

## Data Warehouse/ Business Intelligence Vendor Fair Takeaways

Software, or Service Demonstrated	Description of Item/ Functionality Demonstrated
Database/Data warehouse "Sandbox"	A sandbox allows super users to create a separate instance of data from the Data Warehouse to support predictive analysis by changing specific program parameters to determine the effect of a change prior to implementation of a change.
Ad-Hoc Toolsets	Provides functionality to allow users to perform more in-depth focused data queries.
Dashboard	<p>Provides quick views of the results of data analysis based on defined parameters. Many of the tools demonstrated indicated some level customizability. Dashboards can be designed based on the level of information the user or audience (Executives) needs.</p> <p>Dynamic dashboards were available allowing the analyst to drill down into components of the dashboard for additional detail.</p>
State Portal	An online portal that allows State users access to dashboards, data queries, reports, and other tools. The level of access is typically based on role-based security. In some cases, these portals can be integrated into different computer types and have touch screen functionality.
Provider Portal	An online portal to allow providers to access client / claim specific data and run reports based on assigned role-based security.
Public Portal	An online portal to allow populations (e.g. recipients, citizens, legislature) access to specific segments of data via reports based on information needs and role-based security.
Social Network Analysis	Tool builds relationship models for the user based on recipient demographic and claims data.
Fraud, Waste and Abuse Tools	The tools typically perform some level of case management or data analysis to track anomalies in data that indicate the potential for Fraud, Waste and Abuse.
Flexible Platform	The platform is structured with foundational tools allowing the data to come in and be cleansed and then made available to different analytical tools. A flexible platform allows the State to change out components as needs change.
Integration with 3 <sup>rd</sup> parties	Integration with 3 <sup>rd</sup> parties means the State can leverage information from other data sources to support Fraud, Waste and Abuse investigations and management.

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	In addition, tool integration of 3 <sup>rd</sup> party data allows users to see data from different sources in a single view.
Mobile Apps	Provide access to 3 <sup>rd</sup> party tool via mobile devices.
Geographic Information System (GIS) integration	Solutions incorporate different software tools to allow users to conduct geospatial analysis or incorporate geography into other types of analysis.
De-identify Data Sets by Access Level and Type	The display of data within data sets in the warehouse and analytical tool can be de-identified based on the type of user (e.g. super user, executive), security access level, or by the type of data (e.g. sensitive diagnosis data – Ebola, HIV). This allows for specific population analysis without association with individual recipients and only gives Minimum Necessary access to data as required by HIPAA.
De-identify Data by Data Mart, Data Set or Data Field	The display of data within a Data Mart, data set, or data field can be de-identified to support the user’s ability to conduct analysis without access to identifier data elements that are unnecessary to perform the desired analysis.
Hadoop Data Tools	Allows the State to store data in its original form not losing any data fidelity in case it is needed for reprocessing. These tools provide storage of this data in a cost effective manner and have parallel processing capabilities. The solution is able to turn data into actionable information more quickly. The Hadoop is a leverage commodity hardware solution so it can be expanded without more creation.
Health Outcomes and Quality Analysis Tools	Analytical tools that use claims data (e.g. diagnosis codes, procedure codes, etc.) in combination with other data sources to evaluate and assess health outcomes and quality of services.
Data Staging Tools	Tools that pull data together from disparate sources and in structured and unstructured formats. The data then is sorted, vocabulary and business rules standardized, and organized for analysis.