

OK CDC-PA Catkin v1.0.168

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DOCUMENT HISTORY

Date	Description	Author	Version
01/28/2022	Initial Release	Heather Sherwood	1.099.RELEASE
04/04/2022	Updates for EV-3392	Heather Sherwood	1.0.114.RELEASE
04/15/2022	Updates for EV-3504	Heather Sherwood	1.0.127.RELEASE
06/02/2022	Bug Fix EV-4035	Heather Sherwood	1.0.130.RELEASE
07/29/2022	Updates for EV-4354 & EV-4481	Heather Sherwood	1.0.140.RELEASE
07/27/2023	Updates for EV-7882	Samantha Johnson	1.0.168.RELEASE

Overview

The OK CDC PA State Reporting Interface provides a method to validate and submit to the state of Oklahoma data collected via an agency-created form for the purpose of obtaining a Prior Authorization (PA) response. The form can be completed by the clinical staff and then use the interface to solicit a response from the state in real-time, instead of sending bulk batches and waiting for the replies.

Installing the Catkin

The installation inserts a Catkin Registration record: *OKCDCPA, Version 1.0.168.RELEASE* in the *dbo.CatkinRegistrations* table. After installation is complete, the Catkin version is displayed on the Help > About page under the *Catkins* section. The Catkin install script creates the following stored procedure, forms, and tables if they do not already exist.

- Grand Client Data Core Form
- *dbo.GrandClientDataCore*
- OK CDCPA Configuration Form
- *dbo.ConfigOkCdcPa*
- Grand CDC Error Form
- *dbo.CDCPAErrors*
- *dbo.CDCPASubmissions*
- *dbo.CDCProgramProcedureCode_val*
- *dbo.CDCPAErrorResponses*
- *dbo.CDCSatelite_val*
- *dbo.CDCProblem_val*
- *dbo.CDCReferral_val*
- *dbo.CDCAgency_val*
- *dbo.CDCEducationLevel_val*
- *dbo.CDCCountyofCommit_val*
- *dbo.CDCDrugofChoice_val*
- *dbo.CDCTransactionType_val*
- *dbo.CDCLevelOfCare_val*
- *dbo.sp_OkCdcPa_ClientDataCoreValidation*

After the Catkin is installed, a custom data population script is run to populate the validation tables (those ending in *_val*). If a table already exists, it is truncated and re-populated to ensure that values are up to date. Note that in this release, the CDC Transaction Type and CDC Level of Care validations were moved out of the form and into the population script.

Configuring the Application

The Catkin installs the OK CDCPA Configuration form and makes it available in the *FORMS* menu for members of the Admin User Group. Manage access to this form in *Configuration > Staff/Users > User Groups > Menu Options*.

- Enter the URL and credentials for the OK Department of Mental Health and Substance Abuse Services on this form - these credentials are used when the Validate button is selected on the Grand Client Data Core Form.
- **The Supervisor User Group selection determines which user group members can open and change values on a successfully submitted CDCPA form.**

The screenshot shows the 'OK CDCPA Configuration' form. The left sidebar lists menu items under 'GLMHC Forms', including 'Contact Log', 'Finance Department Forms', 'Setup Customizations', and 'NOT IN USE - dev'. The 'OK CDCPA Configuration' item is highlighted. The main form area has the following fields:

- Web Service URI: <https://dmhwebservices.odmhsas.org/ErrorListWebService/Service.aspx>
- User ID: ECHO
- Password: *****
- User ID2: GrandLake
- Password2: *****
- Supervisor User Group: Admin Administrators (dropdown)

Buttons for 'Save' and 'Cancel' are located at the bottom of the form.

Also, ensure the appropriate User Groups have access to the Grand Client Data Core Form. If the form is accessed via a custom Client tab, access is configured in *Configuration > Staff/Users > User Groups > Menu Access*.

The screenshot shows the 'ADMIN' user group configuration page. The 'ADMIN' user group is listed with the description 'Administration'. Below this, there are tabs for 'PROFILE', 'MENU OPTIONS', and 'STAFF'. Under 'MENU OPTIONS', there are settings for 'Clients' (a toggle switch), 'Face Sheet', and 'Profile'. The 'Profile' setting is expanded to show 'Client Data Core (ClientDa...'. A red arrow points to this dropdown menu. To the right of each menu item are radio buttons for 'Disabled', 'Read Only', and 'Edit'.

If the form is accessed via the VHR Timeline, user group access is determined in the Header Editor.

- If the Client Data Core form does not already exist on the Timeline, the Catkin creates a Client Data Core Header and Category.
- *VhrStartDate* is the default selection for the Category's "Start Date Field."
- If the form does exist, the Catkin does not change the Timeline configuration.

CATEGORY DEPICTION MANAGER GRID GRAPHICS

Filter by... ?

Header Editor ?

Name*
Training

Vhr Categories
Groups
ALL

name	Admin	Therapist T	Care Coord	Finance Ad	F
Client Data Core	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ace Questionnaire	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outpatient Screening	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Client or Clinician Override	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PA/Validation of the Client Data Core Form

The PA/VALIDATION tab of the agency-created Client Data Core Form is used to view and manage the CDC submission process. New forms and validated forms that still have errors do not have a populated Submit Date on the first (Section 1) tab.

Client Data Core ✕

SECTION 1 SECTION 2 PART 1 SECTION 2 PART 2 SECTION 2 PART 3 SECTION 3 **PA/VALIDATION**

Client: 0000008TEST 0000008TEST

Submit Date Create Date* 01/05/2022

CDC Client ID Maiden Name Copy

Agency* 0000000203

Satellite No*

Transaction Date

Transaction Time

Transaction Type

Service Focus

CDC Type*

Client Race (Check all that apply):

White

Asian

American Indian CDIB Card Obtained/Scanned

Nat. Hawaiian/Other Pacific Islander

Black/African American

ETHNICITY: Hispanic/Latino (If only H/L, then check White too!)

Alert Info: Other

Primary Referral

Agency

Secondary Referral

Agency

Clinician of Record

If Child, IEP/504 for current school year? Date Expires

Receives Social Security for Mental Health reasons?

Has been hospitalized for Mental Health reasons?

**NOMS Fields are Green

New Delete Save Cancel

Once sections one through three of the form are complete (the first five tabs), navigate to the PA/VALIDATION tab.

Client Data Core ✕

SECTION 1 SECTION 2 PART 1 SECTION 2 PART 2 SECTION 2 PART 3 SECTION 3 PA/VALIDATION

Client 000008TEST 000008TEST

PA Section

Tx Plan Grid Start Date

PA End Date

CCBHC LEVEL: _____

Program Procedure Code

PA Number _____

Mode

CDC Key _____

PA Originator ID _____

Validation

Validation Date [Navigate](#)

Has Errors

Select the blue *Validate* button to submit the collected data to the state of Oklahoma. ***Clicking validate does not initiate a second submission before a response is received.***

Client Data Core SEND X

SECTION 1 SECTION 2 PART 1 SECTION 2 PART 2 SECTION 2 PART 3 SECTION 3 **PA/VALIDATION**

Client 0000008TEST 0000008TEST

PA Section

Tx Plan Grid Start Date

PA End Date

Program Procedure Code

Mode

CDC Key

PA Originator ID

CCBHC LEVEL:

PA Number

Validation

Validation Date

OKDCPA 1 record submitted. 31 errors found. Navigate

Has Errors

New Delete Save Cancel

A loading spinner displays while the validation takes place. When complete, a message displays indicating if the record was submitted and the count of errors found, if any. To view the error details, select the blue *Navigate* button.

CDC Errors X

Client 0000008 0000008TEST 0000008TEST

Error Code	Error Field	Error Message
Show all	Show all	Show all
CDC80250	NUM_ABSENT_DC	Absent From Day Care is required. (00-66 or 99)
CDC70735	carmed	CAR Medical/Physical is required (01-50 or 99)
CDC70745	carfam	CAR Family is required (01-50 or 99)
CDC70775	carsocleg	CAR Socio-Legal is required (01-50 or 99)
CDC50100	Gender	Gender is required.
CDC50070	recipient_id	Member ID is required. (9 CHARACTERS)
CDC60185	numlivho	numlivho not required for children but must be between 01 - 15 if given
CDC71580	clinician	Clinician Of Record is required. (10 Characters)
CDC50180	City	City is required.
CDC70785	carself	CAR Self Care/Basic Needs is required (01-50 or 99)
CDC50259	ACEScore	If the ACE score given, it must be valid
CDC50200	Address1	Address Line 1 is required.
CDC90030	transtype	Invalid Transaction Type: Customer does not have an open CDC episode with this agency
CDC50700	recipient_id	Customer not found in eligibility file, please check ID. New eligibility may take 24 hours.
CDC70715	carthink	CAR Think is required (01-50 or 99)

Errors are stored in the dbo.CDCPAErrors table. After reviewing and correcting the errors, validate the CDC form again. On validation, existing errors associated with that record are cleared, and new errors, if any, are recorded when the validation is complete.

When a form is successfully submitted without errors,

The screenshot shows the 'Client Data Core' interface with the 'PA/VALIDATION' tab selected. The client is 'Jim Aardvark'. The 'PA Section' contains fields for 'Tx Plan Grid Start Date', 'PA End Date', 'CCBHC LEVEL', 'Program Procedure Code', 'PA Number', 'Mode', 'CDC Key 6442199', and 'PA Originator ID'. A 'Validation' section shows 'Validation Date' as 12/17/2021, a 'validate' button, and 'Has Errors' as '2 No Errors-Submitted succ'. A grey notification box displays 'OKCDCPA 1 record submitted. No error found.' The bottom of the window has buttons for 'New', 'Delete', 'Save', and 'Cancel'.

- The form is locked, and users are not able to make changes unless they belong to the user group specified on the OK CDCPA Configuration page.
- The **CDC Key** field in the PA Section is populated with the authorization provided by the state of Oklahoma.
- In the Validation section,
 - The **Validation Date** is populated with the current date.
 - The **Has Errors** field is populated with value 2 No Errors – Submitted Successfully.
- The **Submit Date** field on the first tab (Section 1) is populated with the date of the successful submission.

The screenshot shows the 'Client Data Core' interface with the 'SECTION 1' tab selected. The client is 'Jim Aardvark'. Fields include 'CDC Client ID 001', 'Maiden Name', 'Agency*' (0000000203), 'Satellite No*' (100732860H), 'Transaction Date' (12/06/2021), 'Transaction Time' (10:34 AM), 'Transaction Type' (41 Non-NOMS Field Upc), and 'Service Focus' (15 Mental Health Court). A 'Copy' button is present. A 'Screenings' section contains dropdowns for 'Mental Health' (3 Not Administe), 'Substance Use' (3 Not Administe), 'Gambling' (3 Not Administe), and 'Trauma' (3 Not Administe), along with 'SOGSGSI', 'ACE Score 09', and 'CATS/PCL5 Score 54'. 'Submit Date' (12/17/2021) and 'Create Date*' (11/30/2021) are circled in red.

- A copy of the submission with the Submit Date is stored in the dbo.CDCPASubmissions table.

Agency Level Validation

A customizable stored procedure, `dbo.sp_OkCdcPa_ClientDataCoreValidation`, is provided for the addition of agency level validation. The stored procedure is triggered on validate and runs before the submission to the state.

An example of how to add the validation is in the stored procedure as pictured below.

```
ALTER PROCEDURE [dbo].[sp_OkCdcPa_ClientDataCoreValidation]
    @Client CHAR(36), @AppUserId CHAR(36), @ClientDataCore CHAR(36) AS
BEGIN
    -- Do validation here to insert errors into dbo.CDCPAErrors
    -- Example:
    --
    -- IF EXISTS (SELECT 1 FROM GrandClientDataCore WHERE id = @ClientDataCore AND <some error condition> )
    -- BEGIN
    --     INSERT INTO CDCPAErrors (id, Client, ClientDataCore, ErrorCode, ErrorMessage, ErrorField,
    --                             CreateDate, UpdateDate, CreateUser, UpdateUser)
    --     VALUES (dbo.NEWSMARTGUID(), @Client, @ClientDataCore, 'TEST01', 'Test Error Message',
    --             'SomeField', CURRENT_TIMESTAMP, CURRENT_TIMESTAMP, @AppUserId, @AppUserId)
    -- END
    --

    DECLARE @ErrorCount INT = (SELECT COUNT(*) FROM CDCPAErrors WHERE ClientDataCore = @ClientDataCore)

    UPDATE dbo.GrandClientDataCore
    SET ReadyForSubmission = CASE WHEN @ErrorCount = 0 THEN '1' ELSE '0' END
    WHERE id = @ClientDataCore
END
```

Updates

EV-7882 - Add Harmful Intent field to CDC Submission

Oklahoma added a new required field to the CDC submission. A "Harmful Intent" field has been added to the CDC form to follow these new state reporting requirements.

EV-4481 – OK CDC Population Script Changes

The population script was updated with the most recent validation values and changed to drop any existing validation values so the tables are always up to date after the script is run. In addition, the CDC Transaction Type and CDC Level of Care validations were moved out of the form and into the population script.

EV-4354 – Prevent Duplicate Submissions

When the required fields on the CDCPA form are completed and a user clicks on the validate button, any additional clicks of *VALIDATE* do not create a submission until after a response is received. If the validate action results in a successful submission, the form is locked. Once the form is locked, updates or changes can only be made by a member of the User Group specified in the *Supervisor User Group* on the OK CDC Configuration form in the FORMS main menu option.

EV-3504 – Submission Not Saving Correctly

A valid CDC submission file was created and sent, and the Form DesignEHR message said it was submitted successfully but the CDC record was missing values in the database. The following updates were made to correct this issue.

- The *ReadyForSubmission* field value now changes from 1 to 0 when the CDC has been successfully validated and submitted.
- Increased the *PAOriginatorId* field from response to 55.
- Added an *Error* field to `dbo.CDCPAErrorResponse` table to track the error that caused a failure.

EV-3392 – Error saving submission

A data truncation error issue was reported after validating an OK-CDC PA form. Despite the error, the CDC form submitted successfully to the state, and PA Start and End dates were created. However, the PA Start and End dates, in addition to other fields, were not recorded in

the ClientDataCore table.

Some field length differences were found after reviewing the most recent XML file sample that could cause the data truncation error. This sample file also had a date with a time zone where the original file used in the catkin creation did not. The addition of the time zone is the reason the PA Start and End dates were not recorded.

The catkin was updated to support time zone when parsing the date. In addition, the following columns in the CDCPASubmissions table were expanded as noted below to address the data truncation issues.

- CDCKey, varchar(20)
- PGgroup, varchar(10)
- PAnumber, varchar(15)
- _PG_group, varchar(10)
- _PA_number, varchar(15)
- pastatus_vc, varchar(20)
- ValidationDate, datetime

New columns were also added for missing response fields.

- paStatus
- acceptedDate

The changes also include a new table `dbo.CDCPAErrorResponses` that stores the response object only if the catkin fails to save a submission record, like in the case of a Data Truncation error. This table can be queried to get the response XML for troubleshooting. After the problem that caused the error is identified and addressed, the submission should be run again. Once the submission is saved successfully, the XML response for that ClientDataCore id is automatically deleted.

The catkin was also updated with the most recent copies of the OKCDC form, associated views, and the stored procedure used to copy information from the previous submission forward.

Bug Fixes

EV-4035 – Submission Issue with client under 5 years old

An issue was reported where the validation request submitted to the state for a Client under 5 years old was returned with the message that 00 must be reported for clients under 5 years old even though this was the value saved in the database for the client. The cause was due to the Education and Inschool values being pulled incorrectly. This has been corrected and now the submission pulls the Education value from the `dbo.clientDataCore.CurrentOrHighestGrade` field and the Inschool value from the `dbo.clientDataCore.AttendedSchoolLast90Days` field.