

IIS Provider Onboarding Shared Services

AIRA Discovery Session
December 2018

Using Poll Everywhere

Interactive Audience Participation

Your participation in today's discussion is encouraged. We will be using Poll Everywhere to capture your anonymous feedback.



How do I participate?

1. From a computer or mobile browser, access: <https://pollev.com/bstratton>.
2. When a poll is displayed, submit your response(s) to the question.
3. We will solicit volunteers to discuss responses to poll questions.

To respond, from a computer or mobile browser, access:

<https://pollev.com/bstratton>



Poll Everywhere

Live Polling Question Preview

- **For Each Service:**

- How likely are you to use this service?
- How likely are your stakeholders (provider offices, EHR vendors, other stakeholders) to use the service?
- How do you see yourselves or others benefiting from the service?
- What do you like most about this service?
- How could this service be improved?
- How difficult would this be to implement in your jurisdiction?
- What would make it easier to implement?

- **Overall Questions:**

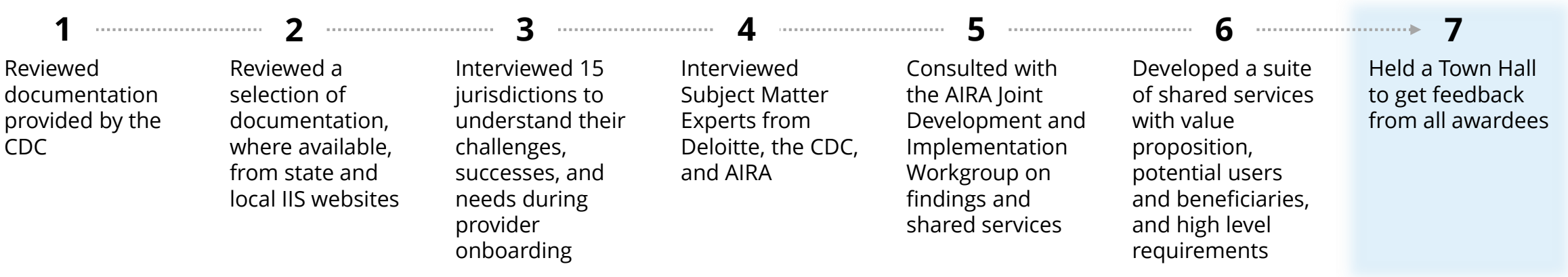
- Rank the different services in terms of your most desired service.
- What other services would you have liked to see?
- What other considerations should we take into account when developing onboarding shared services?

Purpose of the Town Hall

Background

CDC has been exploring possible shared, centralized services to effectively and efficiently onboard providers to the IIS. Over the last several months, CDC discussed challenges of the onboarding process and the types of shared services that could improve the process with several awardees and IIS vendors. With this input, CDC developed an initial list of potential shared services for the IIS community to consider. The Town Hall is an opportunity for awardees to learn more about the shared services, provide their input on the shared services, and to share their thoughts on any other services they would find useful

Our Approach



Potential Shared Services Offerings

Based on literature review, awardee interviews, SME discussions, and meetings with the CDC, the following shared services are the most likely to be helpful to improve provider onboarding



Central Document and Resource Library. Host onboarding documentation organized by jurisdiction on a public website that providers and vendors can easily access, reference, and use to understand requirements throughout the onboarding process with any jurisdiction.



Provider, EHR Vendor, and IIS Electronic Data Exchange Profiles. Create profiles on the shared services site of how organizations perform electronic data exchange to allow their partners to better prepare for onboarding. Content in profiles could include supported connection types, supported HL7 message types, etc.



Onboarding Training Modules. Provide self-guided training modules that walk through the “what” and “why” for specific core topics necessary for successful onboarding (such as “Establishing a Connection”).



Provider & Vendor Onboarding HL7 Message Help Desk. Develop and staff a Help Desk that gives providers and vendors access to real time support that can help them perform self-testing during initial construction and generation of their HL7 messages without involving IIS staff.



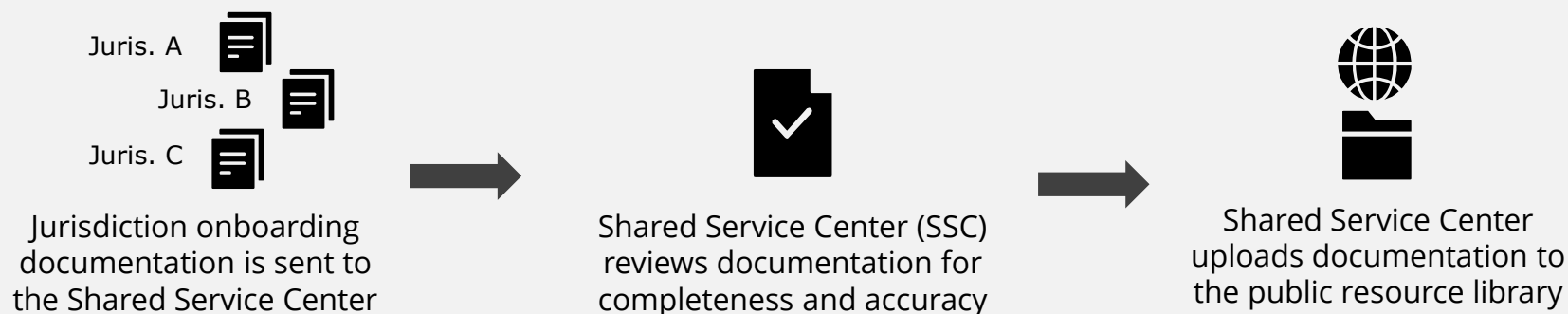
Multi-record Message Data Quality Testing Tool for EHRs. Offer providers and EHR vendors with a secure, web-based platform to analyze message quality from EHRs without intervention from IIS staff, similar to how IISes are able to use the MQE tool with their own systems.

Problem: Inaccessible, Hard to Find, or Out of Date Onboarding Documentation

Providers and vendors often do not have access to up to date or adequate documentation to help inform them of a jurisdiction's onboarding process. Instead, they rely on documents posted on the CDC's website, which do not account for jurisdiction variations. IIS staff then have to spend significant time during onboarding focusing on providing jurisdictional-specific documents and requirements to providers and vendors as well as educating providers and vendors on some of the basics of electronic data exchange.

Solution: Central Document and Resource Library

Create a centralized library with up-to-date onboarding documents for all IIS jurisdictions allowing easy access by vendors, providers, and other jurisdictions. In addition, provide a mechanism to illuminate jurisdictional differences



Users



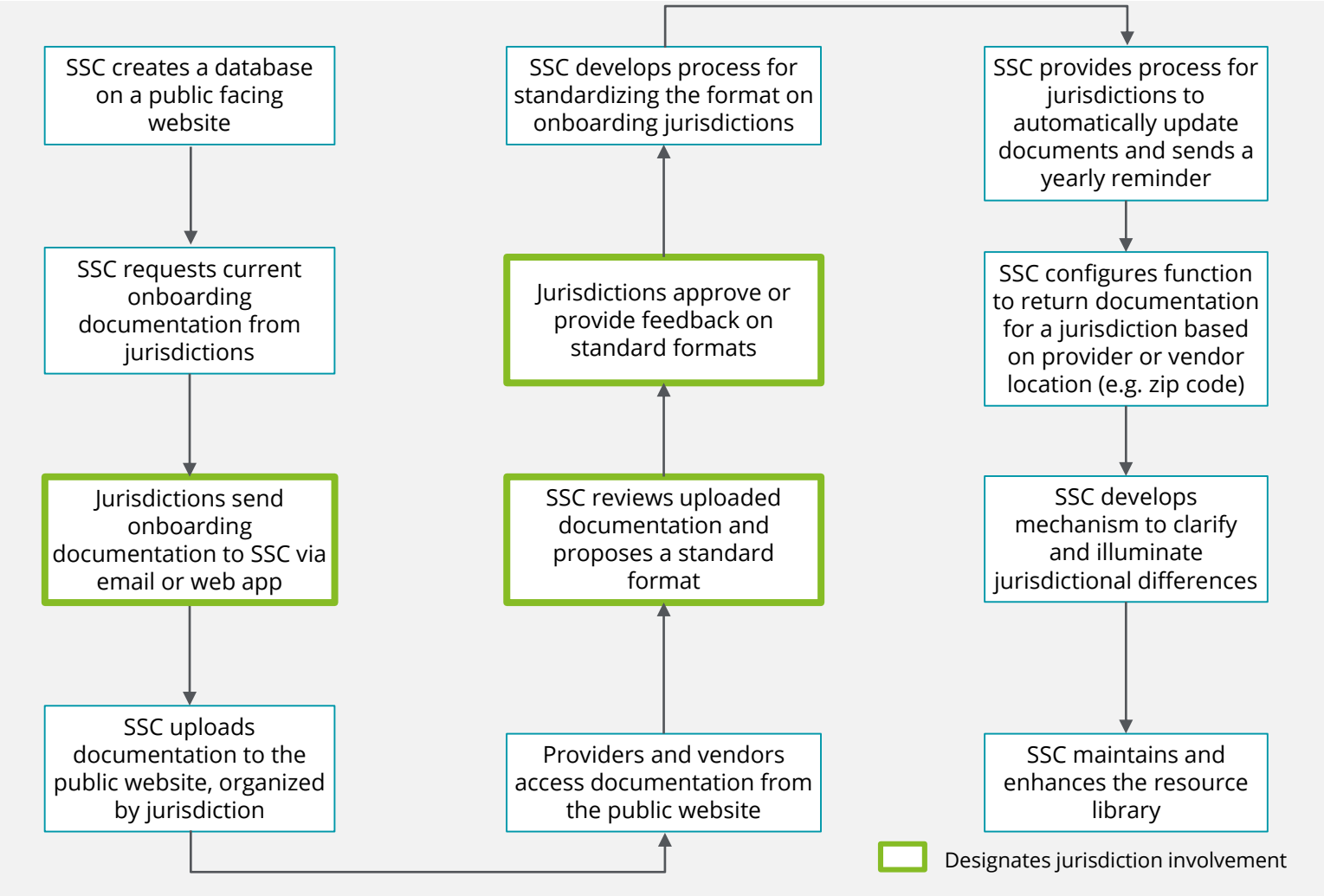
EHR Vendors



Providers



How to Use: Central Document and Resource Library



Expected Outcomes and Impact

- ✓ Decreases time spent by stakeholder groups going back and forth providing and confirming requirements, correct documentation, timelines, and expectations
- ✓ Puts documentation for each jurisdiction in the location that providers and vendors can rely on
- ✓ Increases IIS staff availability to focus on major challenges that come up during onboarding

Implementation Timeline and LOE

High Complexity Short Term	High Complexity Medium Term	High Complexity Long Term
Medium Complexity Short Term	Medium Complexity Medium Term	Medium Complexity Long Term
Low Complexity Short Term	Low Complexity Medium Term	Low Complexity Long Term



Problem: Working with Unknown Partners

The onboarding process is often delayed when an awardee, provider, or EHR vendor is not familiar with the onboarding processes and procedures of the other stakeholders. IIS staff dedicate a significant portion of time during onboarding to gather and clarify this information, which includes identifying POCs, confirming EHR versions, noting technical capabilities, etc.

Solution: Provider, EHR Vendor, and IIS Electronic Data Exchange Profiles

Create profiles of how organizations perform electronic data exchange to enable their partners to better prepare for onboarding; host profiles on a public website

Suggested Profile Attributes

EHR Vendor	Supported connection type & related costs Supported EHR releases HL7 messaging capabilities EHR upgrade timeline Supported HL7 versions Vendor support structure for providers POC for onboarding by position Publicly available provider organization relationships
Medium to Large Provider	Supported connection types Technical support structure within the organization Organization's EHR type EHR version by site POC for onboarding by position
IIS	Location of IIS Supported and preferred connection types Supported and preferred HL7 versions Implementation guide used POCs for onboarding

Users



EHR Vendors



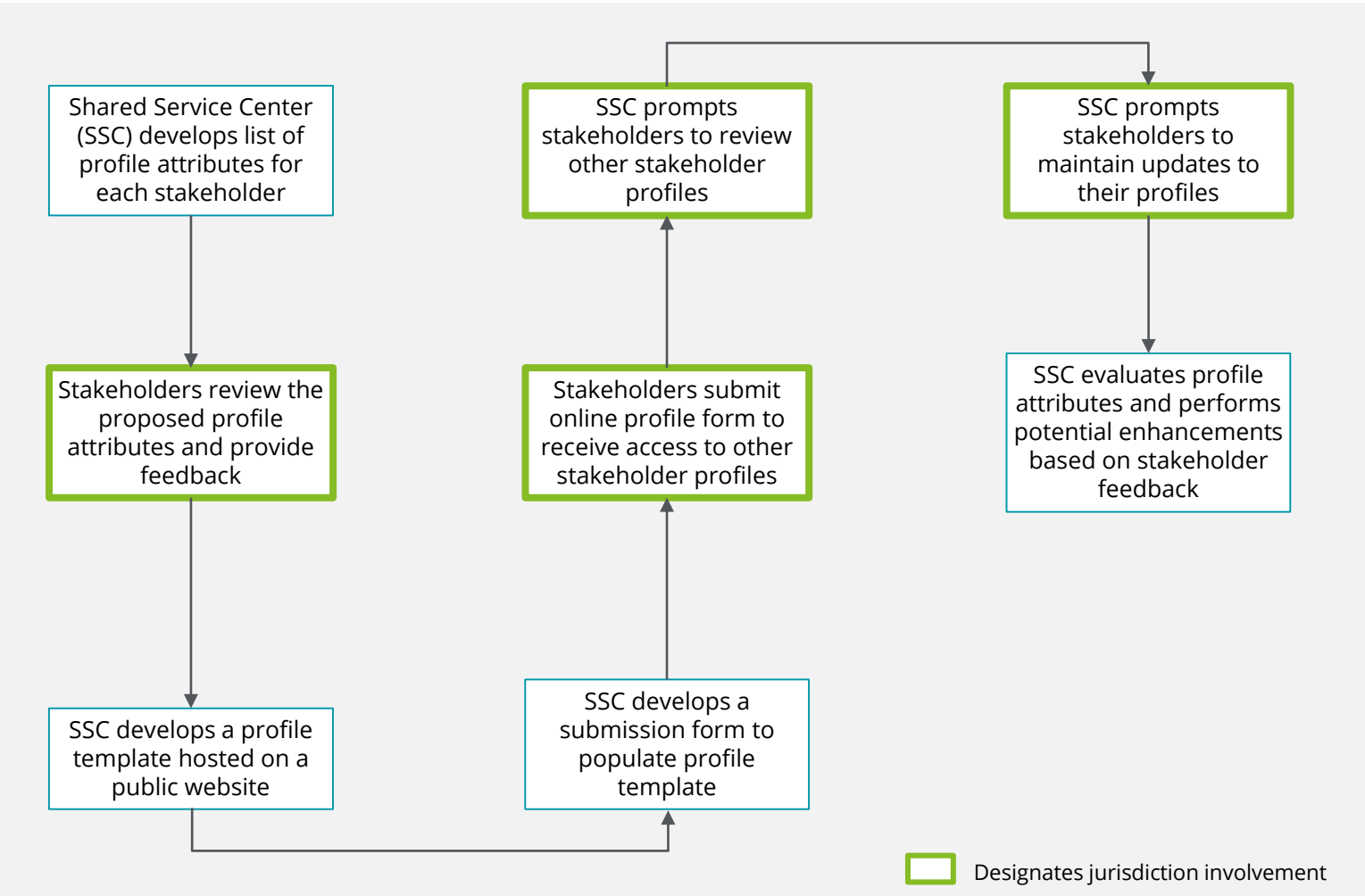
Providers



IIS Staff



How to Use: Provider, EHR Vendor, and IIS Electronic Data Exchange Profiles



Expected Outcomes and Impact

- ✓ Clearly identifies activities and requirements for participating in electronic data exchange that can be completed ahead of time, thus allowing partners to better prepare to work with each other prior to onboarding kick off and helping to eliminate common issues encountered during the initial steps of onboarding
- ✓ Promotes better initial and ongoing relationships between IISes and healthcare organizations by showing how best to work together

Implementation Timeline and LOE

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Problem: Educating Providers and EHR Vendors on Onboarding Basics

IIS staff spend considerable time working with providers and EHR vendors educating them on fundamental aspects of onboarding. The work required to support providers and sometimes vendors on these basic onboarding concepts takes time away from addressing more complex tasks and issues related to establishing interfaces for production and assuring data quality.

Solution: Onboarding Training Modules

Provide self-guided training modules that walk through the “what” and “why” for specific core topics necessary for successful onboarding; house trainings on a public website

Proposed Training Modules

- Onboarding Overview
- Basics of HL7 Messaging
- How to Set Up HL7 Messages
- Establishing a Connection
- Using Vaccine Code Sets
- Addressing Jurisdictional Variations

Training Medium

Training modules can take a variety of forms. The Service Center will develop modules using training development best practices which incorporate audio-visual, interactive, and reinforcement techniques



Users

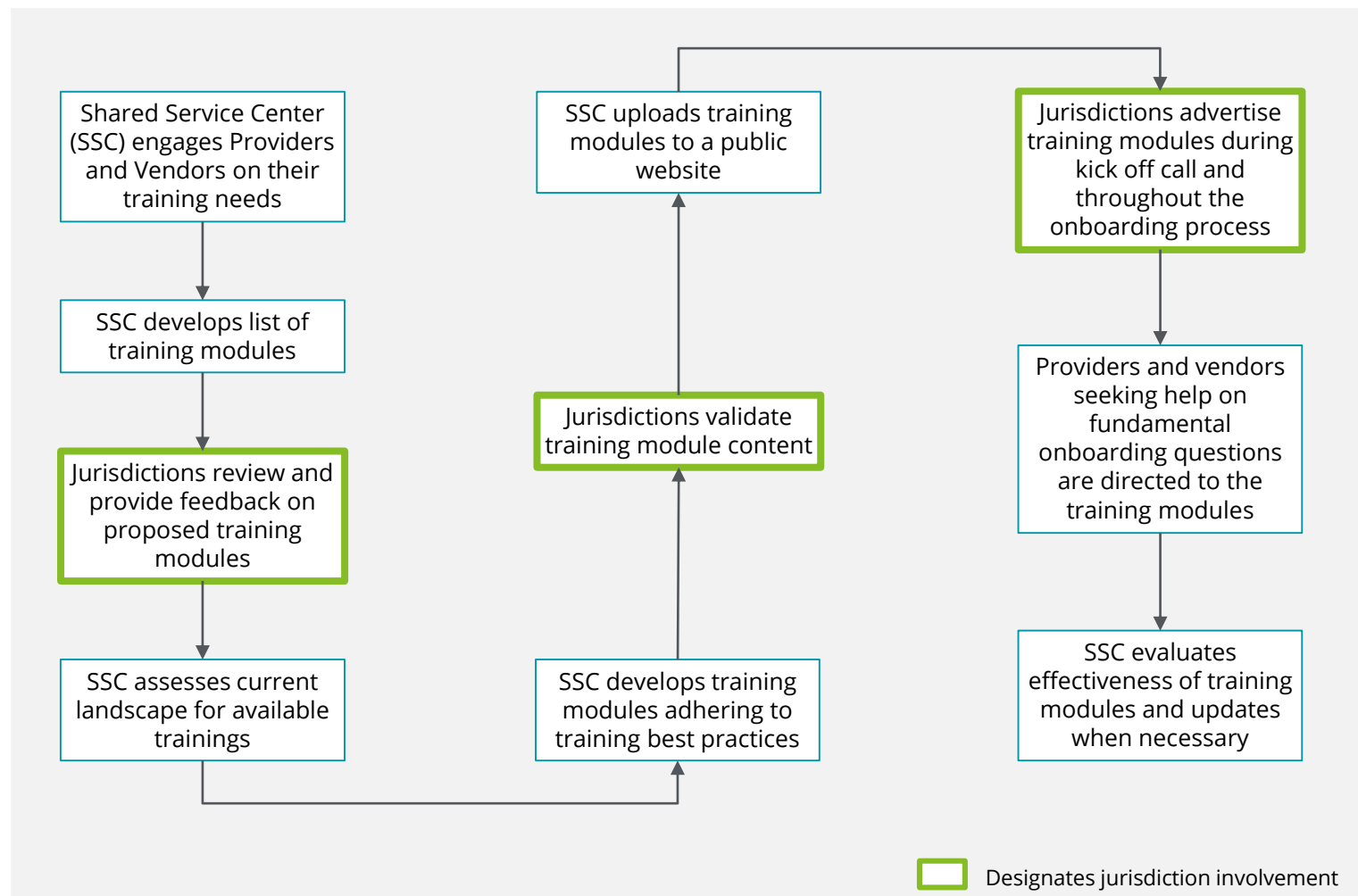


EHR Vendors



Providers

How to Use: Onboarding Training Modules



Expected Outcomes and Impact

- ✓ Reduces provider and vendor reliance on IIS staff for troubleshooting and training on fundamental aspects on onboarding
- ✓ Increases IIS staff focus on more difficult challenges during onboarding
- ✓ Improves provider and vendor understanding of onboarding and electronic data exchange
- ✓ Streamlines the onboarding process by enhancing provider and vendor knowledge and competencies related to onboarding

Implementation Timeline and LOE

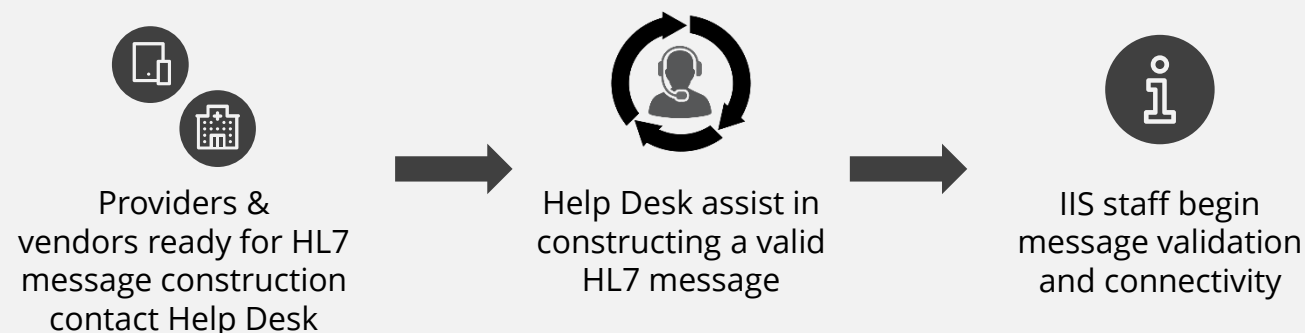
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Problem: Significant Time Spent Supporting Message Construction

The initial construction and generation of HL7 messages poses a significant challenge during the development and testing phase as many providers and vendors do not have prior experience with HL7 messaging. Providers and vendors often spend time calling and emailing IIS staff about basic aspects of development and testing during onboarding, detracting the IIS staff's time away from more complex onboarding issues. This back and forth leads to long delays between the kickoff call and data quality testing in the IIS test environment.

Solution: Provider & Vendor Onboarding HL7 Message Helpdesk

Develop and staff a help desk that gives providers and vendors access to real time support for performing self-testing during initial construction and generation of HL7 messages without involvement of IIS staff



Users

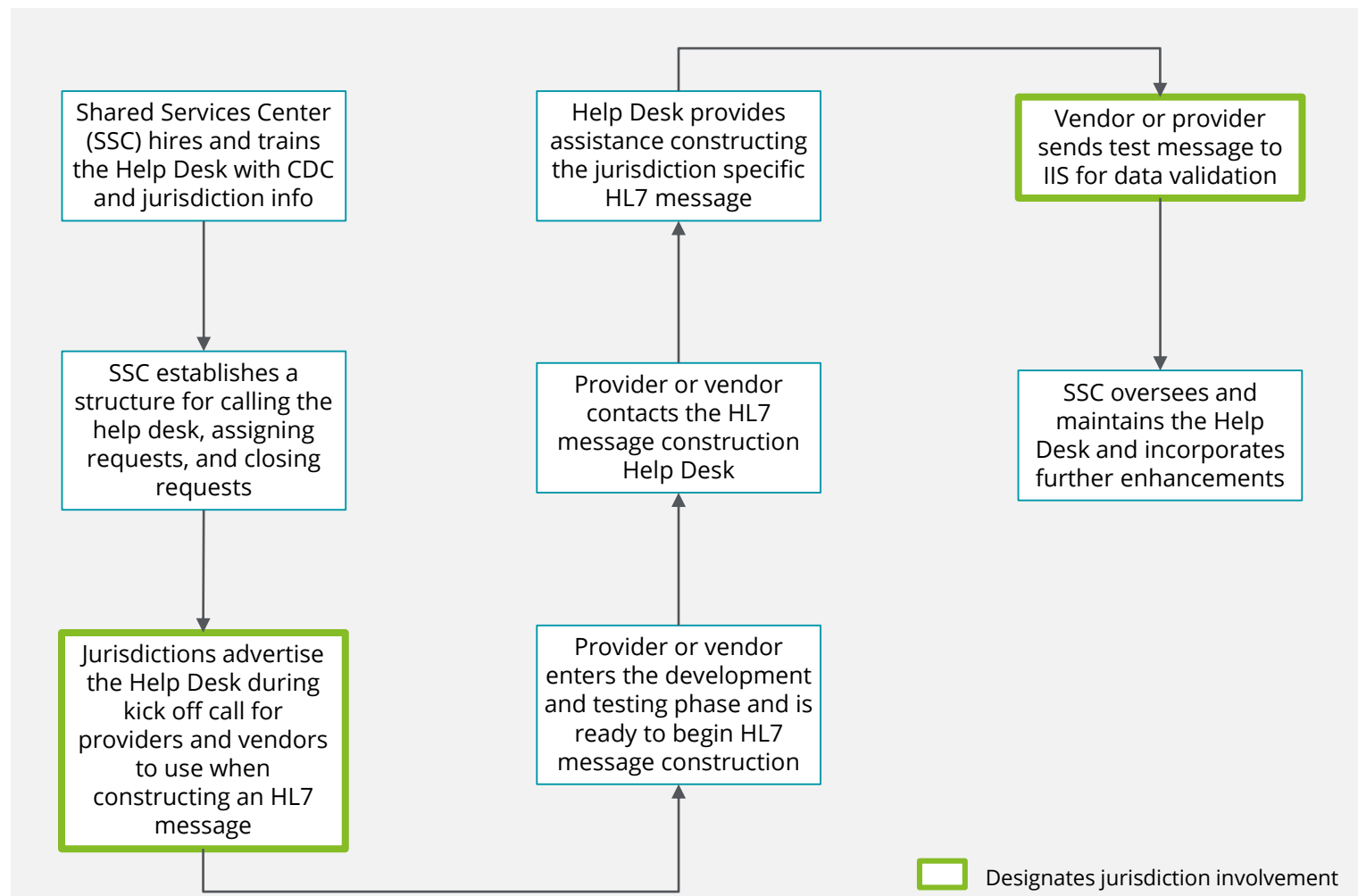


EHR Vendors



Providers

How to Use: Provider & Vendor Onboarding HL7 Message Help Desk



Expected Outcomes and Impact

- ✓ Allows IIS staff to focus on data quality issues during development and testing, not on message construction and generation
- ✓ Gives providers and vendors near real-time support during the onboarding process to help troubleshoot issues, inform on best practices, and proceed through testing phases
- ✓ Provides real-time feedback to providers and vendors during onboarding keeps engagement with the onboarding process and the IIS at a high level

Implementation Timeline and LOE

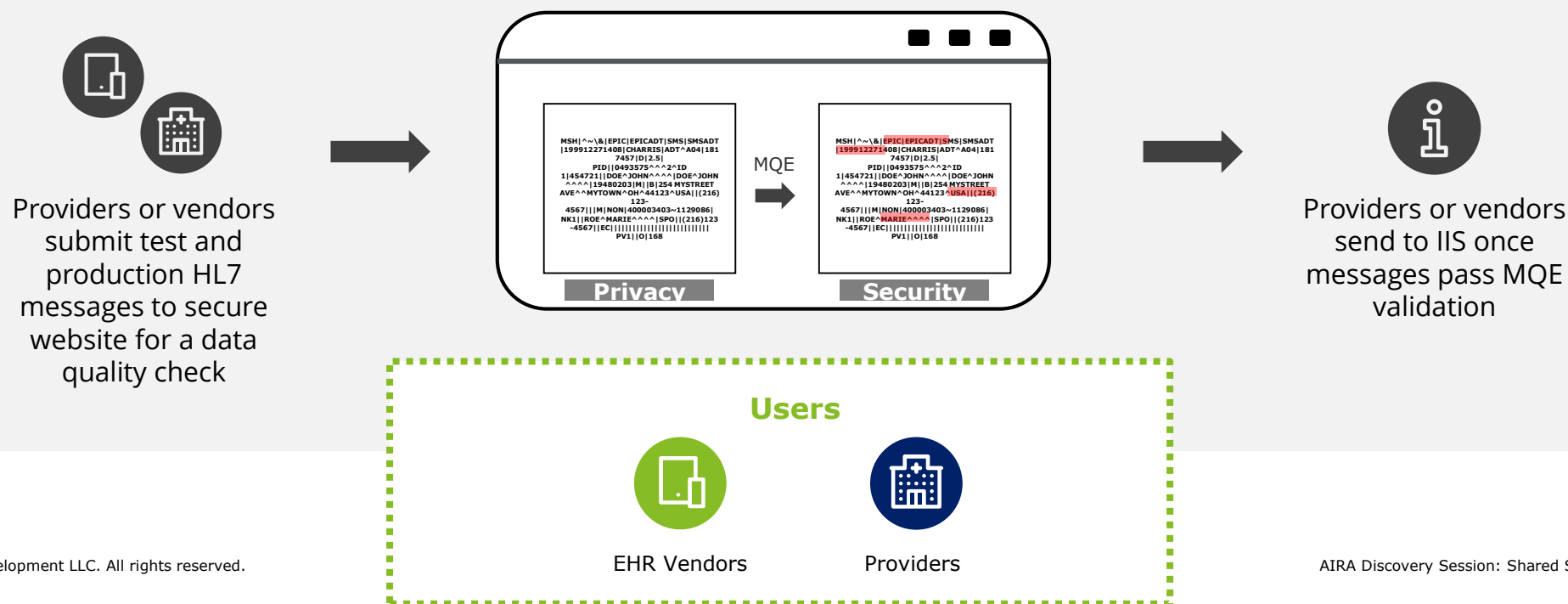
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Problem: Data Quality Issues from Providers and Vendors

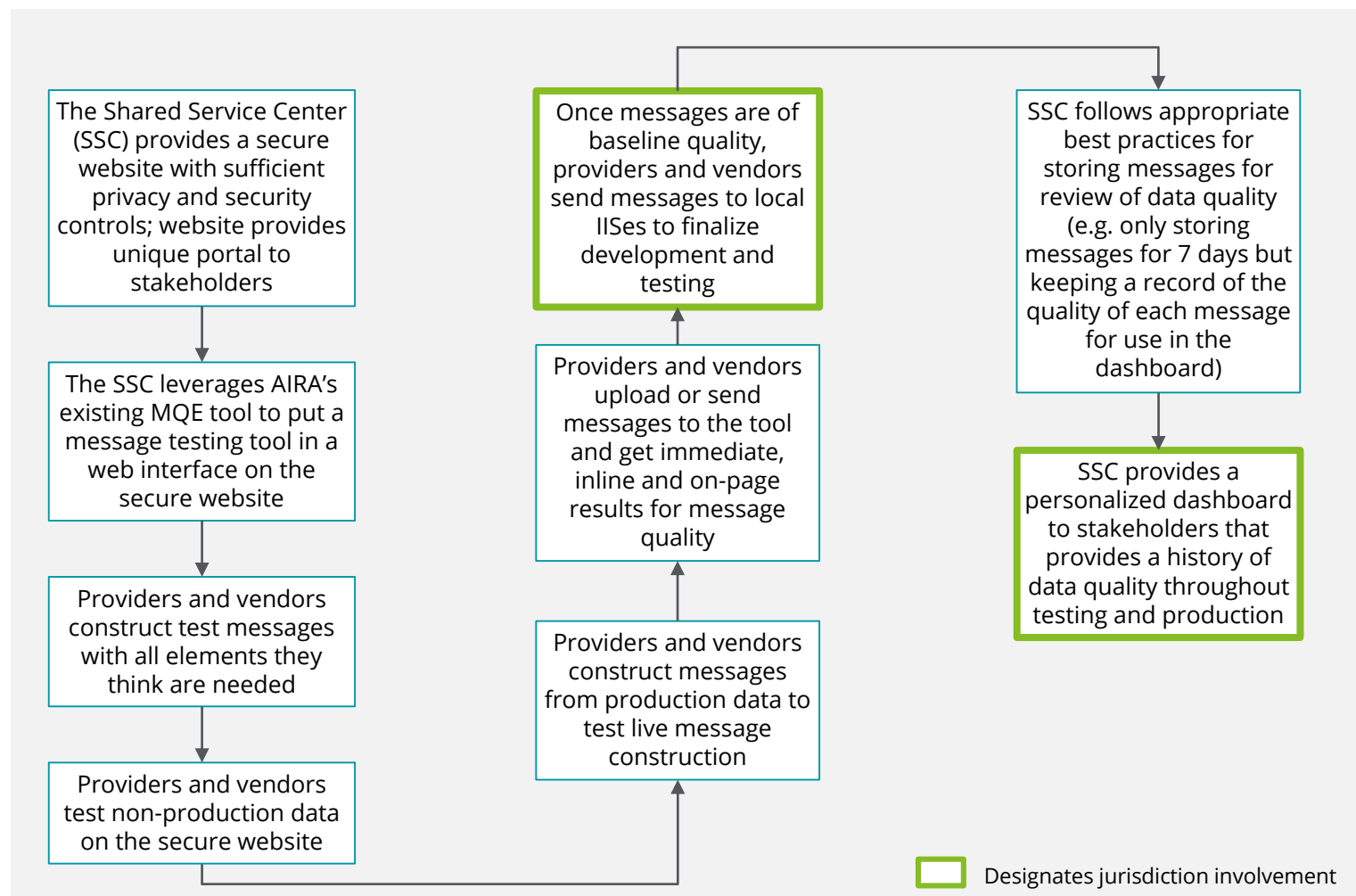
Providers and vendors spend a significant amount of time in the development and testing phase on construction and validation of HL7 messages. HL7 data quality issues and data validation are time consuming efforts for IISes, vendors, and providers. These data challenges involve manually sending messages back and forth between provider or vendor staff to the IIS staff to check for completion and accuracy. Providers and vendors would benefit from a tool that allows them to more proactively identify issues with messages prior to sending test messages to the IIS.

Solution: Multi-Record Message Data Quality Testing Tool for EHRs

Offer providers and EHR vendors with a secure, web-based platform to analyze message quality from EHRs without intervention from IIS staff, similar to how IISes are able to use the MQE tool with their own systems



How to Use: Multi-Record Message Data Quality Testing Tool for EHRs



Expected Outcomes and Impact

- ✓ Frees up IIS staff to focus on more complicated issues of onboarding such as establishing the interface during production and complex aspects of testing
- ✓ Enables providers, vendors, and IISes to proactively and rapidly monitor ongoing data message quality
- ✓ Increases amount of self-testing providers and vendors can do by both assuring that messages providers are building conform to the standards and allowing them to examine the data quality of multiple messages on their own

Implementation Timeline and LOE

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Next Steps

- ❑ **Synthesize the results of the discussion, including but not limited to:**

- Final Prioritization of Shared Services
- Key Takeaways from the Discussion
- Potential Short-Term Implementation Option
- Potential Long-Term Potential Implementation Option

- ❑ **Provide synthesis back to the IIS community**

- ❑ **Begin to develop implementation roadmaps for top choices**