

Post Collection Processing – DRF1

Current anomalies requiring patches as of 11/19/2020

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Current DRF1 anomalies requiring patches (1 of 2)

Pre-decisional – For Discussion Purposes Only

Issue ID	Title	Description	Impact	Notes
1	Standard age calculation is incorrect when month and day is missing from the record.	Currently calculation is adding one year. Current standard age is needed for person matching for DRF2 to eliminate duplicates.	All States ~750,476 IDs	Low complexity.
2	Invalidate HU data when associated with GQ Enumeration	When a person responds by self response or NRFU, whose data is also in GQE, DRPS should process GQE response and ignore response from HU.	All States 1,146 records for state NM reported	Medium complexity
7	GQ type code is incorrectly passed to DRPS	There are 1526 IDs where GQ type is 999 (GQ unidentified) in DRPS, but they all have GQ type in GEO. It was incorrectly passed to DRPS.	1,526 records nationwide (6 states not impacted)	Medium complexity
9	Problem with flagging of NRFU and paper resends	When DRPS receives the record twice, it should keep the recent one. The data was resent to correct output issues. If this issue isn't correct, the most accurate record may not be selected.	All States 37000 reported in one state	Medium complexity
24	Mismatch between GEO and DSSD to identify survivor ID - creating conflict for DRPS to identify and correctly process duplicates	If the issue isn't fix there is a potential of overcount. MAFID A and B will be processed instead of identifying MAFID A or B.	All States 272 records reported in 4 states	High complexity
37	Data-Defined Person (DDP) Mismatch	DDP mismatch between DSSD and DRPS coding. Valid Data-Defined Person is one with sufficient information for processing. Related to special characters provided in the name fields	All States 4 records reported in 2 states	Medium complexity

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Current DRF1 anomalies requiring patches (2 of 2)

Pre-decisional – For Discussion Purposes Only

Issue ID	Title	Description	Impact	Notes
39	GQ Rework	There are GQs where only one person has rework flag yes. This was supposed to be an indication that the GQ (as a whole) was reworked. This indicator invalidates all persons at the GQ who do not have rework indicated. DSSD QC has indicated there was only one GQ flagged for rework. If not corrected this may result in undercount persons.	All States 16,813 records reported for all states	Medium complexity
73	Person records without associated housing unit records	For paper responses where respondent doesn't complete the housing unit questions, but does complete person level questions, DRPS must generate housing unit record for the persons. There was coding error associating person level data to a correct state. If this error isn't corrected demographic data for persons will be missed and may impact the final pop counts.	States 1 to 9. ~46 000 reported in 3 states	High complexity
55	Coverage Improvement Response with No Persons	When DRPS receives CI reponse without person data, these cases should be flagged ineligible and original response should be processed.	Potentially impacting all states 1 records reported in Florida	Medium complexity
58	NRFU Reinterview records in fail file	If there is one <u>reinterview</u> response in fail file, but two <u>reinterview</u> responses only one response should be flagged for further processing.	All States 7 records reported in NJ	Low complexity
71	Error in exception handling of brother/sister relationship variables set	Fix required to identify the correct relationship variable during exception handling	Impacting all states when applying the patch	Medium complexity
61*	GQ Population Reconciliation	DRPS uses the count of ICQs scanned into FOCUS/UTS to determine if DRPS has all records accounted for. There was an issue with how UTS calculated this count for special GQ records, which is causing DRPS to generate records erroneously to make up the difference.	All States 45,000 reported in California and 18,000 in Texas	Medium complexity
40*	Survivor MAFIDs missing from universe file	For ~300 records survivor IDs were chosen incorrectly and were not included in the universe file sent to DRPS. If not fixed, the records will be excluded in CUF.	<u>Approx</u> 300 records	Medium complexity

* Level of effort determination still in progress

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Comprehensive Patch Development, Test, and Implementation Strategy

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- Verify requirement specifications with DSSD and POP
- Prepare test data, test scenarios and verification scripts
- Develop individual patches for each anomaly
- Identify correct sequence of patch implementation for consolidated patch
- During development of each individual patch involve DSSD and POP for code review and initial data output verification
- Flow individual patches to project test for testing and verification. Involve DSSD and POP for testing and verifying data output
- Consolidate all patches in a proper sequence for execution into comprehensive patch
- Test comprehensive patch in project test and program test
- Verify data output results and ensure sequencing is correct. Involve DSSD and POP for final data output verification
- Deploy and run the patch nationwide in production after all verifications are completed
- Deliver results to POP and DSSD for final review

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Comprehensive Patch Development, Test, and Implementation Timeline

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Total number of anomalies to be fixed – 13 (as of 11/19/20)

Task	#/Duration	Start Date	End Date	
Requirements Validation	3 days	11/18/20	11/20/20	
Test Data Preparation	3 days	11/19/20	11/21/20	
Development	10 days	11/19/20	11/29/20	
Project Test				
Individual patches		11/22/20	11/29/20	Development will flow individual patch fixes to project test over 10 days.
Consolidated patch for implementation	5 days	11/30/20	12/4/20	Project test will receive the comprehensive patch for all fixes on day 11.
Program Test	5 days	12/1/20	12/5/20	Program test will start on 12th day to test comprehensive patch.
Patch implementation in Production	2 days	12/6/20	12/7/20	
Subject Matter Expert Review (POP/DSSD)	7 days	12/8/20	12/14/20	

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Comprehensive Patch Timeline Compared to Re-plan Schedule

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Replan Schedule		Comprehensive Patch Timeline	
DRF1 Complete	11/24/20	DRF1 Complete	12/14/20
DRF2 Complete	12/13/20	DRF2 Complete (assuming 18 days per <u>replan</u> schedule)	1/1/21
CUF Complete	12/27/20	CUF Complete (assuming 14 days per <u>replan</u> schedule)	1/15/21
Produce Review and Verify Resident Population and FACO Counts (12.2/12.3)	1/7/21 Or 1/18/21	Produce Review and Verify Resident Population and FACO Counts (12.2/12.3) (assuming 11 or 22 days per <u>replan</u> schedule)	1/26/21 Or 2/6/21

20 days added to DRF1 processing which impacts overall end date by 20 days

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Considerations and risks

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- Strategy applies to anomalies identified as of 11/19/20
- POP will complete their initial review by 11/21 and DSSD will complete their initial review by 11/23
- If new anomalies are identified they will be tracked, assessed and additional time maybe required for comprehensive release
- Comprehensive patch will contain 13 individual patches. If the sequencing of patch deployment isn't executed properly may result in other data anomalies. Thus testing and verification of the comprehensive patch is critical to ensuring accurate DRF1 output for DRF2

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