



Annual Surveillance Plan CY 2018

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Introduction and Overview

Surveillance is a central component of the Office of the National Coordinator (ONC) Health IT Certification Program, and its general direction comes largely from three parts. As part of its accreditation to the certification body standard [ISO 17065](#), Drummond Group is required to follow certain tenets of surveillance directed by this guideline. Also, the ONC issues annual [surveillance guidance](#) for its Authorized Certification Bodies (ACBs). Finally, ONC federal regulations, most recently the [2015 Edition Final Rule](#), dictate explicit surveillance requirements.

The Drummond Group 2018 Surveillance Plan for certified Health IT is directed by all three aspects, and it is intended to implement a consistent, thorough and fair policy of surveillance of certified Health IT modules so that all stakeholders, including ONC, vendors, providers and patients have confidence Health IT applications are working as intended.

Drummond Group Approach for 2018 Surveillance

The approach for surveillance in 2018 is divided into two broad categories: Drummond-initiated proactive surveillance and non-Drummond-initiated reactive surveillance.

Proactive surveillance includes, re-testing based on developer attestations, as well as developer website review for necessary certification language, mandatory disclosure requirements, and appropriate use of the ONC Certification Mark.

Reactive surveillance comes from receiving complaints or other information about certified Health IT systems which lead to decisions to investigate compliance to the certification requirements or the adequacy the developer's user complaint process. Reactive surveillance is also triggered after multiple requests for certification inheritance on a certified product.

Commitment to Surveillance

Drummond Group considers quality surveillance a vital part of its organization and certification policy. Surveillance ensures confidence that Drummond Certified™ products continue to comply with the criteria to which they were certified. Drummond Group has a Surveillance Program Manager dedicated to overseeing the surveillance activities. The Surveillance Program Manager reports surveillance activity directly to the Drummond Group Certification Body Manager and has access to executive management. The surveillance effort of Drummond Group's ACB is closely monitored by the ONC and ANSI to ensure that products are maintaining their certification over time.

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Drummond Group holds regular surveillance committee meetings to review the status of surveillance activities in accordance with Drummond's Annual Surveillance Plan. In addition, the quarterly executive-level Management Review Meeting of the certification body actions reviews the surveillance efforts, complaints in process, status on website reviews, etc.

Drummond Group is also committed to transparency and to fairness in how surveillance is applied and demonstrated. On the Drummond Group website, both this Surveillance Plan and the EHR Certification Guide are published and clearly communicate plans for surveillance. For complaints, please contact us at ehrcomplaints@drummondgroup.com.

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Initial Certification: Start of Surveillance

Though surveillance is inherently focused on activities outside of the controlled environment, the process begins after controlled lab environment testing is done and the certification is initiated. Key documents are collected before issuing certification and then used in the surveillance process. Before certifying with Drummond Group, each developer must submit documentation for the Complaint Certification Information Review, Certification Disclosures, and Transparency Attestation Requirement. As part of the quality checking process, certification is granted only when all required documents have been submitted successfully.

MSA and Contractual Obligations

For every certification, the developer customer signs a Drummond Group Master Services Agreement (MSA) that includes a surveillance section requiring a variety of items related to surveillance activities. The MSA will require provision of the developer's customer list to Drummond Group as needed for conducting surveillance activities. MSA and Statements of Work (SOW) will identify any costs associated with surveillance activities.

Complaint Certification Information Review

A **Complaint Certification Information Review** (CCIR) form outlines the developer's process for handling complaints from customers. This process must give extra attention to the prioritized surveillance criteria, especially the safety related capabilities. The CCIR form is reviewed by the Certification Body to ensure it satisfies the ISO 17065 standard. The CCIR form is kept on file for the developer and referenced during various surveillance activities.

Mandatory Disclosure of Costs and Limitations

The 2015 Edition Final Rule requires that health IT developers conspicuously post on their website a mandatory disclosure of costs and limitations for their certified product(s). The following disclosure information will be collected from vendors prior to issuing a certification:

- Additional types of costs or fees that a user may be required to pay to purchase, license, implement, maintain, update, use or otherwise enable and support the Complete EHR or Health IT Module's capabilities.
- Limitations, whether by contract or otherwise, on the use of any capability to which technology is certified for any purpose within the scope of the technology's certification.
- Limitations, including but not limited to technical or practical limitations of technology or its capabilities, that could prevent or impair the successful implementation or configuration, customization, maintenance, support, or use of any capabilities to which technology is certified.

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Drummond Group provides instructions and guidelines to assist developers in accurately completing these requirements.

The hyperlink to the disclosure information on the developer's website for each certified product is reported on the CHPL. Thus, the developer must submit this hyperlink prior to receiving certification. The developer is provided a small grace period after certification to make additional modifications to their disclosure language per Drummond Group request and get all finalized language posted at the hyperlink provided. Drummond will validate that mandatory disclosure statements are conspicuously posted, include sufficient detail and utilize plain language. Drummond will also validate that all required product information is also posted at the hyperlink.

NOTE – Health IT self-developers are excluded from disclosing cost and limitation information on their website but must still post the required product information.

Transparency Attestation

As a condition of certification, a health IT developer must submit an attestation of developer's commitment to making transparent and visible the costs and performance of its certified health IT products and services to all who inquire. This statement of attestation can be affirmative in agreeing to this commitment or negative in declining to make this commitment. Either of the options is acceptable for certification, and a negative attestation will not impede certification being awarded. However, providing the attestation, which will be part of the public certification results accessible through the ONC CHPL, must be obtained before awarding certification.

A template of the transparency attestation is provided in [Appendix A](#).

NOTE – Health IT self-developers are excluded from this requirement.

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“Reactive” Surveillance

Reactive Surveillance refers to surveillance activities initiated by entities other than Drummond Group. These are principally from 1.) complaints or other related information received from any entity regarding certified Health IT technology and 2.) returning inherited certification requests.

Certified Health IT Complaints

Complaints on certified Health IT systems can be received through numerous ways, including at ehrcomplaints@drummondgroup.com.

The first step is investigating the complaint to determine if it has merit regarding functionality of certified criteria. As complaints are received on certified Health IT products, Drummond Group contacts the complaining party with additional questions to determine if the issue indicated in the complaint is within scope for the certification.

If the complaint has merit to warrant further evaluation, and if the initiator of the complaint agrees, Drummond Group will connect the initiator (typically a user of the Health IT system) and the developer of Health IT system, and Drummond Group will allow both parties to work on resolving the issue while Drummond Group monitors the situation. Drummond Group will also conduct a complete and thorough investigation of the issue by interviewing all personnel and examining all data relevant to the complaint. If the issue is determined to be a non-conformity, then Drummond Group follows the process for [corrective action procedures](#) as described in this plan. Per Drummond’s normal process for handling complaints, a complaint is not considered closed until it is verified that the user is satisfied with the resolution or no response is received from the user within a reasonable timeframe. The summary of all complaints and resulting investigations are documented and reported to ONC through the Quarterly Surveillance Report.

In addition, if this issue was previously reported to the developer, Drummond Group will evaluate the vendor’s previously submitted Complaint Process Summary from its Complaint Certification Information Review document. Also, the Drummond Group MSA for certification requires the developer to keep a log for all complaints received and for Drummond Group to have access to this log upon request. Drummond Group will determine how the vendor responded to this complaint. If developer did not adequately address this complaint based on their submitted processed, developer may be subject to further surveillance activities.

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Inherited Certified Status Requests

Per the ONC guidance, Drummond Group policy currently dictates that after every third attestation (request for inherited certification) of certified Health IT, the product is flagged for retesting in a controlled test environment. Criteria are selected for retesting, taking into account the [ONC prioritized criteria](#) and other criteria certified by the Health IT product. Only upon successful retesting of all selected criteria can the EHR product be recertified. Any failures, including those resolved by the vendor in the course of testing, are reported to the Drummond Group Review/Decision Maker for consideration in recertification.

Additionally, developers return an Attestation of Adaptations and Updates each quarter which specifically calls attention to safety related capabilities. When a developer that has certified its Health IT technology with Drummond Group returns and submits an attestation of changes/updates to their product, Drummond Group reserves the right to test their product to ensure that what they have changed has not affected the certification criteria.

Identifiable Result

An Identifiable result is a surveillance activity conducted by Drummond Group that does not result in a non-conformity. The most common example of this is a bug or issue in certified technology that is discovered and fixed by the developer rather than identified by Drummond Group reactive surveillance. The bug fix or change made by the developer will be tested by the Drummond Group Accredited Test Lab to confirm that the feature complies with the certification criterion. A Surveillance activity will be added to the CHPL at the end of the quarter in which it was identified and will be summarized on the ONC Quarterly Report.

In-The-Field Testing

The in-the-field testing may cover the ONC's [prioritized criteria](#) and when applicable, will and follow the guidance of the [In-the-Field testing section](#) of this document.

In addition to actual testing, Drummond Group may also engage providers on the disclosure statements of the developer to confirm the veracity and the developer's adherence to their complaint process will be assessed.

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Reporting Results

Per the ONC guidance in the 2015 Edition Final Rule, surveillance activity will be reported on a regular basis. Refer to the section of this plan on [surveillance submission](#) for more information.

Overview of Disclosures

Per the ONC requirements of certification, developers must fully disclose several aspects of information regarding their certified Health IT product.

Developers must conspicuously post the following information on their website:

- Certified Product Information
 - Developer organization name
 - Date the product was certified
 - Product name and version
 - Unique certification number
 - Certification criteria to which the product has been certified
 - CQMs to which the product has been certified
 - Any additional software the certified product relied upon to demonstrate its compliance with certification criteria
 - ONC Disclaimer: “This [Complete EHR or Health IT Module] is [2014/2015] Edition compliant and has been certified by an ONC-ACB in accordance with the applicable certification criteria adopted by the Secretary of Health and Human Services. This certification does not represent an endorsement by the U.S. Department of Health and Human Services.”

- Costs and Limitations. Drummond looks for the following components when assessing disclosures of additional costs and limitations:
 - The purpose of the Mandatory Disclosure is to inform. Therefore, it must include a description of the capability and costs/limitations in plain language. Plain language means a description that is no more technical than how it would be explained in marketing materials.
 - The requisite plain language also applies to the title of this information on the website and in marketing materials/communications.
 - This information should be easily accessible and clearly visible in a logical location on the website. While this information is not required to be on the homepage, it should be no more than a few clicks away and placed on a page to which a provider would logically navigate for this type of product information.

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- The costs, fees and limitations are regarding anything within the scope of the certified functionality, not only costs or limitations in meeting the Meaningful Use measures.
- If there are no limitations or additional costs related to a particular certified capability, that information must be clearly and explicitly stated.

At the time of certification, developers are given their language seal and logo mark in the form of a Drummond Group-issued notification of certification with instructions for its display and use. The developer's mandatory disclosure language is also [collected prior to certification](#).

Website Surveillance

Once a certified technology or Health IT Module is certified, developers are typically allowed a grace period to update their website and subsequent marketing information with correct certification mark and disclosures.

Every week, the Drummond Group Surveillance Program Manager reviews some of the Health IT products certified by Drummond Group Certification Body to confirm that the following are properly displayed:

- ONC Certified Health IT Certification and Design Mark (“ONC Health IT Mark”) *
- ONC disclaimer and certification information
- Mandatory Disclosure of Costs and Limitations

**Note: Developers are not required to use the ONC Health IT Mark in their advertising, but if they do, surveillance of the Mark's use is conducted in the same manner as other web surveillance activities. For a given 12 months, the Surveillance Administrator or assigned team member reviews each website of the developer to ensure proper use of the Mark.*

Upon review, the products are classified as “Compliant” or “Non-Compliant”, and developer contacts are notified via email for compliant and non-compliant status. For non-conformities, developers are notified of the issue and given 10 business days to comply. Follow up by phone is conducted if no response is received, and the Certification Body is notified after 5 additional days of non-response. Compliant products are re-reviewed upon certification of newer versions, as well as when time permits.

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Non-conformities

In website reviews and information submitted as complaints or from other sources, a developer may be found non-conformant with the proper display of a certification logo, disclaimer or disclosure. Many non-conformities deal simply with minor typo corrections or errors that do not make a major impact in the application of this information to the general public. In those cases, the developer must still make the necessary corrections, but they will be treated as a “minor” non-conformance.

However, in cases where major aspects of disclosure are omitted or incorrectly stated, the issue is identified as a major non-conformity of website disclosures and will be reported as such. Details on [procedures for corrective actions](#) and [submission of corrective action findings](#) are found in later sections of this plan.

Surveillance of Mediums other than Website

The disclosure requirements apply to all aspects of all marketing materials, communications statements, and other assertions related to the Complete EHR or Health IT Module’s certification. However, it may not be realistic for the developer to include all required certification language, marks and disclosures on every medium (e.g., pamphlet or PowerPoint slide presentation at conference). In that case, it is acceptable to include a hyperlink/URL pointing directly to the website containing the required information (see ONC FAQ: <https://www.healthit.gov/policy-researchers-implementers/46-question-2-14-046>).

Drummond Group does not actively initiate surveillance on non-websites, such as requesting that copies of print material be sent to Drummond Group to review. However, if Drummond Group becomes aware of this material and determines it is not in compliance with the required certification language, marks and disclosures, the developer would become subject to surveillance procedures and non-conformance as discussed in this plan.

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Quarterly Attestation

Health IT developers are required to provide a record of all adaptations and updates, including changes to user-facing aspects, made to certified health IT (i.e., Complete EHRs and certified Health IT Modules) on a *quarterly basis* each calendar year.

The Technical Review Manager will generate attestation tasks in an online tool called Surveillance Manager for all Drummond-certified developers/products. Developers will be provided at least 2 weeks from the end of the quarter to complete the attestation. Additionally, developers may submit attestations through the Drummond Group website at any time.

After each review of each attestation, The technical Review manager will determine one of the following attestation decision options:

Option One. No retesting or recertification is needed. The Client is notified of the decision by an email, and a copy of the email is uploaded to the Box folder.

Option Two. No retesting is needed, but new certification is needed. The Client is notified advising of the decision with regard to the certification and a copy of the email is uploaded to the Box folder. The certification ID is issued the same as a regular certification ID.

Option Three. Retesting is needed. The Client is notified of the decision and uploads a copy of the email to the Box folder. The Client's Proctor is notified. In turn the Proctor will contact the client to schedule a test date. and tells the client that their proctor will contact them to set up a test date.

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In-The-Field-Surveillance

Purpose and Use of In-the-Field Surveillance

Successful testing performed in the controlled environment of a developer's system is the initial action needed to award certification. However, the ultimate purpose of certification is to assure developers, end users and patients that certified Health IT works as intended.

In order to fully evaluate certified health IT, surveillance of the certified Health IT must be conducted in a production environment. This surveillance is called "in-the-field" surveillance.

In-the-field surveillance is used primarily when investigating complaints on the certified Health IT system where further analysis is required. Thus, in-the-field surveillance is triggered any time Drummond Group requires additional information on the functional capabilities of a certified Complete EHR or Health IT Module that cannot be determined through testing in a controlled test lab environment as an effective means to meet the goals and intentions of the ONC Health IT Certification Program.

Methodology and Approach of In-the-Field Surveillance

Doing in-the-field surveillance testing requires support from the end user to allow Drummond Group into their production environment and access to their Health IT system. In fact, support and access by the end user is implicit in administering any in-the-field surveillance.

When conducting in-the-field surveillance testing in the production environment, the surveillance test proctor will utilize several factors to arrive at the test methodology and data to be used in the setting. This includes:

- ONC criteria and, if applicable, the CMS Meaningful Use requirements
- End user proctor sheets derive from ONC approved test procedures
- Workflow of the provider or hospital setting
- Scenario(s) generating any reported non-conformities (if necessary).

The goal is to follow the spirit and direction of the ONC criteria being evaluated while mimicking the normal workflow of the provider. Also, Drummond Group may consult the developer to ensure the product is configured properly according to published instructions available to the provider.

For complaint-driven, reactive in-the-field surveillance, the testing will be around the reported non-conformance. As a result, the actual test procedure steps may be unique to that specific complaint. Regardless of the situation, the final in-the-field test steps and data used will be documented for any necessary reporting.

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To supplement in-field-testing, other elements of surveillance can be incorporated or utilized to maximize the results. This can include consulting user surveys or feedback, developer complaint logs and test results from the controlled test lab environment.

Though support from hospitals or providers are crucial, in-the-field surveillance typically involves the developer at some stage. When doing in-the-field surveillance, it is the intent of Drummond Group to do everything possible to not make the effort adversarial or divisive between the end user and their vendor, but instead work to make it a cooperative effort. In cases where an end user has filed a complaint but wishes to remain anonymous, a similar approach is taken to maintain mutual respect across all parties while still keeping the main goal of achieving or confirming compliance to certified capabilities in the production environment.

In-the-field surveillance typically involves testing or evaluation of the Complete EHR or Health IT Module in a production environment, but this type of surveillance can also involve evaluation of potential non-conformities based on in-the-field the surveillance of developer disclosure requirements.

Through submitted complaints or other sources of information, Drummond Group may determine that a developer did not fully or accurately disclose aspects of the certified Complete EHR or Health IT Module. This could include inaccurate or incomplete limitations of the technology that prevents or impairs the successful use of its capabilities in the product environment. In-the-field surveillance can be used to ensure the required public disclosures of certification status are accurate. For example, if the developer did not disclose any limitations on using the Health IT Module for submitting immunization messages, but a user complaint indicates otherwise, in-the-field surveillance could be used to verify that the certified Health IT in fact requires installation of additional third-party software components to submit immunization messages. This can then lead to issuing a non-conformance finding (NCF) to the developer.

Any findings, analysis or conclusions from in-the-field surveillance will be documented in the quarterly surveillance updates submitted to ONC and in the individual corrective action findings submitted to the CHPL.

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Protection of PHI during Complaint Audits

It would be Drummond Group's preference that only fictitious, but realistic, patient data be used to perform in-the-field testing. However, ONC has stated that as an ONC-ACB, Drummond Group may view Protected Health Information under 45 CFR 164.512(d) *Standard: Uses and disclosures for health oversight activities*. See also this ONC FAQ for more information:

<https://www.healthit.gov/policy-researchers-implementers/45-question-12-13-045>.

If Drummond Group observes protected health information, it will be kept confidential and not shared in any public reports, such as the quarterly surveillance updates or in the individual corrective action findings submitted to the CHPL.

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Corrective Action Procedure

Purpose of Corrective Action

Through surveillance, Drummond may determine if a Complete EHR or Health IT Module does not conform to the requirements of its certification. This could occur through various means, including randomized surveillance testing or from user complaints. This is considered a non-conformity of certification and must be resolved in order to remain in good standing for certification.

A single complaint or even surveillance testing error does not automatically create a non-conformity, and Drummond Group will be diligent in confirming the issue is a true certification non-conformity rather than simply a user-driven error or other issue not impacting the compliance assurance of the certification. However, upon confirming a true non-conformity, Drummond Group must engage the developer to fully resolve the issue and regain the necessary confidence in the certification.

Process of Corrective Action Notification and Resolution

1. Non-conformity (NC) is identified and confirmed by Drummond Group through one or multiple means of surveillance.
 - a. In Step 2 below, the developer of the Complete EHR or Health IT Module is officially notified of the NC. However, in Step 1, Drummond Group may engage the developer to help determine the nature of the issue and allow the developer to provide all relevant facts and circumstances before confirming the issue at hand is a true NC.
 - b. Non-conformity in the area of website disclosures are often the result of confusion in expectations or basic typos. For these types of occurrences, a developer may be able to quickly resolve the issue on its website after notification from Drummond Group before needing to issue a formal notice of non-conformity.
2. Drummond Group issues a Non-Conformance Finding (NCF) to vendor. The NCF includes a description of identified NC and summation of surveillance activities that led to its discovery.
 - a. Before issuing a NCF, Drummond Group reviews the material to confirm information identifying the customer, user, practice, provider or health care location involved with the surveillance has been removed unless explicit approval has been obtained in order to assist the developer in resolving the issue.
3. The developer has a two-week window to dispute or comment on NCF. Drummond Group takes into consideration the comments of the developer and may overturn the original NC(s), but this is the sole determination of

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- Drummond Group. Unless Drummond Group explicitly indicates the NC is resolved, the developer must continue the plan to address the NCF.
4. Upon receipt of the NCF, vendor generally has 30 days to return a Corrective Action Plan (CAP). Drummond Group provides a template/guideline for the CAP. While 30 days is the typical timeframe, Drummond Group reserves the right to adjust this time frame based on the nature and urgency of resolving the issue.
 - a. If the CAP is not returned in the appropriate timeframe, Drummond Group will take necessary actions as required by the ONC Surveillance Guidance to suspend or terminate the health IT's certification.
 5. Upon receiving the CAP, it is reviewed to confirm
 - a. Description of identified NCs
 - b. Assessment of how widespread or isolated the NC(s) are within their customer base
 - c. How the developer assessed the scope and impact of the NC, including which customers are impacted
 - d. How the developer will notify all affected or potentially affected customers and users of NC(s)
 - e. How the developer will ensure all potentially affected customers are notified of the problem and its plan for resolution
 - f. How developer will resolve the NC(s) at all affected or potentially affected customers and users
 - g. How the developer will ensure all issues are in fact resolved
 - h. Timeframe of the corrective action including when all action will be completed
 - i. Any other additional information relevant to the NC(s)
 6. After the CAP is reviewed, Drummond Group may return it with comments and requests for alterations.
 7. Once the CAP is accepted by Drummond Group, it will be signed by both Drummond Group and the developer.
 8. As the developer completes actions required in the CAP, Drummond Group will remain available to discuss the NC with the developer to provide appropriate support as a certification body.
 - a. In the process of resolving the NC, the developer may determine additional time is needed to fully resolve the issue. In that situation, the developer must request an amendment to the CAP and that amendment must be approved by Drummond Group. Based on this information, Drummond Group may elect to adjust the CAP scope or timeline.
 9. Once the NCs are resolved according to the CAP, the developer notifies Drummond Group. The developer submits a Corrective Action Plan

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- Attestation (CAPA) that indicates all actions for NC resolution have been accomplished according to the CAP.
10. Drummond Group may conduct re-testing of the certified capability with the developer as well as in-the-field review to validate the fix.
 11. If NCs are not resolved and completed in the agreed upon timeframe, Drummond Group will take necessary actions as required by the ONC Surveillance Guidance to adjust, suspend or terminate the health IT's certification.

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Submission of Corrective Action Findings

Drummond Group will update ONC via the CHPL of surveillance results and status at the following stages of surveillance:

- Issuance of Non-Conformance Finding (NCF)
- Upon the signing of the Corrective Action Plan (CAP)
- Upon successfully resolving the NCs identified in a CAP

These updates will be associated with the respective CHP product number to identify the certified Complete EHR and Health IT Module. All information required by the ACB Principles of Proper Conduct shall be included.

Also, Drummond Group will submit on a rolling basis the status of both reactive and proactive surveillance, including those with a CAP, to ONC (via ONC-ACB@hhs.gov) for the following periods:

- January 1 through March 31 – Due April 15, 2018
- April 1 through June 30 – Due July 15, 2018
- July 1 through Sept. 30 – Due October 15, 2018
- Oct. 1 through Dec. 31 – Due January 15, 2018

Beyond the information normally collected in the randomized surveillance and CAPs, Drummond Group will provide analysis on the degree with which the developers in this surveillance report followed their own stated complaint processes as collected by Drummond Group on issuing certification. If a developer is found to have not followed its process, the developer must make a correction to their plan or their internal complaint handling process to ensure they align.

Before any surveillance information is submitted to ONC, it will be reviewed to ensure no sensitive information is included, such as identity of providers, locations or practice sites involved with surveillance.

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End-User Survey

At the beginning of each calendar year, Drummond Group will gather customer lists from a subset of Drummond certified health IT developers. The subset of health IT developers would be identified using our Random Surveillance Selection tool to select 2% of products certified by Drummond Group. Drummond Group will randomly select at least 20 end users from each developer's customer list and will send them a survey.

The survey will focus on questions related to real-world interoperability experiences. See [Appendix B](#) for the draft of the End User Survey. Unlike previous surveys conducted by the ACB, the questions will be framed in terms of common end user experiences and outcomes and would not use overly technical certification jargon or phrasing. Technical terms that are used are included in a reference glossary as part of the survey. Past surveys also focused on availability of SED criteria in the end user's system in contrast to the new survey that focuses on real world implementation practices of interoperability features. Moving forward, these surveys seek to gain understanding on actual use of certified capabilities and reasoning behind potential issues.

Responses from these surveys will be analyzed and used to prioritize annual goals for in-the-field review and surveillance activity. Most importantly, Drummond Group would assess areas of potential non-conformity based on end user's responses and initiate surveillance when warranted. For example, if an end user indicates in response to Question 3 that they have experienced issues with CCDA exchange and do not have the ability to successfully connect to external system to transmit and receive messages, Drummond would initiate reactive surveillance, preferably in-the-field.

These surveys will provide Drummond with another mechanism outside of the complaint process to assess certified health IT compliance and review potential issues in-the-field with the most willing participants. The surveys will provide both a mechanism to increase the volume of in-the-field surveillance, while also providing a mechanism to assess qualitative returns on this investment by helping Drummond understand the areas in which to focus during surveillance activities and allowing us to compare year-to-year surveillance results for tracking market trends. Noticeable trends will also be taken into consideration as another mechanism for feedback when creating a new testing tool called the Interoperability Hub (Category: Technical Approach and Infrastructure). For example, if we notice that many users indicate they struggle with a certain component on interoperability, we could prioritize enhanced capabilities for validating those pain points on the Interoperability Hub. Ultimately, the End User Committee (explained below) will be the driving force for feedback on Interoperability Hub design, but de-identified End User Survey feedback will be provided to the committee for consideration.

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End User and Developer Committees

The end user committee will consist of at least 8-10 users that utilize various health IT developers in both the ambulatory and inpatient setting. We seek to have a mix of high-level executives (CIOs), individuals familiar with day-to-day activities (Project Managers) and tech savvy providers if appropriate. End users will be responsible to not only provide feedback on the interoperability tool, but also act as beta testers of the tool post-development. High-level executives will be included in the committee to ensure necessary resources are provided to testing efforts. Day-to-day individuals, such as Project Managers, will be able to provide implementation considerations when designing the Hub as well as carry out the beta testing efforts. Tech savvy providers will be able to offer insight into pain points with interoperability and assist their project managers with beta testing.

To recruit committee volunteers, Drummond Group will contact potential participants through the following mechanisms

- Established relationships with end users that we have built through our current surveillance processes.
- Developer recommendation
- Soliciting participants of industry trade groups, existing advisory committees and fellowship programs
- ONC Subject Matter Experts (Note: not required to beta test, not eligible for financial incentive)

The developer committee will be comprised of health IT developers of varying sizes will have interest in volunteering to participate in this committee, with several already expressing interest. Drummond will select 6-8 developers to participate and Drummond will ensure vendors of small, medium and large deployments across both the ambulatory and inpatient environments are represented on the committee.

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Prioritized Certification Criteria

According to ONC Surveillance Guidance provided for CY 2016, the following criteria have been identified as prioritized elements of surveillance:

- Interoperability and Information Exchange
 - 45 CFR § 170.314(b)(1) Transitions of care – receive, display and incorporate transition of care/referral summaries
 - 45 CFR § 170.314(b)(2) Transitions of care – create and transmit transition of care/referral summaries
 - 45 CFR § 170.314(b)(7) Data portability
 - 45 CFR § 170.314(b)(8) Optional – transitions of care
 - 45 CFR § 170.314(e)(1) View, download, and transmit to 3rd party
 - 45 CFR § 170.314(h)(1) Optional – Transmit - Applicability Statement for Secure Health
 - 45 CFR § 170.314(h)(2) Optional – Transmit - Applicability Statement for Secure Health Transport and XDR/XDM for Direct Messaging
- Safety-related
 - 45 CFR § 170.314(a)(2) Drug-drug, drug-allergy interaction checks
 - 45 CFR § 170.314(a)(8) Clinical decision support
 - 45 CFR § 170.314(a)(16) Inpatient setting only—electronic medication administration record
 - 45 CFR § 170.314(b)(4) Clinical information reconciliation
 - 45 CFR § 170.314(b)(9) Optional – Clinical information reconciliation and incorporation
- Security
 - 45 CFR § 170.314(d)(2) Auditable Events and Tamper-Resistance
 - 45 CFR § 170.314(d)(7) End-User Device Encryption
- Population Management
 - 45 CFR § 170.314(c)(2) Clinical quality measures – import and calculate

Appendix A: Transparency Attestation Form

This document explains the new transparency attestation required for product certification in the ONC Health IT Certification Program. The developer must attest, in either the affirmative or negative, to making transparent and visible the costs and performance of its certified health IT products and services as indicated below. The 2015 Edition Final Rule includes a new transparency attestation requirement that is applicable to all health IT developers whose product(s) have been issued a 2014 Edition certification and/or will be issued a 2015 Edition certification. A developer only needs to respond to the attestation once, even if it has multiple product certifications. All health IT developers must make one of the following attestations:

In the affirmative

In support of enhanced marketplace transparency and visibility into the costs and performance of certified health IT products and services, and the business practices of health IT developers, Our Company hereby attests that it will provide in a timely manner, in plain writing, and in a manner calculated to inform, any part (including all) of the information required to be disclosed under 45 CFR § 170.523(k)(1) under the following circumstances:

- **To all persons who request such information.**
- **To all persons who request or receive a quotation**, estimate, description of services, or other assertion or information from [*Developer Name*] in connection with any certified health IT or any capabilities thereof.
- **To all customers prior to providing or entering into any agreement** to provide any certified health IT or related product or service (including subsequent updates, add-ons, or additional products or services during the course of an on-going agreement).

-- OR --

In the negative:

Our Company hereby attests that it has been asked to make the voluntary attestation described by 45 CFR § 170.523(k)(2)(i) in support of enhanced marketplace transparency and visibility into the costs and performance of certified health IT products and services, and the business practices of health IT developers. **Our Company hereby declines to make such attestation at this time.**

-- OR --

Self-Developer:

Our company hereby attests that it is a self-developer exempt from the disclosure requirements at 45 CFR 170.523(k)(1)(iii) and 170.523(k)(2). Our company further attests that as a self-developer it does not and will not market, sell, or license its certified Health IT Module(s).

Appendix B: End User Survey

1. How do you electronically exchange patient summary records with other providers and hospitals outside your practice or medical center? Select all that apply.
 - a. Using our EHR and sending through a HISP.
 - b. Using a state or local HIE.
 - c. Using API like FHIR.
 - d. Using a health information networks (HIN) like CommonWell or Carequality.
 - e. Using our EHR developer's internal exchange network.
 - f. Interface connection between EHR Systems (e.g. HL7 Interface)
 - g. We use non-electronic (i.e., paper) methods.
 - h. Not sure how our patient summary records are electronically exchanged

2. How often do you use an API interface like FHIR to exchange patient data records with other providers and hospitals outside your practice or medical center?
 - a. Very often and it is primary method of exchange.
 - b. Very often but it is not our primary method of exchange.
 - c. Occasionally but we expect its use to increase.
 - d. We use an API very infrequently.
 - e. We do not currently use an API.

3. How easily are you able to electronically exchange patient summary records with other providers and hospitals outside your practice or medical center?
 - a. It works well, and we encounter very few interoperability issues.
 - b. It works, but it requires some occasional internal or external support to address various interoperability issues we encounter.
 - c. It largely does not work well and requires extensive on-going support to complete basic exchanges.
 - d. It does not work, and in practice we are not able to regularly electronically exchange patient summary records with other providers and hospitals.

If choices b, c, or d are selected, then prompt for this question:

- 3a. What are the interoperability issues you are encountering? Mark all that apply.
- i. C-CDA summary records sent or received are missing or have inaccurate patient details.
 - ii. Problems with patient matching and confidently identifying correct patient for exchange.
 - iii. Challenges in reconciling and incorporating received patient data.
 - iv. Inability to successfully connect to external system to transmit and receive messages.
 - v. Other errors or problems – please list: _____

4. Do you ever electronically exchange patient summary records in bulk (e.g., upload 100+ patient records at one time to a local HIE or registry)?
 - a. Yes, and we use our EHR's data portability functions to export large number of patient files and submit them to an external source. This works well without any notable problems.
 - b. Yes, and we use our EHR's data portability functions to export large number of patient files and submit them to an external source. However, we often encounter interoperability issues attempting this.
 - c. Yes, but we use another health IT service or system besides our EHR to do this.
 - d. Yes, but I am not sure the process for how bulk export is done.
 - e. No, we do not currently do bulk patient file export.

If choice b is selected, then prompt for this question:

- 4a. What are the interoperability issues you are encountering? Mark all that apply.
 - i. C-CDA summary records created do not contain all the necessary patient information.
 - ii. Developer procedures and policies hinder this effort.
 - iii. Export process is not robust and takes too much time.
 - iv. Problems transmitting or uploading the data after it is extracted.
 - v. Other errors or problems – please list: _____

5. How often do you use a bulk electronic exchange of records with other providers and hospitals outside your practice or medical center?
 - a. Very often and it is primary method of exchange.
 - b. Very often but it is not our primary method of exchange.
 - c. Occasionally but we expect its use to increase.
 - d. We use a bulk exchange very infrequently.
 - e. We do not currently do any bulk exchanges.

6. If you send electronic prescriptions, how easily are you able to use this capability in terms of successful exchanges with pharmacies without problems?
 - a. We do not have any notable issues with electronic prescriptions.
 - b. We have some occasional problems with electronic prescriptions, but it largely works without issue.
 - c. We have notable issues with electronic prescriptions which regularly impede use.
 - d. We have significant issues with electronic prescriptions and most often use paper prescriptions.

If choices b, c, or d are selected, then prompt for this question:

6a. What are the interoperability issues you are encountering? Mark all that apply.

- i. We have problems electronically sending new prescriptions.
- ii. We have problems electronically canceling a prescription.
- iii. We have problems electronically refilling a prescription.
- iv. We have problems electronically receiving fill status notifications.
- v. We have problems electronically receiving medication history information.
- vi. Other errors or problems – please list: _____

7. How do you submit quality measures?

- a. Creating QRDA files from our EHR and directly submitting them ourselves to CMS.
- b. Creating QRDA files from our EHR and using a qualified registry or QCDR to submit to CMS.
- c. Utilizing another type of electronic files or interface besides QRDA and using a qualified registry or QCDR to submit to CMS.
- d. We either do not submit quality measure or utilize a different method for submission.

8. If you have attempted to utilize QRDA files created by your EHR for quality measure submission, have you run into any issues using them (either in generation or calculation error) for CMS Attestation?

- a. We have not had any notable issues with our QRDA files.
- b. We have some occasional issues with our QRDA files, but it largely works without issue.
- c. We have notable issues with our QRDA files which regularly impedes our ability to attest.
- d. We have significant issues with our QRDA files.
- e. This is not applicable for our system.

If choices b, c, or d are selected, then prompt for this question:

8a. What are the interoperability issues you are encountering? Mark all that apply.

- i. The QRDA files are rejected due to conformance errors.
- ii. The quality measure calculations are not accurate.
- iii. The group reporting details or other quality payment program requirements are incorrect.
- iv. Other errors or problems – please list: _____

9. For submission to public health registries, including but not limited to immunization and syndromic surveillance, describe the level of interoperability?
 - a. We do not have any notable interoperability issues with public health registries.
 - b. We have some occasional interoperability issues with public health registries, but it largely works without issue.
 - c. We have notable interoperability issues with public health registries which regularly impede interoperability.
 - d. We have significant interoperability issues with public health registries.
 - e. We don't electronic exchange data with public health registries.

If choices b, c, or d are selected, then prompt for this question:

- 9a. What are the interoperability issues you are encountering? Mark all that apply.
 - i. The public health files are rejected by the registry.
 - ii. The public health files are missing necessary data required by the registry.
 - iii. Unable to connect to and upload files to the registry.
 - iv. Other errors or problems – please list: _____

10. From a financial perspective, what is the current level of funding your organization commits yearly to improve interoperability between EHR systems with respect to better electronic and immediate access to patient data?
 - a. More than 15% of our budget.
 - b. At least 10% of our budget.
 - c. At least 5% of our budget.
 - d. At least 2% of our budget.
 - e. 1% or less of our budget.
 - f. I do not know.

11. From a financial perspective, what level of future commitment would your organization make to improve interoperability between EHR systems with respect to better electronic and immediate access to patient data (this might include EHR software or other tools)?
 - a. It is worth an increase of at least 10% of our budget if we can have viable and improved interoperability.
 - b. It is worth an increase of at least 5% of our budget if we can have viable and improved interoperability.
 - c. It is worth an increase of at least 2% of our budget if we can have viable and improved interoperability.
 - d. It is worth an increase of less 1% of our budget if we can have viable and improved interoperability.
 - e. We would not allocate additional money to achieve this level of interoperability.
 - f. I do not know.

12. If a test tool was developed to improve real-world interoperability, what do you feel would be the main benefits of this type of tool? Check all that apply.
- a. Recognizing interoperability problems before go-live date of a new version of your EHR or health IT system.
 - b. Assisting in identifying and resolving problems interoperability problems after deployment of your EHR or health IT system.
 - c. Annual or regular quality checking of your health IT network and its level of interoperability with other system.
 - d. Evaluating the interoperability of potential new health IT system or products before purchasing and adding them to your health IT network.
 - e. Providing a neutral means to prove information blocking is not occurring within your health IT system.