contain exam data for one facility.

```
GRID_ Exam_ Transaction
Transaction_id
Transaction_DateTime
Num_of_ Exam_ Included
Facility_ID
PartnerID
AppID
Previous_ Transaction_ID
GRID_ File_ Version_ Num

Exam
Exam_ Unique_ ID
Physician_ NPI
Physician_ Local_ ID
Multiple_ Readers
Patient_ Age
Patient_ Gender
Study_ Name
CPT_ HCPCS_ Code
ICD_ 10_ Procedure_ Code
Modality_ Procedure
Place_ of_ Service
Breast_ Ultrasound
Date_ Exam_ Completed
Time_ Exam_ Completed
Date_ Final_ Report_ Signed
Time_ Final_ Report_ Signed
Extravasation_ Occurred
Height
Weight
BMI
Body_ Region
Anatomy
Clinical_ Focus
Use_ of_ Contrast
FDG_ PET_ Measurements_ Documented
Final_ Report_ Findings
Incidential_ Findings
Medical_ History
Modality_ Modifier
Nuclear_ Agent
Number_ of_ Years_ since_ Quit
Number_ Pack_ Years
PE_ Documentation
Procedure_ History
Procedure_ Modifier
Smoking_ Status
Structured_ Scoring_ System_ Method
Followup_ Imaging_ Recommendations
Followup_ Procedure_ Recommendations

Incidental_ Mass
Incidental_ Mass_ Type
Incidental_ Mass_ Size
Incidental_ Mass_ Impression

Recommended_ Followup_ Imaging
Recommended_ Imaging_ Modality
Recommended_ Imaging_ Time
Recommended_ Source_ Documented

Recommended_ Followup_ Procedure
Recommended_ Procedure_ Type
Recommended_ Procedure_ Anatomy
Recommended_ Procedure_ Time
Recommended_ Source_ Documented

Where K>=1, L=5, M=5, N=3.
```
Note: if existing exam is updated then all sub-entities (i.e., Incidental Mass, Recommended Follow-up Imaging, Recommended Follow-up Procedure) data must be included in the uploaded record. Arrays of the data are totally replaced by the new arrays of the data.

The following composite key shall be used to identify the GRID exam record:

- Facility ID
- Exam Unique ID
- CPT HCPCS Code

3 JSON Schema for GRID Exam

3.1 GRID_Exam_Transaction 1.x schema

The “GRID_Exam_Transaction” schema describes the data elements in a transaction. You will use POST request to submit GRID exam data. Transaction_ID must be unique within your entity.

GRID_Exam_Transaction schema:

```json
{
    "name": "GRID_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": {
    "Exam_Unique_ID": {
      "type": "string",
      "required": true
    },
    "Physician_NPI": {
      "type": "string",
      "required": true
    },
    "Physician_Local_ID": {
      "type": "string",
      "required": false
    },
    "Multiple_Readers": {
      "type": "number",
      "required": true
    },
    "Patient_Age": {
      "type": "number",
      "required": true
    },
    "Patient_Gender": {
      "type": "string",
      "required": true
    },
    "Study_Name": {
      "type": "string",
      "required": false
    },
    "CPT_HCPCS_Code": {
      "type": "string",
      "required": false
    },
    "ICD_10_Procedure_Code": {
      "type": "string",
      "required": false
    },
    "Modality_Procedure": {
      "type": "number",
      "required": false
    },
    "Place_of_Service": {
      "type": "number",
      "required": false
    }
  }
}
GRID_Exam_Transaction 2.0 schema:
{
    "name": "GRID_Exam_Transaction",
    "Properties": {
        "Transaction_ID": {
            "type": "string",
            "required": true
        },
        "Transaction_DateTime": {
            "type": "string",
            "required": false
        }
    }
}


"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
},
"GRID_File_Version_Num": {
 "type": "string",
 "required": false
},
"Exam": {
 "type": "array",
 "required": true,
 "properties": {
 "Exam_Unique_ID": {
 "type": "string",
 "required": true
 },
 "Physician_NPI": {
 "type": "string",
 "required": true
 },
 "Physician_Local_ID": {
 "type": "string",
 "required": false
 },
 "Multiple_Readers": {
 "type": "number",
 "required": true
 },
 "Patient_Age": {
 "type": "number",
 "required": true
 }
"Patient_Gender": {
    "type": "string",
    "required": true
},
"Study_Name": {
    "type": "string",
    "required": false
},
"CPT_HCPCS_Code": {
    "type": "string",
    "required": false
},
"ICD_10_Procedure_Code": {
    "type": "string",
    "required": false
},
"Modality_Procedure": {
    "type": "number",
    "required": false
},
"Place_of_Service": {
    "type": "number",
    "required": true
},
"Breast_Ultrasound": {
    "type": "string",
    "required": false
},
"Date_Exam_Completed": {
    "type": "string",
    "required": true
},
"Time_Exam_Completed": {
    "type": "string",
    "required": true
},
"Date_Final_Report_Signed": {
    "type": "string",
    "required": true
},
"Time_Final_Report_Signed": {
    "type": "string",
    "required": true
},
"Extravasation_Occurred": {
    "type": "string",
    "required": false
}
},
  "Height": {
    "type": "string",
    "required": false
  },
  "Weight": {
    "type": "string",
    "required": false
  },
  "BMI": {
    "type": "string",
    "required": false
  },
  "Medical_History": {
    "type": "string",
    "required": false
  },
  "Procedure_History": {
    "type": "string",
    "required": false
  },
  "Smoking_Status": {
    "type": "string",
    "required": false
  },
  "Number_of_Years_Since_Quit": {
    "type": "string",
    "required": false
  },
  "Number_Pack_Years": {
    "type": "string",
    "required": false
  },
  "Body_Region": {
    "type": "string",
    "required": false
  },
  "Anatomy": {
    "type": "string",
    "required": false
  },
  "Clinical_Focus": {
    "type": "string",
    "required": false
  },
  "Use_of_Contrast": {
    "type": "string",
    "required": false
  }
}
{ }

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

"Recommended_Followup_Biopsy": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Biopsy_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Biopsy_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Biopsy_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Other": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Other_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Other_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Other_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Medication": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Medication_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Medication_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Medication_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Radiation": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Radiation_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Radiation_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Radiation_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Surgery": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Surgery_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Surgery_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Surgery_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Treatment": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Treatment_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Treatment_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Treatment_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
},

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

"Recommended_Followup_Vaccination": {  
  "type": "array",  
  "required": false,  
  "properties": {
    "Recommended_Vaccination_Type": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Vaccination_Anatomy": {  
      "type": "string",  
      "required": false
    },
    "Recommended_Vaccination_Time": {  
      "type": "string",  
      "required": false
    },
    "Recommendation_Source_Documented": {  
      "type": "string",  
      "required": false
    }
  }
}
The “GRID_Exam_Transaction_Status” schema describes the data elements in the validation statuses of a transaction and the exams associated with it. You will use the GET request to query the error encountered during the submission process.

**Note:** the value of the `GRID_Exam_Transaction_Status.Error_Msg` attribute consists of multiple error messages that occurred while validating a transaction. Each message contains the error code-message pair. Messages are separated by the ‘|’ delimiter.

For example:
G1000:Missing Transaction_ID|G1011:Missing Transaction_DateTime

The value of the `GRID_Exam_Transaction_Status.Exam_Error.Error_Msg` attribute consists of multiple error messages that occurred while validating an exam. Each message contains the error code-message pair. Messages are separated by the ‘|’ delimiter.

For example:

**GRID_Exam_Transaction_Status schema:**
```
{
   "name": "GRID_Exam_Transaction_Status",
   "Properties": {
      "Transaction_ID": {  
         "type": "string",
         "required": true
      },
      "Transaction_DateTime": {  
         "type": "string",
         "required": true
      },
      "Num_of_Exam_Included": {  
         "type": "number",
         "required": true
      },
      "Num_of_Exam_In_Error": {  
         "type": "number",
         "required": true
      }
   }
}
```
"PartnerID": {  
    "type": "string",
    "required": true
},
"AppID": {  
    "type": "string",
    "required": true
},
"Facility_ID": {  
    "type": "string",
    "required": true
},
"Error_Msg": {  
    "type": "string",
    "required": false
},
"Exam_Errors": {  
    "type": "array",
    "required": true,
    "properties": {
        "Exam_Unique_ID": {  
            "type": "string",
            "required": true
        },
        "Error_Msg": {  
            "type": "string",
            "required": true
        }
    }
}
}

3.4 GRID_WebService_Error schema

"GRID_WebService_Error" schema describes detailed error information which is returned by all API responses with a status code other than 200:

GRID_WebService_Error schema:

{
    "name": "GRID_WebService_Error",
    "Properties": {
        "error_code": {  
            "type": "string",
            "required": true
        },
        "error_description": {  
            "type": "string",
            "required": true
        }
    }
}
4  GRID Exam API

4.1  Test Environment

Base URL: https://nrdr9x.acr.org/NonPQRSapi/grid/transactions

Application ID: 10005
Partner ID: to be provided
Facility ID: to be provided

4.2  Authentication

All API requests must be authenticated and authorized. To call the API you must add JWT token received from ACR Connect to the “Authorization” request header using the following format:

    Bearer <jwt-token>

The 401 status code indicates 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

4.3  Create or Resubmit Transaction

POST

This request is used to submit a new set of GRID exams data in the GRID_Exam_Transaction schema. Each transaction must have a unique Transaction_ID. Partner is required to maintain the uniqueness of the Transaction_ID. The Previous_Transaction_ID is used for resubmission. If you need to resubmit a previous transaction you will submit a new transaction and populate the Previous_Transaction_ID with the Transaction_ID that was submitted previously.

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

### 4.3.1 Examples POST

Sample parameters:
- Facility_ID: "100000"
- PartnerID: "30004"
- AppID: "10005"
- Authorization: "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiOiIwOiJwcnNhLXNoYTEiLCJCJ4NXQiOiIzWnWdDNC15STBQ0mNhEaDAYWlNQjdaa1NRLUUtQ.OeyJpc3MiOiJodHRwczovL1NlY3VyZUF1dGgwMVZLNmcjFjc5vcmciLCJhWQIoiJodHRwczovL1NlY3VyZUF1dGgwMVZLNmcjFjc5vcmciLCJuYmYiOiJ0MEFyOTkiLCJzY29wZSI6WyJvcGVuaWQiLCJwcXJzIl0sInN1YiI6IjEwMDAwMiJ9.AFsoPNtIT8N0N6w1y0OZLokdplRM2YBOAvquMXpkoI_6b9ANEnHY72ubylt6-4vdj165aUXPRDTF37UT9cqv21hRTpOyYMTv5gksU6vLzKapPft6EW6b88ctQnHs1pxyDGSsXKDM-dR6upj6x0eZ7o4ZWi8o8ZhkeuO0bFZPNmL57y96_A9uyG8kbt69Ih0aCBNvtaobkD3VJsWB4ElfiqJ2RO8XPCGF5oYAnuosgH5Cm6kMNN7WiX4rFps20MryBltutKztcNhaj-l65gxyrJpmqm8r9dBi6NFe-rKkN6GdJ2TH9EABI6CAoQ_CQqFtrgXFLechnSPw"

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

```javascript
function createTransaction(transactionData, token) {
  $.ajax({
    type: 'POST',
    url: "https://nrdr9x.acr.org/NonPQRSapi/grid/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 transactionData = {
```

American College of Radiology – NRDR GRID Exam Data Exchange
"Transaction_ID": "test_0922_10",
"Transaction_DateTime": "02/17/2019",
"Num_of_Exam_Included": 1,
"Facility_ID": "100640",
"PartnerID": "1",
"AppID": "1",
"Previous Transaction_ID": null,
"GRID_File_Version_Num": "2.0",
"Exam": [
  {
    "Exam_Unique_ID": "test_0922_web",
    "Patient_Age": "56",
    "Patient_Gender": "M",
    "Study_Name": "Name",
    "Physician_NPI": "1234567089",
    "Physician_Local_ID": "MGH-7155",
    "Multiple_Readers": "1",
    "ICD_10_Procedure_Code": "70478",
    "CPT_HCPCS_Code": "71465",
    "Modality_Procedure": null,
    "Place_of_Service": "88",
    "Breast_Ultrasound": "Y",
    "Date_Exam_Completed": "05/05/2016",
    "Time_Exam_Completed": "15:35:23",
    "Date_Final_Report_Signed": "05/05/2016",
    "Time_Final_Report_Signed": "16:21:33",
    "Extravasation_Occurred": "Y",
    "Height": "23.5",
    "Weight": "12",
    "BMI": "41.7",
    "Medical_History": [1, 2, 3, 4, 5],
    "Procedure_History": [1, 88],
    "Smoking_Status": 2,
    "Number_of_Years_since_Quit": "23.55",
    "Number_Pack_Years": "312.9",
    "Body_Region": [2, 6, 7],
    "Anatomy": [5, 10],
    "Clinical_Focus": [1, 88],
    "Use_of_Contrast": 3,
    "Modality_Modifier": [1],
    "Procedure_Modifier": 20,
    "Nuclear_Agent": [99],
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    "FDG_PET_Measurements_Documented": [1, 5],
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    "Incidental_Findings": [1, 2],
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      "Incidental_Mass_Size": "123.6",
      "Incidental_Mass_Impression": 5
    },
    {
      "Incidental_Mass_Type": 2,
      "Incidental_Mass_Size": "13.6",
      "Incidental_Mass_Impression": 4
"Followup_Imaging_Recommendations":3,
"Followup_Imaging":[
  { "Recommended_Imaging_Modality":7,
    "Recommended_Imaging_Time":344,
    "Recommendation_Source_Documented":1
  },
  { "Recommended_Imaging_Modality":2,
    "Recommended_Imaging_Time":34,
    "Recommendation_Source_Documented":0
  }
],
"Followup_Procedure_Recommendations":3,
"Followup_Procedure":[
  { "Recommended_Procedure_Type":88,
    "Recommended_Procedure_Anatomy":10,
    "Recommended_Procedure_Time":23,
    "Recommendation_Source_Documented":0
  },
  { "Recommended_Procedure_Type":5,
    "Recommended_Procedure_Anatomy":15,
    "Recommended_Procedure_Time":213,
    "Recommendation_Source_Documented":1
  }
],

// get ACR Connect token
var token = GetAuthorizationToken();
createTransaction(transactionData, token);

4.4 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 GRID_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
4.4.1 Examples GET

Sample parameters:

- id: “26” (transaction id)
- FacilityID: "100000"
- PartnerID: "30004"
- AppId: "10005"
- Authorization: “Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJodHRwOi8vd3d3LnRleHRlcmNoYu5LdGdwLzA5L3htbGRzaWcjcNhNmYzEiLCJhY2NlZEN1c2NvZGQ6MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDA
5 Validation & Error Messages

The Validator will validate the following:
1. JSON syntax
2. Required fields

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>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transaction level</strong></td>
<td></td>
</tr>
<tr>
<td>G0000</td>
<td>Transaction is loaded successfully</td>
</tr>
<tr>
<td>G0001</td>
<td>Transaction has been received and is pending for validation</td>
</tr>
<tr>
<td>G0002</td>
<td>Validation has been completed, pending for loading to database</td>
</tr>
<tr>
<td>G0003</td>
<td>Transaction was partially loaded. Some elements did not pass validation and were rejected.</td>
</tr>
<tr>
<td>G0004</td>
<td>The entire transaction was rejected due to failure in validation</td>
</tr>
<tr>
<td>G0005</td>
<td>This transaction has been replaced with another transaction</td>
</tr>
<tr>
<td>G1003</td>
<td>Unable to import data submitted. Data does not match schema</td>
</tr>
<tr>
<td>G1004</td>
<td>Unable to import data submitted. Data is empty or null</td>
</tr>
<tr>
<td>G1005</td>
<td>Error importing data &lt;exception message&gt;</td>
</tr>
<tr>
<td>G1010</td>
<td>User account is not authorized to submit data to GRID</td>
</tr>
<tr>
<td>G1012</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>G2001</td>
<td>Missing Transaction_ID</td>
</tr>
<tr>
<td>G2011</td>
<td>Missing Transaction_DateTime</td>
</tr>
<tr>
<td>G2012</td>
<td>Transaction_DateTime is not a valid date time format</td>
</tr>
<tr>
<td>G2013</td>
<td>Transaction_DateTime is a future date</td>
</tr>
<tr>
<td>G2014</td>
<td>Transaction_ID must be unique. &lt;transaction_id&gt; has been submitted in a previous transaction</td>
</tr>
<tr>
<td>G2021</td>
<td>Missing Num_of_Exam Included</td>
</tr>
<tr>
<td>G2022</td>
<td>Num_of_Exam Included is not an integer</td>
</tr>
<tr>
<td>G2031</td>
<td>Missing PartnerID</td>
</tr>
<tr>
<td>G2032</td>
<td>Invalid PartnerID</td>
</tr>
<tr>
<td>G2041</td>
<td>Missing AppID</td>
</tr>
<tr>
<td>G2042</td>
<td>Invalid AppID</td>
</tr>
<tr>
<td>G2051</td>
<td>Missing Facility_ID</td>
</tr>
<tr>
<td>G2052</td>
<td>Invalid Facility_ID</td>
</tr>
<tr>
<td>G2053</td>
<td>Facility has not registered for GRID. Submission aborted</td>
</tr>
<tr>
<td>Error Code</td>
<td>Message</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>G2054</td>
<td>Facility has not been accepted to GRID. Submission aborted</td>
</tr>
<tr>
<td>G2057</td>
<td>Invalid FacilityID. User has no access to the registry of the facility</td>
</tr>
<tr>
<td>G2062</td>
<td>Invalid Prev_Transaction_ID. No transactions with Transaction ID <code>&lt;prev_transaction_id&gt;</code> was received till now</td>
</tr>
<tr>
<td>G2071</td>
<td>Missing exam object information</td>
</tr>
<tr>
<td>G2072</td>
<td>Data in tag Num_of_Exams_Included <code>&lt;num_of_exams_included&gt;</code> does not match with exam received <code>&lt;total # exam received&gt;</code></td>
</tr>
<tr>
<td>G2081</td>
<td>Some of the exams did not pass validation and were rejected</td>
</tr>
<tr>
<td>G2091</td>
<td>Transaction has unknown element(s): <code>&lt;unknown_elements_list&gt;</code></td>
</tr>
<tr>
<td>G2092</td>
<td>Forbidden symbol ‘</td>
</tr>
<tr>
<td><strong>Exam level</strong></td>
<td></td>
</tr>
<tr>
<td>G3001</td>
<td>Missing Exam Unique ID</td>
</tr>
<tr>
<td>G3003</td>
<td>Invalid. Record - <code>&lt;number of fields&gt;</code> entries expected. <code>&lt;number of fields in the exam provided&gt;</code> read.</td>
</tr>
<tr>
<td>G3004</td>
<td>Invalid {0}. Maximum array length is {1} elements</td>
</tr>
<tr>
<td>G3005</td>
<td>Invalid {0}. Field must contain only the characters 0-9. Field may contain a decimal point</td>
</tr>
<tr>
<td>G3006</td>
<td>Invalid {0}. Field must be numeric with up to {1} digits after the decimal point</td>
</tr>
<tr>
<td>G3007</td>
<td>Invalid {0} format: <code>{1}</code></td>
</tr>
<tr>
<td>G3009</td>
<td>Invalid {0}: <code>{1}</code>. Possible values between <code>{2}</code> and <code>{3}</code></td>
</tr>
<tr>
<td>G3010</td>
<td>Invalid {0}. Values should be unique within array</td>
</tr>
<tr>
<td>G3081</td>
<td>Missing Patient Gender</td>
</tr>
<tr>
<td>G3071</td>
<td>Missing Patient Age</td>
</tr>
<tr>
<td>G3041</td>
<td>Missing Physician_NPI</td>
</tr>
<tr>
<td>G3042</td>
<td>Invalid Physician_NPI</td>
</tr>
<tr>
<td>G3011</td>
<td>CPT_HCPCS_Code is required when neither ICD_10_Procedure_Code nor Modality_Procedure is provided</td>
</tr>
<tr>
<td>G3012</td>
<td>Invalid CPT_HCPCS_Code</td>
</tr>
<tr>
<td>Error Code</td>
<td>Message</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>G3013</td>
<td>Invalid CPT_HCPCS_Code. Field must contain only alphanumeric characters</td>
</tr>
<tr>
<td>G3014</td>
<td>Invalid. CPT_HCPCS_Code length must be &lt;number of characters&gt; characters</td>
</tr>
<tr>
<td>G3021</td>
<td>ICD_10_Procedure_Code is required when neither CPT_HCPCS_Code nor Modality_Procedure is provided</td>
</tr>
<tr>
<td>G3031</td>
<td>Modality_Procedure is required when neither CPT_HCPCS_Code nor ICD_10_Procedure_Code is provided</td>
</tr>
<tr>
<td>G3032</td>
<td>Invalid version number. Version number {0} not supported</td>
</tr>
<tr>
<td>G3033</td>
<td>Invalid version number. Version number must be {0}. Field read: {1}</td>
</tr>
<tr>
<td>G3045</td>
<td>Warning. Physician NPI does not exist for this facility ID/registry</td>
</tr>
<tr>
<td>G3051</td>
<td>Breast_Ultrasound is required when CPT_HCPCS_Code is not provided</td>
</tr>
<tr>
<td>G3061</td>
<td>Missing Date_Exam_Completed</td>
</tr>
<tr>
<td>G3062</td>
<td>Invalid {0} format: {1}. Valid format is mm/dd/yyyy</td>
</tr>
<tr>
<td>G3063</td>
<td>Missing Time_Exam_Completed</td>
</tr>
<tr>
<td>G3064</td>
<td>Invalid Time_Exam_Completed format: &lt;time_exam_completed&gt;. Valid format is hh:mm:ss in military format</td>
</tr>
<tr>
<td>G3072</td>
<td>Invalid. Patient Age must be equal or less than 120 years</td>
</tr>
<tr>
<td>G3091</td>
<td>Missing Date_Final_Report_Signed</td>
</tr>
<tr>
<td>G3093</td>
<td>Missing Time_Final_Report_Signed</td>
</tr>
<tr>
<td>G3095</td>
<td>Invalid. Missing Multiple_Readers</td>
</tr>
<tr>
<td>G3096</td>
<td>Invalid. Missing Place_of_Service</td>
</tr>
<tr>
<td>G3101</td>
<td>Contrast_Usage is required when CPT_HCPCS_Code is not provided</td>
</tr>
<tr>
<td>G3110</td>
<td>Invalid &lt;field_name&gt;. Maximum character length is &lt;field_max_length&gt; character(s)</td>
</tr>
<tr>
<td>G3111</td>
<td>Invalid &lt;field_name&gt;. Field must contain only the characters 0-9</td>
</tr>
<tr>
<td>G3112</td>
<td>Invalid &lt;field_name&gt;. &lt;Hour, Minutes or Seconds&gt; must be in a &lt;time_format&gt; format</td>
</tr>
<tr>
<td>G3113</td>
<td>Invalid &lt;field_name&gt;. &lt;Hour, Minutes or Seconds&gt; must be in a numeric &lt;length&gt; digit &lt;format&gt; format</td>
</tr>
<tr>
<td>G3114</td>
<td>Invalid &lt;field_name&gt;. &lt;Hour, Minutes or Seconds&gt; must be between &lt;min_value&gt; and &lt;max_value&gt;</td>
</tr>
<tr>
<td>G3115</td>
<td>Invalid &lt;field_name&gt;. Field must contain 'Y' or 'N'</td>
</tr>
<tr>
<td>G3116</td>
<td>Invalid &lt;field_name&gt;. Values &lt;possible_values&gt; expected</td>
</tr>
<tr>
<td>Error Code</td>
<td>Message</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>G3117</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Month must be in a 2 digit mm format</td>
</tr>
<tr>
<td>G3118</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Month must be between 1 and 12</td>
</tr>
<tr>
<td>G3119</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Month must be a numeric value</td>
</tr>
<tr>
<td>G3120</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Day must be in a 2 digit dd format</td>
</tr>
<tr>
<td>G3121</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Day must be between 1 and 31</td>
</tr>
<tr>
<td>G3122</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Day must be a numeric value</td>
</tr>
<tr>
<td>G3123</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Year must be in a 4 digit yyyy format</td>
</tr>
<tr>
<td>G3124</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Year must be between 1900 and <code>&lt;current_year&gt;</code></td>
</tr>
<tr>
<td>G3125</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Year must be a numeric value</td>
</tr>
<tr>
<td>G3126</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Month must be before or on present date</td>
</tr>
<tr>
<td>G3127</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Day must be before or on present date</td>
</tr>
<tr>
<td>G3128</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Dates in a leap year in the month of February must have day values between 1 and 29</td>
</tr>
<tr>
<td>G3129</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Dates in the month of February must have day values between 1 and 28</td>
</tr>
<tr>
<td>G3130</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Dates in the months of April, June, September, and November must have day values between 1 and 30</td>
</tr>
<tr>
<td>G3131</td>
<td>Invalid <code>&lt;field_name&gt;</code>. Incompatible set of values for multi selection field.</td>
</tr>
<tr>
<td>G3132</td>
<td>Invalid Warning. <code>Date&amp;Time_Report_Signed</code> must be on or after <code>Date&amp;Time_Exam_Completed</code>. <code>Date&amp;Time_Report_Signed</code> must be on or after <code>Date&amp;Time_Exam_Completed</code></td>
</tr>
<tr>
<td>G3211</td>
<td>Warning. <code>Number_Of_Packs_Year_Smoking</code> is required not provided when Smoking status is ‘Current smoker’, ‘Former smoker’ or ‘Smoker, current status unknown’</td>
</tr>
<tr>
<td>G3212</td>
<td>Invalid. <code>Number_Of_Packs_Year_Smoking</code> only applicable if Smoking status is ‘Current smoker’, ‘Former smoker’ or ‘Smoker, current status unknown’</td>
</tr>
<tr>
<td>Error Code</td>
<td>Message</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>G3221</td>
<td>Warning. <strong>Number_Of_Years_Since_Quit</strong> is <em>required</em> <em>not provided</em> when Smoking status is ‘Former smoker’</td>
</tr>
<tr>
<td>G3222</td>
<td>Invalid. <strong>Number_Of_Years_Since_Quit</strong> only applicable if Smoking status is ‘Former smoker’</td>
</tr>
</tbody>
</table>