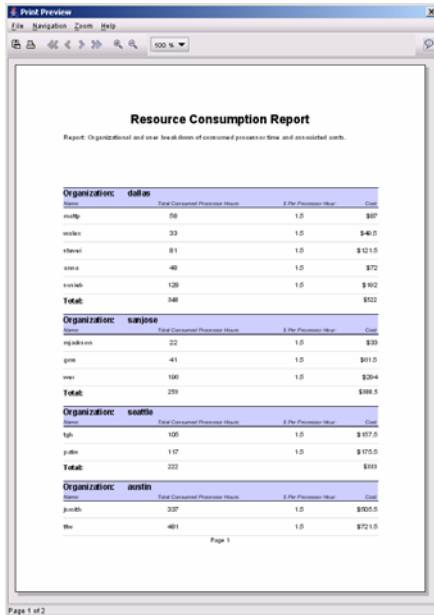


Control Masters Application Case Study

## Custom Data Collection



**Resource Consumption Report**  
Report: Organizational and view local data of consumed processor time and associated costs.

Organization: dalme			
Name	Total Consumed Processor Hours	& Per Processor Hour	Cost
sculp	58	1.0	\$47
sculcr	33	1.0	\$46.0
stavei	81	1.0	\$121.0
stava	48	1.0	\$72
stvald	128	1.0	\$162
<b>Total</b>	<b>348</b>		<b>\$522</b>

Organization: saujose			
Name	Total Consumed Processor Hours	& Per Processor Hour	Cost
sculcr	22	1.0	\$29
gpm	41	1.0	\$61.0
scul	196	1.0	\$294
<b>Total</b>	<b>259</b>		<b>\$384.0</b>

Organization: souths			
Name	Total Consumed Processor Hours	& Per Processor Hour	Cost
lgh	105	1.0	\$157.0
pldr	117	1.0	\$175.0
<b>Total</b>	<b>222</b>		<b>\$332</b>

Organization: austin			
Name	Total Consumed Processor Hours	& Per Processor Hour	Cost
pmdb	237	1.0	\$355.0
lra	481	1.0	\$721.0

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### Technologies

Networking  
Data Management & Archiving

### Services Provided

Microsoft Windows 2000 Networking  
Rockwell Plantmetrics Implementation  
Consulting

### Software Utilized

Rockwell Plantmetrics  
Rockwell RSSQL  
Kepware Enterprise Server  
Microsoft Windows 2000 Server  
Microsoft SQL Server

### Project Description

Rockwell Software's Plantmetrics was implemented at this plant to provide material usage totals for one production area that contains seven lines of equipment.

Prior to the Plantmetrics installation, material usage totals for this production area were collected in the PLC and the report generated through an Interact HMI system. This Interact system was being replaced with another product that did not offer reporting capabilities.

At the time of this implementation, the default Plantmetrics capabilities for production and efficiency reporting were not used. Custom data collection through the integration of RSSQL and Plantmetrics was used to allow miscellaneous data to be collected and stored in the Plantmetrics SQL database. Plantmetrics report objects were customized and configured to report on this data. Future projects will utilize the default Plantmetrics capabilities to track machine production and efficiency on various lines in the plant.

RSSQL was used to collect data from totalizers in the PLC through a Kepware OPC server connected to a TI 505 PLC. This data was collected near the end of a shift and stored in the Plantmetrics SQL database. Three sets of RSSQL triggers, one per shift, were configured to ensure that no collection time was missed. Once data was collected and verified, RSSQL was used to trigger the PLC to clear the totalizers.

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Reporting on this data was performed through the Plantmetrics Production Manager. A report was designed using custom report objects that pulled data from the SQL database. Additional items in the report included company logos and other company information. Since the report itself is written in HTML, Javascript was used to populate fields such as the time and date of the report.

Reports were scheduled through the Production Manager Report Scheduler to be printed at the end of each shift at a printer that was located in the production office. At the same time, a PDF version of the report was generated and stored on the server as a backup.

For this project, Plantmetrics and RSSQL provide an easy, customizable data collection system that generates both printed and archive copies of Production Totals reports. This project also allowed older HMI software to be replaced with up-to-date, supported HMI application software.