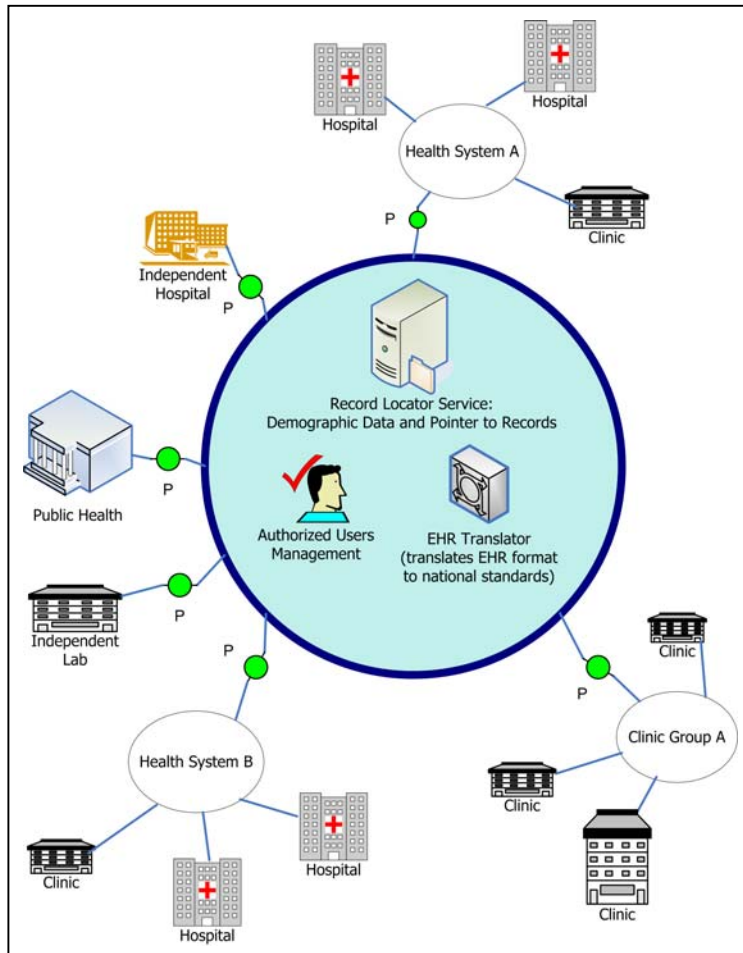


Complex Model of Health Information Exchange (page 11 from interim report)

Figure 2 shows a significantly more complex health information exchange that involves multiple participants. This type of health information exchange is consistent with a community-wide exchange intended to ensure that all health care providers treating a patient are capable of accessing the

Figure 2 – A Complex Model of Health Information Exchange



information necessary to provide appropriate treatment. The characteristics for this type of health information exchange are:

- Decentralized Data – Each organization maintains its own data on its own systems;
- User authorization and access is coordinated centrally;
- Patient identification is coordinated centrally through a record locator service that contains patients' demographic data and a pointer to the locations of patients' clinical data;
- Access to the electronic health record is limited to health information published to a front-end portal. The portals may be limited to such information as:
 - Medical history

- Medication history
- Continuity of care documents

As seen from the two examples, the number of participants, the amount and types of information exchanged, and the need for centralized coordinated administrative services can vary significantly between health information exchanges. This report is not recommending a particular model for a health information exchange, but rather presents the range of possibilities to aid in ensuring that the analysis of privacy and security issues is broad enough to encompass them.