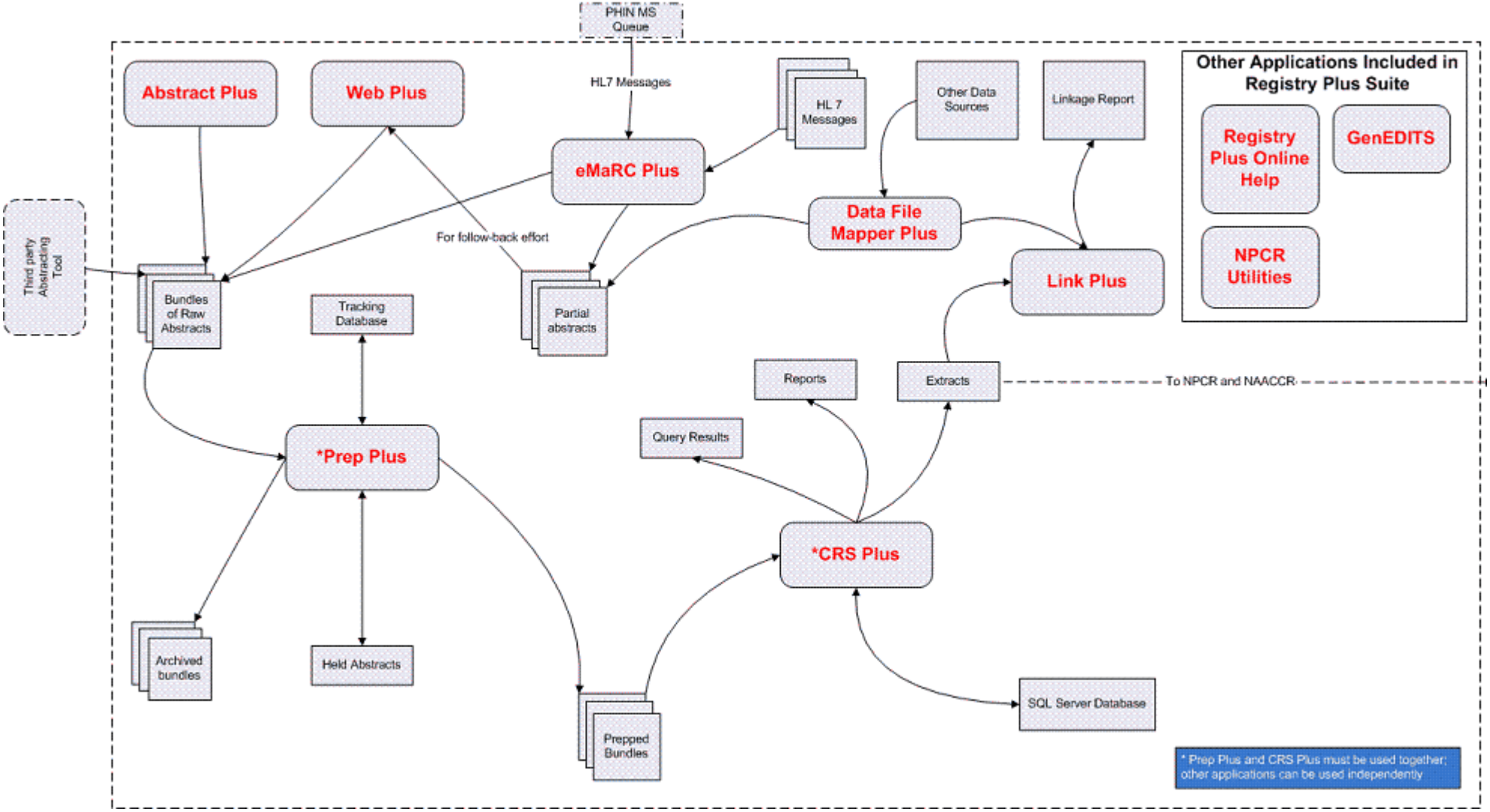
Centers for Disease Control and Prevention – National Program of Cancer Registries

Registry Plus™ Software for Central Cancer Registries: Data Flow Diagram



This is a dataflow diagram of the Registry Plus™ suite of publicly available free software programs for collecting and processing central cancer registry data.

The process starts when the central registry receives a bundle of raw electronic cancer abstracts. These bundles can come from any or all of the following sources: Abstract Plus, Web Plus, eMaRC Plus, or a third-party abstracting tool.

Prep Plus, a program for the central registry that receives North American Association of Central Cancer Registries (NAACCR)-formatted abstracts from Abstract Plus or any hospital-based software that can produce the NAACCR record format, receives these bundles and prepares them for incorporation into the central

database. Prep Plus keeps archives of these bundles as they are processed. Prep Plus allows some abstracts to be held for review by other users, and records the status of each abstract in the tracking database as it is processed. Processed abstracts are released from Prep Plus in bundles which are imported into CRS Plus.

CRS Plus stores the bundles of abstracts in a Microsoft® SQL Server database. Several reports run from the database, which also allows data to be queried and extracted for NAACCR and NPCR submissions.

Link Plus compares extracts created from the CRS Plus database to records generated from eMaRC Plus and Data File Mapper Plus to produce linkage reports.

eMaRC Plus identifies cancer pathology reports received in the HL7 format and converts them into abstracts in the NAACCR format. The HL7 reports can come from the PHINMS queue or from other sources. The abstracts generated from eMaRC Plus can be uploaded into Web Plus for follow-back with physicians.

Data File Mapper Plus creates NAACCR-formatted records from various data sources.

Other applications in the Registry Plus suite include Registry Plus Online Help, GenEDITS, and NPCR Utilities.

It is noted in the diagram that Prep Plus and CRS Plus must be used together, while the other Registry Plus programs can be used independently.