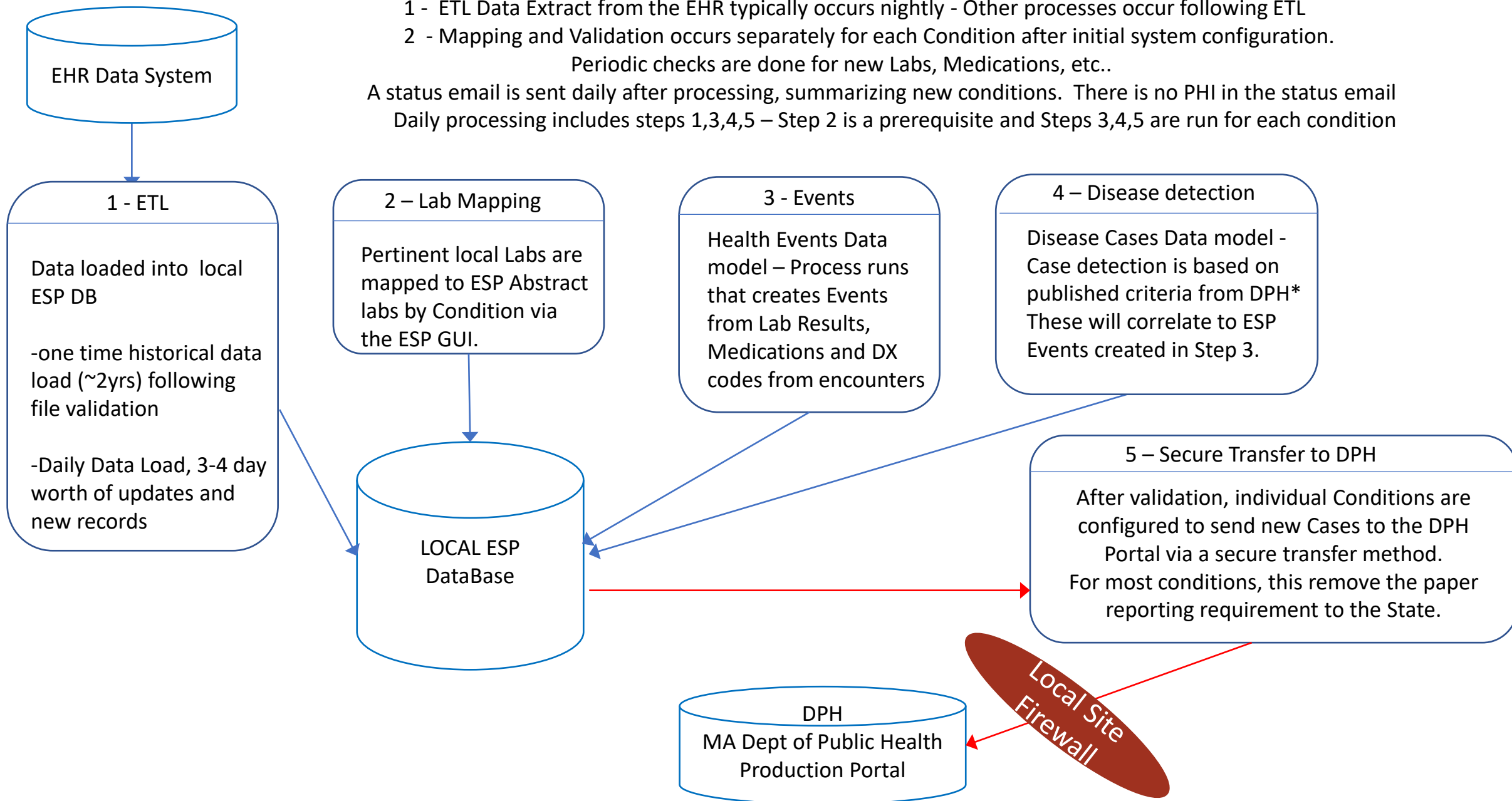


## ESP Notifiable Disease Detection Data Flow Diagram: EHR to ESP to DPH

- 1 - ETL Data Extract from the EHR typically occurs nightly - Other processes occur following ETL
- 2 - Mapping and Validation occurs separately for each Condition after initial system configuration.  
Periodic checks are done for new Labs, Medications, etc..

A status email is sent daily after processing, summarizing new conditions. There is no PHI in the status email  
Daily processing includes steps 1,3,4,5 – Step 2 is a prerequisite and Steps 3,4,5 are run for each condition



## ETL Process – For Notifiable Disease Detection, Daily ETL processing is highly recommended

Otherwise the system is sitting idle for several days and can take several days to process one batch,  
 If there is an issue it can take several days to resolve – daily processing allows us to see and fix issues quickly.

ETL File delivery can either be a Push type - External system drops the files on the ESP host  
 or a Pull type - ESP initiates a secure file transfer from a host accessible to the ESP Server.

Data Type	Extract Recommendation	ESP Filenaming convention	NOTES
Patients	Daily extract should contain all new Patients and updates to existing Patients.	epicmem.esp.mmddyyyy	Many Sites provide a full dump of all patients every day.
Providers Clinical and Facility	Daily extract of all Clinical and Facility providers	epicpro.esp.mmddyyyy	Many sites provide a full dump of all providers every day.
Visits	Daily extract of any new Encounters, these can include any of the following: dx codes, vitals, pregnancy information, etc.	epicvis.esp.mmddyyyy	Visits/Encounters will include vitals, height, weight, bmi, bp, and dx codes.
Prescriptions	Daily extract of all prescribed medications. Not filled, just written.	epicmed.esp.mmddyyyy	Include Start and Stop dates and refills if available.
Lab Results	Daily extract of all Labs with Results.	epicres.esp.mmddyyyy	Send Lab Results records once results are available/final.
Orders and Procedures	Daily dump of all Orders and Procedures	epicord.esp.mmddyyyy	Needed for Covid and other conditions that use respirators, ventilators, etc.