



iPASS

Aggregation and Search of Disparate Data

NBI was the lead team of subject matter experts within a major defense contractor's award-winning development project, iPASS. NBI's staff was involved in the lead roles of every aspect of this project, including proposal and budget award, requirements gathering, technology selection, coding, and deployment.



iPASS replaced the legacy tool Path Finder that, over the years, had become unusable. This outdated solution hobbled the processes of locating the parts and assemblies that are allowed in products developed for national defense. Beyond the project's flawless eight-month execution duration, iPASS is credited with a yearly ROI of more than \$27 million. Subsequently, this effort won the defense contractor a place in the *CIO Magazine* Top 100 in 2012.



NOW BUSINESS INTELLIGENCE



iPASS

Aggregation and Search of Disparate Data

Using NBI's extensive expertise in .Net, Solr, and database engineering, the completed solution aggregated disparate data and created a singular tool which could search intelligently and automatically refine its results based on all available information. The project team implemented an Oracle database staging environment to perform an ETL (extract, transform, and load), so as to compile and normalize the disparate data. Using Solr, NBI created a multi-faceted search engine that allowed users to see into residual inventory and immediately transfer it into their "working" inventory.

iPASS was programmed to recommend approved vendors if the part was not in stock. The system would also suggest approved vendors who could manufacture the part if no qualified vendors could supply them. The system performed efficiently, mitigated major security risks, and provided a 400% ROI within the first year of operation.

CIO
100