System Integration Solution

The PINNACLE Registry® is cardiology’s largest ambulatory quality improvement registry with more than 1,000 participating physicians in 500+ offices and close to 2 million patient records in the registry database.

The PINNACLE Registry System Integration (SI) software is a proven, tested solution that allows cardiology practices to participate in the registry. Every month, more practices are implementing this time-saving mode of PINNACLE Registry data submission.

Powered by our technology partner Featherstone Informatics Group (FIGMD), the SI solution is compatible with any Electronic Health Record (EHR) system – all versions, no matter how much customization you’ve done. The SI software can be installed on any server with access to your data and is programmed to collect PINNACLE Registry data elements in your existing EHR system. The SI software then seamlessly exports the data directly to the ACCF database with zero workflow disruptions for you or your staff at the point of care.

Once you’ve installed the SI software and begin submitting data, you’ll receive quarterly benchmark reports that help validate the quality care you provide and pinpoint opportunities for improvement. And, beginning in summer 2011, the SI solution will enable on-demand benchmark report generation, right from your computer desktop. So don’t delay, find out how easy it is to get started!

See the attached Frequently Asked Questions for additional details on the SI solution including technical requirements.

To learn how you can begin submitting data to the PINNACLE Registry using the SI solution, contact the PINNACLE Registry support team at ncdr@acc.org or 800-257-4737. Visit www.PINNACLEregistry.org.
System Integration Solution
Frequently Asked Questions

1. Q: Can you give me a technical overview of the electronic health record (EHR) system integration process for the PINNACLE Registry?
A: The EHR system integration for the PINNACLE Registry involves the installation of a piece of interface software known as FIGMD Workflow Manager. This software is installed on a server in your practice and helps us interface with your EHR in order to extract PINNACLE Registry data fields for reporting to the ACCF. The software has three main pieces to it. First, a Microsoft SQL based database which stores all the information related to the PINNACLE Registry (the measures and the data maps specific to your EHR). Second, a .NET 4.0 based Windows Service. This is the actual program that interfaces with your EHR and extracts the relevant PINNACLE Registry data. Third, a .NET 4.0 based Windows Client. This is the program that is used to configure the data extraction jobs and adjust mappings to suit your practice’s specific use of your EHR.

2. Q: Does the system integration program write any information into our EHR?
A: No, the program is strictly read only. At no point does the program write anything to your EHR system.

3. Q: How much data does the system integration program extract from our EHR?
A: We only extract the information required for the PINNACLE Registry reporting. A complete list of all the fields that are extracted is located in the PINNACLE Registry Data Dictionary. Let us know if you would like a copy of the data dictionary.

4. Q: How often do you collect and transmit data into the PINNACLE Registry?
A: The PINNACLE Registry data is collected as you finalize and complete your encounters and finalize documentations. We will schedule a monthly batching and transmission process that will connect securely to the ACCF servers and transmit your collected PINNACLE Registry data.

5. Q: How much space does the system integration program require on my server?
A: The PINNACLE Registry requires reporting of all registry data elements on every doctor-patient visit that meets inclusion criteria. Each visit requires around 50 Kilobytes (KB) of storage space. These data are kept in the system integration program’s database on your server for a period of 6 calendar months from the time of the encounter. This means that if you have an average of 200 patients a day for 20 days in a month, over a period of 6 months, the program’s database would be somewhere around 1.1 Gigabytes (GB). This is a small amount, especially considering that even the smallest USB pen drives are more than twice that size.

6. Q: How much memory is used by the system integration program?
A: We have observed that memory consumption by the system integration program varies between 250 MB to 700 MB; therefore, we recommend having at least 2 GB of memory available on your server.

7. Q: How do you transmit my data to your servers?
A: We utilize industry-recognized Secure File Transfer Protocol (SFTP) to transmit the PINNACLE Registry
data to ACCF servers. Health Insurance Portability and Accountability Act (HIPAA) compliance for both privacy and security is ensured throughout the process.

8. **Q:** How much does our staff get involved in installing and running the system integration program? Do I need to allocate a substantial amount of time/resources to participate in the system integration program?

**A:** Installation of the system integration software program is fairly quick. However, we will need significant help from your EHR expert staff for the initial mapping process. The mapping discussions normally take 2 to 4 weeks – depending on the complexity of customization of your EHR as well as the amount of time your staff can allocate each week to the process. In general, your staff allocation time should be less than five hours per week during the initial mapping process phase. While we try to handle most of the discussion via email, it may be necessary for your team to participate in a few GoToMeeting online web conference sessions to finalize the mapping process properly. Our technical experts take it from there. We’ll take care of all the configuration and ongoing maintenance that needs to be done in order to successfully extract the PINNACLE Registry data from your EHR and export it in the required format to the ACCF. Below is a list of tasks we anticipate your staff will need to be involved in:

<table>
<thead>
<tr>
<th>Task No.</th>
<th>Task</th>
<th>Estimated Maximum Time</th>
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<tbody>
<tr>
<td>1</td>
<td>Review the Fact Sheet &amp; FAQ; Review and complete the Technical Questionnaire.</td>
<td>30 min</td>
</tr>
<tr>
<td>2</td>
<td>Review and complete the Pre-Install Check List.</td>
<td>30 min</td>
</tr>
<tr>
<td>3</td>
<td>Download and install .NET 4.0 framework (if necessary).</td>
<td>60 min</td>
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<tr>
<td>4</td>
<td>Attend a GoToMeeting online web conference to view a system integration solution install.</td>
<td>60 min</td>
</tr>
<tr>
<td>5</td>
<td>Answer questions about locations and data mapping.</td>
<td>Minimum 3 GoToMeeting sessions – 2 hours each</td>
</tr>
<tr>
<td>6</td>
<td>If you have a “home grown” EHR system or a heavily customized EMR version, you may need to answer specific data mapping questions in a GoToMeeting online web conference (if necessary).</td>
<td>One additional GoToMeeting session – 2 hours</td>
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9. **Q:** How can I get support for the SI Solution after it’s installed?

**A:** Send an email to pinnacle@featherstoneinformatics.com and you will receive a reply within 1 hour.

10. **Q:** Will participating in the PINNACLE Registry allow me to participate in the 2011 Physician Quality Reporting System (PQRS, formerly PQRI)?

**A:** The PINNACLE Registry is certified to submit aggregate data on behalf of physicians for the Centers for Medicare and Medicaid (CMS) Physician Quality Reporting System (PQRS) for 14 clinical measures in 2011. If your practice has the SI Solution installed, the ACCF should be able to collect the required PQRS data elements for 2011 automatically. You do not need to submit any separate data files, though you will need to sign an additional Data Release Consent Form (DRCF) to participate in PQRS submission.