Connecticut Assessment Forum
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eMetric’s Sigma System

Amy Schaefer, Lindsey Stringer, and Jeff Sun
1. eMetric Overview – Amy Schaefer
2. sigma Overview – Lindsey Stringer
3. sigma Demo – Jeff Sun
4. Q&A – Amy Schaefer
eMetric is a provider of K-12 web-based assessment and reporting solutions as well as psychometric services for school districts, state education agencies, and testing organizations.
Mission Statement

eMetric strives to create innovative solutions that empower educators and those they serve by making data more usable through technology. To further this mission eMetric focuses on innovation, collaboration, and customization.
Past & Present

eMetric has made an impact on the education testing industry because our solutions offer a unique combination of educational research, statistical sophistication, and the latest technology. These solutions, in general, are offered as an ASP service that provides our clients with flexible access to the data without having to be concerned with the infrastructure.
Huixing Tang, Ph.D. has a long history of providing psychometric services to the State of Connecticut.

Since 2000, eMetric has provided online reporting services to the State of Connecticut via CTReports.com.
sigma: Overview

sigma 1.0
Summer 2010

Data Systems
Analytics
Assessment

sigma

Intelligence

sigma 2.0
Early 2011
### Data Systems

**Data Warehouse**
- Wide variety of data domains across multiple systems

**Data Integration**
- SIF based integration

### Analytics

**Dashboard**
- Customizable widgets and measures

**Interactive worksheets**
- Student roster, summary, and individual reports

### Assessment

**Web-based**
- Integration with eMetric’s iTester™ application

**Comprehensive Solution**
- Formative and summative assessments
- Item authoring
- Item selection
- Form construction
- Student data management
- Test scheduling and administration
- Scoring and reporting
Intuitive user experience
Permissions-based, multi-level data access
Seamless Single Sign On (SSO) using local network accounts
Mobile friendly
SIF (Schools Interoperability Framework) allows data interoperability across software applications through a central communication point.

Sigma’s hybrid agent is a unique subscriber and responder solution to solve data coverage gaps.

- Pulls data from supported and unsupported data domains by vendors’ SIF agents.
- Give districts access to data from legacy systems.
- Makes legacy systems SIF compliant.

Data you will see on sigma was pulled from a district’s PowerSchool™ application, is the most recent data, and updates automatically with the agents.
sigma: SIF and Hybrid Agent
**sigma: Data Organization**

- **Domains**
  - (E.g.: Attendance)

- **Measures**
  - **Group Measure**
    - (E.g.: Avg Attendance Rate)
  - **Individual Measure**
    - (E.g.: Attendance Rate)
  - **Instance Measure**
    - (E.g.: Class Period Attendance)
Based on district feedback, eMetric identified the most frequently requested data and created initial Measures (e.g. Attendance Rate, Graduation Rate) to report that data.

<table>
<thead>
<tr>
<th>Domain</th>
<th># Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline</td>
<td>12</td>
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<tr>
<td>Attendance</td>
<td>11</td>
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<tr>
<td>Academic</td>
<td>8</td>
</tr>
<tr>
<td>Enrollment</td>
<td>6</td>
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<tr>
<td>Teacher</td>
<td>5</td>
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<tr>
<td>College Readiness</td>
<td>7</td>
</tr>
<tr>
<td>Demographics</td>
<td>13</td>
</tr>
<tr>
<td>Assessment/Accountability</td>
<td>55</td>
</tr>
</tbody>
</table>

More domains (i.e. Human Resources, Financial, Food Services) will be added in the future. If SIF supports it, sigma can show it.
sigma
2010
• Custom measures
• Publishing and sharing widgets
• Publishing and sharing reports
• Course grade, discipline, and other data domains

2011
• Integrated assessment solution
• All data domains
• Wider SIF compliant system support
Q&A