

**Response to
Maricopa County Education Service Agency**

**Request for Information
MCESA REIL Assessment System**

**Submitted April 20, 2012
2:00 p.m. Mountain Standard Time**

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Technology to
Promote Learning**

Submitted by:

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Mr. Paul Aguilar
Procurement Officer
Maricopa County Office of Procurement Services
320 West Lincoln Street
Phoenix, Arizona 85003-2494

Dear Mr. Aguilar,

This letter of interest accompanies an electronic submission of the response from Assessment Technology, Incorporated (ATI) to the Maricopa County Education Service Agency (MCESA) Request for Information (RFI No. 12055) titled MCESA REIL Assessment System. ATI understands that MCESA is seeking information from qualified firms for an Assessment System (AS) as part of the Rewarding Excellence in Instruction and Leadership (REIL) program. The AS should provide the ability to develop, deliver, and store assessments and assessment results and perform result analysis. The AS should provide several key features and functions including authoring, test set up, administration, scoring, reporting, and system support.

ATI has an established history of success providing services of the type requested in the MCESA RFI. ATI Pre-K and K-12 clients have student populations ranging in size from 200 to 60,000 students and are located throughout the United States. ATI's corporate offices are in Tucson, Arizona. As of this writing, ATI serves 404 clients including 182 K-12 school districts and charter schools in Arizona. ATI currently serves five of the six MCESA REIL grant member school districts. During the 2011-12 school year, ATI is partnering with MCESA on two projects including 1) a pilot of ATI's Instructional Effectiveness (IE) pretests, posttests, analyses and reporting features in support of MCESA's REIL grant with a focus on student performance assessment in math, reading, science, and writing for grades kindergarten through high school, and 2) the development of valid, reliable assessments for use in teacher evaluation in content areas not traditionally assessed at the state level with an initial focus on music, art, and physical education. ATI and MCESA are also engaged in ongoing discussions regarding the creation of items aligned to the Arizona State Standards and Academic Performance Objectives in social studies.

ATI proposes to provide the Galileo K-12 Online Instructional Improvement System (IIS) to meet MCESA's need for an Assessment System. ATI's flagship application, Galileo K-12 Online, has evolved in response to client needs, changing federal and state requirements, ongoing research in educational assessment and instruction, and advances in technology. Today, ATI provides clients with a complete online assessment and instructional improvement system including valid, reliable assessments aligned to standards as well as a broad range of online modules designed to promote student learning via rapid and flexible access to assessment and reporting as well as instructional and intervention tools. The effectiveness of Galileo in assisting districts to elevate student achievement is documented by independent research funded by

recipients of a federal grant administered by the Massachusetts Department of Elementary and Secondary Education and conducted by the MAGI Services Company.

The Galileo IIS will provide MCESA with the requested capabilities including authoring, test set up, administration, scoring, reporting, and system support as well as a variety of elements critical to the successful implementation of the Assessment System described in the RFI:

- **Item Banks and Support for Item Development.** Galileo includes large secure and community item banks which collectively contain more than 80,000 standards-aligned items and writing prompts, of which over 60,000 are aligned to the Arizona State Academic Standards and Performance Objectives in math, reading, science, and writing. More than 36,000 of these items are also aligned to Arizona Common Core State Standards in math and English language arts. ATI's *Bank Builder* and *Test Builder* technology also will enable MCESA to create high-quality items. ATI's dedicated professional item writers are continuously adding new items to expand these banks as well as in response to new research, changing standards, and district requests and feedback. For example, ATI's item writers are currently writing constructed-response, performance-based, and innovative, interactive assessment items to assist districts as they transition their assessments and curricula to align with Common Core State Standards and multi-state assessment consortia such as PARCC.
- **A Comprehensive Assessment System and Support for Assessment Development.** For more than a decade, ATI has used Galileo to provide districts in our home state of Arizona and other states with a variety of types of pre-built and customized assessments including formative assessments, pretests, posttests, placement tests, screening tools, interim and end-of-course examinations, and benchmark assessments, that allow the forecasting of performance on statewide tests (e.g., Arizona's Instrument to Measure Standards), provide the ability to track ongoing classroom progress, and inform instructional decisions. The comprehensive assessment system also provides instructional effectiveness assessments. MCESA can use Galileo's *Test Builder* and *Assessment Planner* technology to develop and administer assessments for grades kindergarten through twelve including test forms for field tests, standardized assessments for both traditionally and non-traditionally tested content areas, and district and classroom assessments. ATI's *Automated Scoring Key (ASK) Technology* will also enable MCESA to upload assessments developed outside Galileo and administer, automatically score (for selected-response items), and report on these assessments using Galileo.
- **ATI Expertise in Educational Measurement and Research.** ATI conducts Item Response Theory (IRT) analyses to evaluate the functioning of items and assessments and place scores from multiple assessments on the same scale. These analyses will enable MCESA to develop valid and reliable tests that can accurately assess student growth over time. For years, ATI also has been providing districts with IRT analyses of assessments containing constructed-response items that help to ensure that these items are performing as intended. These analyses will provide MCESA with the capability to develop valid, reliable assessments that include constructed-response and performance-based items.
- **Flexible Intuitive Administration and Reporting Tools.** Galileo will provide MCESA with the capability to administer assessments offline, online, or using handheld wireless devices. Galileo reporting capabilities include a variety of ready-made standards-aligned reports that

can be generated at the district, school, class, and student levels and filtered by intervention group, demographic variables, or other variables. These reports include several “at-a-glance” overviews available through *Dashboards* and prompting action.

- **An Instructional Effectiveness System Supporting Districts in Evaluating Educators and Guiding Professional Development.** Galileo includes an integrated *Instructional Effectiveness Assessment System* (IEAS) that provides components to support instructional effectiveness initiatives such as the MCESA REIL grant initiative. These components include student assessments in areas tested on the statewide test along with both assessments in non-state-tested areas and a variety of types of support for assessments in non-state-tested areas. The IEAS also provides the capability to design customized rating-scale educator assessments to assess teacher and administrator proficiency. ATI employs state-of-the-art statistical approaches including Categorical Growth Analysis and hierarchical linear modeling to produce summaries of results in easy-to-understand reports. The IEAS is being piloted in 32 districts/charter schools across Arizona during the 2011-12 school year.
- **Interoperability with Other Systems Including Data Warehousing Systems.** Interfaces are available to support automated data extraction for transfer to data warehouses. Student information, external assessment results, or other data can be imported into Galileo and assessment results can be exported via flat file based modules.
- **Customized Ongoing Professional Development.** ATI has a reputation for providing excellent professional development and technical support. ATI provides a customized on-site and online professional development program focused on the specific needs of each client. Ongoing access to online training modules and support documents also supports continuous training. ATI is very responsive to client needs and works with clients to continue to develop Galileo and to support instructional improvement in the most effective way possible. Many Galileo features have been developed in response to client feedback.

Thank you for this opportunity to describe how ATI and the Galileo IIS can be of assistance to Maricopa County Education Service Agency. ATI is available, at MCESA’s request, to demonstrate the capabilities of Galileo as they relate to the requirements in this RFI. Given ATI’s significant experience with technology and research-based educational management as well as our ongoing track record in currently serving districts in Arizona including MCESA REIL grant member districts, we hope you will agree our company is best suited to fulfill MCESA’s need for services related to an Assessment System.

Sincerely,



John R. Bergan, Ph.D.
President, Assessment Technology, Incorporated

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RFI 3. Requirements

➤ RFI 3. Requirements

○ RFI 3.1. Informational Requirements for this RFI

- **3.1.1. Current install base in Arizona (include references). Provide samples of similar projects completed to date, including largest clients.**

This section presents reference information for seven school districts. These are selected districts including MCESA REIL grant districts that are currently implementing the Galileo Instructional Improvement System (IIS) and where projects involving services similar to those requested in this RFI have been provided. For each district, additional information is presented including a contact name and phone number and a description of the services Assessment Technology, Incorporated (ATI) has provided. Following the reference information, letters of reference from selected ATI clients and partners are provided.

Alhambra Elementary School District

Address: 4510 North 37th Avenue

City, State Zip: Phoenix, Arizona 85019

Contact Name: Mara Wayland

Title: Curriculum Instruction Director

Phone Number: 602.336.2950

Email: marawayland@alhambraesd.org

Description: In 2004, Alhambra Elementary School District issued an RFP for Curriculum Objective Tracking Software. ATI was awarded the contract and has provided the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased Scanline for offline testing and online data aggregation. Galileo K-12 Online is currently serving 14,109 students in the Alhambra Elementary School District.

Gila Bend Unified School District

Address: 308 North Martin Avenue

City, State Zip: Gila Bend, Arizona 85337

Contact Name: Anna-Marie Perry

Title: Business Manager

Phone Number: 928.683.2225

Email: anna-mariep@gbusd.org

Description: In 2010, Gila Bend Unified School District began using the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased Scanline for offline testing and online data aggregation. Galileo K-12 Online is currently serving 460 K-12 students in the Gila Bend Unified School District.

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Isaac Elementary School District No. 5

Address: 3348 W. McDowell Road

City, State Zip: Phoenix, Arizona 85009

Contact Name: Rene Castaneda

Title: Director of Technology

Phone Number: 602.442.2989

Email: rcastaneda@isaacschools.org

Description: In 2008, Isaac Elementary School District began using the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased Scanline for offline testing and online data aggregation. Galileo K-12 Online is currently serving 7,500 K-8 students in the Isaac Elementary School District.

Nadaburg Unified School District No. 81

Address: 32919 Center Street

City, State Zip: Wittmann, Arizona 85361

Contact Name: Micheline Bendotti

Title: Director of Educational Services

Phone Number: 623.388.2122

Email: mbendotti@nadaburgusd.org

Contact Name: Ben Goodman

Title: Computer Literacy Coach

Phone Number: 623.388.2321

Email: bgoodman@nadaburgusd.org

Description: In 2010, Nadaburg Unified School District began using the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. Galileo K-12 Online is currently serving 850 K-9 students in the Nadaburg Unified School District.

Scottsdale Unified School District

Address: 3811 N. 44th Street

City, State Zip: Phoenix, Arizona 85018

Contact Name: Andi Furlis

Title: Assistant Superintendent

Phone: 480.484.6272

Email: afurlis@susd.org

Description: In 2004, Scottsdale Unified School District issued an RFP for Data Technology Tools and ATI was awarded the contract. In 2010, at the conclusion of that contract, Scottsdale Unified School District issued an RFP for Assessment and Instructional Improvement Systems and ATI was awarded the contract. Since 2004 ATI has provided the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased *Scanline* for offline testing and online data aggregation. In Scottsdale, Galileo K-12 Online is currently serving 21,279 K-12 students.

RFI 3. Requirements

Tolleson Elementary School District No. 17

Address: 9261 West Van Buren
City, State Zip: Tolleson, Arizona 85353
Contact Name: Lupita Hightower, Ed.D.
Title: Superintendent
Phone Number: 623.533.3904
Email: lhightower@tesd.k12.az.us

Description: In 2010, Tolleson Elementary School District began using the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased Scanline for offline testing and online data aggregation. Galileo K-12 Online is currently serving 2,412 students in grades 1-8 in the Tolleson Elementary School District.

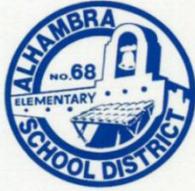
Vail Unified School District

Address: 13801 E Benson Highway
City, State Zip: Vail, Arizona 85641
Contact Name: Debbie Hedgepeth
Title: Assistant Superintendent
Phone: 520.879.2006
Email: hedgepethd@vail.k12.az.us

Description: In 2004, Vail Unified School District issued an RFP for an Assessment Tools System Provider and ATI was awarded the contract. In the spring of 2002, before implementing Galileo K-12 Online, 45 percent of the students at Mesquite Elementary, within the District, had met or exceeded the standard on the fifth grade math AIMS assessment. In the spring of 2003, that number had increased to 61 percent, and by 2004 it had risen to 76 percent. Since 2004, ATI has provided the Galileo K-12 Online Instructional Improvement System, including services related to assessment, curriculum, and reporting. In addition, ATI has provided professional development, technical support, software use support and psychometric services. The District has purchased Scanline for offline testing and online data aggregation. In Vail, the Galileo K-12 Online system is currently serving 7,200 K-12 students.

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- 1. Alhambra Elementary School District



Alhambra School District No. 68

4510 North 37th Avenue • Phoenix, Arizona 85019
(602) 336-2920 • Fax (602) 336-2266

September 17, 2010

To Whom it May Concern:

Our district has a seven-year relationship with ATI as the facilitator of our district management system in the areas of math, reading, writing and science. This has been an invaluable means to provide single source access to curriculum, assessment, monitoring, and reporting tools. The ATI/Galileo implementation has had a direct impact on the achievement growth and success of the 14,000 students we serve.

ATI is a local company and we have found this to be extremely beneficial as they are familiar with the Arizona State Standards and AIMS outcome requirements. During our seven-year partnership they have demonstrated a track record of utilizing high quality item development procedures and validation of test items. Our district prepares a correlation analysis each year to the benchmark assessment results and the relationship of how students performed on AIMS. In reviewing our correlations in grades 3-8, we have found that students who obtained mastery on the three ATI math benchmark assessments also demonstrated between .97 - 1.00 mastery rates on AIMS. These assessments have become an invaluable tool with confirmed validity and reliability in regards to performance on the state outcome assessment.

In addition, ATI has been extremely service oriented. Communication and responsiveness to our district needs is a tremendous asset. We asked ATI to revisit our quarterly benchmarks and customize them for our district to assess skills on our quarterly pacing guides. They readily accommodated this request and their willingness to work with us and deliver every grade level assessment within deadline of our district assessment schedule was phenomenal.

We continue to work in a collaborative partnership with ATI utilizing their technology to assist in facilitating both our benchmark and formative assessments. The instructional dialogue component along with the ability to use our CPS responders in coordination with their system has provided teachers with outstanding tools to receive instant feedback and adjust instruction. ATI continues to meet the needs for our students with an effective data management system that has become a valued tool in our district driving student success.

Sincerely,

A handwritten signature in cursive script that reads "Mara K. Wayland".

Mara K. Wayland
Assistant Superintendent for Academic Services
Alhambra School District

RFI 3. Requirements

- 2. Scottsdale Unified School District



Scottsdale *Unified* School District

Engage, Empower, Educate Every Child Every Day!

February 14, 2012

To Whom It May Concern:

It is my pleasure to write this letter of support of Assessment Technology Incorporated (ATI). The Scottsdale Unified School District has utilized ATI's assessment tool and management system, Galileo, since the 2004-05 school year. We have used Galileo to align our curriculum and assessments as well as provide teachers with valid and reliable data to inform their instruction to support students' mastery of State Standards. Is it based on our work with ATI and the development of benchmark assessments that we believe our students and teachers are better prepared to meet or exceed the standards as demonstrated on AIMS testing.

ATI has provided our district with assessments that are aligned with AZ standards in the areas of math, reading, writing and science. ATI has done this by working collaboratively with teachers and our curriculum team to develop and deliver assessments that align to the state standards and our district's assessment plan. In addition to the items utilized for benchmark purposes, ATI has also produced formative items that our teachers are able to utilize to support their students learning and their instruction.

We appreciate and value ATI's focus on evaluation and research to document the reliability and validity of items and assessments. ATI provides our district with essential data, in a timely manner, to further align our assessment program. These data are provided at the item level (item parameters) as well as the test level (marginal reliabilities) and lastly at the student level (the Risk Assessment report). In addition, we are using ATI to create a common end of course assessments in compliance with Arizona Senate Bill 1040. And, we are using the instructional effectiveness assessments to collect data for House Bill 2732, Move on When Reading.

ATI has provided our district effective predictors of AIMS performance in a timely manner through Galileo. The students, parents, and teachers in my district are able to access data quickly (upon completion of the assessment) and easily through Galileo. ATI has consistently provided exceptional customer service, professional development, and support to Scottsdale Unified School District.

I am proud to recommend ATI as a vendor for your district. ATI has been a fantastic partner for us in Scottsdale Unified School District. Please contact me at afourlis@susd.org if I can provide additional information.

Sincerely,

Dr. Andi Fourlis
Assistant Superintendent Teaching and Learning

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- 3. *Vail Unified School District*



Curriculum Department

13801 E Benson Highway • P.O. Box 800 • Vail, AZ 85641 • 520-879-2000 • FAX 520-879-2001

To Whom It May Concern;

April 29, 2011

The purpose of this letter is to express my support for Assessment Technology, Inc. (ATI).

In 2003 –2004 the Vail Unified School District implemented an aggressive comprehensive school reform model for standard based education. One of the most critical ingredients for our model is an on-line assessment system to evaluate student achievement aligned to the Arizona State Standards.

ATI has provided the necessary expertise to develop assessments from second through tenth grades in math and reading. All these assessments were developed in four quarterly benchmarks aligned with our most essential performance objectives. Additionally, teachers were able to receive immediate feedback on whether or not a student mastered a performance objective. This immediate feedback enabled the teachers to adjust their instruction, create intervention strategies, and place students into remedial or tutoring programs.

ATI has demonstrated effective and proactive communication with the Vail School District. ATI has been responsive to our concerns, questions, and requests for enhancements. This partnership has enabled the school district to develop a comprehensive assessment system aligned to our instruction. Our administration, teachers, parents and students have benefited from this partnership.

Throughout the year, Assessment Technology has consistently demonstrated conscientiousness and genuine commitment to the education of our students.

If you think it necessary or desirable, I would be happy to discuss Assessment Technology Inc, capabilities and qualifications with you in person.

Sincerely,

Deborah Hedgepeth
Assistant Superintendent

"Where Education is a Community Effort"

web site address: www.vail.k12.az.us email: employeev@vail.k12.az.us

RFI 3. Requirements

- 4. WestEd



May 23, 2011

To Whom It May Concern:

WestEd's Local Accountability Professional Development Series has partnered with Assessment Technology, Inc. (ATI) for the past eight years to bring clients a comprehensive accountability system to support improvement in student achievement. We have partnered with them in large and small districts and have found ATI to be responsive to our requests to modify their software to improve the accessibility and easy use of the data for the classroom teacher.

Their research capability and their commitment to high quality assessment services have met WestEd's need for a technology partner that provides "best in class" services for our clients. We continue to work with ATI to introduce and expand their services in AZ, CA, CO, MA, and RI.

As we continue to work with districts in improving student achievement, we find that comprehensive technology solutions with a foundation in strong assessment research are best able to meet the complex needs of our clients. As districts continue to grow in assessment expertise, ATI will be able to help them use a full range of curriculum and assessment tools to provide achievement information to teachers, students, parents, and administrators.

We look forward to continuing to serve the needs of our clients with ATI.

Sincerely,

Joseph Sassone
Director of Integrated Services

1107 9th Street, 4th Floor • Sacramento, California • 95814 t: 916.492.4000 f: 916.492.4002 • WestEd.org

RFI 3. Requirements

- **3.1.2. Provide details of experience supporting service agencies and/or multiple education levels in a single project.**

ATI has over 25 years of experience in conducting work assisting educational programs to use assessment information in educational management and instructional improvement. ATI was among the first companies in the nation to offer online testing and has successfully provided services to a broad diversity of clients varying in location, technology readiness, and size (ranging up to 60,000 students). As of this writing, ATI serves 404 Pre-K and K-12 clients in a number of states. Client satisfaction with ATI's services and products is evidenced by ATI's high client retention rate of approximately 95 percent.

In addition to working with multiple district partners, ATI has worked and continues to work with a number of organizations (e.g., service agencies, non-profit organizations, state departments of education, partner companies) with the goal of enhancing the delivery of services designed to support initiatives to elevate student learning.

For example, ATI has been partnering with Maricopa County Education Service Agency (MCESA) on three related but separate projects during the 2011-12 school year. The first is a pilot of ATI's Instructional Effectiveness (IE) pretests, posttests, analyses and reporting features in support of MCESA's Rewarding Excellence in Instruction and Leadership (REIL) grant. This pilot focuses on student performance assessment in math, reading, science, and writing for grades kindergarten through high school. The second project focuses on the development of valid, reliable assessments for use in teacher evaluation in content areas that are not traditionally assessed at the state level. The first phase of this project focuses on music, art, and physical education. Assessment items in these content areas that have been created by teachers at participating MCESA school districts will be administered and scored via Galileo K-12 Online. ATI will conduct psychometric analyses of the items so that item selection can be refined for the operational tests that will be administered during the 2012 school year. Finally, ATI is in conversation with MCESA regarding the creation of items aligned to the Arizona State Standards and Academic Performance Objectives in social studies.

As another example, in 2011, the Arizona Charter School Association, a non-profit organization that provides support services, advocacy, and leadership to Arizona's 524 charter schools, issued an RFP seeking a complete Assessment and Instructional Improvement Systems solution in the form of a web-based tool that facilitates the implementation of standards aligned assessments and provides the Association's member schools' administrators, principals, teachers, parents, and students with timely access to data and analysis necessary to support instructional decision-making, strategic planning, and accountability needs. ATI was approved as a provider of assessment services and is currently working with the Arizona Charter School Association to meet the needs of member schools.

ATI also works with the state departments of education in Arizona, Colorado, and Massachusetts and is approved as a provider of assessment services in various capacities in these states. One example of ATI's collaboration success with state departments of education is the Massachusetts Instructional Data System Pilot Project. Awarded to ATI in 2005, this multi-year contract was coordinated through the Department's Office of Accountability and Targeted Assistance and focused on the implementation of Galileo K-12 Online and ATI services in seven underperforming Massachusetts districts. The overarching goal of the Pilot Project was to elevate student achievement. Implementation of the Pilot Project included a continuous,

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collaborative effort between ATI, the Department, districts, consultants, and other providers to (1) develop detailed implementation plans, (2) provide targeted training and professional development to project participants, (3) provide ongoing technical assistance and support services to assist districts in their efforts to implement standards-based, data-driven classroom assessment and instruction, (4) enhance the ability of teachers, administrators, parents, and specialists to identify trends in student learning and provide appropriate interventions, (5) develop seminars, reports, and presentations in support of project activities, and (6) implement a research program documenting project outcomes and recommending next steps. The success of the Pilot Project is well documented in the MAGI Services evaluation report (MAGI, 2009) which was funded by Massachusetts districts participating in the pilot who were recipients of a federal grant administered by the Department. The MAGI report is available at http://www.ati-online.com/pdfs/researchK12/MAGI_FinalReport_Feb09.pdf. The findings support the view that student achievement is elevated when teachers use the Galileo benchmark assessments to guide instruction.

Other prime examples of partner organizations and companies include WestEd, Learning Innovations, CORE, eInstruction, Promethean, and Scantron. ATI has attended and led a range of meetings with state educational administrators, project partners, and client districts to help these entities design and implement plans to elevate student achievement. Moreover, ATI has provided a timely and continuous stream of white papers, technical manuals, and supporting documents to assist efforts to promote learning.

ATI's flagship application, Galileo K-12 Online, has evolved in response to client needs, changing federal and state requirements, ongoing research in educational assessment and instruction, and advances in technology. Since ATI's Assessment and Instructional Design staff has extensive experience aligning item banks, assessments, and curricular materials to rapidly changing standards, ATI has been uniquely well-positioned to remap items, assessments, and instructional materials to support the adoption of new standards such as Common Core State Standards. Today, ATI provides clients with a complete online instructional improvement system including a broad range of online modules designed to promote student learning via rapid and flexible access to assessment, reporting, instructional, and intervention tools.

- **3.1.3. Provide details of planned cost structure for project development including any content licensing.**

For cost information, please see the ATI Planned Cost Structure Including Licensing for MCESA REIL Assessment System RFI. This document is provided in ATI Supporting Information Section 1.

- **3.1.4. Provide details of hosting options, i.e., host at MCESA or ASP.**

Galileo K-12 Online is provided as a web-based application hosted on ATI servers. As such, it is accessible from any computer on an Ethernet network that has access to the Internet including Microsoft Windows workstations and Mac-based computers.

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- **3.1.5. Provide details about service level guarantees.**

During the past year, ATI has maintained a Galileo K-12 Online uptime of 99.97 percent, excluding scheduled maintenance of approximately 15 minutes per month. Scheduled maintenance is conducted late at night on weekends, and advance notice is provided to clients.

- **3.1.6. Provide details of timeline for implementation.**

In implementing Galileo K-12 Online success is facilitated through a coordinated team effort involving both the ATI Implementation Team and the MCESA team. The composition of the ATI Implementation Team includes the ATI Project Manager, the Field Services Director and other members of his staff, and the directors of five other ATI departments: Information Technology, Professional Development, Research and Development, Educational Management Services, and Assessment and Instructional Design.

The ATI Project Manager will work with MCESA and the various departments within ATI in developing, formalizing, implementing, and monitoring the mutually agreed to *Implementation Plan* and timeline. The details of implementation, ongoing communication, and on-site work activities will be documented through Galileo's online *Implementation Plan*. During each phase of implementation, the ATI Project Manager and Implementation Team will guide ATI services required to implement the plan to achieve project success. Guidance includes ongoing interaction with ATI key staff and MCESA key staff. Ongoing interaction allows plan adjustments including addressing in a timely fashion unforeseen issues that invariably arise during implementation. All implementation planning is conducted in the context of the *ATI Partnership Model* which engages ATI staff in collaboration with administrators and staff and the *ATI Instructional Improvement Cycle* which links goal-setting and planning with implementation and evaluation in a continuous iterative cycle.

The ATI approach to year one implementation of Galileo K-12 Online involves three stages as depicted in the following schematic. Each stage is linked to a milestone goal and the objectives addressed within that stage are designed to guide implementation toward the achievement of that goal.

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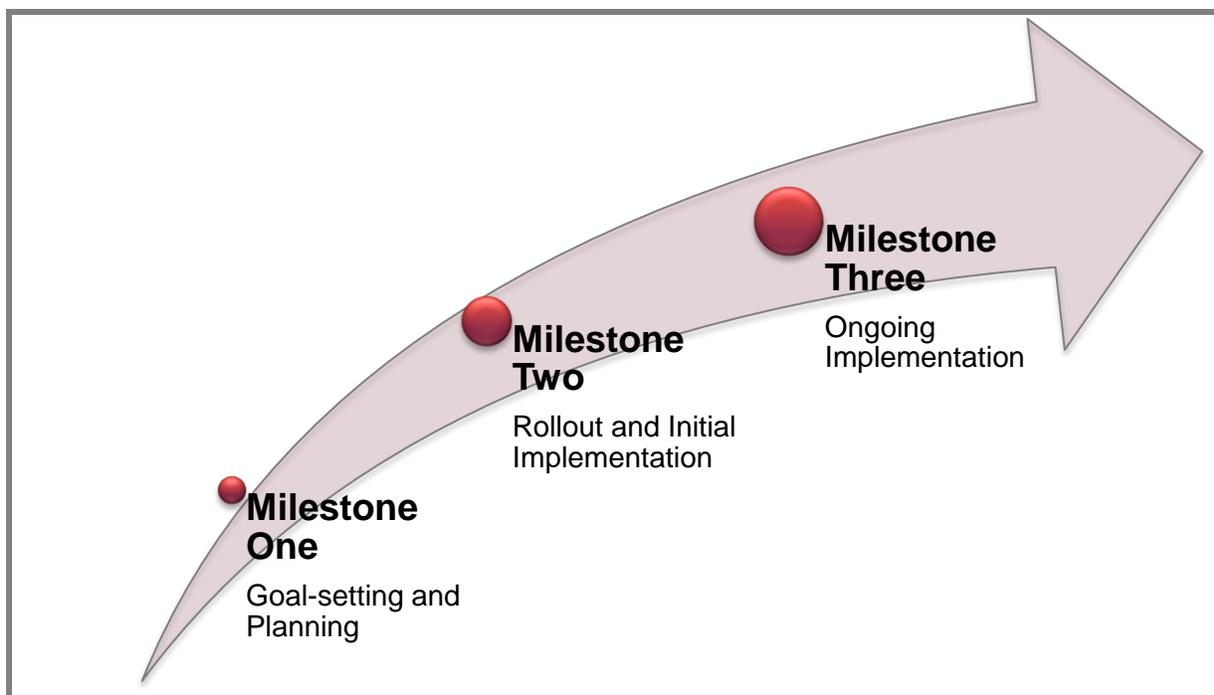


Figure 1
Year One Implementation Milestones

Milestone One focuses on goal-setting and planning. In the stage related to Milestone One, ATI and MCESA implement the *ATI Partnership Model* to: 1) develop a collaborative understanding of MCESA goals related to start-up and project management, item development, assessment development, assessment administration, data analysis, reporting, training/professional development, and data management, and 2) confirm procedures and tools within Galileo that will allow MCESA to meet these goals.

Milestone Two encompasses the rollout and initial implementation of Galileo K-12 Online. In the stage related to Milestone Two, ATI and MCESA test, finalize, and implement procedures agreed to during Milestone One. As part of Milestone Two, initial Galileo professional development occurs including ATI on-site phase one professional development if desired by MCESA. As part of Milestone Two, the initial set of items and assessments is designed, created, administered, and analyzed. Throughout the stage related to Milestone Two, ATI and MCESA continue to optimize and fine-tune the *Implementation Plan* and strategies as necessary.

Milestone Three represents ongoing implementation of Galileo K-12 Online to meet MCESA goals. In the stage related to Milestone Three, ATI and MCESA continue to support stakeholders in maximizing the potential of Galileo tools for item development, assessment development, assessment administration, and reporting. ATI staff continues to provide ongoing support including ATI on-site phase two professional development and web-based ongoing professional development if desired by MCESA. At the end of year one, ATI and MCESA conduct a collaborative review of implementation, including psychometric analysis of assessments that were collaboratively developed by the MCESA school districts, and finalize the *Implementation Plan* for the next year.

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- **3.1.7. Provide details of any additional services available.**

Galileo K-12 Online can provide MCESA with a comprehensive assessment system providing high-quality items and valid, reliable assessments aligned to standards as well as support related to the development of items and assessments by MCESA. Galileo K-12 Online can also provide a broad range of online modules offering rapid and flexible access to innovative assessment, reporting, instruction and intervention tools. Many capabilities of Galileo are indicated throughout the response to this RFI. A comprehensive overview of these capabilities and others is provided in the document titled *The Galileo K-12 Online Instructional Improvement System: A Comprehensive Overview* which can be accessed at the following link: <http://ati-online.com/pdfs/MCESA-RFI-Template-Final.pdf>. This document describes the assessment, reporting, and data management capabilities of Galileo K-12 Online as well as curriculum tools in the system and the professional development, training, and support provided for the system. In addition, the document describes the integrated *Instructional Effectiveness Assessment System* which provides the assessment, data analysis, and reporting components required to support instructional effectiveness initiatives. The remainder of this section presents a brief overview of the distinguishing characteristics of Galileo K-12 Online that make the system ideal for MCESA.

- *1. Item Banks and Support for Item Development*

Galileo includes large secure and community item banks which collectively contain more than 80,000 standards-aligned items and writing prompts, of which over 60,000 are aligned to the Arizona State Academic Standards and Performance Objectives in math, reading, science, and writing. More than 36,000 of these items are also aligned to Arizona Common Core State Standards in math and English language arts. ATI's *Bank Builder* and *Test Builder* technology also will enable MCESA to create high-quality items. ATI's dedicated professional item writers are continuously adding new items to expand these banks as well as in response to new research, changing standards, and district requests and feedback. For example, ATI's item writers are currently writing constructed-response, performance-based, and innovative, interactive assessment items to assist districts as they transition their assessments and curricula to align with Common Core State Standards and multi-state assessment consortia such as PARCC.

- *2. A Comprehensive Assessment System and Support for Assessment Development*

Galileo provides a comprehensive assessment system with a variety of types of pre-built and customized assessments including formative assessments, pretests, posttests, placement tests, screening tools, interim and end-of-course examinations, and benchmark assessments, that allow the forecasting of performance on statewide tests (e.g., Arizona's Instrument to Measure Standards), provide the ability to track ongoing classroom progress, and inform instructional decisions. The comprehensive assessment system also provides instructional effectiveness assessments. In particular, MCESA can use Galileo's *Test Builder* and *Assessment Planner* technology to develop and administer assessments for grades kindergarten through twelve including test forms for field tests, standardized assessments for both traditionally and non-traditionally tested content areas, and district and classroom assessments. ATI's *Automated Scoring Key (ASK) Technology* will also enable MCESA to upload assessments developed outside Galileo and administer, automatically score (for selected-response items), and report on these assessments using Galileo.

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In a comprehensive system like Galileo K-12 Online, results from a variety of assessments can be placed on a common scale. The use of a common scale makes it possible to directly compare results from different assessments. The availability of multiple sources of comparable information offers a more complete picture of academic accomplishments than would otherwise be possible to achieve. A comprehensive assessment system can also increase assessment efficiency. In ATI's comprehensive system, a technology platform common across assessment types is developed to facilitate implementation of the system. The platform includes artificial intelligence routines that guide test construction, test review, test publication, test security, test scheduling, test administration, test scoring, psychometric analyses, reporting, and the provision of actionable decision options. A white paper titled *Composition of a Comprehensive Assessment System* that has been prepared by ATI is available at <http://ati-online.com/pdfs/researchK12/CompositionComprehensiveAssessmentSystem.pdf>. This paper presents a more detailed discussion of the major types of assessments included in a comprehensive system, the purposes of each type of assessment, and the characteristics and procedures required to ensure the effective implementation of each type of assessment.

Galileo K-12 Online assessments are composed of items that have been created, reviewed, and certified for use according to strict guidelines. *Bank Builder* technology and the development of item specifications help ensure that items used for assessments have been carefully aligned to standards. As a result, Galileo K-12 Online benchmark assessments have a high degree of predictive validity, which supports their effectiveness in predicting student performance on statewide assessments. Predictive validity is verified annually by ongoing research. The most recent research investigation into the strength of the relationship between student scores on Galileo benchmark assessments and their scores on the end-of-year statewide assessment revealed a very strong average correlation coefficient of 0.76. In addition, on average, 96 percent of students who consistently demonstrated mastery on 2010-11 Galileo benchmark assessments also went on to pass the statewide assessment.

- *3. ATI Expertise in Educational Measurement and Research*

ATI has extensive expertise and decades of experience in educational measurement and research. This expertise is provided by key ATI personnel as well as the members of the ATI Advisory Board. This expertise and experience guides the ongoing development of Galileo K-12 Online.

ATI's research initiatives incorporate the use of advanced statistical procedures to address issues associated with standards-based education. One central focus of the research program is the development and maintenance of item banks that can be used to build reliable and valid assessments. An important statistical tool in these investigations is IRT (e.g., Thissen & Wainer, 2001). ATI conducts Item Response Theory (IRT) analyses to evaluate the functioning of items and assessments and place scores from multiple assessments on the same scale. For example, if a class of students received an average score of 1100 on an initial benchmark test and an average score of 1150 on a subsequent benchmark, the district would know that the students made significant progress from the first to the second assessment. By contrast, if IRT were not used and the class received an average score of 70 percent correct on the initial assessment and 80 percent correct on the subsequent assessment, no conclusions about progress would be warranted. The difference in scores between the two tests could be attributed to differences in difficulty of the tests or changes in the achievement of the students, or both. IRT considers both item difficulty and achievement level, which allows for the generation of an ability score that indicates the position of the student on a

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developmental progression. The IRT analyses conducted by ATI will enable MCESA to develop valid and reliable tests that can accurately assess student growth over time.

ATI's research initiatives also utilize latent class modeling to assess the measurement error associated with classifying students with respect to standards mastery. For example, latent class modeling informed the development of the Galileo *Risk Assessment Report* that classifies students with respect to their risk of failing to show mastery on the statewide test based on their performance on one or more district-wide assessments. ATI also uses structural equation modeling (often referred to as causal modeling) to identify educational variables that are most important in terms of their impact on learning. For example, investigations involving structural equation modeling have revealed the effects of student learning at different points throughout the year on ultimate performance on the statewide test at the end of the year.

ATI's ongoing active research program provides school districts using Galileo K-12 Online with an assessment and instructional improvement tool that provides timely, valid data for decision-making as well as research-derived information about the variables that impact student achievement. ATI continues to develop innovative statistical analyses to meet the evolving needs of districts. For example, ATI employs state-of-the-art statistical approaches that can be used to provide information about instructional effectiveness and that can support districts in developing a comprehensive evaluation of educators. As part of the implementation of ATI's *Partnership Model*, ATI also provides collaborative support for clients who desire to conduct exploratory data analyses (e.g., identifying demographic factors related to student performance trends) or to use Galileo to implement and evaluate the effects of experimental manipulations (e.g., comparing the effectiveness of different curricula or interventions).

- *4. Flexible Intuitive Administration and Reporting Tools*

Galileo will provide MCESA with the capability to administer assessments offline, online, or using handheld wireless devices. A wide variety of Galileo reports provide actionable information as appropriate for different user levels and include tools that make it easy to select and implement learning activities based on assessment results. Independent research funded by recipients of a federal grant administered by the Massachusetts Department of Elementary and Secondary Education and conducted by the MAGI Services Company indicates that implementing Galileo and using the results of the system's benchmark assessments to guide instruction results in positive student achievement outcomes. The MAGI report is available at http://www.ati-online.com/pdfs/researchK12/MAGI_FinalReport_Feb09.pdf.

Galileo reports can be generated at the district, school, class, and student levels. These reports include several "at-a-glance" overviews available through *Dashboards* and prompting action. Galileo K-12 Online reports can also be customized to suit the needs of administrators and teachers. For example, many Galileo reports can be filtered according to student demographic information that is uploaded into Galileo along with the student information files. Districts may include any demographic information they wish in the student information uploads so that the reporting filters can be customized to meet the needs of the districts. In addition, the Galileo *Intervention Groups* feature allows teachers and administrators to create custom groups of students based on performance or other characteristics for which intervention materials can be assigned within Galileo and whose progress can be monitored via the Galileo reports. Furthermore, the Galileo *Custom Test Report* feature allows administrators and teachers to build customized reports by selecting the data fields

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they wish to include from a set of user-friendly drop-down boxes. The resulting data files can be easily imported into programs such as Microsoft Excel or SPSS for further analysis.

- *5. An Instructional Effectiveness Assessment System Supporting Districts in Evaluating Educators and Guiding Professional Development*

In an effort to support instructional effectiveness initiatives, ATI has undertaken the development of an *Instructional Effectiveness Assessment System* (IEAS) integrated within Galileo. The IEAS provides the components required to support instructional effectiveness initiatives such as the MCESA REIL grant initiative. First, the IEAS includes instructional effectiveness pretests and posttests in grades and content areas tested on the statewide test that can produce data on student performance appropriate for use in the evaluation of instructional effectiveness. Second, the IEAS provides districts with assessments in content areas not tested on the statewide test as well as the capability to develop items and assessments for non-tested grades and content areas using item creation tools and *Automatic Scoring Key (ASK) Technology*. Third, under development and in addition to student assessments, the IEAS will provide districts with the capability to design customized educator assessments involving rating-scale items and associated scoring rules. These assessments can provide data on the proficiency of teachers and administrators. Fourth, the IEAS provides state-of-the-art statistical approaches to the analysis of student performance data including hierarchical linear modeling and Categorical Growth Analysis. Finally, the IEAS includes user-friendly reports that can provide information about instructional effectiveness along with guidance in interpreting the results.

The reports included as part of the IEAS can support MCESA and member school districts in implementing a comprehensive evaluation of educators. Although the motivation behind instructional effectiveness initiatives is to enhance student learning by fostering data-driven professional development, it is easy to lose sight of the professional development component of instructional effectiveness initiatives. In order to maintain a focus on the professional development component of teacher evaluation initiatives, ATI is developing a configurable *Dashboard* for teachers and administrators that can be used to display instructional effectiveness results and foster planning for professional development within the context of teacher evaluation. During the 2011-12 school year, ATI is conducting a pilot of the IEAS including the described assessments, statistical approaches, and reports in a broad array of partner districts and charter schools in Arizona.

- *6. Interoperability with Other Systems Including Data Warehousing Systems*

Galileo K-12 Online is designed to maximize interoperability with other data management systems including data warehouses. Within Galileo, the Galileo Data Import (GDI) module and the Galileo Data Extraction (GDE) module provide the capability to import a wide variety of types of data into Galileo from other systems (e.g., student information systems) as well as to extract assessment data from Galileo for exportation to other systems (e.g., data warehouse systems).

- *7. Technical Support and Customized Ongoing Professional Development*

ATI has a strong reputation for excellent customer service, as evidenced by a retention rate of approximately 95 percent. The customer support provided by ATI goes well beyond the very

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responsive technical support services available via the toll-free phone number and email. ATI implements the *Partnership Model* to provide services to clients, with the goal of ensuring that the client gets the greatest possible benefit out of the use of the tools provided by Galileo. To further this goal, dedicated ATI staff members work closely with each client to support the initial and ongoing implementation of Galileo K-12 Online. Professional development sessions are planned in consultation with client representatives and are designed to best suit the needs of staff. Ongoing access to online training modules and support documents also supports continuous training.

Galileo K-12 Online has evolved in response to client needs and will continue to do so. For example, the configurable *Dashboard* that is currently under development is an extension of the pre-existing Galileo *Dashboard*. The new *Dashboard* is designed to enable teachers and administrators to configure their view to include the reports and tools that best support their specific goals. This innovation is just one example of the ongoing evolution of Galileo in response to client needs. Both Galileo reports and Galileo data import and export routines have been developed or modified to best serve evolving client needs. Additionally, assessment item types have been developed in response to teacher reviews of existing items. ATI is always eager to work with clients to continue to develop Galileo K-12 Online and to support instructional improvement in the most effective way possible.

- **3.1.8. Provide details of technical specifications for the system.**

The basic architecture of Galileo K-12 Online is represented in the following diagram.

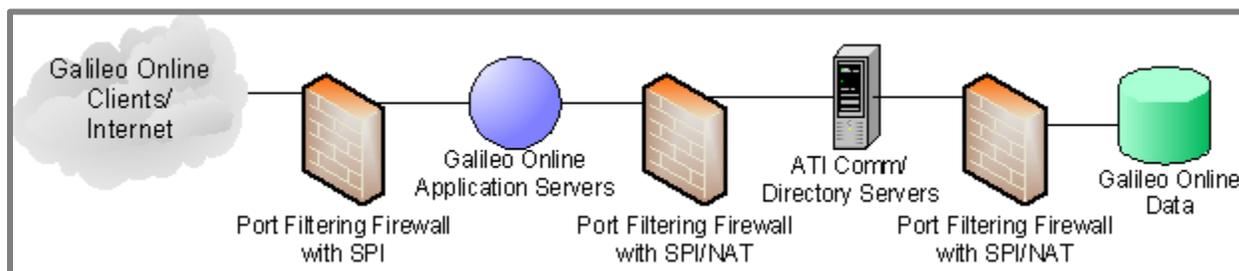


Figure 2
Galileo Online Logical Diagram

Fiber optic lines are used to connect to the Internet backbone. Applications servers are clustered so that the load may be balanced and the application need not be taken down to work on any of the servers.

Because Galileo is provided as a web-based application hosted on ATI servers, there is no need for the client to incur the expense of buying and maintaining servers. With regard to client work stations, both Windows-based computers and Mac-based computers are supported. For system requirements for Galileo K-12 Online including the recommended hardware and software for optimal performance, please visit the Galileo K-12 Online system requirements page at <http://www.ati-online.com/galileoK12/K12TrainingSystem.html>.

Application upgrades to Galileo K-12 Online are provided at no additional charge and there is no maintenance fee associated with Galileo. Upkeep and maintenance of the software is performed entirely by the ATI Development team without interruption of service to members of the

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educational community. Upgrades to the application are accomplished through “builds” posted to the application servers by ATI staff and are immediately available to all users upon their next log in to Galileo K-12 Online. Upgrades to *Scanline* or *Mercury* are installed by staff from MCESA or participating districts. Upgrades to both applications are made available as downloads from the Internet so installation is an easy process.

- 1. *Scanline*

Scanline is an ATI software application that enables offline assessment administration with online scoring and data aggregation. Two versions of *Scanline* (plain-paper or high-speed) are available depending on the type of form used. *Scanline* plain-paper supports Galileo pre-slugged plain-paper answer sheets and a selection of multi-function scanning units and automatically sets the scanning parameters, so only a single mouse click is required for the user to start scanning once the application is running. *Scanline* high-speed supports a selection of proprietary Scantron forms and scanners. For system requirements for *Scanline* including a complete list of currently supported scanners and forms, please visit the Galileo K-12 Online system requirements page at <http://www.ati-online.com/galileoK12/K12TrainingSystem.html>.

- 2. *Mercury*

Mercury is an ATI software application used with Galileo K-12 Online technology that lets students instantly send assessment and/or instructional responses from a wireless response pad to the online system. Galileo’s *Mercury* component allows assessments to be administered to students using a variety of handheld wireless devices. For system requirements for *Mercury* including a complete list of currently supported handheld wireless devices, please visit the Galileo K-12 Online system requirements page at <http://www.ati-online.com/galileoK12/K12TrainingSystem.html>.

- RFI 3.2. Technical Constraints

The following sections indicate whether each of the desired capabilities indicated in the RFI under the heading Technical Constraints is Available or Not Available. Additional details are provided where applicable.

- **3.2.1. Assessment system (AS) will be a web-based tool that uses current browser technology and is compatible with the following commonly used browsers: Internet Explorer 7 and above, Chrome 1.5 and above, Safari 4.0 and above, and Firefox 8.0 and above, and Firefox Mobile - Available**

Galileo K-12 Online is a web-based system. Supported browsers include Internet Explorer 7 and above and Firefox 3.0 and above. Support for Safari 5.1 is under active development. Full support is anticipated for fall 2012. Support for Chrome is being researched at this time with consideration for possible fall 2012 support.

- **3.2.2. AS should exchange data with other RDSS systems - Available**
- **3.2.3. AS should exchange data with a district SIS - Available**

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- **3.2.4. AS should be compatible with plain-paper and traditional scanners and student response systems (e.g., clickers) - Available**
- **3.2.5. AS should support PDFs - Available**
- **3.2.6. AS should be compatible with varied hardware input systems such as personal computers, iPads/iPods, Android tablets, smartphones and other mobile devices - Available**

Galileo K-12 Online is compatible with varied hardware input systems including Windows and Mac computers and handheld wireless devices. Support for iPads and iOS 4+ devices is in a “pre-support” stage with a number of clients successfully using iPads for online testing. Issues reported by clients using these devices are entered into our bug tracking system for correction. Full support is anticipated for fall 2012.

- **3.2.7. AS should allow for import of files and results from other assessment systems as long as QTI standards are followed - Available**

Existing tests can be uploaded into Galileo using ATI's *Automated Scoring Key (ASK) Technology*. Test scores can also be imported into Galileo. These capabilities are provided as part of the license of Galileo K-12 Online. If MCESA and ATI mutually agree that ATI will import items using other methods, this may incur an additional cost.

- **3.2.8. AS must be able to store various media formats for test items such as static images (pngs, gifs, jpgs), video files (Flash, Quicktime, Windows Media), and audio files (mp4) and be able to display high resolutions images - Available**
- **3.2.9. AS must be able to render and play raw footage video on H.264 compliant devices - Available**
- **3.2.10. AS must be able to play a movie in Flash created with Adobe Captivate - Available**

Galileo can play a movie in Flash.

- **3.2.11. AS should be compatible with various software systems such as PC and Mac operating systems: Windows 7, Mac OS 10.5, Android 2.2, iOS 4 - Available**

Galileo K-12 Online is compatible with various software systems. For PC (i.e., Windows-based) computers, Windows XP, Vista and 7 are supported. For Mac operating systems, OS 10.5 and 10.6 are supported. For additional information regarding system requirements for Galileo K-12 Online including the recommended hardware and software for optimal performance, please visit the Galileo K-12 Online system requirements page at <http://www.ati-online.com/galileoK12/K12TrainingSystem.html>. Support for iPads and iOS 4+ devices is in a “pre-support” stage with a number of clients successfully using iPads for online testing. Issues

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reported by clients using these devices are entered into our bug tracking system for correction. Full support is anticipated for fall 2012.

- **3.2.12. AS should provide antivirus checking on any uploaded external file content including multimedia files, image files (e.g. gif and jpg), or other attachments such as PDFs, etc. - Available**
- **3.2.13. AS data that is stored or used by the AS shall be CEDS (version 2) and QTI (version 2.0) compliant - Not Available**
- **3.2.14. AS must comply with all relevant Federal & State laws - Available**
- **3.2.15. AS must support multiple roles with role-based access and privileges - Available**

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RFI 4. Specifications

➤ RFI 4. Specifications

The following sections indicate whether each of the desired capabilities indicated in the RFI under the heading Specifications is Available or Not Available. Additional details are provided where applicable.

○ RFI 4.1. Authoring

Provide an authoring system in which “high stakes” REIL test items and test forms can be imported or created, reviewed, field tested, and administered. The AS should also be able to support creation and administration of district and classroom “low stakes” assessments. - Available

- **4.1.1. Import Multiple Standards Documents - Available**
- **4.1.2. Identify Instructional Priorities - Available**
- **4.1.3. Create Item Specifications - Available**
- **4.1.4. Create Assessment Blueprints - Available**
- **4.1.5. Create Secure Item Bank - Available**
- **4.1.6. Create Non-Secure Item Bank - Available**
- **4.1.7. Create Test Items (Secure) - Available**
- **4.1.8. Create Additional Test Items (Secure or Non-Secure) - Available**
- **4.1.9. Create Performance Based Items (Secure or Non-Secure) - Available**
- **4.1.10. Import Test Items and Forms - Available**

Test items and forms can be created using the *Test Builder* interface. Test items can also be created using *Bank Builder* technology. Existing tests can also be uploaded into Galileo using ATI's *ASK Technology*. These capabilities are provided as part of the license of Galileo K-12 Online. If MCESA and ATI mutually agree that ATI will import items using other methods, this may incur an additional cost.

- **4.1.11. Import Complete Item Banks - Available**

Test items can be created using the *Test Builder* interface. Test items can also be created using *Bank Builder* technology. Existing tests can also be uploaded into Galileo using ATI's *ASK Technology*. These capabilities are provided as part of the license of Galileo K-12 Online. If MCESA and ATI mutually agree that ATI will import items using other methods, this may incur an additional cost.

- **4.1.12. Enter Distractor Rationale - Available**

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- **4.1.13. Review Distractor Rationale** - [Available](#)
- **4.1.14. View Distractor Rationale** - [Available](#)
- **4.1.15. Enter General Item** - [Available](#)
- **4.1.16. Import, Calculate, and Store Statistical Metadata** - [Available](#)
- **4.1.17. Store Images in Items** - [Available](#)
- **4.1.18. Store Multimedia Assets for Items** - [Available](#)
- **4.1.19. Search for Test Items** - [Available](#)
- **4.1.20. Search for Test Item Banks** - [Available](#)
- **4.1.21. Review Secure Test Items** - [Available](#)
- **4.1.22. Edit Secure Test Items** - [Available](#)
- **4.1.23. Publish Secure Test Items** - [Available](#)
- **4.1.24. Review, Edit, Field Test and Publish Non-Secure Test Items** - [Available](#)
- **4.1.25. Create Test Maps** - [Available](#)
- **4.1.26. Create Secure Test Form Banks** - [Available](#)
- **4.1.27. Create Non-Secure Test Form Banks** - [Available](#)
- **4.1.28. Create Test Forms Manually (REIL Grant Tests)** - [Available](#)
- **4.1.29. Create Test Forms Using Wizards** - [Available](#)
- **4.1.30. Create Answer Only Test Forms** - [Available](#)
- **4.1.31. Review and Edit Secure Test Forms** - [Available](#)
- **4.1.32. Preview Secure Test Forms** - [Available](#)
- **4.1.33. Publish Secure Test Forms** - [Available](#)
- **4.1.34. Review, Edit, Field Test and Publish Non-Secure Test Forms** - [Available](#)
- **4.1.35. Create Test Delivery Support Materials** - [Available](#)

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- **4.1.36. Reserve Test Items** – [Available](#)
- **4.1.37. Maintain Separation of Secure and Non-Secure Items and Test Forms** - [Available](#)
- **4.1.38. Create Surveys for All Groups of AS Users** - [Available](#)

- **RFI 4.2. Test Set Up**

Prepare testing environments for REIL assessments. The AS should also provide a process for preparing district and classroom “low stakes” assessments. - [Available](#)

- **4.2.39. Create Calendar for Administration of Secure Test Forms** - [Available](#)
- **4.2.40: Set Online Testing Parameters** - [Available](#)
- **4.2.41: Select Test Administration Delivery Method** - [Available](#)
- **4.2.42: Publish Printed Test Forms Packets** - [Available](#)
- **4.2.43: Import Updated Rosters from RDSS** - [Available](#)
- **4.2.44: Import Updated Rosters from SIS** - [Available](#)
- **4.2.45: Reconcile Student Rosters by Teacher** - [Available](#)
- **4.2.46: Pre-Slug Answer Sheets** - [Available](#)
- **4.2.47: Provide Online Test Student Codes** - [Available](#)
- **4.2.48: Accommodate Late Entry Students** - [Available](#)

- **RFI 4.3. Administration**

Administer REIL assessments to students. The AS should also administer district and classroom “low stakes” assessments. - [Available](#)

- **4.3.49. Field Test Secure Items** - [Available](#)
- **4.3.50. Field Test – Test Forms** - [Available](#)
- **4.3.51. Provide Secure Student Login Procedure** - [Available](#)
- **4.3.52. Provide Accommodations for 504 Compliance** - [Available](#)

Teachers may provide students with District-approved accommodations for tests designed and created using Galileo K-12 Online.

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- **4.3.53. Adapt Online Student Interface by Grade Level** - [Available](#)
- **4.3.54. Provide Online Test Support Tools** - [Available](#)
- **4.3.55. Authorize Locations for Online Test Taking** – [Not Available](#)
- **4.3.56. Monitor Student Test Progress** - [Available](#)
- **4.3.57. Administer Surveys** - [Available](#)
- **4.3.58. Interact with Scanners and Online Computers** - [Available](#)
- **4.3.59. Interact with Student Response Systems and Mobile Devices** - [Available](#)

Galileo K-12 Online supports test administration via student response systems. Support for iPads and iOS 4+ devices is in a “pre-support” stage with a number of clients successfully using iPads for online testing. Issues reported by clients using these devices are entered into our bug tracking system for correction. Full support is anticipated for fall 2012.

- **RFI 4.4. Scoring**

Score REIL assessments and export data to RDSS or other systems. The AS should also score district and classroom “low stakes” assessments. - [Available](#)

- **4.4.60. Automatically Score Assessments** - [Available](#)

Automatic scoring is provided for items presented in a selected-response format.

- **4.4.61. Automatically Calculate Statistical Metadata** - [Available](#)

Classical statistics (i.e., p-values) are automatically calculated as soon as student scores are entered via scanning or students complete the test online. IRT statistics (i.e., reliability, item parameter estimates) are calculated as part of the analysis performed by ATI research staff.

- **4.4.62. Calculate Statistical Metadata for Test Items and Forms Administered Outside AS** - [Available](#)
- **4.4.63. Store Longitudinal Data** - [Available](#)
- **4.4.64. Record and Export Raw Student Test Data** - [Available](#)
- **4.4.65. Allow for Modifying Individual Student Results** - [Available](#)
- **4.4.66. Automatically Rescore Tests Following Changes to Test Forms** - [Available](#)

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○ RFI 4.5. Reporting/Analysis

Provide reporting and analysis on REIL assessment results. The system should also provide reporting and analysis for district and classroom “low stakes” assessments. - [Available](#)

- 4.5.67. Report on Field Test Item and Test Statistics - [Available](#)
- 4.5.68. Report Ongoing Statistical Values for Test Items and Test Forms - [Available](#)
- 4.5.69. Report on Test Assignment and Completion - [Available](#)
- 4.5.70. Aggregate Data - [Available](#)
- 4.5.71. Disaggregate Data - [Available](#)
- 4.5.72. Provide Online and Printed Canned Reports for Administrators - [Available](#)
- 4.5.73. Provide Online and Printed Canned Reports for Teachers – [Available](#)
- 4.5.74. Provide Printed Canned Reports for Parents and Students - [Available](#)
- 4.5.75. Provide Dashboards - [Available](#)
- 4.5.76. Provide Ad Hoc Reporting - [Available](#)
- 4.5.77. Provide Custom Reporting - [Available](#)
- 4.5.78. Report on Basic Item Analysis - [Available](#)
- 4.5.79. Provide Advanced Statistical Item Analysis - [Available](#)
- 4.5.80. Facilitate Notification if Student Data is Inaccurate - [Available](#)
- 4.5.81. Identify Students Needing Assistance - [Available](#)
- 4.5.82. Track Progress and Forecast Proficiency - [Available](#)
- 4.5.83. Report on Student Results for Parents - [Available](#)
- 4.5.84. Link Report Results to Curriculum Options - [Available](#)
- 4.5.85. Filter Report Data - [Available](#)
- 4.5.86. Assign Reporting Permissions - [Available](#)

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- **4.5.87. Use Scale Scores as Appropriate** - [Available](#)
- **4.5.88. Save Reports as PDFs or Excel Files** - [Available](#)
- **4.5.89. Report Across Multiple Levels** - [Available](#)
- **4.5.90. Import Student Test Data from Tests taken Outside AS (e.g. AIMS, SAT, ACT)** - [Available](#)
- **4.5.91. Import Extended Student Demographic Data** - [Available](#)
- **4.5.92. Report Survey Data** - [Available](#)
- **4.5.93. Brand Reports for MCESA REIL Program** - [Not Available](#)
- **RFI 4.6. System**

Ensure that all components are in place to support a secure, “high stakes” test environment. The AS should also have necessary components to support district and classroom “low stakes” assessments. - [Available](#)

- **4.6.94. Meet Current and Future Assessment Needs** - [Available](#)
- **4.6.95. Adapt to MCESA Nomenclature** - [Available](#)

Tests created using Galileo may be named consistent with MCESA nomenclature.

- **4.6.96. Adapt to District Nomenclature** - [Available](#)

Tests created using Galileo may be named consistent with district nomenclature.

- **4.6.97. Configure to the Needs of All Users** - [Available](#)
- **4.6.98. Export Test Items and Forms** - [Available](#)

Test items and forms can be exported in the form of a test booklet saved as a PDF or RTF.

- **4.6.99. Import Secure Test Results** - [Available](#)
- **4.6.100. Store and Organize Support Documents** - [Available](#)

Within Galileo, a support document can be attached to a test. Support documents can also be attached to student records for display in the Galileo *K-12 Student-Parent Center*.

- **4.6.101. Simplify Addition of New Participating Districts** - [Available](#)
- **4.6.102. Interact with Other RDSS Systems** - [Available](#)

RFI 4. Specifications

- **4.6.103. Support RDSS Identity Management for Single Sign-on - Not Available**
- **4.6.104. Manage Shared Item Resources (e.g. passages, graphics, videos) - Available**
- **4.6.105. Archive Data - Available**
- **4.6.106. Import Existing Student Usernames and Passwords - Available**
- **4.6.107. Manage External Rights to Assessments - Available**
- **4.6.108. Provide Online User Support - Available**
- **4.6.109. Customize Workflow Management for Item and Test Form Development - Not Available**
- **4.6.110. Manage Status of Test Items and Forms under Development - Available**
- **4.6.111. Train on Authoring and Reviewing of Test Items and Forms - Available**
- **4.6.112. Provide System Training on Administering Tests - Available**
- **4.6.113. Provide Teacher Training on Administering Online Tests - Available**
- **4.6.114. Provide Professional Development on Creating Reports and Interpreting Results - Available**
- **4.6.115. Support Collaboration Within and Across Districts - Available**
- **RFI 4.7. Non-Functional Requirements**
 - **RFI 4.7.1. Availability**
 - *1. The system needs to be accessible 24x7x365, except for scheduled periodic maintenance. The schedule should be published and clearly communicated to all system Users in advance.*

Galileo K-12 Online is designed to be accessible 24x7x365. During the past year, ATI has maintained a Galileo K-12 Online uptime of 99.97 percent, excluding scheduled maintenance of approximately 15 minutes per month. Scheduled maintenance is conducted late at night on weekends, and advance notice is provided to clients.

RFI 4. Specifications

- **RFI 4.7.2. Backup and Restore**

- *1. The application server and the associated data should have clearly defined backup and restore capabilities.*

In February 2012, ATI finalized implementation of a secondary data server located in a secure data center housed elsewhere in the region. The backup architecture uses automated transactional database replication. The failover server is housed in a facility with full-time security, multi-factor authentication including biometric, combination and RFID key entry and full data provider and power redundancy. ATI equipment located in this facility is accessible only by or at the direction of select ATI personnel. Online transaction transfer from the primary ATI data center to this site is performed through an encrypted VPN tunnel.

ATI performs regular backup of the Galileo K-12 Online database, with multiple disk copies of the backup file stored internally on separate servers. Hourly transaction log backup files are also stored on redundant internal servers. The ATI Disaster Recovery Plan (DRP) mandates online transfer of the Galileo K-12 Online transaction log backup files to a separate secure facility, updated hourly. This facility is protected with magnetic key and biometric security. Online transfer is performed through an encrypted VPN tunnel.

In addition, the DRP includes weekly tape archival of the full Galileo K-12 Online database, stored in a secure facility separate from the location of the online transfer server. Personnel and physical security protect this facility, with magnetic media stored in a fireproof safe.

With the secondary data server, data- and transaction log backups and storage architecture of the primary/secondary data files and transaction logs within the Galileo data servers, ATI has planned for rapid recovery from a multitude of possible disaster scenarios.

- *2. In the event of a catastrophic failure, the application should be fully functional within 24 hours*

Galileo K-12 Online is designed to be fully functional within 24 hours of a catastrophic failure.

- **RFI 4.7.3. Capacity**

- *1. The current capacity that the system needs should be based in part on the following estimated users for the initial release of the AS for MCESA REIL Program. Please describe the capacity of the proposed system to expand to meet future growth.*

Galileo is currently capable of supporting 15,000 simultaneous connections with no impact on performance. The architecture of Galileo includes the use of clustered application servers in order to maximize scalability and minimize down time. If work needs to be done on a server there is no need for the application to be taken offline. If traffic dictates that additional servers are needed, more may be easily added, again with no down time. Data storage scalability is also built into the Galileo system. Disk usage is monitored regularly and can be increased to accommodate future needs without service disruption.

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- **RFI 4.7.4. Security**

- *1. The MCESA REIL Assessment System requires a complex user management system to manage Authorization and Access Control based on user roles. Please provide details of the security system.*

Galileo K-12 Online contains a variety of built-in, integrated security measures that are designed to ensure the confidentiality, integrity, and viability of online data. This section details the security measures and safeguards that are in place to protect against non-user access to data and allow districts to control staff access to data.

- *1.a. Firewalls*

Extensive external security is in place to ensure the protection of all client data. Student information including test information is protected by encryption during transmission and stored in a database system that is not directly accessible from the Internet. Transactions with the database must be performed through the Galileo K-12 Online application servers. All client traffic to and from the database system must pass through one of two corporate gateway firewalls and one additional screened subnet firewall.

- *1.b. Secure Socket Layers and Data Encryption*

Another security measure is the implementation of Secure Sockets Layers (SSL). When a user clicks on the link to login at ati-online.com, the entire session from this point forward (including entry of the username and password) is conducted using SSL. Every time data is transmitted to Galileo K-12 Online, the entire transaction is performed with 128-bit encryption. Only the Galileo K-12 Online web servers hold the private key to decode the encrypted data sent by users. All traffic for Galileo K-12 Online is transferred using SSL, typically transferred through a network (including the Internet) using TCP Port 443. Galileo K-12 Online utilizes the highest level of encryption possible while still maintaining a focus on performance. Our security is verified with a top-level site certificate hosted by Verisign Authentication Services from Symantec.

- *1.c. User Authentication Utilizing GUIDS*

All user accounts in the Galileo K-12 Online system are assigned a Globally Unique Identifier (GUID), as are all transactions placed in the system. This ensures the highest level of accuracy when performing data entry/retrieval within the Galileo K-12 Online system. When users access Galileo K-12 Online, their password is authenticated against their record in the system using the GUID, and entry is granted only in the event of a perfect match. No 'fuzzy logic' is used in authenticating passwords.

- *1.d. Client Control of Staff Access Privileges*

Galileo users are authenticated with the standard username and password construct. All usernames are entered and passwords set by the individual clients. This can only be done once an identified administrator has been entered into the system by ATI. This ensures greater control and accuracy for clients. When the agency administrator sets up access for a user, they will determine the level of access allowed that user. This user will then only be allowed access

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to information appropriate for that level of access (e.g., their individual school-, class-, or student-level information).

- **ATI Supporting Information**
 - **1. ATI Planned Cost Structure Including Licensing for MCESA REIL Assessment System RFI**

The ATI Planned Cost Structure Including Licensing for MCESA REIL Assessment System RFI follows.

➤ **ATI Planned Cost Structure Including Licensing for MCESA REIL Assessment System RFI**

Confidential

Prepared For: Maricopa County Education Service Agency (MCESA)
 Prepared By: Assessment Technology, Incorporated (ATI), 6700 E. Speedway Boulevard, Tucson, Arizona 85710
 Response To: RFI: MCESA REIL Assessment System

DELIVERABLE	Cost Year One to MCESA: District Established ATI Client	Cost Year One to MCESA: District Not ATI Client
1. ELECTRONIC SERVICES USER LICENSING FEES meeting Requirements and Specifications as offered in ATI response to MCESA RFI REIL Assessment System		
<p>Annual User Fees for Galileo K-12 Online electronic services to meet Requirements and Specifications as offered in ATI response to MCESA RFI REIL Assessment System and including authoring, test set-up, administration, scoring, reporting and system support as detailed in ATI RFI response.</p> <p>Please Note:</p> <ol style="list-style-type: none"> Five of the six MCESA Grant Districts are established ATI Clients; those clients represent a collective enrollment of 25,025 students. Some Alliance Districts may be established ATI clients and some may not. The pricing offered for the Grant Districts will hold for the Alliance Districts. ATI is an Application Service Provider (ASP) and as such, hosts the services being offered to MCESA. 	<p>Established Client = District holding unexpired Galileo K-12 Electronic Services License</p> <p>No Costs to MCESA</p>	<p>Non-ATI Client = District not currently holding Galileo K-12 Electronic Services License</p> <p>Annual User Fees: \$8 per student –</p> <p>Minimum order: \$2,000</p>
2. PROJECT SUPPORT		
<p>Implementation/Project Management: On-site (mutually agreed frequency) and Remote (e.g., single-site small group webinars with mutually agreed frequency, telephone and email) covering all services</p> <p>Application-Related Support: Technical, Client Use including Assessment and Instructional Design, Report Use, and performance evaluation services provided by ATI staff via telephone, email, and small group webinars (mutually agreed frequency).</p>	<p>Provided at No Charge</p>	<p>Provided at No Charge</p>
3. DATA ANALYSIS SERVICES		
<p>Psychometric and Instructional Effectiveness Analyses</p>	<p>Provided at No Charge</p>	<p>Provided at No Charge</p>
4. START-UP AND DATA IMPORTATION/EXPORTATION SERVICES		
<ul style="list-style-type: none"> Implementation Planning Services Assessment Planning, Instructional Dialog Planning, and Instructional Effectiveness Planning ATI Data Importation Services, (e.g., Student Information, External Test Data, ASK Technology – importation of assessments developed outside the system, Employee/ Supervisor Data; does not include importation of items developed outside the system) ATI Data Exportation Services (i.e., Assessment Scores) 	<p>Provided at No Charge</p>	<p>Provided at No Charge</p>
5. APPLICATION UPGRADES		
<p>Application Upgrades: Provided at no additional charge. No maintenance fees.</p>	<p>Provided at No Charge</p>	<p>Provided at No Charge</p>
<p>ELECTRONIC SERVICES USER LICENSING FEES, PROJECT SUPPORT, DATA ANALYSIS SERVICES, START-UP AND DATA IMPORTATION/EXPORTATION SERVICES, and APPLICATION UPGRADES: TOTAL ANNUAL USER FEES</p>	<p>Established Clients: No Charge to MCESA</p>	<p>Non-ATI Client: \$8 per student</p>

DELIVERABLE – Page 2 of 2	Cost Year One to MCESA: District Established ATI Client	Cost Year One to MCESA: District Not ATI Client
6. SCANLINE		
6.1. <i>Scanline v.3.5</i> – Electronic service facilitating offline testing and online aggregation. One-time purchase – User installation on user purchased scanning units. <i>One Scanline installation required for each scanning location.</i> Check with ATI for currently supported scanning units. Per Installation: \$460. Scanline carries a 9.1% Transaction Privilege Tax (\$41.86 per installation).	Estimate: Assuming no additional installations: \$0	\$460 per installation site
6.2. Training on use of <i>Scanline</i> will be provided via phone contact or webinar by ATI at no charge for as many as two clerical staff at each <i>Scanline</i> station location.	Provided at No Charge	Provided at No Charge
SCANLINE SOFTWARE: TOTAL	Estimate: \$0	Based on Elected Use of Scanline
7. MERCURY		
Mercury is a software application used with Galileo K-12 Online technology that lets students instantly send assessment and/or instructional responses from a wireless response pad to the online system. The response pad system hardware is purchased independently by User. Check with ATI for currently supported response pad systems.	-Free- With Galileo K-12 Online License	-Free- With Galileo K-12 Online License
8. ON-SITE PROFESSIONAL DEVELOPMENT/TRAINING		
ATI provides professional development modules relevant to all aspects of the Galileo Instructional Improvement System and additional modules relevant to instructional improvement initiatives. Agenda for trainings are developed in collaboration with the user to ensure relevance to user goals/needs. All professional development (PD)/training sessions include the following: PD/Training in District-provided internet connected computer lab(s) accommodating 40-45 attendees; attendee-focused content; visuals included in presentations; attendee-specific session materials which are also available electronically. Train-the-Trainer Model. Training sessions including <i>trainer travel expenses are \$2,000 per day.</i>		
9. SPECIAL SERVICES		
If services beyond those detailed in the costs above or programming services unrelated to system upgrades are requested and authorized by the User and agreed to by ATI, compensation will be at the hourly rates for the following: <ul style="list-style-type: none"> - Software Engineer Hourly Rate \$175.00 - Data Entry Specialist Hourly Rate \$30.00 	Estimate: \$0	Estimate: \$0
SPECIAL SERVICES: TOTAL	Estimate: \$0	Estimate: \$0

Payment Terms: Net 30 days following activation of user fees.

○ 2. Electronic Services Agreement

Electronic services provided to clients using Galileo K-12 Online are governed by an electronic services agreement that follows.

ASSESSMENT TECHNOLOGY, INCORPORATED: ELECTRONIC SERVICES AGREEMENT

Use of Electronic Services: Assessment Technology, Inc. (“ATI”), an Arizona corporation, is willing to provide a nonexclusive, nontransferable license for access to and use of certain electronic applications accessed remotely (“Electronic Services”) to the educational institution (the “User”) for a period of one year (12 months) from date of contract with renewal at the option and discretion of the User. The Electronic Services are designed to assess or test student learning and/or assist User in planning, implementing or reporting on courses of study, lessons, assignments or other learning activities. This Electronic Services Agreement (the “Agreement”) states the present terms and conditions that govern both the access to and use of Electronic Services and the client-end responsibilities associated with access and use of Electronic Services. From time to time it may be necessary to make changes in the Agreement. When User elects to renew its contract to receive Electronic Services, the terms of the Electronic Services Agreement in effect at the time of such renewal shall apply.

The licensed Electronic Services covered by this agreement include both direct services and information accessible through ATI, including but not limited to:

- ATI’s proprietary applications:
 - Galileo K-12 Online including K-12 Student-Parent Center and Online Course Center
 - Galileo Pre-K Online including Pre-K Parent Center and Online Reporter
 - ATI Scanline and Mercury applications
- Support related to the use of ATI applications and
- Any other computer, telephonic or wireless services or information system that ATI permits User to access, including successors to the systems described above.

User Agreement: This Agreement replaces any prior agreement between the User and ATI regarding use of ATI Electronic Services except for any contract executed with this Agreement. If there are differences between this Agreement and a written ATI proposal/bid responses to the User’s RFP or other request (e.g., RFI), the terms of the written proposal/bid responses shall control. Acceptance of this Agreement is implied by the User’s acceptance of ATI’s written proposal/bid responses under the User’s RFP or other request (e.g., RFI) and/or through accessing ATI Intellectual Property. The User agrees to comply and cause its employees and agents to comply with the terms and conditions of this Agreement. The User further agrees to abide by any rules, procedures, standards, requirements or other conditions ATI may establish in connection with the access to or use of ATI Electronic Services or any other electronic communications services made available by ATI.

Services Provided by ATI: Through this Agreement, ATI grants the User limited permission, renewable annually, to access ATI Intellectual Property. ATI Intellectual Property is routinely enhanced for all Users and the most recent enhancements are automatically provided to Users. ATI Intellectual Property includes patent rights (U.S. Patents 6,322,366, 6,468,085 B1, and 7065,516 with others pending), copyrights and trade secrets covering software, display screens,

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At no point in time is User permitted to remove, conceal or alter any copyright, trademark or other proprietary notices on any component of ATI Intellectual Property. Except as otherwise provided herein, upon expiration or termination of User's right to access or use ATI Electronic Services, all rights to access or use ATI Intellectual Property are severed and the User shall no longer have the right to access or use any aspect of ATI Intellectual Property, including property protected by patent and/or copyright and/or trademark. ATI patent rights and copyrights cover ATI software, display screens, layouts, forms, learning activities, instructional dialogs including user-modified dialogs, source and object code, text, audio visual files, and images and ATI item banks including all user-made item modifications, all tests, and all test items in instructional dialogs constructed from the ATI item banks.

ATI welcomes Users' suggestions for changes to ATI's applications and/or their content. ATI evaluates suggested changes with respect to feasibility and usefulness to ATI clients as a whole. If ATI determines that a suggested change would be both feasible and broadly beneficial, the change is prioritized and placed on the Development Schedule. In some instances, Users may request changes to meet unique User needs. Customized programming and/or data input services beyond the scope of the ATI proposal/bid are available through ATI for an hourly fee. All changes to ATI applications are the sole property of ATI and all rights to the property vest in ATI immediately upon its creation. ATI will not pay fees, royalties, or any other consideration related to use of User suggestions and/or commission of changes in ATI applications and/or their content.

If User develops new tests, test items, instructional dialogs and/or other instructional materials that are developed by User ("User-Developed Materials") and are not an adaptation of ATI materials or information including ATI Intellectual Property, User may share User-Developed Materials with other user(s) by displaying them in Galileo provided User obtains ATI's prior permission to do so and the other user(s) are also Galileo users. Furthermore, User-Developed Materials may be exported from Galileo for use by User. If permitted by other user(s), User may access the User-Developed Materials of such other user(s). ATI psychometric results, if any, related to User-Developed Materials may also be exported for use by User.

User-Developed Materials displayed in ATI applications may remain the property of the User. User-Developed Materials shared with other user(s) by being displayed in ATI applications may

ATI Supporting Information

be modified by the User, the other user(s) and by ATI. Additionally, any User-Developed Materials displayed in ATI applications for the purpose of sharing with others may be shared by ATI with present and future ATI clients and in ATI's sole discretion remain in the ATI application database without additional permission. ATI may remove User-Developed Materials from the ATI application database if ATI determines, in its sole discretion, that such User-Developed Materials fail for any reason to comply with the terms of this Agreement or infringe upon the copyright or other intellectual property right of any third party. Upon termination of this Agreement, ATI may at its sole discretion retain or delete from the application database User-Developed Materials. User-Developed Materials modified by ATI or by ATI clients shall become ATI's sole property immediately upon their creation.

User understands and agrees that material it develops using images, text, audio visual files or code created by ATI and/or provided by ATI, or other ATI Intellectual Property constitutes derivative materials that are the sole property of ATI and that ATI's rights to the derivative materials vest immediately upon the creation of the derivative materials.

User Responsibilities: In addition to the obligations of User as otherwise specified in this Agreement, User is solely responsible for:

- procuring all computer hardware, peripherals, third party operating systems and other third party software which may be required to operate ATI applications as listed on the ATI website. ATI assumes no responsibility for User hardware or User software.
- the use and operation of ATI Intellectual Property using personnel qualified to operate the Intellectual Property.
- limiting the distribution of ATI Intellectual Property licensed to the User. Except as provided in this Agreement, the User is authorized to share the Intellectual Property only with User's educational stakeholders including User's staff and students and not with any other third party. Under no circumstance is ATI Intellectual Property to be displayed or made accessible in any manner to those not directly part of the User's educational stakeholders (e.g., ATI Intellectual Property is not to be displayed on the User's public website nor is the Intellectual Property to be displayed through print materials, multimedia materials or in any other manner to anyone not part of the User's educational stakeholders).

Communications from ATI: In addition to the communications between ATI support staff and User, ATI will also be communicating from time to time with Users concerning general topics including information about enhancements in ATI technology, new products, user support, and invitations to company presentations. These communications may occur via electronic mail, fax, or postal mail. Users may opt-out of receiving these communications by contacting ATI in writing or responding to the opt-out language found in all electronic mail communications.

Confidential Information: ATI may disclose to User certain ATI Confidential Information, defined below. User acknowledges that the ATI Intellectual Property and accompanying documentation are commercially valuable, proprietary products of ATI, the design and development of which reflect the effort of skilled development experts, the investment of considerable time and expense, and contain Confidential Information. For purposes of this Agreement "Confidential Information" means information of ATI that is of value to its owner and is treated as confidential, including information concerning the Intellectual Property and documentation, operating procedures, pricing, methods of doing business, trade secrets, marketing and research, mailing

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lists, user lists, and lists of prospective users or accounts, financial data or plans, or any other information relating to the affairs of ATI. It is the responsibility of User to respect this information as confidential by not sharing this information without the specific prior written approval of ATI.

Privacy Policy: In connection with the licensing of ATI Intellectual Property, ATI may receive confidential information from User. ATI is committed to protecting the privacy of its Users and shall use reasonable security and other precautions to prevent the disclosure of any confidential information received by ATI to any person or entity other than to User. ATI shall not use User confidential information for any purpose other than to provide Electronic Services to User and to conduct research as indicated in the Proprietary Rights section found later in this Agreement. All User confidential information shall be held in confidence in accordance with the Family Educational Rights and Privacy Act (FERPA) and applicable state laws and regulations.

User Restrictions: ATI Intellectual Property is licensed, not sold. All rights not expressly granted in this Agreement are reserved to ATI. No rights or licenses are granted by implication. User may not decompile, reverse engineer, disassemble, download or otherwise reduce any ATI software used in connection with the Electronic Services to human-perceivable form. The User may not copy, reproduce electronically, modify, adapt, translate, rent, sublicense, assign, lease, loan, resell, or distribute ATI software or related materials used in ATI Electronic Services or create derivative works based upon or resembling ATI software or any part thereof without the express written permission of ATI or as otherwise provided in this Agreement. User is responsible for ensuring that the individuals authorized by User to use ATI Intellectual Property comply with the terms and conditions of this Agreement.

As is described earlier in this document, User may modify or produce derivative assessment scales, assessment items, instructional dialogs, learning activities, lesson plans, and professional development materials. All such modifications or derivatives become the sole property of ATI immediately upon their creation and remain the property of ATI. User may make the modifications or derivatives available electronically or in printed form to other Users within their School District/Agency. Modifications or derivatives may be shared with other school districts/agencies as provided herein or with the mutual agreement of ATI and User. User may not disseminate in any manner beyond use in test review or test administration, ATI created assessment items and/or ATI created assessments/tests. User may not disseminate in any manner beyond district instructional content review of district instructional content presentation to students, ATI created instructional content. User may print, electronically disseminate, or export reports to other software applications for such purposes as additional data analysis. User may disseminate reports, including but not limited to assessment and instruction reports, and information from reports to audiences of their choosing. As a protection of confidentiality, the User further agrees that ATI has the right to refuse to provide to third parties information that the User provides ATI. The restrictions on the access and/or use of ATI Electronic Services and related materials specified in this Agreement extend to any updates, software patches, or bug fixes made accessible to the User.

In addition to content owned directly by ATI, there may be content protected by rights in intellectual property held by other owners. Such content is entered into the ATI database with the explicit permission of the owners of that intellectual property. Federal and State laws and the policies of the holders of such rights in intellectual property govern the use of such content. Galileo Online contains Equation Editor owned and copyrighted by Design Science, Incorporated of Long Beach California. All rights to the code are reserved by Design Science.

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Warranties: ATI warrants

- to Users that the ATI Electronic Services under written contract shall be both fit for the uses specified and conform to the written promises made within the written contract responses to User RFP or other request (e.g., RFI). The User's sole remedy for any breach of this warranty is for ATI to implement service to correct the application deficiency that does not meet the ATI written response. ATI Electronic Services for services outside the scope of the written proposal/bid are provided "As-Is" and the User accepts the entire risk as to the quality and performance of the services.
- to Users that all Implementation/Project Management and Consultation Services, application related support as offered by the ATI Field Services, Educational Management, Information Technology, and Professional Development departments, Start-Up and Data Importation/ Exportation Services as defined in the ATI written proposal in response to User's RFP or other request (e.g., RFI) shall be performed in a professional manner over the period of the contract. User's sole remedy for any breach of this warranty is for ATI to re-perform the applicable warranty-covered service.
- that ATI owns all proprietary interests in ATI Electronic Services including ATI Intellectual Property. Content within ATI Electronic Services which is protected by intellectual property rights held by other owners has been entered into the database with the explicit permission of the owners of the intellectual property. User's sole remedy for any breach of this warranty can be found in the Indemnification section of this Agreement.

Limited Warranty/Limitations of Liability. Except for the Warranties stated directly above and as expressly stated otherwise in this Agreement, to the maximum extent permitted by applicable law, ATI disclaims all other warranties, either expressed or implied, by statute or otherwise, regarding the Electronic Services, including but not limited to implied warranty of fitness for a particular purpose, quality, merchantability, or their non-infringement. ATI is not responsible for and makes no representations with regard to third party claims or claims relating to network operations, computer hardware, peripherals that are used either in conjunction with or in support of ATI Electronic Services. Under no circumstance, and under no legal theory, tort, contract or otherwise, shall ATI be liable to the User for any indirect damages, including any lost profits, lost data, or other indirect, special, incidental, punitive or consequential damages including attorney's fees, however caused, whether in contract (including failure of essential purpose), strict liability or tort (including negligence or otherwise) arising out of the access and/or use or inability to access and/or use the Electronic Services or any data supplied, even if ATI has been

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Except for the provisions of the Indemnification section directly below, in no event shall ATI be liable to User in any amount exceeding the total fees User has paid to ATI during the most recent license term.

Please Note: Links may be included in ATI Electronic Services. Because ATI has no control over such sites, ATI is not responsible for such sites' accessibility via the Internet and does not endorse products, services, or information provided by these sites. ATI shall not be liable, directly or indirectly, for any damage or loss caused or alleged to be caused by or in connection with, use or reliance on any content, goods or services available on or through a linked site. The inclusion of a link within ATI Electronic Services does not imply that the site has given permission for the inclusion or that there is any relationship between ATI and the linked sites. ATI is an independent operating company and reference to other companies does not imply any partnership, joint venture, or other legal connection whereby ATI would be responsible for the actions of their respective owners.

Indemnification:

- **ATI Indemnification:** ATI shall defend, indemnify and hold harmless User, its agents, its affiliates, officers, representatives and employees from any and all claims, suits, actions, damages, judgments, and costs (including reasonable attorney fees), arising out of any: (i) damage, destruction or loss of any property; or (ii) injury to or death of any person; which results from or arises out of negligent or willful acts or omissions of ATI, its officers, agents and employees, in the performance of this Agreement.
- **User Indemnification.** To the extent permitted by applicable law, User agrees to defend, indemnify and hold harmless ATI and its agents, representatives, employees, contractors, officers, and directors, from any and all claims, suits, actions, damages, judgments, and costs (including reasonable attorney fees) arising out of any: (i) damage, destruction or loss of any property; or (ii) injury to or death of any person which results from or arises out of negligent or willful acts or omissions of User, its officers, agents or employees in the performance of this Agreement; or (iii) misuse of ATI Intellectual Property by User, its officers, agents or employees. Misuse of ATI Intellectual Property includes but is not limited to User input of copyrighted material into the ATI database through ATI Electronic Services without written permission from the owner(s) of such copyrighted material. Also to the extent permitted by applicable law, User agrees to defend, indemnify and hold harmless ATI and its agents, representatives, employees, contractors, officers, and directors from any and all claims, suits, actions, damages, judgments, and costs (including reasonable attorney fees) arising out of User's input into the ATI database of (iv) material including User-Developed Material that is alleged to infringe the rights of others including but not limited to rights on copyrights, rights of privacy, trademark rights; or (v) material that is alleged to cause or contribute to wrongful conduct by others or induce others to commit wrongful conduct.

User Name, Passwords, and Security: The User will be responsible for the confidentiality and use of the User name(s), password(s), and/or account number(s). The User agrees to defend,

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indemnify and hold harmless ATI, its agents, representatives, employees, contractors, officers, and directors from any and all claims, suits, actions, damages, judgments, and costs (including reasonable attorney fees) arising out of the User's inadvertent disclosure of or decision to disclose the User name(s), password(s), and/or account number(s) to any third party, including, but not limited to, entities that aggregate information or persons who are or claim to be acting as the User's agent or on the User's behalf. The User agrees to immediately notify ATI if the User becomes aware of:

- Any loss or theft of the User name(s), password(s) and/or account number(s); or
- Any unauthorized use of the User name(s), password(s) and/or account number(s), or of the Electronic Services or of any information from the Electronic Services.

Data Transmissions: Data, including E-mail and electronic communications, may be accessed by unauthorized third parties when transmitted between the User and ATI through the use of the Internet, other network communications facilities, or any other electronic means. Information sent between a User and ATI Galileo Online and/or other electronic applications from ATI may be encrypted at point of origin; information sent from Galileo Online and/or other electronic applications to a User may also be encrypted if the User wishes to avoid possible access by unauthorized third parties. For this reason, the User agrees that its use of software produced by third parties, including, but not limited to, "browser" software must support a data security protocol compatible with the protocol used by ATI. Until notified otherwise by ATI, the User agrees to use software that supports the Secure Socket Layer (SSL) protocol or other protocols accepted by ATI and follow ATI's Login procedures for Electronic Services that support such protocols. The User acknowledges that ATI is not responsible for notifying the User of any upgrades, fixes or enhancements to any such third-party software or for any compromise of data transmitted across computer networks or telecommunications facilities, including, but not limited to, the Internet.

Electronic Communications: The ATI Electronic Services accessed by computer provide the User with the capability to send electronic communications, including and not limited to E-mail transmissions, directly to ATI and to interact within Electronic Services applications. The User agrees to the following terms with respect to the use of electronic communications through ATI Electronic Services:

- ATI will be entitled, but is not obligated, to review or retain the User's electronic communications using ATI electronic services for, among other reasons, monitoring the quality of service the User receives, the User's compliance with this Agreement and the security of the Electronic Services.
- ATI is entitled to disclose the User's electronic communications to the extent that it is believed in good faith that disclosure is reasonably necessary to 1) comply with applicable laws or regulations; 2) enforce the terms of this Agreement; 3) respond to claims that content violates the rights of third parties; or 4) protect the rights, property, or personal safety of ATI, its Users, or the public.
- If the User is participating in an educational project under the auspices of another entity (e.g., a State or Federal Department), the User agrees that educational information may be shared with that entity (e.g., a State or Federal Department) in accordance with the agreements governing the User's participation in the educational project.
- The User agrees that ATI is entitled to use information that the User enters into the system to conduct educational research and publish educational research findings for

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such purposes as establishing the validity and reliability of assessment content provided through ATI's Electronic Services. This research will preserve the confidentiality of individual records.

- The User will not use any electronic communication feature of the ATI Electronic Services for any purpose that is unlawful, abusive, harassing, libelous, defamatory, obscene or threatening.
- The User will not use the ATI Electronic Services to solicit ATI clients or others for any purpose.
- The User will not upload, post, reproduce or distribute any information, software, or other material protected by copyright or any other intellectual property right without first obtaining the written permission of the owner of such rights.

Government Licensee: If the User is using ATI Electronic Services on behalf of any unit or agency of the United States Government, this provision applies. The Government acknowledges ATI's representation that the Electronic Services and documentation were developed at private expense and no part of the Electronic Services and documentation is in the public domain.

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in the Rights in Technical Data and Computer Software Regulations.

Termination Policy:

- *Scope:* The User may terminate this Agreement for ATI Electronic Services for cause in the event ATI is in default as defined in the following paragraph, by giving ATI a written "Notice of Default." ATI shall have thirty (30) calendar days from ATI's receipt of a written Notice of Default to correct any default. In the event ATI fails to remedy the default within that time period, the User may send ATI a written "Notice of Termination." Upon receipt of such Notice of Termination, ATI shall cease all work immediately or on the date, if any, specified in said Notice of Termination, whichever is later.
- *Termination for Default:* The User may terminate this Agreement for reason of ATI's default if: (a) a federal or state proceeding for the relief of debtors is undertaken by or against ATI, or (b) a receiver or trustee is appointed for ATI, or (c) ATI makes an assignment for the benefit of its creditors, or (d) ATI becomes insolvent, which shall be deemed to have occurred if ATI has ceased to pay its debts in the ordinary course of business or cannot pay its debts as they become due, whether or not ATI has committed an act of bankruptcy or is considered insolvent within the meaning of the federal bankruptcy law, or (e) ATI breaches any material term or violates any material provision of the written proposal/bid response to User's RFP and does not cure such breach or violation within thirty (30) calendar days from ATI's receipt of a written "Notice of Default."

ATI may terminate this Agreement for any breach of the Agreement by the User, including, but not limited to, the User's failure to make payment, the User's unauthorized use of account access information, the User's breach of this Electronic Services Agreement including confidentiality breach, the User's improper use of ATI's patented and/or copyrighted materials, or the User's misuse of the interactive components of ATI's electronic services. Prior to termination, ATI shall give the User a written "Notice

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of Default.” The User shall have thirty (30) calendar days from receipt of Notice of Default to correct any breach. In the event the User fails to remedy the breach within that given time period, ATI may send the User a written “Notice of Termination.” Termination of the Agreement shall be effective as of the date of the Notice of Termination. ATI shall have no liability to the User for terminating the User’s access to ATI’s Electronic Services for cause.

Please Note:

- The breach by User in exceeding the scope of the licenses granted in this Agreement or by disclosure of ATI Confidential Information shall result in irreparable harm to ATI for which no adequate remedy at law exists. Accordingly, upon any such breach, ATI shall be entitled to seek injunctive or other appropriate extraordinary relief, such relief being in addition to, and not in lieu of, any other rights and remedies, including the award of damages available at law or in equity. The termination of this Agreement shall terminate this Agreement as a whole, including all aspects of ATI’s written proposal to User’s RFP or other requests.

Return of Confidential Material: Upon cancellation, expiration or termination of this Agreement and at the request of the User, ATI shall return to the User or destroy any confidential information belonging to the User and still in ATI’s possession. Confidential information is considered to be any information that identifies a particular person or particular institution.

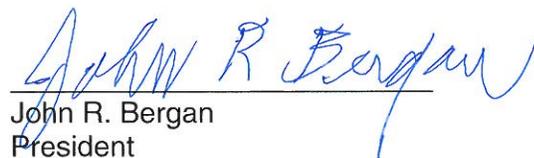
Proprietary Rights: ATI has the right to use information that the User enters into the system to conduct educational research and publish educational research findings for such purposes as establishing the validity and reliability of scales provided through ATI’s Electronic Services.

General Provisions: The internal laws of the State of Arizona will govern this Agreement. If any provision of the Agreement is held to be unenforceable, that provision will be removed and the remaining provisions will remain in full force and effect.

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o **3. Acknowledgement of Addenda**

At the time of production on April 19, 2012 there were no issued addenda.



John R. Bergan
President
Assessment Technology, Incorporated

○ 4. Supporting ATI Resources

This section provides a brief description of several supporting resources prepared by ATI as well as an electronic link to each resource.

- **4.1. The Galileo K-12 Online Instructional Improvement System: A Comprehensive Overview**

This [document](#) presents information about Assessment Technology, Incorporated as well as a comprehensive overview of the Galileo K-12 Online Instructional Improvement System (IIS). A wide variety of topics are discussed including the assessment, reporting, and data management capabilities of the Galileo IIS as well as curriculum tools in the system and the professional development, training, and support provided for the system.

- **4.2. MAGI Services: Galileo Instructional Data System Pilot Project Evaluation**

This [document](#) presents independent research funded by recipients of a federal grant administered by the Massachusetts Department of Elementary and Secondary Education and conducted by the MAGI Services Company. This research indicates that implementing Galileo K-12 Online and using the results of the system assessments to guide instruction results in positive student achievement outcomes.

- **4.3. Technical Manual: Benchmark Assessment Development in the Galileo Educational Management System**

This [manual](#) outlines the process of developing benchmark assessments for use in Galileo K-12 Online and the psychometric analyses conducted to evaluate their utility for guiding instruction to promote standards mastery.

- **4.4. Composition of a Comprehensive Assessment System**

This [white paper](#) outlines the composition of a comprehensive assessment system designed to inform the varying types of educational decisions that must be addressed in schools today. The paper details the major types of assessments included in a comprehensive system, the purposes of each type of assessment, and the characteristics and procedures required to ensure the effective implementation of each type of assessment.

- **4.5. Benchmark Assessment in Standards-Based Education: The Galileo K-12 Online Educational Management System**

This [research paper](#) describes benchmark assessment and its role in standards-based education. The paper details the kinds of information provided through benchmark assessment and how that information can be interpreted. The paper also describes key reports available in Galileo K-12 Online and discusses ways in which benchmark results conveyed through those reports can be used in making decisions to guide instruction.

- **4.6. Instructional Effectiveness Assessment**

This [white paper](#) describes an integrated instructional effectiveness assessment system built within Galileo K-12 Online and supporting school and district instructional effectiveness initiatives. The paper describes the components of the system including student assessment as it pertains to educator evaluation and direct evaluation of educator proficiency. The paper also outlines technology for combining multiple differentially weighted assessments into a single evaluation score, and describes user dashboards summarizing actionable evaluation findings.

- **5. Text References**

Thissen, D. & Wainer, H. (2001). *Test Scoring*. Mahwah: Lawrence Erlbaum.