

CalSAWS

California Statewide Automated Welfare System

Design Document

SCR CA-213981 – MEDS Inbound Alert
Automation - Convert to Multithreaded Model

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1 OVERVIEW

This document outlines the changes to be implemented in the MEDS Alert Inbound Reader and MEDS Automation batch jobs to convert the existing execution mode to multi-threaded model. The MEDS Alert Inbound Reader Jobs will now assign thread numbers to records, and the MEDS Alert Inbound Reader will be updated to act as a load balancer. Additionally, the MEDS Automation Batch Job will be updated for restartability functionality so records already processed are not processed again.

1.1 Current Design

Currently, the MEDS Alert Inbound Reader Jobs do not assign thread numbers to records inserted into the database. The MEDS Automation Batch Job currently processes all MEDS Alert records inserted by the Inbound Reader Jobs to create tasks and update data collection pages. The MEDS Automation Batch run in single threaded mode and doesn't have restartability.

1.2 Requests

1. Update MEDS Alert Reader Inbound Job to act as a Load Balancer to assign thread numbers for records inserted into the MEDS_ALERT table.
2. Update MEDS Automation Batch Job to a multi-threaded mode.
3. Implemented restartability to MEDS Automation Batch Job.

1.3 Overview of Recommendations

The existing MEDS Automation and Inbound Reader batch jobs will be modified to multi-threaded model and enable restartability.

1.4 Assumptions

1. Existing MEDS inbound processing logic will not be modified, and this is technical only change to accommodate all county data processing.
2. Number of threads for LA and CIV counties are decided based on Recon alert count and CalWIN counties are prepopulated with approximate counts.

2 RECOMMENDATIONS

2.1 Update MEDS Alert Reader Inbound Jobs PIXXE419 and PIXXE430

2.1.1 Overview

The MEDS Alert Inbound Reader jobs will be updated to act as a Load Balancer to assign thread numbers when inserting records into the Database.

2.1.2 Description of Changes

Modify PIXXE419 and PIXXE430 to assign thread numbers for records inserted into the MEDS_ALERT table.

2.1.3 Execution Frequency

No change.

2.1.4 Key Scheduling Dependencies

No change.

2.1.5 Counties Impacted

All counties.

2.1.6 Data Volume/Performance

Not Applicable.

2.1.7 Failure Procedure/Operational Instructions

The Batch and Tech Operation Support Teams will evaluate errors, diagnose the issue and work with the appropriate teams to resolve the failure.

2.1.8 Test Validation

This job will be executed in a test environment, and same job from the previous release will be executed in a different test environment having same amount of data. The number of records should match and no impact to execution time.

2.2 Update MEDS Automation Batch Job PIXXC432 to multi-threaded mode

2.2.1 Overview

Batch Job PIXXC432 will be updated to a multithreaded mode.

2.2.2 Description of Changes

Batch Job PIXXC432 will be updated to a multithreaded mode to process the inbound meds alerts parallelly.

County#	County Name	Number of Threads
1	Alameda	5
2	Alpine	1
3	Amador	1
4	Butte	1
5	Calaveras	1
6	Colusa	1
7	Contra Costa	1
8	Del Norte	1
9	El Dorado	1
10	Fresno	1
11	Glenn	1
12	Humboldt	1
13	Imperial	5
14	Inyo	1
15	Kern	5
16	Kings	5
17	Lake	1
18	Lassen	1
19	Los Angeles	30
20	Madera	1
21	Marin	1
22	Mariposa	1
23	Mendocino	1
24	Merced	5
25	Modoc	1
26	Mono	1
27	Monterey	5
28	Napa	1
29	Nevada	1
30	Orange	5
31	Placer	1

32	Plumas	1
33	Riverside	5
34	Sacramento	5
35	San Benito	1
36	San Bernardino	5
37	San Diego	5
38	San Francisco	5
39	San Joaquin	5
40	San Luis Obispo	1
41	San Mateo	1
42	Santa Barbara	1
43	Santa Clara	1
44	Santa Cruz	1
45	Shasta	1
46	Sierra	1
47	Siskiyou	1
48	Solano	1
49	Sonoma	1
50	Stanislaus	5
51	Sutter	1
52	Tehama	1
53	Trinity	1
54	Tulare	1
55	Tuolumne	1
56	Ventura	5
57	Yolo	1
58	Yuba	1

Note: Number of threads can be reconfigured anytime through a BPCR and BSCR change.

2.2.3 Execution Frequency

Daily.

2.2.4 Key Scheduling Dependencies

Predecessor to the Inbound Alert Readers (PIXXE419 and PIXXE430)

2.2.5 Counties Impacted

All counties.

2.2.6 Data Volume/Performance

Current Max run time: ~ 8 hours for Monthly MEDS Renewal and ~ 24 hours for Quarterly MEDS Recon alert processing.

Anticipated performance Improvement: ~80% or Jobs will be modified\scheduled to complete within 5 hrs.

With this new approach the jobs/threads will be scalable to improve the performance on larger caseloads.

2.2.7 Failure Procedure/Operational Instructions

The Batch and Tech Operation Support Teams will evaluate errors, diagnose the issue and work with the appropriate teams to the resolve the failure.

2.2.8 Test Validation

All thread jobs will be executed in a test environment, and existing automation job from the previous release will be executed in a different test environment having same amount of data. The number of processed records should match, and execution time should be improved by ~80%.

2.3 Update MEDS Automation Batch Job PIXXC432 for Restartability

2.3.1 Overview

MEDS Automation Batch Job will be updated to include restartability functionality.

2.3.2 Description of Changes

PIXXC432 processes large volumes of records and currently does not have restartability functionality. Update PIXXC432 so that in the event of a restart, previously processed records will not be picked up or processed again.

2.3.3 Execution Frequency

Daily.

2.3.4 Key Scheduling Dependencies

No change

2.3.5 Counties Impacted

All counties.

2.3.6 Data Volume/Performance

Not Applicable.

2.3.7 Failure Procedure/Operational Instructions

The Batch and Tech Operation Support Teams will evaluate errors, diagnose the issue and work with the appropriate teams to resolve the failure.

2.3.8 Test Validation

Not applicable.

3 SUPPORTING DOCUMENTS

Number	Functional Area	Description	Attachment

4 REQUIREMENTS

4.1 Project Requirements

REQ #	REQUIREMENT TEXT	How Requirement Met

4.2 Migration Requirements

DDID #	REQUIREMENT TEXT	Contractor Assumptions	How Requirement Met

DDID #	REQUIREMENT TEXT	Contractor Assumptions	How Requirement Met

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-215723

Eligibility Performance Refactor Phase III

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Eugenio Velasco
	Reviewed By	Richard Weeks

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8/11/2020	1.0	Initial Version	Eugenio Velasco
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1 OVERVIEW

While making SCR CA-215723 Eligibility Performance Refactor Phase I changes, certain other logical areas of the application were found to have room for improvement over their current behavior. This SCR represents the intended changes.

1.1 Current Design

1. The Save and Continue transaction (also known as Authorization) currently performs a full case build in order to determine how to alter each piece of case level data based on the EDBC results.
 - a. This build out process is compounded by not completely reusing the same methods used to build data for the Run EDBC transaction, meaning it did not get the full benefit of the Phase I refactoring.
2. Pseudo-authorization process is the equivalent to the real-authorization logic's "Compare and Update" process that gets applied to each newly generated EDBC record except that it makes data-changes directly in memory rather than to records in the database.
3. The following items are built out using multiple database calls rather than a single call based on Case ID;
 - a. Data relating to Customer Reports
 - b. Data relating to CalHEERS EDRs and DERs
 - i. This can currently cause a very large number of database calls
 - c. Data relating to people on the case. This is only for those queries not previously improved during Phase I
 - i. This is only for some specific PERS-associated tables; this area of the build-out logic was partially refactored during 2014
4. When building data about aid received from EDBC's on another case the system searches for and then builds the programs and EDBC's that provide aid to persons on the current program. This process was previously refactored in 2016 to improve performance, however it is still a very heavy process in terms of logic and database calls.

1.2 Requests

1. Reduce the processing time for both the Run EDBC and Save and Continue transactions.

1.3 Overview of Recommendations

1. Update the current pseudo-authorization logic to create instructions regarding what denormalization actions should be taken. These will be stored in the database in sub-tables of EDBC
2. Update the Save and Continue transaction logic;

- a. No longer perform any of the existing build out operations.
 - b. Remove logic to determine what denormalization is required.
 - c. Perform SQL transactions based on the instructions created by the pseudo-authorization during the run EDBC transaction.
3. Update the following areas to reduce the number of data base calls required;
 - a. Obtaining data relating to Customer Reports
 - b. Obtaining data relating to CalHEERS DERs and EDRs
 - c. Places person level data is obtained that were not refactored under Phase I
 - d. Obtaining data relating to aid received as a result of EDBC's on other cases.
 - e. Obtaining data relating to approval tasks when EDBC's are in Pending Authorization status for Batch and Online EDBC.
 4. System should keep the current version of the real-authorization logic in the code, but skip calling it if a newly property was set to "turn the changes on"

1.4 Assumptions

This is intended to be only a performance-related change. The EDBC results will not be impacted.

2 RECOMMENDATIONS

2.1 Update the Pseudo-Authorization logic to create instructions regarding what denormalization actions should be taken

2.1.1 Overview

In a multi-month EDBC run it is necessary for each EDBC to know what changes to the case data will be made when EDBC's in the sequence being run for earlier benefit months are later saved e.g. if the worker runs for January – March then the EDBC's for February and March will need to know the impacts of the January EDBC, and the March ECB will also need to know what impacts the February EDBC will have. This is currently accomplished by the pseudo-authorization logic.

The pseudo-authorization logic duplicates the logic found in Save and Continue (Authorize) and modifies the data in memory that was built out to be used for the EDBC processing.

2.1.2 Description of Change

- a. Create a table structure under EDBC which will be used to persist objects to the database to be later used as instructions for Save and Continue to know what data to insert, update, or delete.
- b. Augment each pseudo-authorization module to create a data-change instruction object in memory that reflects the changes it is making to the in-memory data.
 - Here is the list of modules:

Module	Java class or method name	Already exists in pseudo-auth?
Authorize Time Track	AuthorizeTimeTrack	Yes
Authorize Re Evaluation	AuthorizeReEvaluation	Yes
Authorize Sanction Track	AuthorizeSanctnTrk	No
Authorize Program-Person Sanctions	AuthorizePgmPersSanctn	No
CalHEERS Transaction Starter Manager	TransactionStarterManager	No
update ICT status	(non-module / inline within AuthorizeEdbclnitializer.authorizeEdbc)	No****
DCFS insert/delete EDBC_FISCAL_EXPEND data	(non-module / inline within AuthorizeEdbclnitializer.authorizeEdbc)	No****
Authorize Work Registration	AuthorizeWrkRegistr	No*
Authorize GA Program-Person Sanctions	AuthorizeGaPgmPersSanctions	No
Authorize Program-Person Detail	AuthorizePgmPersDetl	Yes
Authorize CalWORKs Program-Person	AuthorizeCwPgmPers	Yes, but buildout is missing****
Authorize CalFresh Program-Person	AuthorizeCfPgmPers	Yes, but buildout is missing****
Authorize ABAWD Status	AuthorizeAbawdStat	No
Authorize ABAWD Time Limit Detail	AuthorizeAbawdTimeLimitDetl	Yes
Authorize CalFresh SSI/SSP Reversal	AuthorizeCalfreshSsiSspReversal	Yes
Authorize Program Detail	AuthorizePgmDetl	Yes
Authorize Aid Code	AuthorizeAidCode	No

Update CalFresh Solicitation Flyer Trigger Indicators	AuthorizeEdbc.updateFsFlyerTriggerIndicators	No
Effective Date EDBC's	AuthorizeEdbc.effectiveDateEdbcs	Yes
Authorize Expedited-Service Data	AuthorizeEdbc.denormalizeEsData	No
Save EDBC's	AuthorizeEdbc.saveEdbcs	Yes
Prepare, Group, and Merge EVENTS	AuthorizeEdbc.prepareGroupAndMergeEvents	Yes
Reassociate Prior Application	AuthorizeEdbc.reassociatePriorApplication	No
Save EVENTS	AuthorizeEdbc.saveEvents	Yes
Update SYS_TRANSACTS	AuthorizeEdbc.updateSysTransact	No****
Delete Budget-Person Reversion Data	AuthorizeEdbc.removeBudgetPersonsRevrt	No
Rush Issuances	AuthorizeEdbc.rushIssuances	(can't be done before**** Accept?)
Update EDBC Immediacy Code (after Rush Issuances)	AuthorizeEdbc.updateEdbclmmmediacyCode	(can't be done before**** Accept?)
Create Welfare-to-Work Reminder	AuthorizeEdbc.createWTWReminder	No
Save Deemed-Eligible Details	AuthorizeEdbc.saveDeemedEligDetails	Yes
Update Hunt vs. Kizer Amount	AuthorizeEdbc.updateHuntVsKizerAmount	No
Create Tasks and Journal	AuthorizeMessages	No
Update EBT Account	AuthorizeEdbc.updateEbtAccount	No

- Where a module does not already exist in pseudo-authorization a new module will need to be created based on the existing Save and Continue module.
- If the SQL statement for this Instruction is one that has any parameter-placeholder, then its object will also contain a list of parameter-values to bind to the statement.
 - The data structure and logic will need to be capable of addressing situations where the parameter is not known at

the time of the instruction being decided, e.g. where a parent table and its child are both being inserted the foreign key for the child table will not be known until the parent is actually inserted to the database.

- c. Within the Run EDBC process, implement a generalized mechanism to persist those instruction objects to the database alongside the existing write-out of EDBC to the database.
- d. Each Data-Change Instruction record should be linked to the exact EDBC that caused it to be created (during pseudo-authorization of that EDBC).
 - Data-Change Instruction records should be deleted any time the EDBC they are linked to is deleted.

Note: By linking these database instruction records to the EDBC that created them it will be possible under a future work item to display them in some form with the EDBC results allowing for greater transparency to the user of the impacts of the EDBC. No such display will be added with this work item.

2.1.3 Impacted Areas

There are significant impacts across multiple authorization areas of EDBC, ABAWD, and WPRD, a full regression of them will be necessary.

2.1.4 Teams Impacted

1. CalHEERS
2. Eligibility

2.2 Update the Save and Continue transaction logic

2.2.1 Overview

In order to fully eliminate the current buildout-logic that's invoked by the real EDBC authorization the Save and Continue logic should follow the Data-Change-Instruction records-based approach.

2.2.2 Description of Change

- a. For each one of the EDBC Authorization modules that currently exists:
 - Disable (e.g. completely remove) the real-authorization version of the module.
 - Implement a generalized mechanism to apply the instruction created as part of 2.1.2 , meaning doing the final write-out of data changes to real database records during real authorization.

2.2.3 Impacted Areas

There are significant impacts across multiple authorization areas of EDBC ABAWD and WPRD, a full regression of them will be necessary.

2.2.4 Teams Impacted

1. CalHEERS
2. Eligibility

2.3 Implement a mechanism to “invalidate” Pending Authorization EDBCs whenever the underlying “output data” for their Data-Change Instructions is modified

2.3.1 Overview

Some of those EDBC Authorization modules described in as part of 2.1.2 can make changes to specific types of case-data that can also be manually edited within the Online application by users. (Some specific examples of these types include Program Detail and Program Person Detail data.)

New logic will prevent a Pending Authorization EDBC from being finalized (authorized by a Supervisor/Deputy) if the EDBC is no longer accurate due to a potential data conflict of the new issuance.

This is necessary, because: this type of “conflict” can occur if the following sequence of events occurs:

1. A caseworker runs (as a single multi-month run) one or more EDBCs on a case, containing results that would cause changes to user-editable data upon authorization.
2. A new EDBCs are defined as Pending Authorization.
3. Before the new EDBCs are authorized by the Supervisor/Deputy, a caseworker edits the specific user-editable data that is due to be modified upon authorization of that group of EDBCs. For example: a user edits Work Registration data belonging to the same person and the same benefit-month-range as those pending-authorization EDBCs.

This means the new Pending Authorization EDBCs are now out of date because it does not consider the case-data change that occurred after the new user-editable data was processed.

2.3.2 Description of Change

- a. Add a new table, where each record in it will represent a (per-case) “flag”.

1. An eligibility program flag, which indicates a type of per-case data will be written upon authorization of EDBC's that currently belong to the case and are in pending-authorization status.

An example of these types of data tables are:

Program Person data

- PGM_PERS, CF_PGM_PERS, CW_PGM_PERS, GA_PGM_PERS

Program Person Detail data

- PGM_PERS_DETL, MC_PGM_PERS_DETL, PGM_PERS_DETL_PRE_PARTITION

Program Person Application data

- PERS_APP, PERS_APP_EVENT, EVENT, MC_PERS_APP

Program (a.k.a. “Program Block”) data

- PGM

Program Detail data

- PGM_DETL, MC_PGM_DETL, AAP_PGM_DETL

Program Application data

- PGM_APP, PGM_APP_EVENT, EVENT, PGM_APP_EFS

Re-Evaluation data

- REDETER, FC_REDETER

CalFresh SSI/SSP Reversal data

- CF_SSI_SSP_REVRSL

County Hearing / County Sanction data

- PGM_PERS_HEAR_SUMM, PGM_PERS_HEAR_SUMM_APPT, PGM_PERS_SANCTN

2. An automated other program flag, which indicates one of the automated other programs, such as Welfare to Work (WTW), will have data written to that program.

- b. Whenever the application puts a group of EDBC's into pending-authorization run-status, it should **generate** a flag (on the current case) for one of the “flaggable” types of data that will be written upon authorization of these EDBC's.

- For example: if one of those EDBC's contains results-data that would cause changes to Re-Evaluation data upon authorization, then we should generate an eligibility flag.

- Also note: these “flag”-records should be classified as “temporary data” – meaning that all “flag”-records belonging to a given case **will be deleted** whenever EDBC’s are run on that case.
- c. Then, whenever Online-page logic or a Batch module (**excluding** the module that runs and authorizes Batch EDBC’s) writes data of one of the “flaggable” types, the application will do this:
- First, go to the “owner” of the data-record that was created/modified/deleted. (This “owner” will always be a case.)
 - Then, on the “owner case”: search for any “flags”.
 - Then, if we detected any such “flags”: **invalidate** all pending-authorization EDBC’s that currently belong to the “owner case”.
 - The act of invalidating pending-authorization EDBC’s on a given case probably should be done by changing an “Invalidation Indicator” (i.e. True/False) column-value in that case’s CASE_PENDING_AUTH-record to True/“Y”.
 - And then, the same part of the Online logic that checks for whether this record’s Due Date has already gone by should also check whether the Invalidation Indicator value is True, and if so, should display a message to the caseworker saying that it is necessary to re-run this group of pending-authorization EDBC’s. (This message should be similar to the pre-existing message that notifies the caseworker that a group of pending-authorization EDBC’s is overdue to be authorized and therefore must be re-run first.)
 - Close the approval task associated with the EDBC’s in Pending Authorization status.
 - (Also note: whenever the system writes data of these types **during EDBC-Authorization**, it doesn’t actually need to “invalidate” anything. That’s because: in this scenario, the only case where “invalidation” would need to be done is **the current case**, but all “unsaved” EDBC’s on the current case are in the process of being saved/authorized right now, and therefore we **must** consider this case to currently have **no** pending-authorization EDBC’s at all.)
- e. Also note: it was previously mentioned that each “flaggable” data-type will be a “per-case” type of data. The general rules for determining whether a data-type (i.e. a database-table) should be “flaggable” should be as follows:
- For any database-table for which the act of authorizing EDBC’s **cannot** create/modify/delete data in that table: its data-type **does not** need to be “flaggable”.
 - For any database-table that is a “descendant” of the CASE table: if the act of authorizing EDBC’s can create/modify/delete data-records in that table **but only** ones that belong to the same case as these EDBC’s, then that table’s data-type should be

classified as “per-case” data, and therefore should be “flaggable”.

- Whereas for any database-table that is a “descendant” of the PERS table **without also** being linked to the CASE table or one of its descendants: **if** the act of authorizing EDBC’s can create/modify/delete data in that table, then its data-type should be classified as “per-person” data, and therefore should **not** be “flaggable”.
 - For example, some types of data that we should classify as “per-person” are: Work Registration data (WRK_REGISTR) and ABAWD Time Limit data (TIME_LIMIT and TIME_LIMIT_DETL).
- f. Finally: there are a **very few** types of “**per-person**” data that are writeable by **both** the process of authorizing EDBC’s **and** anything else (such as Online-pages for manually editing data or Batch modules **other than** BatchEdbc) – the **Work Registration and ABAWD Time Limit data-types** are examples. For these, we intend to instead use the following approach to preventing data-conflicts:
 - Any Data-Change Instruction record that contains an ID value for a data-record of any of these types will also capture the UPDATED_ON timestamp of that data-record (**as it was** in the in-memory copy of the data-record that this Data-Change Instruction was created against).
 - Then, when the system tries to apply this Data-Change Instruction record, the SQL statement (or sequence of statements) will require that the data-record’s UPDATED_ON timestamp must **still match** the corresponding UPDATED_ON timestamp-value that was captured in this Data-Change Instruction record. If the timestamps fail to match, then the currently-running authorize-EDBC’s operation will fail, and the caseworker will see an error-message similar to this:
 - “The information you are attempting to update has been modified since the last time you accessed the page.”
 - Additionally: for any Data-Change Instruction record that is meant to either create or alter the date-range of an **effective-dated** data-record of one of these types should use an SQL statement (or sequence of statements) that guards against resulting new/changed record’s date-range **overlapping** with that of another effective-dated record within the same containing timeline-of-records. And if such an overlap is detected, then the authorize-EDBC’s operation will fail, and the caseworker will see the same type of error-message as described above.

2.3.3 Impacted Areas

Unlike the rest of the Recommendations in this SCR, this Recommendation impacts certain Online pages, such as: the page for recording the results of a County Hearing (GA-related); the page for manually editing an RE Due Month; the page for manually entering Expedited Service data (on a CalFresh program-block); and the pages for manually editing the program-statuses / program-person-statuses for “work-search programs” (e.g. WtW and CalLearn). It also impacts the logic for deleting “temporary data” at the outset of a run-EDBCs operation, and

2.3.4 Teams Impacted

1. Eligibility
2. Online

2.4 Update the following areas to reduce the number of data base calls required

2.4.1 Overview

The areas to reduce the number of database calls are:

- Obtaining data relating to Customer Reports
- Obtaining data relating to CalHEERS DERs and EDRs
- Places person level data is obtained that were not refactored under Phase I
- Obtaining data relating to aid received as a result of EDBC on other cases.
- Obtaining data that check the existence of approval tasks when EDBC are in Pending Authorization status for Batch and Online EDBC.

All the proposed changes are back-end changes that currently use multiple database calls in order to retrieve all relevant data.

2.4.2 Description of Change

- a. Extend the changes made in phase I of this series of work items by updating the following areas to obtain data based on Case Id rather than parent table Id;
 - Customer Report data, contained in the following tables;

Table	Description
CUST_RPT_PGM_TYPE_DETL	Stores the detailed information for customer reports.

CUST_RPT_PGM_TYPE	Stores the program types for each customer report record.
CUST_RPT	This table collects information on the customer reporting forms sent to the customer.

- Person data that uses database access calls not refactored during phase I:
 - The process in charge of collecting person-related data that was previously refactored in 2014 is still responsible of building-out approximately 56 tables in total. Here is the complete list:

Table	Description
AAP_PLACEMT	This table will hold the information associated with an AAP Placement record
AAP_PLACEMT_ADDL_RATE	This table captures the Additional Rate information for AAP Placements.
AAP_PLACEMT_AGREMNT	This table will hold the information associated with an Agreement List record, related to an AAP Placement record
AAP_PLACEMT_CARE	This table will hold the information associated with a Special Care Increment record, related to an AAP Placement record
ACTIV_SCHED_TRK	This entity tracks information about a customer activity over a given time frame. It has child tables that track performance, attendance, and comments.
AUTO_DETL	Automobile details that will be used in the valuation of customers' property.
AUTO_DETL_HIST	Automobile History details that will be used in the valuation of customers' property.
CHILD_PLACEMT	The Child Placement table tracks the placement level of a foster care child over time and the reason why the level changed or ended.
CHILD_PLACEMT_ARC_1	This table captures the information on the ARC 1 Detail page.

CHILD_PLACEMT_DETL	This table will be used to hold the detail data for FC Child Placement.
CHILD_PLACEMT_HOME_APPR	This table captures the Home Approval Information for Parent Child Placements.
CHILD_PLACEMT_ISP	Describes the Child Placements Non-Dependent Infant Supplemental Payment Details.
CUST_ACTIV	This table defines the relationship between the Activity Contract and the Customer Activity. An Activity Contract can have one or more Customer Activities, such as Employment and ESL. A Customer Activity, such as Employment, may be on more than one Activity Contract over time.
CUST_ACTIV_ATTEND	This entity captures attendance-related activity result information for a single day.
CUST_ACTIV_DETL	This entity contains historical information about the customer activity.
CUST_PROP	This entity contains ownership information about a customer's property.
DEEMED_ELIG	This table captures deemed eligibility information.
EMP	This table contains information regarding the employment history of a customer.
EMP_DETL	This entity contains historical information about the employment entity.
EMP_MONTH_ACTUAL	Stores actual months hours associated to an employment.
EXP_N_HVK	This table holds the information for the Hunt v. Kizer Expense pages
LIQ_RESRC	This entity captures liquid resource details that will be used in the valuation of customers' property. Liquid Resource is a type of property

	that includes bank accounts, burial funds, trust funds, etc.
LIQ_RESRC_HIST	This entity captures liquid resource history details that will be used in the valuation of customers property.
MED_COND	This table contains information regarding a customer's disability.
MED_COND_APP	This table captures the statuses of the application for a Declared or Presumptive medical condition
NON_MINOR_DEPENDENT	This table is used to store the Non-Minor Dependent information for Kin-Gap and Foster Care
PERM_PLAN_COURT_ORDR	This table represents Permanency Plan Court Order information and indicates how was the court order finding verified.
PERS_AAP_SUMM	This table will hold the information associated with an AAP Summary record
PERS_NON_COMPLY	This entity tracks a customer's compliance with agency programs. If a customer doesn't cooperate with the DA, he/she can be cited with a sanction or exclusion for not complying with something the county has required him/her to do. If the person is cited, he/she receives some kind of non-compliance that is categorized by the non-compliance type code.
PERS_NON_COMPLY_DETL	This entity tracks the reasons for a non-compliance when the reason for the non-compliance is Failure to Provide
PERS_TIME_TRACK	This Table stores the time period information for tracking day-based benefits.
PERS_TIME_TRACK_DETL	This Table stores benefits information within a time period for tracking

PLACEMT_ADDL_RATE	This table captures the Additional Rate information for Child Placements.
PLACEMT_AUTH	This table represents Placement Authority information and captures all the information necessary to determine foster care funding and aid code. The worker is required to enter this data so that the funding criteria could be evaluated, and this entity captures the answers to the criteria.
PLACEMT_RATE	This table will be used to hold the data for AFDC-FC (AID TO FAMILIES WITH DEPENDENT CHILDREN-FOSTER CARE) program rates and Level Of Service the child has for their placement. As well as the Special Funding through ESP and Wraparound.
PLACEMT_SPEC_CARE	This table This entity represents Child Placements Special Care Increment information. Some children in Child Placements may need special care such as tutoring or special attention, because of health and behavioral problems. This amount is paid in addition to the Child Placement rate for an AFDC-FC child. This is a Child Placement information data.
PLACEMT_TRAV_REIMSMT	This table will be used to hold the data for AFDC-FC (AID TO FAMILIES WITH DEPENDENT CHILDREN-FOSTER CARE) regarding the applicable rate's paid for reimbursement for the transportation costs to their kid's school of origin. This is a Child Placement information data.
PREG	This entity contains information about an unborn child.
PROP	This entity captures information about the personal property of a customer.

PRSN_PROP_HIST	This table captures the information for personal property history.
REAL_PROP	This table captures the information for real property-land or buildings attached to the land are considered real property.
REAL_PROP_HIST	This table captures the information for real property history.
SCHL_ATTEND	A customer's information about his/her school attendance.
SCHL_ATTEND_DETL	Effective dating of the school attendance status history.
SERV_ACTIV	This entity contains detailed information about a particular class or activity offered by a Collaborator (e.g., June Job Club class, July Job Club class, any class scheduled for a Service Offered).
SPNSR_INFO	This table stores the Sponsoring Person details
TIME_LIMIT	User-entered adjustments to time limit calculations. This is used for calculating Cal-WORKs and Food Stamps ABAWDs time tracking exceptions outside of the system (e.g., assistance from out of state).
TIME_LIMIT_DETL	This entity captures the historical information of the Time Limit entity. For every month a customer is on welfare, an instance of this is created. It tracks the benefit month that the customer is using time towards a certain kind of time limit, whether it counts as time towards this limit, and, if the time limit has been adjusted, and if so, the reason for the adjustment.
TXFR_PROP_POI_DETER	Transferred Property: This table captures Transferred Property information to determine Period of Ineligibility. This table

	only captures property that was transferred out.
UNEMP_DEPR	This table collects detailed information regarding a customer's unemployment deprivation status. This information is used to determine eligibility for several programs.
VITAL_STAT	Information determining customers U.S. citizenship.
VITAL_STAT_BIRTH_CERT	Stores the birth certificate information.
VITAL_STAT_DOC	Documents provided by the customer for citizenship.
VITAL_STAT_REQ	Queues vital statistic identification numbers to update MEDS during batch.
WPR_JOB_READY_TIME_TRK	This table stores time track information for WPR Job Readiness.
WPR_TIME_TRK	This table will be used to track time limits for WPR.

b. Refactor the CalHEERS-data portion access classes that currently cause a significant impact to Run EDBC performance.

- Here is the list of tables:

Table	Description
ICT_CIV_CASE	The ICT_CIV_CASE table will link an E-ICT to a C-IV case.
CASE_PERS	This entity captures a person association with a given Case. Examples of people who could be involved are the following: Customers, Absent Parents, Roommates, etc.
ICT_CIV_PERS	The ICT_CIV_PERS table will link an E-ICT person to a person in C-IV.
ICT_PERS	The ICT_PERS table will store person records for an E-ICT transaction.
CH_ELIG_DETL	The CH_ELIG_DETL table will store all the fields for the Eligibility section for a CalHEERS person
CH_TRANSACTION_INFO	High level information for a CalHEERS Interface transaction.

ICT_PGM_PERS	The ICT_PGM_PERS table will link an E-ICT program to an E-ICT person.
CH_ELIG_RSN	A Reason for the eligibility evaluation result.
CH_NON_COMPLY	This table holds non-compliance reasons sent via eHIT interface.

- c. Refactor the logic used for obtaining data relating to aid received as a result of EDBC on other cases
- i. During this process the following tables are used for person level data:

Table	Description
CF_EDBC_PERS	ABAWD status of a person determined by EDBC
CW_EDBC_PERS	CW specific details for EDBC information.
EDBC_PERS	Used to hold person and configuration information.
EDBC_PERS_SANCTN	Links sanction specific EDBC data with a person.
EDBC_PERS_STAT_RSN	The person status reason codes.
EDBC_PERS_STAT_RSN_CAUSE	Links person who is causing the status reason to be set when it is not the same as the person who has it.
EDBC_PERS_WRK_REGISTR	Tentative contents of Work Registration records determined by EDBC.
EDBC_WINS_PERS	EDBC person information for the Work Incentive Nutritional Supplement program.
EDBC_WINS_PERS_HRS	EDBC person hours data for the Work Incentive Nutritional Supplement program.
GA_EDBC_PERS	GA specific details for EDBC information.
MC_EDBC_PERS	Medi-Cal specific information determined by EDBC

- ii. During this process the following tables are accessed for program level data.

Table	Description
AAP_EDBC	AAP specific information determined by EDBC.

ALLOC_FROM_PERS	Used within Medi-Cal Sneed budgeting.
ALLOC_TO_PERS	Links amount that is allocated to another person within Medi-Cal Sneed budgeting.
ARC_BUDGET	Foster Care (ARC) program budget calculations determined by EDBC.
ARC_EDBC	ARC Budget Amounts determined by EDBC.
BUDGET	Budget results determined by EDBC.
BUDGET_LINE_ITEM	Budget information that is displayed to the user.
BUDGET_PERS	Financial details pertaining to a person in the budget.
BUDGET_PERS_EXP	Configuration information and expense details pertaining to a person in the budget.
BUDGET_PERS_HVK	Hunt v. Kizer amounts information determined by EDBC.
BUDGET_PERS_HVK_DETL	Budget person Hunt v. Kizer details determined by EDBC.
BUDGET_PERS_INC	Configuration information and financial details pertaining to a person in the budget.
BUDGET_PERS_INC_AVG	Configuration information and average financial details pertaining to a person in the budget.
BUDGET_PERS_INC_AVG_QR	Configuration information and by-quarter average financial details pertaining to a person in the budget.
BUDGET_PERS_INC_QR	Configuration information and by-quarter financial details pertaining to a person in the budget.
BUDGET_PERS_MISC	Miscellaneous information pertaining to a person in the budget.
BUDGET_PERS_PROP	Person property information pertaining to a person in the budget.
CW_BUDGET	CW specific details for budget calculations.

CW_EDBC	CW specific information determined by EDBC.
DC_BUDGET	Disaster CF specific details for budget calculations.
DC_EDBC	Disaster CF specific information determined by EDBC.
EDBC_ALLOC	Long Term Care and Board and Care income allocation information.
EDBC_AUTO_PGM_ACTN	Auto create/update for the identified program.
EDBC_EVENT	Links an EDBC to an event.
EDBC_PERS_FIN	Configuration information and financial details determined by EDBC.
EDBC_PERS_MISC	Miscellaneous information pertaining to a person in the budget determined by EDBC.
EDBC_PERS_MISC_DETL	Specific details of miscellaneous information pertaining to a person in the budget determined by EDBC.
EDBC_PGM_STAT_RSN	Program status reason codes determined by EDBC.
EDBC_REVRSL_DETL	CF SSI/SSP Cash Out Reversal specific information determined by EDBC.
EDBC_SOLCT_CF	CF Solicitation Flyer determined by EDBC.
EDBC_TIME_TRACK	Time period information for TMC (Transitional Medi-Cal) determined by EDBC.
EDBC_WINS	Work Incentive Nutritional Supplement program determined by EDBC.
EVENT	Program and Person Application Events.
FC_AID_CODE	Foster Care Aid Code information determined by EDBC.
FC_BUDGET	Information from the FC budget calculations.
FC_EDBC	FC specific information determined by EDBC.
FS_BUDGET	CF specific budget information.

FS_EDBC	CF budget information determined by EDBC.
GR_BUDGET	GA specific budget information.
HA_BUDGET	HA specific budget information.
ISSUANCE	Issuances information.
MC_BUDGET	MC specific budget information.
MC_BUDGET_PERS	CMSP program specific values.
MC_EDBC	MC budget information determined by EDBC.
NOA_EDBC	Link between the NOA and EDBC tables.
RECOV_ACCT	Link reimbursement claim overpayments.
RECOV_ACCT_ADJUST	Recovery account changes due to overrides.
RECOV_ACCT_DETL	Specific details for recovery account changes due to overrides.
RECOV_ACCT_TRANSACT	Payments made to recovery accounts to repay outstanding overpayments.
TMC_BUDGET	TMC specific budget information.
TPN_DIALYSIS	Calculation information for the Dialysis and TPN Medi-Cal tests.
VEND_PMT	The amount that EDBC determined should be paid to a vendor.
VEND_PMT_BC	The amount that EDBC determined should be paid to licensed "Board and Care" housing provider.

- d. Refactor the component that checks the existence of approval tasks when EDBC's are in Pending Authorization status for Batch and Online EDBC to be conditional based on the existence of an EDBC in Pending Authorization status.

2.4.3 Impacted Areas

There are significant impacts across multiple authorization areas of EDBC ABAWD and WPRD, a full regression of them will be necessary.

2.4.4 Teams Impacted

1. CalHEERS

2. Eligibility

3 TESTING PLAN

3.1 Overview

1. Key data point comparison regression test:

Regression testing of entire case load will be performed using the process that is currently in place (app-dev regression test process) for every major CalSAWS release. This testing will be performed at both the Assembly Test phase, and the System Test phase and will be run for the whole case load against all programs.

This involves the following steps:

- a. BRG1 environment that will have latest production build **without** Eligibility improvements.
- b. BRG2 environment that will have latest production build **with** Eligibility improvements.
- c. Both environments will have the latest production data snapshot.
- d. EDBC batch is run in both environments.
- e. Statistics (time taken to complete EDBC) will be gathered and analyzed. Goal is to make sure the time taken for batch EDBC with the modified is less than the time taken without the modifications.
- f. EDBC Results (case level, program level, person level) will be compared to confirm there is no impact because of making these changes.
- g. ABAWD & WPRD batches will be run in both these environments and the corresponding information (status, type codes, result codes, etc.) will be compared.
- h. Fiscal batches will be run in both these environments and the corresponding information (issuances, overpayments etc.) will be compared.
- i. Correspondence results for the pre and post batch EDBC run will be compared to make sure the result set (Discontinuance, Change NOAs generated) are matching.

2. Performance Testing:

- a. To be performed during the System Test phase in a performance test environment.
- b. Performance testing is performed on the modified code base on the same caseload that is used for any major CalSAWS release.

- c. Purpose of this is to make sure the frequency and time duration of function calls is as expected after the changes during the Batch EDBC performance testing.

3. Automated Regression Test:

- a. To be performed at both the Assembly Test and System Test phase.
- b. Current automated regression testing scripts will be used with the modified code base to make sure the results are as expected.

4. Manual Functional Testing:

- a. To be performed at both the Assembly Test and System Test phase.
- b. Testing will be performed on the modified changes for all programs (CalWORKs, CalFresh, Medi-Cal, GA/GR, CAPI, RCA, Foster Care, ARC, AAP, Kin-Gap) to make sure the results are matching with those when the EDBC is run on the same case without the modifications.
- c. Testing will include verification that Supervisor Authorization functionality is unaffected by the modifications made.
- d. Testing will be performed on the WPRD batch to make sure the results are matching with the WPRD batch run without the modifications
- e. Testing will be performed on the ABAWD batch to make sure the results are matching with the WPRD batch run without the modifications.

3.2 Assumptions

- 1. The feasibility of performing testing at 40 county data volume is dependent on the availability of conversion data that has been successfully run through the EDBC match process.
- 2. There is no negative impact in the system with respect to Notices generated, benefits issued, and reports generated in CalSAWS.

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-216118

Add CSF 170 - Text Notification Agreement and CSF
171 – Text Notification Cancellation Notice

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Pramukh Karla
	Reviewed By	Harish Katragadda

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
01/04/2021	1.0	Original	Pramukh Karla
03/23/2021	1.1	Content Revision to update	Sureshnaidu Mullaguri

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1 OVERVIEW

The purpose of this change is to add the CSF 170 – Text Notification Agreement (11/2020) and CSF 171 – Text Notification Cancellation Notice (11/2020) Forms in English and Spanish Languages to CalSAWS System for all 58 counties.

1.1 Current Design

CSF 170 – Text Notification Agreement (11/2020) and CSF 171 – Text Notification Cancellation Notice (11/2020) Forms currently does not exist in CalSAWS System.

1.2 Requests

Add CSF 170 – Text Notification Agreement (11/2020) and CSF 171 – Text Notification Cancellation Notice (11/2020) Forms in the English and Spanish Languages for all 58 counties.

1.3 Overview of Recommendations

1. Add CSF 170 – Text Notification Agreement (11/2020) and CSF 171 – Text Notification Cancellation Notice (11/2020) Forms in English and Spanish Languages to CalSAWS System for all 58 counties.

1.4 Assumptions

1. BRM will be added to CSF 170 form will be handled by subsequent SCR CA-222353.

2 RECOMMENDATIONS

2.1 Add CSF 170 – Text Notification Agreement (11/2020) Form

2.1.1 Overview

This section will cover the updates needed to add CSF 170 Form to CalSAWS for all 58 counties.

State Form: CSF 170

Programs: All

Attached Forms: N/A

Forms Category: Form

Languages: English, Spanish

2.1.2 Description of Change

Create a new CSF 170 – Text Notification Agreement (11/2020) Form that can be generated from the CalSAWS System for all 58 counties.

1. Create CSF 170 Form XDP.

Form Header: CalSAWS Standard Header

Form Title: Text Notification Agreement

Form Number: CSF 170

Include NA Back 9: No

Imaging Form Name: Text Notification Agreement

Imaging Document Type: E-Notification

Form Mockup/Example: See Supporting Document #1

2. Add the CSF 170 – Text Notification Agreement (11/2020) Form to Template Repository. The following parameters will be required:

Required Form Input: Case Number, Customer Name, Program, and Language.

CSF 170 form will be blank when generated from the Template Repository, but CalSAWS Standard Header will be populated with Customer and Worker Information.

3. Add the following barcode options to the CSF 170 Form:

Tracking Barcode	BRM Barcode	Imaging Barcode
Y	N	Y

4. Add the following print options to the CSF 170 Form when it is generated from Template Repository:

Blank Template	Print Local without Save	Print Local and Save	Print Central and Save	Reprint Local	Reprint Central
Y	Y	Y	Y	Y	Y

Mailing Requirements:

Mail-To (Recipient): Applicant selected on the Document Parameters page.

Mailed From (Return): Worker's Office Address
Mail-back-to Address: N/A
Outgoing Envelope Type: Standard
Return Envelope Type: N/A

Additional Requirements:

Special Paper Stock: N/A
Enclosures: N/A
Electronic Signature: Yes
Telephonic Signature: Yes
Post to YBN/C4Y: Yes

2.2 Add CSF 171 – Text Notification Cancellation Notice (11/2020) Form

2.2.1 Overview

This section will cover the updates needed to add CSF 171 Form to CalSAWS for all 58 counties.

State Form: CSF 171

Programs: All

Attached Forms: N/A

Forms Category: Form

Languages: English, Spanish

2.2.2 Description of Change

Create a new CSF 171 – Text Notification Cancellation Notice (11/2020) Form that can be generated from the CalSAWS System for all 58 counties.

1. Create CSF 171 Form XDP.

Form Header: CalSAWS Standard Header

Form Title: Text Notification Cancellation Notice

Form Number: CSF 171

Include NA Back 9: No

Imaging Form Name: Text Notification Cancellation Notice

Imaging Document Type: E-Notification

Form Mockup/Example: See Supporting Document #2

2. Add the CSF 171 – Text Notification Cancellation Notice (11/2020) Form to Template Repository. The following parameters will be required:

Required Form Input: Case Number, Customer Name, Program, and Language.

CSF 171 form will be blank when generated from the Template Repository, but CalSAWS Standard Header will be populated with Customer and Worker Information.

3. Add the following barcode options to the CSF 171 Form:

Tracking Barcode	BRM Barcode	Imaging Barcode
N	N	Y

4. Add the following print options to the CSF 171 Form when it is generated from Template Repository:

Blank Template	Print Local without Save	Print Local and Save	Print Central and Save	Reprint Local	Reprint Central
Y	Y	Y	Y	Y	Y

Mailing Requirements:

Mail-To (Recipient): Applicant selected on the Document Parameters page.

Mailed From (Return): Worker's Office Address

Mail-back-to Address: N/A

Outgoing Envelope Type: Standard

Return Envelope Type: N/A

Additional Requirements:

Special Paper Stock: N/A

Enclosures: N/A

Electronic Signature: No

Post to YBN/C4Y: Yes

3 SUPPORTING DOCUMENTS

Number	Functional Area	Description	Attachment
1	Correspondence	CSF 170	CSF170_EN.pdf CSF170_SP.pdf

2	Correspondence	CSF 171	CSF171_EN.pdf CSF171_SP.pdf

4 REQUIREMENTS

4.1 Migration Requirements

DDID #	REQUIREMENT TEXT	Contractor Assumptions	How Requirement Met

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-217946 | CIV-107597

SB 80 - Changes to Vehicle Limits

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Tom Lazio
	Reviewed By	

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
08/03/2020	1.0	Initial Draft	T. Lazio
03/31/2021	1.1	Added Correspondence Regression Testing Recommendation	T. Huckaby
04/05/2021	1.2	Updated Recommendations to only reflect Vehicle Increase per ACL 21-38	T. Lazio
04/06/2021	1.3	Updated Recommendations for Correspondence to only reflect Vehicle Increase	T. Huckaby

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1 OVERVIEW

This document identifies required changes to CalSAWS and C-IV related to the vehicle limits for the CalWORKs (CW) and Refugee Cash Assistance (RCA) programs for Federal Fiscal Year (FFY) 2021 effective July 1, 2021 as informed by the All County Letter (ACL) 21-38.

1.1 Current Design

The vehicle limits for CW/RCA were last updated for FFY 2020 in SCR CA-209360_CIV-104559 with the following values:

- The vehicle equity disregard increased to \$25,000 (CT 335-AN CW Motor Vehicle Disregard for C-IV and CT 335-AO CW Motor Vehicle Disregard for CalSAWS).

1.2 Requests

Per ACL 21-38 effective July 1, 2021, the resource threshold will increase by an amount equal to the increase in the California Necessities Index for the most recent fiscal year (2021) to the following value:

- The vehicle equity disregard will be increased from \$25,000 to \$25,483.

1.3 Overview of Recommendations

1. Update CW/RCA EDBC rules that apply vehicle property limit amounts for Motor Vehicle Disregard to perform calculations based on the new limit.
2. Regression test impacted NOAs and Forms that populate the CalWORKs Motor Vehicle Disregard.

1.4 Assumptions

1. Vehicle property limits will reflect the new values on impacted NOAs and Forms.

2 RECOMMENDATIONS

2.1 CW/RCA EDBC: Motor Vehicle Disregard

2.1.1 Overview

Update CW/RCA EDBC rules that apply vehicle property limit amounts for Motor Vehicle Disregard to perform calculations based on the new limit effective July 1, 2021.

2.1.2 Description of Changes

1. Effective July 1, 2021, the disregard will be increased from \$25,000 to \$25,483 (CT 335-AN CW Motor Vehicle Disregard for C-IV and CT 335-AO CW Motor Vehicle Disregard for CalSAWS). Any amount in excess of the disregard will be counted against the AU's property limit.

2.1.3 Programs Impacted

CW
RCA

2.2 C-IV Only: Regression Test Impacted CalWORKs NOA Variable Population

2.2.1 Overview

CW NOAs populate with the motor vehicle disregard for the program in C-IV.

2.2.2 Description of Changes

The following NOA Fragment in C-IV populates the vehicle disregard for CalWORKs. This Fragment needs to be regression tested to confirm that it populates with the newest motor vehicle disregard value.

C-IV NOA Fragment:

ID	Fragment Name	Fragment Text	Languages
167	MSG_PROPERTY_FAILURE	<p>The exclusion limit for nonexempt motor vehicles is <LIMIT>. The fair market value of each vehicle over the limit is countable property. Your countable total is figured on this page.</p> <p>When you do not agree with the value the County put on your car or other property, the County will accept evidence (facts) that the value is lower. If you can prove a lower value, you may still get benefits. Ask the County how.</p>	EN, AE, AR, CA, CH, FA, HM, KO, LA, RU, SP, TG, VI

2.3 Regression Test Impacted CalWORKs Form Variable Population

2.3.1 Overview

CalSAWS and C-IV have Forms that auto-populate the motor vehicle disregard for CalWORKs.

Impacted Forms:

- CW 2218
- SAWS 2A SAR

2.3.2 Description of Change

Regression test the following Forms to verify that the correct motor vehicle disregard is populating for CalWORKs.

Note: The motor vehicle disregard variable is referenced below as LIMIT_VD.

Form	Variable	Languages
CW 2218	<p>Located on Page 5 (C-IV) and Page 6 (CalSAWS):</p> <p>“There is a \$<LIMIT> limit on the value of the property (e.g. bank accounts, stocks, etc.) that the child can own and be eligible to receive CalWORKs benefits. That limit increases to \$<LIMIT2> if the child has a disability. A child under age 18 can own a vehicle (for example a car, truck, van, motorcycle, etc.) to drive to work, school, job training or to look for work. This also applies during temporary periods of unemployment for the child who customarily drives to and from work. Any motor vehicle with an equity value of \$<LIMIT_VD> or less will not count against the \$<LIMIT>. For each motor vehicle with an equity value of more than \$<LIMIT_VD>, the value that exceeds \$<LIMIT_VD> counts against the child’s property. If it was given to the child as a gift, a donation, or a family member transferred it to the child, we also do not count it. You will be asked to give the county proof from the Department of Motor Vehicles that it was a</p>	<p>CalSAWS: AE, CA, CH, EN, KO, RU, SP, VI</p> <p>C-IV: EN, SP</p>

	gift, donation or transfer from a family member.”	
SAWS 2A SAR	<p>Located on Page 9:</p> <p>“There is a \$<LIMIT> limit on the value of the property (e.g. bank accounts, stocks, etc.) that your family can own and be eligible to receive CalWORKs benefits. If someone in your family is at least 60 years of age or disabled the limit is \$<LIMIT2>. Your residence and furniture are not part of the limit. You can own a vehicle (for example a car, truck, van, motorcycle, etc.) as long as what it’s worth minus what you owe is less than \$<LIMIT_VD>. If it was given to you as a gift, a donation, or a family member transferred it to you, we do not count it. You will be asked to give the County proof from the Department of Motor Vehicles that it was a gift, donation or transfer from a family member. The vehicle will not count if used by your family for certain special reasons. Ask your worker what those reasons are. Your worker can explain to you how to figure the value of any vehicle.”</p>	AE, AR, CA, CH, EN, FA, HM, KO, LA, RU, SP, TG, VI

3 REQUIREMENTS

3.1 Project Requirements

REQ #	REQUIREMENT TEXT	How Requirement Met
2.16.1.2	The LRS shall include an automated method for implementing mass updates triggered by policy changes or mass participant financial changes, including Social Security or Veterans benefits cost of living adjustments (COLAs).	The maximum allowed non-exempt vehicle equity value is increased to \$25,483.

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-219596

Add Validation to Transaction Detail Page for
the Effective Month Field

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Jimmy Tu
	Reviewed By	Kapil S.

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
2/8/2021	1.0	Initial Version	Jimmy Tu
3/24/2021	1.1	Update DCR (Section 2.2) to change Effective Month to the month after this SCR is implemented.	Jimmy Tu

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1 OVERVIEW

1.1 Current Design

Recovery Account Transaction Detail page field 'Effective Month' does not have any validation to ensure the date entered is not several months (or years) in the future.

1.2 Requests

Prevent users from entering an Effective Date that is greater than one month in the future.

1.3 Overview of Recommendations

1. On the Recovery Account Transaction Detail page, add a validation message that will prevent users from entering an Effective Date that is more than one month in the future.
2. Data Change any existing Transaction Detail records where the Effective Date is greater than the month after this SCR is implemented, to be the month after this SCR is implemented.

1.4 Assumptions

None.

2 RECOMMENDATIONS

2.1 Transaction Detail Page

2.1.1 Overview

The transaction detail page allows the worker to view or post a transaction to a recovery account. This page is being modified so that the effective month cannot be more than one month in the future.

2.1.2 Transaction Detail Page Mockup

- **Effective Month - Date cannot be more than 1 month in the future.**
-

Figure 2.1.1 – Effective Date Validation Message

2.1.3 Description of Changes

1. On the Recovery Account Transaction Detail page, add a validation message that will prevent users from entering an Effective Month that is more than one month in the future.

2.1.4 Page Location

- **Global:** Fiscal
- **Local:** Collections
- **Task:** Transaction Summary

2.1.5 Security Updates

1. Security Rights

Security Right	Right Description	Right to Group Mapping

2. Security Groups

Security Group	Group Description	Group to Role Mapping

2.1.6 Page Mapping

None.

2.1.7 Page Usage/Data Volume Impacts

None.

2.2 Data Change Request

2.2.1 Overview

This data change meets the requirements of this SCR by changing the effective date of a transaction record to the month after this SCR is implemented if the Effective Date is greater than the month after this SCR is implemented.

2.2.2 Description of Change

1. Data Change any existing Transaction Detail records where the Effective Date is greater than the month after this SCR is implemented, to be the month after this SCR is implemented.

Example: If the record's effective date is 10/1/2021 (or any date after 08/01/2021), and this SCR will be implemented in 21.07, set the effective date to 08/01/2021.

Note: Please see JIRA or Section 3, Supporting Documents, for an excel list of the records that will be updated.

2.2.3 Estimated Number of Records Impacted/Performance

5 records impacted.

2.3 Automated Regression Test

2.3.1 Overview


Create new automated scripts to verify the Effective Month validation message on the transaction detail.

2.3.2 Description of Changes

Create new automated scripts to verify that the Effective Month validation message on the Recovery Account Transaction Detail page:

1. Displays when the Effective Month is set more than 1 month in the future
2. Does not display when the Effective Month is set 1 month in the future or less

3 SUPPORTING DOCUMENTS

Number	Functional Area	Description	Attachment
1	2.2.2	List of DCR Records and the new Effective Date that the record should be updated to.	 CA-219596 EFF_DATE DCR

4 REQUIREMENTS

4.1 Project Requirements

REQ #	REQUIREMENT TEXT	How Requirement Met
2.1.1.5	The LRS shall provide field-level and cross-field validation upon completion of data entry by User and immediately display appropriate corrective instructions for the related field.	This requirement is met by adding a validation message to the Transaction Detail page to inform users that the Effective Month field cannot be set to be more than one month in the future.

4.2 Migration Requirements

DDID #	REQUIREMENT TEXT	Contractor Assumptions	How Requirement Met

5 MIGRATION IMPACTS

SCR Number	Functional Area	Description	Impact	Priority	Address Prior to Migration?

6 OUTREACH

None.

7 APPENDIX

None.

CalSAWS

California Statewide Automated Welfare System

Design Document

SCR #CA-222654 – Design: Server less strategy
for APIs

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Sumeet Patil
	Reviewed By	

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
04/07/2021	1.0	Initial version	Sumeet P.

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1 OVERVIEW

The purpose of this document is to summarize the activities to be performed to identify a Serverless strategy for APIs.

1.1 Current Design

The Spring Boot RESTful APIs are currently deployed to EC2 instances in AWS Dev and Prod accounts.

1.2 Requests

The increasing number of APIs are adding operational cost of these EC2 instances. The request is to identify a serverless strategy to minimize the usage of EC2 instances with minimal changes to the already built applications.

2 RECOMMENDATIONS

1. Prototype building and deploying one of the existing Spring Boot application inside AWS Lambda with minimal code changes.
2. Identify any limitations and strategy required to migrate the Spring Boot Services.
3. Identify serverless deployment strategy and explore alternatives for known Lambda limitations.

3 APPENDIX

<https://aws.amazon.com/blogs/opensource/java-apis-aws-lambda/>

<https://github.com/aws-labs/aws-serverless-java-container>

<https://dzone.com/articles/aws-lambda-with-spring-boot>

DRAFT

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-223498 DDCR 5039: Create Reports for
Electronic Signatures within LRS

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Greg Deogracia
	Reviewed By	Ravneet Bhatia, Thao Ta

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
03/02/2021	1.0	Initial Release	Greg Deogracia
03/31/2021	1.1	Updated design for the integration of Qlik	Greg Deogracia

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1 OVERVIEW

For C-IV CalSAWS migration planning, SCR CA-223498 DDCR 5039 was created to enable the Electronic Signature Request Report and Electronic Signature Request Management Report in [CalSAWS](#).

1.1 Current Design

LRS currently does not capture electronic signatures and does not have reports for them. The Electronic Signature Request Report and Electronic Signature Request Management Report are active in the C-IV environment.

1.2 Requests

Create reports to support the Electronic Signature in LRS/CalSAWS.

1.3 Overview of Recommendations

1. Migrate the C-IV Electronic Signature Request Report and [Electronic Signature Request Management Report](#) to support Electronic Signature in LRS/CalSAWS.

Commented [S1]: Recommend removing extra space in this sentence.

1.4 Assumptions

1. No Impact to other reports.
2. CA-200332 is adding the electronic signatures within LRS/CalSAWS. This SCR is the separation of the reports portion from that SCR.
3. DDCR 5039 requirements limit the scope of this SCR to the migration of the existing report, which includes report logic and report parameters.
4. On Request reports shall be reformatted to be operational within the Qlik applications environments to also be known as On Request Dashboards.

Note: This dashboard is similar to the on request reports in the previous reporting tool, but in the new reporting Qlik platform, on request reports function more similarly to Qlik dashboards.

5. Scheduled reports will be migrated and utilize the current Excel version Workbook (*.xlsx).

2 RECOMMENDATIONS

2.1 Electronic Signature Request Mockup

2.1.1 Electronic Signature Request Dashboard Mockup

This is an example of the Electronic Signature Request Dashboard as seen in the Qlik environment.

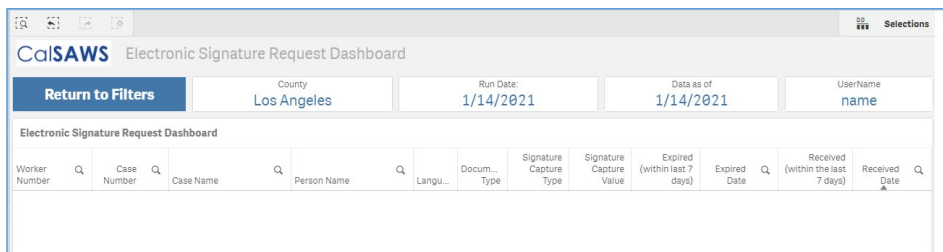


Figure 2.1.1 - Electronic Signature Request Dashboard Mockup

2.1.2 Electronic Signature Request Management Report Mockup

This is an example of a Scheduled Report from CalSAWS.

Signature Capture Type	Sent	Received	Unsuccessful	Expired
E-mail	0	0	0	0
Text	0	0	0	0
Ivs	0	0	0	0
Total:	0	0	0	0

Worker Number	Case Number	Case Name	Person Name	Document Type	Sign Date	Signature Method	Signature Capture Type	Current Status	Sent Date	Received Date	Cancelled Date	Recent Unsuccessful Date	Expired Date
---------------	-------------	-----------	-------------	---------------	-----------	------------------	------------------------	----------------	-----------	---------------	----------------	--------------------------	--------------

Figure 2.1.2 - Electronic Signature Request Management Report Mockup

2.2 Description of Change

The On Request Electronic Signature Request Dashboard and the Scheduled Electronic Signature Request Management Reports are to be migrated from C-IV to LRS/CalSAWS utilizing current report logic and operational parameters.

Base Population

Electronic Signature Request Report

This On-Request Report contains detailed information about Electronic Signature requests that were Expired or Received only within last 14 days and Sent in last 3 days. The Expired and Received requests recorded within the last 7 days are also highlighted in the report.

Note: This is an on request dashboard that will pull data live from the CalSAWS application in real-time.

Technical Note: This dashboard will use the Qlik ODAG (On-Demand App Generation) on request solution.

Electronic Signature Request Report Columns

Column Header	Description
Worker Number	The Worker ID of the worker who is saving the Electronic Signature
Case Number	Case Number of the customer who is required to sign the document
Case Name	Case Name of the customer who is required to sign the document Format – First Name, Middle initial, Last Name
Person Name	The full name of the customer who is required to sign the document Full name format - First Name, Middle Name, Last Name
Language	The selected Electronic Signature correspondence language of the customer who is required to sign the document

	<p>Possible Values:</p> <ul style="list-style-type: none"> • English – Display value if the Electronic Signature Correspondence Language is English • Spanish – Displayed valued if the Electronic Signature Correspondence Language is Spanish • Null – No value displayed if the Signature Capture type is IVR
Document Type	The Type of document that the customer needs to sign electronically shown as the Form Number
Signature Capture Type	<p>This indicates the method to gather the customer's signature (Catgry_ID=320)</p> <p>Possible Values:</p> <ul style="list-style-type: none"> • E-mail • IVR • Text
Signature Capture Value	The system assigned internal tracking entry used to send the signature request for any of the signature capture types
Expired (within last 7 Days)	This value displays "Y" when the signature request for the customer has expired within the last 7 days, if not, the entry is blank
Expiration Date	<p>The date when the signature request for the customer has expired</p> <p>Format – MM/DD/YYYY</p>
Received (within last 7 Days)	This value displays "Y" when the signature request was received and validated within the last 7 days, if not, the entry is blank
Received Date	<p>The date that the signature was received</p> <p>Format – MM/DD/YYYY</p>

Base Population

Electronic Signature Request Management Report

Report containing summary and detailed information for all Electronic Signature Request present for a report month. This is a scheduled report running monthly collecting Electronic Signature management detail for the prior month.

Electronic Signature Management Report Header Totals Columns

Report Header information is shown as a Count and Total of the represented report data columns.

Column / Row Name	Description
Signature Capture type	Rows show the method of Signature Capture Type as; E-mail, Text, IVR,
Sent	Total count by row with Current Status of Sent
Received	Total count by row with Current Status of Received
Unsuccessful	Total count by row from Recent Unsuccessful Date
Expired	Total count by row with Current Status of Expired
Total	Total of columns by column

Commented [S2]: Recommend removing comma.

Electronic Signature Management Report Columns

Column Header	Description
Worker Number	The Worker ID of the worker who is saving the Electronic Signature as of the last day of the report month
Case Number	Case Number of the customer who is required to sign the document

Case Name	Case Name of the customer who is required to sign the document Format – First Name, Middle initial, Last Name
Person Name	The full name of the customer who is required to sign the document Full name format - First Name, Middle Name, Last Name
Document Type	The Type of document that the customer needs to sign electronically shown as the Form Number
Sign Date	The Sign Date on the Electronic Signature Format – MM/DD/YYYY
Signature Method	The method used to complete the Electronic Signature (Catgry_ID=533) Possible Values: <ul style="list-style-type: none"> • Check to Sign • CW/CF e-Sign
Signature Capture Type	This column will show the method of gathering the customer's signature (Catgry_ID=320) Possible Values: <ul style="list-style-type: none"> • E-mail • IVR • Text
Current Status	Current Status of the Signature Capture Record as of the last day of the report month (Catgry_ID=535) Possible Values: <ul style="list-style-type: none"> • Received • Already Received • Cancelled • Expired • Incorrect Response • Sending Error • Sent

Sent Date	This value displays the date when a signature request is sent to the customer Format – MM/DD/YYYY
Received Date	This value displays the date when the signature request is received and validated Format – MM/DD/YYYY
Cancelled Date	This value displays the date when the worker cancels a customer's signature request Format – MM/DD/YYYY
Recent Unsuccessful Date	This value displays the date when the signature request is received but failed validation and has a status of Incorrect Responses. In the case of multiple incorrect responses, the most recent incorrect response date will be reported. An incorrect response will be reported for electronic signature requests even if it is received/expired or cancelled later Format – MM/DD/YYYY
Expired Date	This value displays the date when the signature request for the customer has expired Format – MM/DD/YYYY

2.3 Report Locations

Global: Reports

Local: On Request

Task: Administrative

Title: Electronic Signature Request Dashboard

Description: Report containing detailed information about Electronic Signature requests that were expired or received only within last 14 days and sent in last 3 days.

Global: Reports

Local: Scheduled

Task: Administrative

Frequency: Monthly, at the first business day of the month

Title: Electronic Signature Request Management Report

Description: Report containing summary and detailed information for all electronic signature request present for a particular month.

2.4 On Request Report Filters

Electronic Signature Request Dashboard

Organization Level	Worker ID	Unit	Office
County			
Los Angeles	19AS0000CC	1I0	002 Glendale
	19AS00003E	1K	003 Pasadena
	19DCC9GH03	02 - Cal-Learn Unit	004 El Monte (San Gab. V. Serv. Center)
	19DCCPGK04	2C - GAIN Unit	005 Belvedere
	19DCCDTGF02	2E - GAIN Unit	006 Cudahy
	19DCCDTGF09	2Z - GAIN Unit	007 South Special
	19DCXM0102	3AB	008 Southwest Special
	19DCXM0108	3AC	010 Wilshire Special Office
	19DCXO060A	3AD	011 East Valley
	19DCXO060B	3AE	012 Exposition Park Family Service Center

1. Migrate Electronic Signature Request Report Parameters and configuration to CalSAWS.


Report Filters:

- **Organization Level:**
 - Worker ID
 - Unit
 - Office
 - County (Defaults to User assigned County)

2.5 Counties Impacted

No change to current county entitlement configuration.

3 SUPPORTING DOCUMENTS

Number	Functional Area	Description	Location / Attachment
1	Reports	Electronic Signature Request Report Mockup	QLIK Sense Hub / Streams / Reports Teams Design
2	Reports	Electronic Signature Request Management Report Mockup	 Electronic Signature Request M

4 REQUIREMENTS

4.1 Project Requirements

REQ #	REQUIREMENT TEXT	How Requirement Met
2.24.4.4	The LRS shall include ad hoc capabilities that allow COUNTY-specified Users to create multiple ad hoc reports simultaneously, as specified by COUNTY.	This SCR is migrating existing reports as needed by the counties.

5 OUTREACH

N/A

6 APPENDIX

6.1 Examples of Report Scenarios

6.1.1 Electronic Signature Request Dashboard

Example	Document Type	Signature Capture Type	Signature Capture Value	Expired (within last 7 days)	Expired Date	Received (within last 7 days)	Received Date
1	SAWS 2 PLUS	Text	4422847720				12/07/2020
2	CF 37	IVR	6613410926			Y	12/16/2020
3	IVR 100	Text	isabel@yahoo.com				12/08/2020
4	NA 1273	E-mail	ibarny@armc.sbccounty.gov	Y	12/19/2020		
5	SAWS 2A SAR	E-mail	ibarny@armc.sbccounty.gov		12/07/2020		
6	CW 2.1Q/2.1NA	E-mail	9098438522			Y	12/21/2020

Example of Report Run Date 12/21/2020

- Example #1: Document Type is SAWS 2 PLUS. Signature Capture Type is Text and the system assigned Signature Capture Value is 422847720. Record was received on 12/07/2020.
- Example #2: Document Type is CF 37. Signature Capture Type is IVR with a system assigned Signature Capture Value of 6613410926. Record was Received within the last 7 days of the report period on 12/16/2020.
- Example #3: Document Type is IVR 100. Signature Capture Type is Text with a system assigned Signature Capture Value of isabel@yahoo.com. Record was received on 12/08/2020.
- Example #4: Document Type is NA 1273. Signature Capture Type is E-Mail and system assigned Signature Capture Value of ibarny@armc.sbccounty.gov. The request Expired within the last 7 days of report period on 12/19/2020.
- Example #5: Document Type is SAWS 2A SAR. Signature Capture Type is E-Mail with a system assigned Signature Capture Value of ibarny@armc.sbccounty.gov. The request Expired on 12/07/2020.
- Example #6: Document Type is CW 2.1 Q/2.1NA. Signature Capture Type is E-Mail with a system assigned Signature Capture Value of 9098438522. Record was Received on the last day of the report period on 12/21/2020.
 - Although the type is email and the value is a number, this example is pulled from real data in the C-IV production report. This example reflects that these apparently visually unequal data scenarios do exist.

6.1.2 Electronic Signature Request Management Report

Example	Signature Method	Current Status	Sent Date	Received Date	Cancelled Date	Recent Unsuccessful Date	Expired Date
1	CW/CF e-Sign	Received	11/06/2020	11/06/2020			
2	CW/CF e-Sign	Expired	11/25/2020				11/28/2020
3	Check to Sign	Already Received	11/03/2020				
4	Check to Sign	Received	11/03/2020	11/03/2020			
5	Check to Sign	Cancelled	11/03/2020	11/03/2020/	11/03/2020		
6	CW/CF e-Sign	Expired	11/09/2020			11/09/2020	11/12/2020

- Example #1: Signature Method is CW/CF e-Sign and has been Received. Here we see both the Sent and Received Date as 11/06/2020.
- Example #2: Signature Method is CW/CF e-Sign and the Request has Expired. The request was Sent on 11/25/2020 and it Expired on 11/28/2020.
- Example #3: Signature Method is Check to Sign and has was Already Received (a duplicate) the Request was Sent on 11/03/2020.
- Example #4: Signature Method is Check to Sign and has been Received. The Request was Sent and Received on 11/03/2020.
- Example #5: Signature Method is Check to Sign and the Request has been Cancelled. In fact, it was Sent, Received and Cancelled all the same day.
- Example #6: Signature Method is CW/CF e-Sign and has Expired. The Request was Sent on 11/09/2020. There was an attempt to return the information but was Unsuccessful on 11/09/2020. With no successful file, it Expired on 11/12/2020.

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-225634

Update PB00CH204, PB00E182, and PO19C436 to
Look for New MC Reminder Notice

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Pramukh Karla
	Reviewed By	Raj Devdi

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
03/04/2021	1.0	Original	Pramukh Karla

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2.3	Batch – Update Transferred Forms Email Notification Batch Job (PO19C436)	6
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2.3.4	Key Scheduling Dependencies.....	6
2.3.5	Counties Impacted	6
2.3.6	Data Volume/Performance.....	6
2.3.7	Failure Procedure/Operational Instructions.....	7

1 OVERVIEW

The purpose of this change is to Update the batch Discontinuance Sweep job to look for CSF 164 form instead of old MC Reminder Notice form.

1.1 Current Design

The batch MC Discontinuance Sweep job (PB00CH204), Non-MAGI Discontinuance Sweep job (PB00E182), and Transferred Forms Email Notification Sweep Job (PO19C436) are looking for old MC Reminder Notice form. With SCR CA-215031 MC Reminder Notice form has been replaced with CSF 164 form.

1.2 Requests

Update PB00CH204, PB00E182, and PO19C436 to look for new CSF 164 form instead of old MC Reminder Notice form.

1.3 Overview of Recommendations

1. Update batch MC Discontinuance Sweep job (PB00CH204) to look for new CSF 164 form instead of old MC Reminder Notice form.
2. Update batch Non-MAGI Discontinuance Sweep job (PB00E182) to look for new CSF 164 form instead of old MC Reminder Notice form.
3. Update Transferred Forms Email Notification Sweep Jo (PO19C436) to look for new CSF 164 form instead of old MC Reminder Notice form.

1.4 Assumptions

N/A

2 RECOMMENDATIONS

2.1 Batch – Update Batch MC Discontinuance Sweep Job (PB00CH204)

2.1.1 Overview

The MC Discontinuance Sweep batch job (PB00CH204) checks if a MC Reminder Notice has been sent out. With SCR CA-215031 MC Reminder Notice has been replaced with CSF 164 form.

2.1.2 Description of Change

- 1) Modify PB00CH204 Batch trigger to look for CSF 164 form instead of old MC Reminder Notice.

2.1.3 Execution Frequency

N/A

2.1.4 Key Scheduling Dependencies

N/A

2.1.5 Counties Impacted

All 58 counties.

2.1.6 Data Volume/Performance

N/A

2.1.7 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate transmission errors and failures and determine the appropriate resolution (i.e., manually retrieving the file from the directory and contacting the external partner if there is an account or password issue, etc...)

2.2 Batch – Update Non-MAGI Discontinuance Sweep Job (PB00E182)

2.2.1 Overview

The Non-MAGI Discontinuance Sweep batch job PB00E182 checks if a MC Reminder Notice has been sent out. With SCR CA-215031 MC Reminder Notice has been replaced with CSF 164 form.

2.2.2 Description of Change

2) Modify PB00E182 Batch trigger to look for CSF 164 form instead of old MC Reminder Notice.

2.2.3 Execution Frequency

N/A

2.2.4 Key Scheduling Dependencies

N/A

2.2.5 Counties Impacted

All 58 counties.

2.2.6 Data Volume/Performance

N/A

2.2.7 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate transmission errors and failures and determine the appropriate resolution (i.e., manually retrieving the file from the directory and contacting the external partner if there is an account or password issue, etc...)

2.3 Batch – Update Transferred Forms Email Notification Batch Job (PO19C436)

2.3.1 Overview

The Transferred Forms Email Notification Sweep batch job PO19C436 checks if a MC Reminder Notice has been transferred to Self Service Portal and sends out an email if the customer is opted in for E-Notification. With SCR CA-215031 MC Reminder Notice has been replaced with CSF 164 form.

2.3.2 Description of Change

3) Modify PO19C436 Batch trigger to look for CSF 164 form instead of old MC Reminder Notice.

2.3.3 Execution Frequency

N/A

2.3.4 Key Scheduling Dependencies

N/A

2.3.5 Counties Impacted

All 58 counties.

2.3.6 Data Volume/Performance

N/A

2.3.7 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate transmission errors and failures and determine the appropriate resolution (i.e., manually retrieving the file from the directory and contacting the external partner if there is an account or password issue, etc...)

CalSAWS

California Statewide Automated Welfare System

Design Document

SCR #CA-225846 – Update CalSAWS application
to enable ForgeRock session management

CalSAWS	DOCUMENT APPROVAL HISTORY	
	Prepared By	Sumeet Patil
	Reviewed By	

DATE	DOCUMENT VERSION	REVISION DESCRIPTION	AUTHOR
03/24/2021	1.0	Initial version	Sumeet P.

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DRAFT

1 OVERVIEW

The purpose of this document is to summarize the changes required in CalSAWS application to maintain the application session with ForgeRock.

1.1 Current Design

The ForgeRock session for an authenticated user in CalSAWS application timesout after 20 mins of inactivity within ForgeRock.

1.2 Requests

The CalSAWS application should sync the user activity between application session and ForgeRock session. This is required to support the activity of a user across multiple applications integrated with ForgeRock for authentication and Access.

1.3 Overview of Recommendations

The recommendations are as follows –

1. Update the CalSAWS session management architecture to extend the ForgeRock session. This will prevent the ForgeRock session from getting timed out.
2. The ForgeRock session will be timed out explicitly if the CalSAWS session is invalidated.

1.4 Assumptions

1. CORS (Cross Origin Resource Sharing) is enabled in ForgeRock to allow AEM to be accessed through the reverse proxy server.

2 RECOMMENDATIONS

2.1 CalSAWS Architecture updates

1. Update the CalSAWS session management architecture to extend the ForgeRock session. The CalSAWS global JSP templates will be updated to extend the ForgeRock session. This will ensure the ForgeRock session does not get timed out after 20 mins.
2. A Java EE Session Listener will be added to the CalSAWS application which will explicitly logout the ForgeRock session if the CalSAWS session is invalidated (either via explicit logout, or timeout).

DRAFT

CalSAWS

California Statewide Automated Welfare System

Design Document

CA-225876

Batch job updates for C-IV Counties identified
during Batch Regression Test

CalSAWS	DOCUMENT APPROVAL HISTORY	
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1 OVERVIEW

1.1 Current Design

During Batch Regression Test, several batch jobs were identified as not running for C-IV counties due to missing BPCR/BSCRs or Los Angeles County specific logic that needs to be updated to work for all counties.

1.2 Requests

Update specified Batch jobs to run for the appropriate counties.

1.3 Overview of Recommendations

Update the following Batch jobs to run for the specified counties:

1. IEVS Disposition: PB00C993D
2. IEVS SAVE: PIXXC504D/PIXXC544
3. Eligible Child: PO33E704/PO33E705 and PO36E704/PO36E710
4. Head Start: PO36E705/PO36E711
5. WDTIP: PIXXE818/PIXXE817

1.4 Assumptions

1. Interface Partner Testing for the following FTP jobs will be conducted with DDID 1979.
 - a. PO33E705
 - b. PO36E710
 - c. PO36E711
 - d. PIXXE817
 - e. PIXXC544

2 RECOMMENDATIONS

2.1 IEVS Disposition Batch

2.1.1 Overview

Update the Income Eligibility and Verification System (IEVS) Disposition Batch (PB19C993) to run for all counties in CalSAWS.

2.1.2 Description of Change

1. Rename PB19C993 to be a '00' job.
2. Update batch job to use CountyCodeList to determine which counties the job should run for.
3. Create a BPCR to update the CountyCodeList property to include all 58 counties.
4. Create BSCR to schedule the batch jobs for all counties.

2.1.3 Execution Frequency

No change. This job runs daily excluding Sundays and holidays.

2.1.4 Key Scheduling Dependencies

No change.

2.1.5 Counties Impacted

All Counties

2.1.6 Data Volume/Performance

Approximately 500 to 2000 will be processed daily for all 58 counties. Note that the number of records processed may vary.

2.2 IEVS SAVE Reader

2.2.1 Overview

Update IEVS SAVE Reader job (PIXXC504) to run for all 57 Migration counties in CalSAWS.

2.2.2 Description of Change

1. Update the IEVS SAVE Reader (PIXXC504) and SAVE Inbound FTP (PIXXC544) to run for all 57 Migration counties.
2. Create BSCR to schedule the batch jobs mentioned above for all 57 Migration counties.

2.2.3 Execution Frequency

Schedule the batch jobs for the Migration counties to run daily business days (same as PI19C504), excluding Sundays and holidays.

2.2.4 Key Scheduling Dependencies

Predecessor: PIXXC544 – SAVE Inbound FTP

2.2.5 Counties Impacted

All Counties

2.2.6 Data Volume/Performance

Approximately 500 to 2000 will be processed daily for all 58 counties. Note that the number of records processed may vary.

2.2.7 Interface Partner

IEVS

2.2.8 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate transmission errors and failures and determine the appropriate resolution (i.e., manually retrieving the file from the directory and contacting the external partner if there is an account or password issue, etc.).

2.3 Eligible Child Interface (Riverside County and San Bernardino County)

2.3.1 Overview

Update the Eligible Child interface jobs (PO33E704/PO33E705 and PO36E704/PO36E710) to run for Riverside County and San Bernardino County.

2.3.2 Description of Change

1. Activate the PO33E704 and PO36E704 jobs to run for Riverside and San Bernardino Counties.
2. Activate the associated outbound FTP jobs (PO33E705 and PO36E710).
3. Configure FTP outbound jobs to run for CalSAWS.
4. Rename Interface Name and Interface File Name properties in CalSAWS to WDP.CIV.ELIGIBLE.CHILD.G0001V00.

2.3.3 Execution Frequency

Schedule PO33E704, PO33E705, PO36E704 and PO36E710 to run annually on the first business day in November.

2.3.4 Key Scheduling Dependencies

1. Schedule the following:
 - a. PO33E704 and PO36E704 to run following the Batch EDBC
 - b. PO33E705 to run after PO33E704
 - c. PO36E710 to run after PO36E704

2.3.5 Counties Impacted

Riverside County and San Bernardino County.

2.3.6 Data Volume/Performance

No anticipated impacts to Data Volume/Performance.

2.3.7 Overview

Update the San Bernardino County Head Start jobs PO36E705/PO36E711 to run in CalSAWS.

2.3.8 Interface Partner

See Assumption 1.4.1.

2.3.9 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate failures and determine the appropriate resolution.

2.4 Head Start Interface (San Bernardino County)

2.4.1 Description of Change

1. Activate the PO36E705 job to run for San Bernardino County.
2. Activate the associated FTP job PO36E711.
3. Configure the FTP outbound job to run in CalSAWS.
4. Rename Interface Name and Interface File Name properties for CalSAWS to WDP.CIV.HEAD.START.G0001V00.

2.4.2 Execution Frequency

Schedule PO36E705 and PO36E711 to run Bi-Monthly starting January.

2.4.3 Key Scheduling Dependencies

Schedule PO36E711 to run following PO36E705.

2.4.4 Counties Impacted

San Bernardino County.

2.4.5 Data Volume/Performance

Approximately 8000 records are processed each run.

2.4.6 Interface Partner

See Assumption 1.4.1.

2.4.7 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate failures and determine the appropriate resolution.

2.5 Migrate C-IV WDTIP Inbound Batch Job for Migration Counties

2.5.1 Overview

Migrate the C-IV Welfare Data Tracking Implementation Project (WDTIP) batch job which processes the inbound WDTIP active program monthly report for the 57 Migration Counties.

2.5.2 Description of Change

1. Create a BSCR to schedule WDTIP Reader batch job PIXXE818 and its associated FTP Batch job PIXXE817.

2.5.3 Execution Frequency

Monthly – 1st business day

2.5.4 Key Scheduling Dependencies

PIXXE817 - Successor: PIXXE818, Predecessor: Super triggers

PIXXE818 Successor: None, Predecessor: PIXXE817

2.5.5 Counties Impacted

57 Migration Counties

2.5.6 Data Volume/Performance

N/A

2.5.7 Failure Procedure/Operational Instructions

Batch Support Operations staff will evaluate transmission errors and failures and determine the appropriate resolution (i.e., manually retrieving the file from the directory and contacting the external partner if there is an account or password issue, etc.)

Requirements

3 PROJECT REQUIREMENTS

REQ #	REQUIREMENT TEXT	How Requirement Met
CAR-1177 2.16.4.6	The LRS shall include the ability to complete a mass update without intervention by COUNTY-specified Users if all impacted cases can be identified and all required information is available.	Batch functionality updated to run for specified counties.