HOME HEALTH CLAIM (HHAB) DEMO

Programs, jcl, files and doc provided:

MQA = Medicare Quality Assurance

**MQAPHHAB\_SCOPE.docx**

Description of model COBOL program(s) and data developed for Quoter to convert into a Cloud-digestible system, to show feasibility of the proposed conversion process.

Medicare Home Health claim editing was chosen as presenting typical and varied COBOL language syntax common in many CMS mainframe systems. Although edits, some HHA claims are updated for downstream users, hence ability to perform the changes is essential for Cloud migration.

**MQAPHHAB.TXT**

Home Health claim COBOL edit program assembles and simplifies code clipped from the production modules which support all Medicare claim editing. All copybooks are hard-coded into the program(s): no copy library is needed for support.

**HHAB\_CLAIMS.BIN – Input file for MQAPHHAB**

Twenty-five Home Health claims downloaded as a \*.BIN binary file. Twenty-four were selected from production run of 07/29/2019; and one MAXCLAIM with all fields loaded: every trailer occurrence, and all 450 revenue trailers, on ten physical records. All PII has been scrubbed. The original claim PII data and the converted values are in an encrypted document PROD\_HHAB\_CRISSCROSS.docx which DEMO Quoter does not need. The MQAPHHAB essential split values were validated by comparing the production claims against the scrubbed claims, to assure correct logic implementation. The file is in EBCDIC format, as are all CMS claim data files. The sort order is essential for correct function of all CMS COBOL claim processing systems.

**MQANHCPC.TXT**

Production program MQAMHCPC was converted to a stand-alone version for demo. The sub-program is called by MQAPHHAB to retrieve HCPC (Health Care Provider Code) reference information, to validate usage on claim revenue lines. MQANHCPC reads a file created as a linked list (by a production MQA program) and cuts access time to half or less what a VSAM read or SEARCH ALL access costs. Use of this utility reduces MQA runtime by 2 hours or more for a typical 6 million claim day. Inclusion in the demo also tests Cloud system ability to access ‘external’ reference files, which are widely used in CMS production.

**HCPC\_LINKED\_LIST.BIN**

Linked list file input for subprogram MQANHCPC. The list is created from HCPC file(s) accompanying CWF software releases, by CMS program MQAXHCPC, which is not a part of the design exercise.

**DDSDDCHK.TXT**

An ASSEMBLER utility which accesses a job DDNAME file control block to retrieve the filename into the program for metadata reporting and verification of generation database sequence and uniqueness. Used throughout CMS production: Cloud version must mimic the function to allow Receipt and Control system to validate incoming host file metadata for audit trail.

**MQAPR01H.TXT**

JCL for mainframe job run. Demo must parallel use of parameters on EXEC line, to drive date, milieu, and TEST ON/OFF functionality of program.

**MQAHRIC5.TXT**

Although claim copybooks are embedded in the program(s), this is the MQA version of a Home Health base claim. It contains all trailers, and up to 45 revenue lines. If there are more than 45 revenue lines in a logical claim, additional follow-on claims are written with only revenue lines attached, until all revenue lines have been written. (Follow-on claims have a different format, see MQAHTRL5 below.) There can be up to ten physical records for one logical Part A claim.

In production a 49-byte leader is prepended to each claim by Receipt and Control. All claims have an internal error-code array for capture of posted errors; and ONLN Before – After data lines that provide snapshots of the Master Beneficiary Database before and after the claim updates are applied, for MQA Utilization editing. These fields accompany claims until they are prepared for write in database-compatible format, at which time the header and ONLN data are taken out, and posted errors are converted to ERROR-TRAILER lines, shrinking claims.

NB: Hence these test claims cannot be written to the databases without reformat. Reformat makes extensive use of COBOL offset (X:Y) syntax, which is tested in some of the Demo edits.

**MQAHTRL5.TXT**

Follow-on claim format: base claim with correct segment number (up to 9 follow-ons), revenue trailers only, and count of revenue lines on this record. There is no need for the ONLN and error array fields; only the base claim needs those.

**MQAPHHAB\_TEST\_RUN.TXT**

MQAPHHAB output DISPLAYs from run in TESTING mode: e.g. EXEC parm S1 was changed to S\* to invoke TESTING. Entry to key blocks of edit code is captured, with significant data on HCPC seen, errors seen, error order before and after severity rank, etc.

In non-test mode, only the I/O filenames, date, and summary counts are DISPLAYed.