NAACCR is firmly committed to changing its Standards Volume II data exchange format from fixed-width to an Extensible Markup Language file format (XML) as part of the next NAACCR Volume II update for 2021. An original plan and timeline for this change was approved by the NAACCR Board of Directors at their September 2017 meeting and was revised in April 2019 based on recommendations by the High-Level Strategic Group to not implement any changes to data collection requirements or the data exchange layout in 2020 due to the burden of 2018 data changes. The new plan is to remove all fixed-width definitions from the next version of the Volume II Data Dictionary, currently planned to be released in 2021, ending support for fixed-width data exchange files created with that version of the standard and later.

The move to adopt an XML-based data exchange format addresses the rigidity and extensibility limitations of the current fixed-width format as the NAACCR community seeks to provide leadership in an era of personalized medicine, increasing pace of scientific breakthroughs, and rapidly changing data standards. XML will provide greater flexibility in defining and transmitting NAACCR data items, allowing cancer surveillance to keep pace with the rapidly changing needs of the clinical, research, and cancer surveillance communities. XML will also eliminate the loss of data due to restrictions in the fixed-width format for large data items critical to cancer surveillance such as clinical text. In addition, it will enable greater semantic interoperability with healthcare data standards that have already moved to XML.

Transitioning from the fixed-width data exchange format to NAACCR XML will require a coordinated effort throughout the NAACCR Community, including input from many Steering Committees and Workgroups. Discussions between the NAACCR XML Workgroup, Standardization and Registry Development Steering Committee, and the Communications Steering Committee have been ongoing as the standard is developed, tested, and implemented.

The NAACCR organization will be focused on meeting the needs related to this important transition to XML for the various cancer registry, cancer surveillance, and standard setter stakeholders. NAACCR will provide communication, webinars, documentation, other training, tools, and FAQs to support the rollout timeline. The following tasks will be part of that effort:

1. The NAACCR organization should continue to prominently raise awareness of the freely available NAACCR XML software tools provided by SEER and the NPCR program that allow fixed-width NAACCR files to be converted into NAACCR XML.
2. The NAACCR organization will continue to support the input and output of NAACCR XML in the NAACCR Prep Tool for the annual NAACCR call for data.
3. The NAACCR organization strongly encourages and accepts, but does not require, all NAACCR Call for Data submission files in the most recent NAACCR XML format (currently v1.4).
4. NAACCR will continue to assess the rate of registry participation in the XML format call for data submissions. Non-participating registries should be surveyed to assess the barriers.
registries encountered in submitting XML files. This implementation plan will be modified as needed based on this assessment.

5. The XML Workgroup shall provide an annual NAACCR webinar until XML has been fully implemented for the NAACCR community, including cancer registry software vendors (central registry, hospital registry, commercial and custom) that will provide a forum to publicize the XML implementation plan and solicit information about vendor readiness to provide XML output capability within this proposed timeline.

6. The NAACCR organization will continually update its software tools for processing the annual call for data files so that they can natively consume the latest version of the NAACCR XML standard instead of relying on a conversion to the fixed-width format. The current version of the NAACCR XML data exchange standard is backward compatible with the fixed-width format, allowing conversion both to and from XML using software tools provided free by the SEER and the NPCR programs. However, in order to provide a foundation for the most advanced features of XML, software tools that consume and analyze data exchange files should be updated as soon as possible to handle NAACCR XML natively.

7. The NAACCR organization will require the 2020 and all later NAACCR Call for Data submission files to be in the most recent NAACCR XML format.

8. Starting with the next Volume II Data Dictionary changes (typically these would be planned in 2020 and rolled out for 2021 diagnoses and later), NAACCR will no longer support fixed-width formatting. All references to column start, column end, and any other metadata related to the fixed-width format will be removed from the NAACCR Volume II Data Dictionary and other NAACCR documentation where necessary. Once this happens, facility registry software will no longer be able to rely on a NAACCR-defined fixed-width data exchange format. This essentially will end support for the fixed-width format at both the state and national levels.
NAACCR Plan to Implement XML
June 2019