

**Table 1. IIS Functional Standards, 2013-2018**

General considerations:

- A. These functional standards are intended to identify operational, programmatic, and technical capacities that all IIS should achieve by the end of 2018.
- B. Some standards are environmental, and can only be implemented in conjunction with the broader Department of Health or State/Local infrastructure. The Functional Standards are intended to reflect necessary functions, whether those functions are implemented by the IIS program or others.
- C. In some cases, current law or policy may preempt full implementation unless changed. In these instances, an unmet standard may serve as a suggestion for possible revisions to such law or policy.
- D. Metrics must capture IIS progress toward achieving the programmatic goals and functional standards in accurate and meaningful ways. CDC will define the metrics with input from immunization programs.

| <b>Programmatic Goals and Functional Standards</b>   |   |
|--|---|
| <b>1. Support the delivery of clinical immunization services at the point of immunization administration, regardless of setting.</b>                     |   |
| 1.1  | The IIS provides individual immunization records accessible to authorized users at the point and time where immunization services are being delivered.  |
| 1.2  | The IIS has an automated function that determines vaccines due, past due, or coming due (“vaccine forecast”) in a manner consistent with current ACIP recommendations. Any deficiency is visible to the clinical user each time an individual’s record is viewed. |
| 1.3  | The IIS automatically identifies individuals due/past due for immunization(s), to enable the production of reminder/recall notifications from within the IIS itself or from interoperable systems.  |
| 1.4  | When the IIS receives queries from other health information systems, it can generate an automatic response in accordance with interoperability standards endorsed by CDC for message content/format and transport.  |
| 1.5  | The IIS can receive submissions in accordance with interoperability standards endorsed by CDC for message content/format and transport.   |
| <b>2. Support the activities and requirements for publicly-purchased vaccine, including the Vaccines For Children (VFC) and state purchase programs.</b> |   |
| 2.1  | The IIS has a vaccine inventory function that tracks and decrements inventory at the provider site level according to VFC program requirements.   |
| 2.2  | The IIS vaccine inventory function is available to direct data entry users and can interoperate with EHR or other inventory systems.  |
| 2.3  | The IIS vaccine inventory function automatically decrements as vaccine doses are recorded.  |
| 2.4  | Eligibility is tracked at the dose level for all doses administered.  |
| 2.5  | The IIS interfaces with the national vaccine ordering, inventory, and distribution system (currently VTrackS).  |
| 2.6  | The IIS can provide data and/or produce management reports for VFC and other public vaccine programs.   |

| <b>Programmatic Goals and Functional Standards</b>  |   |
|---|---|
| <b>3. Maintain data quality (accurate, complete, timely data) on all immunization and demographic information in the IIS.</b>               |   |
| 3.1   | The IIS provides consolidated demographic and immunization records for persons of all ages in its geopolitical area, except where prohibited by law, regulation, or policy.   |
| 3.2   | The IIS can regularly evaluate incoming and existing patient records to identify, prevent, and resolve duplicate and fragmented records.  |
| 3.3   | The IIS can regularly evaluate incoming and existing immunization information to identify, prevent, and resolve duplicate vaccination events.   |
| 3.4   | The IIS can store all IIS Core Data Elements (see Appendix B).  |
| 3.5   | The IIS can establish a record in a timely manner from sources such as Vital Records for each newborn child born and residing at the date of birth in its geopolitical area.  |
| 3.6   | The IIS records and makes available all submitted vaccination and/or demographic information in a timely manner.  |
| 3.7   | The IIS documents active/inactive status of individuals at both the provider organization/site and geographic levels.   |
| <b>4. Preserve the integrity, security, availability and privacy of all personally-identifiable health and demographic data in the IIS.</b> |   |
| 4.1   | The IIS program has written confidentiality and privacy practices and policies based on applicable law or regulation that protect all individuals whose data are contained in the system.   |
| 4.2   | The IIS has user access controls and logging, including distinct credentials for each user, least-privilege access, and routine maintenance of access privileges.   |
| 4.3   | The IIS is operated or hosted on secure hardware and software in accordance with industry standards for protected health information, including standards for security/encryption, uptime and disaster recovery.  |
| <b>5. Provide immunization information to all authorized stakeholders.</b>  |   |
| 5.1   | The IIS can provide immunization data access to healthcare providers, public health, and other authorized stakeholders (e.g., schools, public programs, payers) according to law, regulation or policy.   |
| 5.2   | The IIS can generate predefined and/or ad hoc reports (e.g., immunization coverage, vaccine usage, and other important indicators by geographic, demographic, provider, or provider groups) for authorized users without assistance from IIS personnel. |
| 5.3   | With appropriate levels of authentication, IIS can provide copies of immunization records to individuals or parents/guardians with custodial rights.  |
| 5.4   | The IIS can produce an immunization record acceptable for official purposes (e.g., school, child care, camp).   |
| <b>6. Promote vaccine safety in public and private provider settings</b>  |   |
| 6.1   | Provide the necessary reports and/or functionality to facilitate vaccine recalls when necessary, including the identification of recipients by vaccine lot, manufacturer, provider, and/or time frame   |
| 6.2   | Facilitate reporting and/or investigation of adverse events following immunization.   |