

# Instructional Materials Technology Information

Since EdReports released its first reviews five years ago, the materials landscape has changed dramatically, especially in the area of technology. District questions have evolved from ensuring materials could be accessed on older browsers and versions of operating systems to detailed questions about interoperability, compatibility, security, support, and digital design. These questions have become even more important during the pandemic as districts assess what instructional materials may work best in their communities not just in-person, but also remotely and in hybrid settings. Access to high quality instructional materials by all students is more important than ever and technology plays an essential role in that access. To help provide technology information for materials that meet alignment criteria in Gateways 1 and 2, EdReports is requesting publishers answer the following questions to help consumers better understand the digital design and capabilities of their instructional materials.

- Section 1 provides broader questions most frequently asked of EdReports about the design of materials. These questions are meant to provide higher level, summary information.
- Section 2 provides more fine-grained details on aspects of design and functionality.

EdReports is seeking the most accurate, descriptive information about curricular products. We are not evaluating quality or desirability, but documenting features in materials to empower local schools and districts with information to select materials that will work best for them given their technological capabilities and instructional vision.

[Section 1: Usability Snapshot](#)

[Section 2: Technology Details](#)

- [Design](#)
- [System Access](#)
- [Technical Support](#)
- [Compatibility](#)
- [Accessibility](#)

- [Additional Technology Specifications](#)

## Section 1: Usability Snapshot

This section includes questions on digital design and support that allows users quick access to essential information. Please do not exceed a 150 word limit per question. You may link to other information about your product. You may also use or remove prompt text in providing additional details. Words in the detail prompt text will not count toward the word limit.

**\* Note:**

“**Yes with core product**” below should be used to indicate functionality in the materials purchased that are available without LMS integration.

“**Yes with dependencies**” below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

“**Under Development**” below should include a timeline of the development and when it will be available for use.

Design Overview	Details
What components are included in the digital materials?	The digital materials include online versions of all curriculum resources. In addition, the Imagine Learning version of IM K-5 includes classroom ready lesson slides in English and Spanish, technology enhanced assessments including cool-downs, practice problems, and unit assessments. Task statements have also been digitized and lessons include virtual manipulatives.
What is the learning design of the digital materials?	The digital materials were developed to increase access to the IM materials and support successful implementation of the IM curriculum by making it classroom-ready and easy to navigate for teachers and students. Imagine Learning has focused additional development building-on the IM curriculum to deepen student engagement, improve teacher workflows, and provide resources for families.

<p>What research is the basis for the learning design of the digital materials?</p>	<p>The curriculum team at Imagine Learning relied heavily on the IM research foundations in the work to adapt the content with fidelity. One of the design objectives was to support different learning contexts where teachers and students could move between the digital and print, necessitating continuity in the learning experience. Where technology could be utilized to engage students and support teachers work from the following publications and research was referenced.</p> <p>Smith, Margaret S., Stein, Mary Kay, (2011). <i>5 Practices for orchestrating productive mathematics discussions</i>. NCTM.</p> <p>Sullivan, P., Clarke, D., Clarke, B., (2013) <i>Teaching with Tasks for Effective Mathematics Learning</i>. New York: Springer</p> <p>Van_De_Walle, John A. <i>Teaching Student Centered Mathematics</i>. Pearson, 2014.</p>
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Questions	Check Only One*				Details
	Yes with core product	Yes with dependencies	No	Under Development	
<p>Are the materials designed so that students are able to access and complete work online?</p>	✓				<ul style="list-style-type: none"> <li>Imagine Learning Classroom (formerly LearnZillion) <u>does not</u> require LMS integration but supports most LMS's.</li> <li>Students will need a reliable, continuous internet connection to access all features and materials.</li> </ul>

					<ul style="list-style-type: none"> <li>1:1 device ratio is <u>not required</u> but many student facing items are designed to be completed independently</li> </ul>
In what ways do the materials support learning in hybrid settings (both in-person and remote learning) concurrently?	✓				<ul style="list-style-type: none"> <li>All student materials support any learning setting</li> <li>Teachers also have the ability to deliver lessons using “live learn” which support synchronous instruction, keeping students on pace and providing teachers with real-time information on student response.</li> <li>Virtual manipulatives were selected that model physical materials so students can easily move between virtual and physical representations.</li> </ul>
Are tasks, activities, and lessons able to be printed either for in-class use or for use in at-home learning?					<ul style="list-style-type: none"> <li>Yes, student facing materials can be downloaded as PDF/Doc files</li> </ul>
Is there instruction so students can work independently (or with parent/guardian support remotely)?		✓		✓	<ul style="list-style-type: none"> <li>There are family support materials including a letter and video for each unit.</li> <li>Assigned student materials including activities and practice problems and lesson slides (without teaching notes) can be accessed by students.</li> <li>Students will need direct support from parents/guardians.</li> </ul>
Does the technology allow the teacher to provide feedback to students within the system?	✓				<ul style="list-style-type: none"> <li>Yes, teachers can provide feedback at the assignment/activity level or at the question level.</li> </ul>

Does the technology automatically generate feedback directly to students as they complete assignments?		✓			<ul style="list-style-type: none"> <li>Feedback is turned off by default but can be enabled by teachers. While a majority of items throughout the curriculum are auto-scored, many open items that show student thinking will require teacher review.</li> </ul>
Does the technology automatically generate content to the student based on their own responses?			✓		<ul style="list-style-type: none"> <li>Not available at this time</li> </ul>
Does the technology automatically recommend content to the teacher based on student responses?			✓		<ul style="list-style-type: none"> <li>Not available at this time</li> </ul>
Does the technology allow the teacher to have control over differentiating lessons, tasks, or other content for students?	✓				<ul style="list-style-type: none"> <li>Teacher have extensive customization and editing capabilities, both to edit the existing content and add to it (can be disabled by district settings)</li> <li>Questions can be changed, removed, or added.</li> </ul>
Are there tutorials, videos, or other integrated supports in the materials to help <b>educators</b> to understand and/or utilize the materials?	✓				<ul style="list-style-type: none"> <li>Help section with extensive support resources on how to use the platform</li> <li>Videos at the grade-band and grade level on how to implement the curriculum and use the technology resources</li> </ul>
Are there tutorials, videos, or other integrated supports in the materials to help <b>parents/guardians</b> to support student learning?	✓				<ul style="list-style-type: none"> <li>Each unit has a family support video which includes an overview of the concepts, vocabulary, and at-home activity or discussion prompt.</li> </ul>

					<ul style="list-style-type: none"> <li>• Videos and in english with spanish captions. Letters are in english and spanish.</li> </ul>
Are educators (teachers, administrators, etc.) provided access to the product as part of the core purchase?	✓				<ul style="list-style-type: none"> <li>• Analytics are available to teachers and administrators on lesson views and assessment performance.</li> <li>• Permissions for data and content access are role based. Educators can preview all student materials in student views and impersonate student users.</li> <li>• Students cannot see assessment answers, teacher notes, or other educator-only materials.</li> </ul>
Are students provided access to the product as part of the core purchase?	✓				<ul style="list-style-type: none"> <li>• Student performance data is only accessible to their teachers and administrators.</li> <li>• Students can view assignments, lesson materials, and grades.</li> <li>• Students anonymized aggregate activity is tracked for analytics.</li> </ul>
Are parents/guardians provided access to the product as part of the core purchase?	✓				<ul style="list-style-type: none"> <li>• Parents/guardians are able to access the core product using the student login.</li> </ul>
Does all content conform to the <a href="#">National Instructional Materials Accessibility Standard</a> (a technical standard used by publishers to produce source files that may be used to develop multiple specialized formats for students with print disabilities)?	✓				<ul style="list-style-type: none"> <li>• All student materials are available through NIMAC</li> </ul>

Is technical support during day-to-day use primarily the responsibility of the client?		✓			<ul style="list-style-type: none"> <li>• Student technical support is the responsibility of the client</li> <li>• Educator technical support is available from Imagine Learning</li> </ul>
Are the materials designed to integrate with a Learning Management System (LMS)?	✓				<ul style="list-style-type: none"> <li>• Materials are accessible through LMS integrations.</li> <li>• Most imported materials can be modified (available as CC-BY resources)</li> <li>• Educators have the ability to edit and/or manage the materials within the LMS.</li> </ul>

The materials are configured to work with one or more of the following Learning Management Systems (LMS):		
LMS	Check all that apply	Details
Blackboard		<ul style="list-style-type: none"> <li>• Canvas and Schoology: Users log in to Canvas/Schoology, and are authenticated into Imagine Learning Classroom (ILC) through Single Sign-on; Users access the materials directly through (within) the LMS.</li> <li>• Google Classroom: Grade passback, assignment links, and classroom sharing.</li> <li>• There are no additional costs associated with these integrations.</li> </ul>
Canvas	✓	
Eduphoria		
Google Classroom	✓	
ItsLearning		
Moodle		
Schoology	✓	

## Section 2: Technology Checklist

The following checklists are designed to give more detailed information about digital design and technical capabilities in key areas of instructional materials to support state and local decision making. This list reflects details commonly requested by those making purchasing decisions at the state or local level. You may use or remove prompt text in providing additional details.

### Design

Design questions address whether the materials are designed to be used digitally in an in-person environment, remote learning environment, or both. Digital design can vary, often ranging from the ability to access files that are identical to print materials online to doing tasks and assessments as part of the program. The ability to take advantage of design functionality may depend on answers to questions in other sections of the checklist such as internet capabilities, number and type of devices, etc.

**\* Note:**  
**“Yes with core product”** below should be used to indicate functionality in the materials purchased that are available without LMS integration.  
**“Yes with dependencies”** below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.  
**“Under Development”** below should include a timeline of the development and when it will be available for use.

Questions	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Are there print options available for student-facing materials that could be utilized in a blended digital approach?	✓				What are the print options? (check all that apply) <input checked="" type="checkbox"/> Purchase hard-copy books/workbooks <input type="checkbox"/> Photo copies available for purchase <input checked="" type="checkbox"/> Users can print at home



Are the materials designed to be used with both digital and print components?		✓			<ul style="list-style-type: none"> <li>• The print and digital components are very similar but there are technology enhanced assessment items and rich media only available in the digital</li> <li>• All print components are shown in the digital platform</li> <li>• Digital components are not shown in print at this time (under development)</li> </ul>
Is the digital design of the materials intended to replicate a textbook experience?			✓		The digital design has similarities to the textbook experience but is enhanced by interactive content and digital assessments.
Are digital teacher guides available for the materials?	✓				<p>Digital Teacher Guides and Teacher Resource Packs are available with Teacher accounts. The Teacher Guide directly aligns to student-facing lessons for each unit and Teacher Resource Packs incorporate all additional student facing materials (i.e. assessments).</p> <p>Teacher materials are provided online, in print, and in printable PDF format. While all teaching notes and materials are available digitally within each lesson, teachers can also print out lesson-by-lesson guides for easy reference and lesson cards with the teaching notes included to support seamless facilitation. These lesson cards directly connect and mimic student-facing task statements and materials. This flexible, on-demand print feature provides teachers with options to launch the curriculum with confidence and fidelity.</p>

Do the materials contain videos for student learning?	✓				There is at least one video per unit, shorter video clips are also within some lessons for additional context.
Do the materials contain animations for student learning?				✓	
Are there digital manipulatives/simulations for students to use?	✓				Virtual manipulatives are included for students to use.
Is any or all online content dependent on links that are not maintained by the publisher?			✓		
Does the technology include the ability for students to explain their thinking on tasks/activities/problems?	✓				Yes, many assessment items include the ability for students to explain their thinking. All tasks/activities include this component.
Does the technology allow students to upload images and/or files of their work for the teacher to access?	✓				Task statements support upload of files, audio capture, and text input. Teachers may also add inputs to other assessments.
Do the materials include opportunities for online collaboration among students?				✓	
Do the materials include built-in features for student-to-teacher interaction?	✓				Teachers can provide assignment or question level feedback. In tasks statements students may upload files, record audio, or write a question/feedback.
Is there on-demand, online, professional learning support to help teachers utilize the materials?				✓	
Are there parent/guardian resources available for school systems to utilize when there is in-person instruction?	✓				Each unit has a family support video which includes an overview of the concepts, vocabulary, and at-home activity or discussion prompt. Parents may login with students credentials to access additional curriculum resources.

Are there parent/guardian resources available for school systems to utilize when there is hybrid instruction?	✓				Resources based on the learning setting are determined by the teacher.
Are there parent/guardian resources available for school systems to utilize when creating continued learning plans for distance learning schedules?	✓				
Is a 1:1 device ratio required?			✓		Imagine Learning IM K-5 is flexible with device ratio and recommendations vary by grade.
Are the assessments contained within the materials able to be securely completed by students online?	✓				Yes for all assessments. Teachers may edit assessments (if enabled in district settings).
Is data available about student user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?	✓				Site administrators can view the last login for all users. Teachers can see which students viewed an assignment and when. Assessment data can be viewed by student, class, teacher, school, grade, and district.
Is data available about teacher user sessions (e.g., timestamps, content being viewed, callbacks fired, etc...)?	✓				Site administrators can view the last login for all users and how many lessons have been viewed by teacher, school, grade, and district. Teachers can access their data.

## System Access

System access questions address how users access the digital materials and what kind of logins/passwords are accepted/supported/required.

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“Under Development” below should include a timeline of the development and when it will be available for use.

Questions	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Is single sign-on supported?	✓				Clever, LTI 1.1 (Schoology), LTI 1.3 (Canvas)
Can the platform manage staff assigned to multiple schools with a single sign-on?	✓				
Can co-teachers be assigned to multiple classes?	✓				<ul style="list-style-type: none"> <li>Classes can have multiple teachers. This can be managed through Clever or directly in the product in the teacher level and admin level (through teacher impersonation).</li> <li><a href="https://learnzillion.com/lesson_plans/123744-how-to-create-a-class-and-add-co-teachers?card=2531122">https://learnzillion.com/lesson_plans/123744-how-to-create-a-class-and-add-co-teachers?card=2531122</a></li> </ul>
Can students who move between teachers or schools using the same materials be re-assigned without losing their work/progress?	✓				Currently, the student will not lose work but new teachers will not see assignments from classes in which they do not belong.
Can the platform provide user accounts for staff members (principals and other administrators) who are not assigned students?	✓				As part of the standard contract admin accounts can be provisioned to principals and other staff members. Additional admin accounts can be created by customer admins.

Can passwords be reset without assistance from trained IT staff?	✓				Password reset is available but can be disabled for students and teachers.
When working offline, does the product automatically sync when a connection is re-established?			✓		Offline work is not supported.

## Technical Support

Technical Support questions are designed to help users understand what assistance to expect. These details are important to consider alongside local capacity for devices, networks, and use. Considering what level of independence users will have alongside these criteria can help schools and districts reflect on their needs for support.

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“**Yes with dependencies**” below refers to functionality present or accessible only through working in a separate LMS, by utilizing other software as a plug-in, or linking externally to sites outside the materials.

“**Under Development**” below should include a timeline of the development and when it will be available for use.

Technical Support	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Is technical support provided to districts during initial set-up and deployment?	✓				Implementation support and documentation are available following purchase.
Is technical support provided during the duration of the contract?	✓				Yes. All users with any educator role have access to a support form that feeds a ticketing system. Paid subscribers also have a customer success manager. Support is available 8am-5pm M-F eastern time and users should receive a reply within 24hrs.

If utilizing a free or trial version, is technical support provided?	✓				Yes. All users with any educator role have access to a support form that feeds a ticketing system. Paid subscribers also have a customer success manager. Support is available 8am-5pm M-F eastern time and users should receive a reply within 24hrs.
Are there self-service supports for troubleshooting?	✓				Imagine Learning has a help system accessible to all users and embedded resources for students and teachers.
Does technical support include planning for emergency access and district support?	✓				Imagine Learning support staff can access any customer's account on an as-needed basis. Customers can reach support directly through standard support channels.

## Compatibility

Compatibility questions address technical compatibility specifications. It is designed to help users understand how the materials will look and operate on various devices. These details are important to consider alongside local capacity for devices, networks, and use. Understanding what devices function best can help determine users' needs for district device or technical support.

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“**Under Development**” below should include a timeline of the development and when it will be available for use.

Questions	Check Only One				Details
	Yes with core product	LMS Dependent	No	Under Development	
Does the product have a native mobile application?			✓		

Is the product browser-based?	✓				
Does the product use responsive design for rendering on smartphones?	✓				
Does the product use responsive design for rendering on tablet devices?	✓				
Does the product use responsive design for rendering on laptop devices?	✓				
Does the product use responsive design for rendering on desktop devices?	✓				
Are all users (students/teachers/staff/admin/parents) permitted to use the product on more than one device (e.g., computer at school and a laptop at home or a smartphone and a laptop)?	✓				No additional downloads or licenses are required to access on multiple devices.

Device Type	Mark box if device is compatible	Oldest operating system/version supported	Newest operating system/version supported	Details
Windows	✓	NA	NA	Indicate if the materials are designed for a specific device type or if they are generally compatible.  This program is web-based and can be accessed on any internet enabled device with a compatible browser.
Linux	✓	NA	NA	
Windows Tablet	✓	NA	NA	
Apple Laptop/Desktop	✓	NA	NA	
iPhone	✓	NA	NA	
iPad	✓	NA	NA	
Android Phone	✓	NA	NA	

Android Tablet	✓	NA	NA
Chromebook/Chrome OS	✓	NA	NA
Amazon Fire OS	✓	NA	NA
Other E-Reader	✓	NA	NA
Interactive Whiteboard	✓	NA	NA

Browser		Operating System
		Browser Version (across all operating systems)
	Check if browser is compatible	
Chrome	✓	Recommended and minimum browser version requirements can be found at; <a href="https://learnzillion.com/wikis/1891313-compatible-browser-and-operating-systems">https://learnzillion.com/wikis/1891313-compatible-browser-and-operating-systems</a>  This information is updated as new versions are released.
Firefox	✓	
Safari	✓	
Edge (formerly Internet Explorer)	✓	
Internet Explorer		

## Accessibility

Curricula with digital capabilities integrate accessible supports in a variety of ways. Accessibility questions pertain specifically to diverse learners who may need specific supports to be able to successfully interact with materials.



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“**Under Development**” below should include a timeline of the development and when it will be available for use.

Supports	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Screen Readers	✓				Imagine Learning Classroom software is browser-based and will work with any browser-based screen readers.
Screen Magnification Software	✓				Imagine Learning Classroom software is browser-based and will work with any browser-based or operating system magnification tools.
Text Readers	✓				Imagine Learning Classroom software is browser-based and will work with any browser-based text readers.
Adjustable Print Size	✓				Imagine Learning Classroom software is browser-based and will work with any browser-based tools to change print size.
Speech Input Software	✓				Imagine Learning Classroom software is browser-based and will work with any browser-based speech input tools.
Header Point Devices	✓				Imagine Learning Classroom software is browser-based and will support devices compatible with the browser.
Motion/Eye Tracking Devices	✓				Imagine Learning Classroom software is browser-based and will support devices compatible with the browser.

Single Switch Entry Devices	✓				Imagine Learning Classroom software is browser-based and will support devices compatible with the browser.
Braille Readers/ Display Devices	✓				Imagine Learning Classroom software is browser-based and will support devices compatible with the browser.
Closed Captioning	✓				Videos have closed captioning
Alternative Input Devices	✓				Imagine Learning Classroom software is browser-based and will support devices compatible with the browser.
High Color Contrast Display Options			✓		
Translation of Text to Other Languages				✓	Many K-5 materials are available in Spanish
Bilingual Dictionaries available for students		✓			There is a Spanish glossary.

Supports	Check Only One				Details
	Yes with core product	Yes with dependencies	No	Under Development	
Are there required accessories (headsets, speakers)?			✓		
Is multiple playback of audio/video possible?			✓		
Can students adjust the speed of audio/video playback?			✓		
Are these accessibility supports able to be turned on/off?		✓			Yes, but they are on by default

Does all browser-based technology satisfy the Web Content Accessibility Guidelines or <a href="#">VPAT</a> ?			✓		Section 508 compliance, working towards WCAG 2.1
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## Additional Technology Specifications

### Data Security and Privacy

Data Security and Privacy questions address how student data storage, disposal, and adherence to privacy laws are addressed. If applicable, privacy reports and/or certificates can be found next to the respective indicator.

**\* Note:**

“Under Development” below should include a timeline of the development and when it will be available for use.

Questions	Check Only One			Details
	Yes	No	Under Development	
<b>Data Security:</b> Are data elements encrypted at rest, i.e. in a database or file system?	✓			LearnZillion encrypts all customer and user data at rest and in-transit with AES-256 encryption.
<b>Data Security:</b> Do the materials refer students to video, content, and other online sources that are not native to the materials?		✓		
<b>Data Security:</b> Does the end-user licensing agreement allow customers to scrape data from the product?		✓		
<b>Privacy:</b> Is personally-identifying student data provided to, generated by, or stored in any systems used by the product?	✓			For Clever users please visit <a href="https://learnzillion.com/wikis/1891356-clever-roster-sync-and-instant-login">https://learnzillion.com/wikis/1891356-clever-roster-sync-and-instant-login</a>  Please contact Imagine Learning to request specific details.

<b>Privacy:</b> Does the product/vendor make their student privacy policy publicly available?	✓			<a href="https://learnzillion.com/privacy">https://learnzillion.com/privacy</a>
<b>Privacy:</b> Does the product conform with FERPA regulations (e.g., allows districts to maintain direct control of the student record, implements permissions to prevent unnecessary disclosures, etc.)?	✓			We agree to protect records and be in compliance with the Family Educational Rights and Privacy Act (FERPA).
<b>Privacy:</b> Has a third-party evaluated the product for FERPA compliance?		✓		
<b>Privacy:</b> Does the product allow registration or data collection from children under the age of 13?		✓		

## Installation

**\* Note:**

“Under Development” below should include a timeline of the development and when it will be available for use.

Feature/Requirement/Specification	Check Only One			Details
	Yes	No	Under Development	
Is the product downloaded to individual devices: one-time internet connection required?		✓		
Is the product installed on individual computers (from CD-ROM/DVD, flash drive, etc.): no internet connection required?		✓		
Is the product installed on LAN/WAN (school or district server): no internet connection required for teachers/students after installation?		✓		

Do network administrators need to ensure a specific set of domains are white-listed to allow user traffic to those endpoints?	✓			A list of domains will be provided to customers
Does the product support deployment through Mobile Device Management (MDM) systems?		✓		
Does the product provide a detailed schedule of updates that minimizes access interruption?	✓			
Does the login authentication use district protocols to establish unique and memorable usernames and passwords?	✓			See <a href="https://help.learnzillion.com/hc/s/?id=Clever-Roster-Sync-and-Instant-Login-a">https://help.learnzillion.com/hc/s/?id=Clever-Roster-Sync-and-Instant-Login-a</a>
Is there an option for concurrent user licensing?		✓		

Standards	Compliant	Certified	Details
SIF			
CEDS			
EDUPUB			
Ed-Fi (SIS/ODS)			
Ed-Fi (Assessments)			
IMS Global (Competencies and Academic Standards Exchange)			
IMS Global (Comprehensive Learner Record)			
IMS Global (Open Badges)			

IMS Global (One Roster)	✓		https://site.imsglobal.org/certifications/clever/clever-secure-sync#cert_pane_nid_188036
IMS Global (Caliper Analytics)			
IMS Global (Question and Test Interoperability (QTI))			
IMS Global (Learning Tools Interoperability (LTI))	✓		https://site.imsglobal.org/certifications/learnzillion/learnzillion#cert_pane_nid_188506
IMS Global (LTI Advantage)			
IMS Global (Common Cartridge)		✓	Please contact Imagine Learning for verification.
IMS Global (Lite Common Cartridge)			
IMS Global (Open Video)			
Other:			

Implementation and Scalability	Yes/No or Value
What is the average page load time?	Less than 3 seconds.
What is the required bandwidth per user?	1 Mbps is recommended
Are results of stress tests provided to customers?	No
Is a disaster recovery plan for data provided to customers?	If requested.
Are customers provided with a standardized implementation plan to ensure a successful rollout?	Yes, based on customer preferences
Does the service level agreement include uptime guarantees of at least 95%	Yes

excluding planned maintenance/down-times?	
Does the product require a VPN for off site access?	No

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