

Lumen WeBSIS

ALL-IN-ONE DISTRICT INFORMATION SOLUTION

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Discover the Lumen Engineering Difference...

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The Lumen Engineering Difference

*“WeBSIS is truly a District Management System (DIS)...
not just an SIS”*



*Teachers can now spend more time teaching
...and less time managing data.*

With a 98%+ retention rate since the first WeBSIS client was installed, it is easy to recognize there is something different about Lumen Software’s solution. The WeBSIS solution is composed of experience driven, intuitively designed applications. Lumen’s highly scalable, robust solution required a significant investment in design and engineering by Lumen Software in its underlying technologies which is essential to security, scalability, user management, application management, data access, user customization, data integrity and much more. Here is a brief description of the Lumen technical difference our competitors do not want you to know.

Technically Speaking

The solution architecture by which the WeBSIS system is constructed is unique. Lumen Software’s staff has been involved in designing and developing solutions at the federal, state and local levels for over thirty years. This experience is particularly unique within the education and software industry and is paramount to the significant difference found within Lumen’s WeBSIS solution. Often these differences are overlooked, leaving an organization unknowingly exposed to many risks.

All-in-One (System convergence), Centralized Solution

WeBSIS is a truly centralized system, unlike many systems on the market today. This means that regardless of how many buildings, users, students, parents, etc. exist within an organization, the solution is supported by one centralized system. Even though WeBSIS is modular in design, these modules are tightly interwoven into one collective solution. Other systems rely on third party add-on modules they have acquired or offer, such as; student assessment management, curriculum management, health records, food service, crisis management, special education management, notification and attendance notification. These solutions are unable to provide seamless application and reporting capabilities which transcend modules. Accessing data and reporting is much more difficult in other systems, and in most cases facilitated through manual file passing and report generation processes. This is one of the paramount differences of Lumen Software’s, All-in-One, centralized design, and is essential to the ability to provide advanced, real world applications.

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Data Integrity, No Data Loss

Lumen Software provides a true multi-user environment. In a school environment, data collisions (two or more users accessing the same record) occur often and not just on student records. WeBSIS inherently handles these occurrences, preventing the phantom data loss which has been experienced in other systems since their inception. This is enforced across every application and table, not just a few, throughout the entire WeBSIS system. If two users access the same record, the second user will receive notification that they will be unable to update the record, and informed of the user who has the record locked. The second user will be asked if they would like to view the record in a non-update mode. This prevents the unknown loss of data which occurs in systems unable to provide this functionality. To date Lumen is unaware of any other browser-based solutions that are able to facilitate this.

Scalability - Protecting the User Experience – Requires more than a good database!

All database information solutions of any scope have a major obstacle, the speed and volume of database requests they are able to process. This is bound in many ways by the database used by a solution and is why some systems have converted from one database system to another as many as three times in the last four years. However, even with a good database engine and a good design, this is not enough to prevent serious issues with high volume database access points in time. To appropriately manage the volume of database access, Lumen Software incorporates its own Lumen Job Queue Management System (LJQMS) which insures a quality user experience regardless of how many progress reports, attendance calculations, etc. were requested at the same time. Users utilize a system most during those common hectic times of the school year (progress reports, report cards, etc.) and a system without a Job Queue Management System will indeed suffer, or literally shut down, from overload. The LJQMS system provides unique processing capabilities for each user.

In addition the Lumen Job Queue Management System allows for the scheduling of tasks and does not rely on the operating system to facilitate this activity. A district is able to establish when parent attendance notifications are to be sent. For example, every Friday at 3:30pm Student Final Grade Summary may be sent for high school students specifically and attendance calculations may be run at 2am daily. The options are truly unlimited. The control it provides a district to automate mundane tasks that often are overlooked is extremely powerful.

Consistent User Interface – Lumen's AJAX GUI Engine (fully user definable by user role)

Lumen Software's environment provides a consistent user interface throughout the entire system. It features a virtual desktop which allows a user to process the applications provisioned to them through the Lumen user role based management system in a method similar to what they have experienced when working on a Windows, Mac or X-Windows system. Users are able to use the system very intuitively throughout because of this standard method of access which is fully customizable by the user. The Lumen AJAX GUI called z-Windows, provides the fastest possible execution speeds in a browser based environment.

Security

Lumen Software's staff have spent a considerable amount of effort and resources designing, almost since the inception of the browser, its multi-layered security system. The system utilizes standard security methods, but has many of its own methods as well. There are many other unique system features; user online management console, Lumentation user IP access management, user access journaling, user applications access journaling, user data access journaling, and much more.

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User Role Based Management – More than just a login!

Lumen's solution provides a very robust portal environment which may be used to establish not only staff, student and parent portals but any number of other portals a district may need such as board, vendor, community, etc. Through the user role based management system, users are able to be provisioned specific applications that may be easily managed by groups and user roles. The system allows users to have access to different applications based upon what location the user accesses which is extremely beneficial with traveling teachers. The system also provides the management of data access, file access, content and remote file access.

Data Conversions

Lumen Software has predefined conversion capabilities for 87% of the SIS systems on the market today. Conversions typically consist of student demographics, transcripts, course master, master schedule and student course enrollment. Any system not previously converted by Lumen Software may be easily converted with appropriate data access using Lumen's own SDK Data Integration utilities.

Lumen Content Management System (An Integrated Website Authoring Solution)

Websites can be a great plus to a district, but can also be a horrible eyesore everyone can see when populated with outdated, incorrect information. The reason for this is the amount of information a district must provide to its staff, students, patrons and community is voluminous and ever changing. WeBSIS includes WeBCMS, Lumen's full content management system similar to a DreamWeaver, or Microsoft FrontPage. However, the template driven aspect of WeBCMS allows for an entire website look to be changed within seconds. In addition, Lumen has addressed a significant issue by allowing a district to utilize the information collected from all the different areas and allow it to be appropriately provisioned on the website. Such applications which support website interaction are the District/School Calendar and Facility Management System, Staff Directory which integrates directly to the automated teacher websites found within the Instructor Suite, Job Posting Management, Lumen Web Shop and more.

Lumen Software Development Kit (SDK)

Lumen Software also features its own industrial, SDK. This allows district's who need, or desire, the ability to write their own applications. An extensive suite of development tools (Database Manager, Application Builder, Report Builder, to name a few are all included. See the development section of Lumen Software website for details.

No Hidden Costs! – really!

Lumen Software implements the SaaS - model. Whether WeBSIS is installed within your district, or hosted at Lumen Software's NOC center, you are a hosted customer. IT staff are not required to maintain the operating system, database, applications, etc. In addition Lumen Software utilizes Linux; providing districts substantial savings in acquisition and maintenance costs.

There are no additional operating system software or user license costs (other than the Lumenation Appliance). Clients benefit from significant reduction in hardware costs due to the systems unique scalability. Unlike most systems there is no need to implement a server per building or virtual partitions. Lumen solutions are designed for clustered implementations if warranted, however a concurrent user count of 800+ users may be achieved without clustering. Even for counts above this, there are incremental steps before a full cluster would be needed.

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Lumen Software's Staff Experience

With all the assets Lumen brings to their product, key is the unique education experience of those designing Lumen solutions. Our team, most with strong education backgrounds has over 30 years experience specifically in designing and developing solutions and as consultants for companies such as IBM, Microsoft, Novell and The MASTER Teacher. This same staff has developed solutions at the federal level and for statewide data collection, transportation, levy calculations and unique student ID systems. Lumen is very much client led and because of our unusual background, we are able to understand the needs of our clients. A vendor can collect volumes of requirements from clients, but unless the staff responsible for a systems design has a working knowledge of that specific requirement, the solution most likely will not hit the mark. This explains why school districts are always looking for a better SIS system. Look no further, WeBSIS is here and with a 98% client retention rate to back it up!



For more information or to request a demonstration, visit our website or contact us

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