



VISTA REPORTING AND DASHBOARDING SOLUTION

As anyone who has worked in healthcare and related support industries knows, it isn't enough to treat patients and keep a record of their treatment; you must be able to document that treatment is appropriate, safe, delivered in the right way at the right cost, and that all appropriate laws and regulations have been observed. This means that, in addition to keeping an accurate record of each patient's care, providers must generate an ever larger number of reports at daily, weekly, monthly and yearly intervals. As an industry-leading innovator in Healthcare IT applications, KRM has tackled the long-standing frustration of users who must produce reports from Vista.

Vista's reporting methodology has always been cumbersome for users.

While Vista and its derivatives are arguably the most flexible and robust platforms for generating and storing medical records data, the technology is not user-friendly as far as being able to easily manipulate the data in order to produce reports or create graphical representations of specified data over time or across a wide sampling of patients. The ability to use such tools as InterSytem's Caché to create a SQL projection from Vista empowers those tasked with population management or compliance reporting to access the data for analysis and reporting.

Although any data source will work, our preference is to utilize open technology to the greatest extent possible, to ensure that future users have the most cost-effective solution.

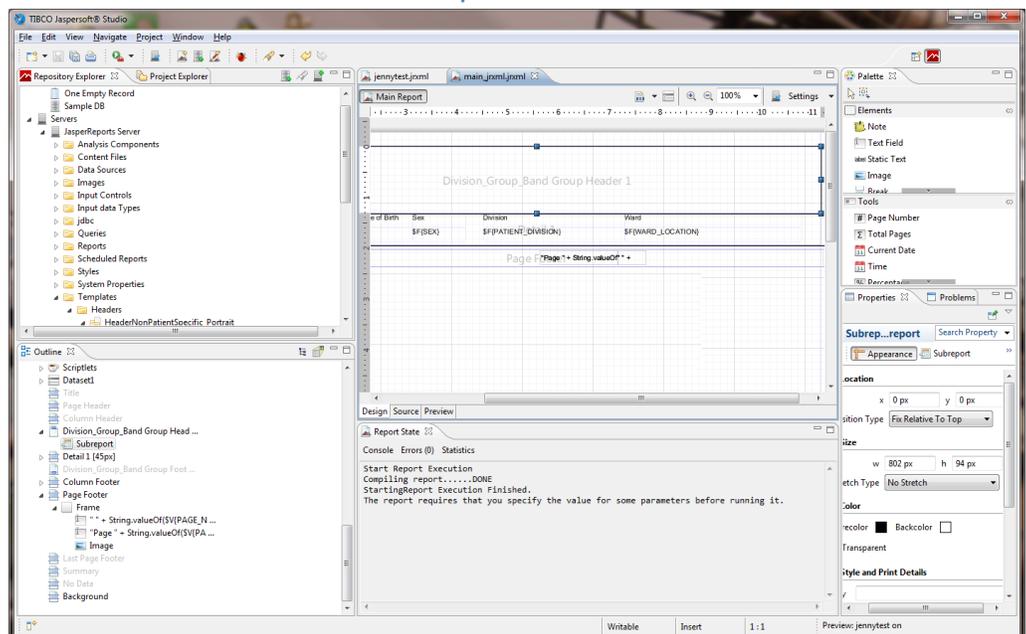
OUR OPEN-SOURCE REPORTING & DASHBOARDING SOLUTION:

Jaspersoft Studio is the new Eclipse-based report designer for JasperReports and JasperReports Server. It is a full rewrite of iReport Designer, available as an Eclipse plugin, and as a standalone application. Jaspersoft Studio allows you to create sophisticated layouts containing charts, images, subreports, crosstabs and much more.

Our all open source stack for Vista reporting is as follows:

- Ubuntu 15.04 => latest
- TIBCO JasperReports server 6.0.1 => latest
- Apache Tomcat
- Postgresql
- Unity Desktop => (optional, used to troubleshoot Jasper locally)
- Caché Ensemble 2012
- JDBC Driver connection to Caché
- FM2Caché (Caché built-in) for mapping to SQL
- TIBCO JasperSoft Studio 6.1 => latest.

JasperSoft Studio

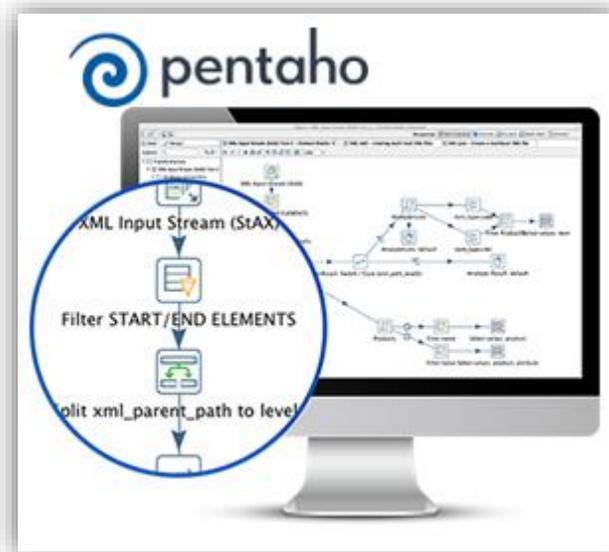




REAL WORLD SOLUTION

In a large deployment of a Vista-derivative that required several dozen standard reports for monitoring prescribing trends, patient safety, and potential over-charges, the initial decision was to try to produce the reports directly from the M database, but the amount of MUMPS programming required was daunting. Using the FM2Caché built-in to carefully map the Vista packages to SQL allowed developers to write the data queries in standard SQL.

Report templates were created in Jaspersoft Studio, tweaked for desired output format, and then the SQL queries incorporated to pull data to populate the reports. The JasperReports Server dashboard allows the use of input controls to constrain and filter the data being pulled and, as indicated previously, the reports can be exported in a variety of formats including PDF for printing traditional static 'snapshot' reports and XLS for dynamic manipulation and filtering capability.



TAKING IT TO THE NEXT STEP

When combined with a business analytics and data integration tool like Pentaho® for end-user visualization, as well as data manipulation and analysis, the Jasper report solution can meet the need for a robust, open-source solution that allows medical data, whether for the individual user or in the aggregate for financial, administrative, population health, and quality care purposes, to be displayed in clear and coherent ways.

Let our experienced team of creative and innovative analysts and developers craft a solution for your needs that will make all of your stakeholders happy – one that is cost-effective, user-friendly, flexible, and scalable to any size enterprise.



KRM Associates
Reporting & Dashboarding

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Patient Census by Location

Patient Name	Sex	DOB	Care Location	Admission
ZZTESTPATIENT.SIX F	UNKNOWN	Jun 8, 2014	02 ESCAPE WARD	8
ZZTESTPATIENT.SEVEN F	FEMALE	Jun 5, 1982	02 ESCAPE WARD	12
ZZTESTPATIENT.EIGHT M	MALE	May 4, 1964	05 SECURE CARE	24
ZZTESTPATIENT.TEN U	UNKNOWN	Jan 20, 1981	02 ESCAPE WARD	14

Printable Report sample and the JasperSoft Report Generation display, including the input control panel (right)

