

products & services



Orbita® Product Brief

Tel: 01-829 3793, 09-8700767

Email: info@seamfix.com



  innovation » experience » reach
| the elements of success |

Orbita® is our web based enterprise engine and framework used in deploying business specific application software and [middleware](#) solutions for our customers.

Orbita® offers rich features that has enabled, over the years, businesses and institutions that have come in contact with Seamfix, attain benefit realization. The spectrum of features includes single sign on ([SSO](#)), Custom fields, Dynamic drag and drop, auditing and performance monitoring, Search and Tagging, Multi-language support, communities and organizations, User personalization and Simplified User Interfaces.

Orbita® is best suited for enterprise deployments because it functions internally with technology integrations flexibility ([TIF](#)). This enables it outperform other legacy frameworks since it offers database management system agnosticism (Can work with any of the leading industry [DBMS](#)), middleware services technology support ([SOAP](#)) and cloud computing and [SAAS](#) technology compliance.

Over the years, we at Seamfix have used Orbita® to transform the deployment environment of our customers ranging from Universities, State Governments, and Schools and Leading telecommunications companies across Africa. We have been able to create ease of technology adoption in heterogeneous environments and across distributed systems. Orbita® runs on [JAVA™](#) EE technology stack and interoperable with Open source System Software such as Linux and its family of distributions. This flexibility has helped reduce total cost of ownership (TCO) for our customers; thus putting permanent smiles on their faces!

How Orbita® helps transform Governments

Government policies must be made, however facts, data and statistics must backup such policies if good governance must be achieved. Orbita® is the host's application services for data gathering, analysis and presentation and consequently delivers the foundation and facets for proper electronic governance.

Orbita®, through its host of application software and middleware services enable governments all over the world deploy and run value added digital dashboards and data mining for trend analysis and retrospectives.

Government owned Universities and Polytechnics need interoperate seamlessly with external systems such as banking solutions and payment servers. Most colleges and schools have challenges in running efficient [payment systems](#) and reconciliation systems for large amounts of students in the environment. Orbita® has been deployed in over 6 Government colleges and Universities and has been able to deliver technology integrations flexibility ([TIF](#)), with ease. Losses that the schools were used to no longer exists since there is smooth integration between the banking interfaces in the teller and the spectrum of middleware services running Orbita®. **Orbita® enables Government Solutions interconnect.**

Orbita® creates the proper foundation for supporting e-Government initiatives that will transform agencies and ministries responsible for defense, environment, education, agriculture, energy, transport etc. These initiatives are devised to help the citizens of any country enjoy the benefits inherent in free society. Therefore it is key that effort of the Government over the years sum up to a cumulative result that delivers her

promised long term objectives. Seamfix is committed to helping Governments achieve long term objectives and benefit realization. We achieve this by deploying Orbita® to warehouse data and information, store and guarantee information safety, assist in speedy information retrieval and presentation and ultimately help Governments decide based on statistics and relevant information that can be accessed anywhere and at anytime from around the world. **Orbita® ensures a Government enjoys seamless data access and information sharing in a secure space and through secure channels!**

How Orbita® transforms Schools

Many schools (Primary and Post-Primary) as well as Universities, Colleges of education, Universities of sciences and technology, and Polytechnics want process automation. Given their geography, business units span long distances and some of these institutions have more than one campus. Over the years, these schools may well have deployed and developed numerous technologies and software solutions to solve varied business needs. At times, ROI is never derived as there is a low ICT infrastructure utilization level given inertia and lack of adequate training for staff.

Seamfix is committed to transforming the learning environment into a seamless entity so as to achieve technology convergence. Most deployments we make for schools run the CampusManager® or the SchoolOnline® application software running on Orbita®. This convergence will be achieved through deploying Orbita® to host the array of application software and integration components that will help achieve this convergence. The value this convergence brings is that systems are able to interoperate to a level that enables efficiency to be introduced in the system. **Time and money is saved, and these savings can be measured.**

Most importantly, our strategy towards transforming institutions of learning ensures that ROI is optimally derived in technology investments, reason being that the Orbita® promises interoperability and compatibility with future IT investments. Orbita® will deliver optimal ROI for educational institutions because it will ensure the technology deployed today is very compliant with the advancements that will occur tomorrow! **Orbita® is futuristic!**

Challenging environments that deal with large data sets like universities suffer losses. The manual repetitive ways of achieving daily business routine accommodates errors due to human weakness and computational mistakes, intentional lapses such as fraud and losses due to bureaucracy and delays. Orbita® offers a way out for these scenarios by reducing human intervention to a minimal in computational processes, distributing data entry to all students instead of manual forced centralizations that only serve to cause delays, and above all, delivers business transparency in matters pertaining to payments and collections across banks! **Orbita® delivers business transparency for institutions of learning!**

Orbita® and Your Businesses Today

Seamfix always attempts to help her customers measure increased performance in important areas such as revenue, cost reduction, employee productivity and speed and

accuracy of process execution. A plethora of software applications and business suites are deployed in the process of achieving this goal. Some of these solutions can start off with very vague requirements specifications and grow to full blown enterprise scale systems that determine close to 65% of the entire business process! These solutions run off Orbita®.

Orbita® is the secret of success in our technology deployments for our customers. It is a framework that ensures we comply with technology standards such as the [W3C](#) and [IETF](#). Quality is enforced through mature error handling routines, messaging systems and enterprise logging technologies such as log4j.

In very complex and challenging environments like the telecommunications industry, Orbita® delivers ease of system interoperability leveraging mature middleware routines and timer functions. These routines collate information travelling long distances and warehouse them in one safe schema managed within an MDA technology methodology.

Orbita® enjoys an [SOA](#) framework and therefore is suitable as a technology foundation for most enterprises. The reasons are as follows;

Business transparency: Orbita® ensures user activities carried out within the enterprise is logged leveraging its mature audit trailing and performance monitoring engine. It can always offer the answers to who accessed the system, what the person did, and the time the system was accessed as well as which tables within the relational schema were affected! This will enable IT policy and the enforcement team to go to sleep. Once the DBMS is queried, audit and logs can be analyzed, data can be mined and thus **an identity driven enterprise that delivers business transparency is achieved!**

Asset Reuse and Consolidation: Orbita® hosts technology components within its SOA framework. What this means for businesses is that some of the SOAP middleware components and application services need not be rewritten once **business rules change**. This always comes as a smile to management when the IT team can proudly say “Our system can accommodate the change”, thus delivering cost savings in procuring newer IT systems or components as well as time savings in achieving set business objectives. Orbita® enables application software to be termed digital assets and also provides a platform to technology and data convergence! Legacy and desperate technologies can **connect through** Orbita® to the enterprise choice data warehouse technology! Orbita® thus offers digital asset reuse and consolidation.

Loose coupling: Once IT investments are to be made for business process automation, it is key that professionals involved consider the features of systems under consideration with respect to inherent coupling features. Some of the systems are flat and expensive. What this usually means for your business is that there is no way of unplugging components and plugging in newer or better once if the business dictates. When such requirements arise in business, management is torn between completely overhauling the IT investments just because a necessary component is to be deployed or is forced to run two parallel systems since the flat and expensive system cannot accommodate other sub-components. Orbita® is a framework that adheres strictly to a loose coupling

architecture. This can come in very handy when there is need to deploy a new component, i.e. there is need to overhaul the SSO technology and process for logins, or a need to change password authentication mechanism within the enterprise, these changes can be achieved by coupling the desired component with Orbita® and thus this comes at minimal cost to the business, reduces the change management process and investments in training and retraining of skilled staff as well as ensures the business is back to operations with very minimal interruption due to IT. Seamfix deploys professionals that help her customers understand the impact of loose coupling in application software architecture and helps them make the best choices of technology deployment starting with Orbita®. **With Orbita®, it is easy to remove and add new components to your enterprise technology stack.**

Virtuality: Orbita® delivers value to business environments without occupying much physical space. Orbita® runs on one server (except in instances where clustering is a business requirement). We keep scaling software components vertically without much impact to the physical environment, thus Orbita® can host five application software solutions and two middleware engines without any changes to the physical IT layout of the business. **This brings an added advantage of virtualization.** Businesses no longer suffer the casualty of deploying different components of their enterprise system across different servers, and they do not suffer the cost implications of physical replication. Orbita® creates these values in the enterprise environment, Seamfix brings this to your attention, so that in future, when these circumstances arise due to dictates of business; we keep a smile on your faces!

Modularity and componentization: Orbita® is modular and can host [JSR 168](#) compliant portlets within seconds. Even in life environments, Orbita® is able to hot deploy portlets without downtime to the application server. This feature comes as a result of the modularity in its architecture.

These components can be referred to as digital assets. The modular nature of the technology elements enables progressive improvement of modules without overall impact on the entire hosted technology. This also comes in very handy in the process of error isolations and help speed up problem identification and issue resolution. This is why our customers enjoy our support programmes and have consistently scored us between 97.8% and 62% in speed of issue resolution! These inherent advantages come due to the modular design inherent in Orbita®.

Interoperability: Orbita® can run with any known commercial database management system in the world ranging from Microsoft SQL server, Postgres, Oracle, MySql etc. Seamfix is least concerned with the underlying DBMS the legacy systems within our customers environment is running, we know the power of Orbita® in seamlessly working with desperate database systems thanks to her middleware DBMS dialect engine. Orbita® enjoys the ability to host several persistent technologies and thus is able to tunnel data from the application layer, through the service layer to the data layer with ease. Orbita® enables silos of technology and pockets of legacy systems and their data communicate via common network protocols such as [FTP](#), TCP over IP, [RMI](#) and data exchange technologies such as SOAP/[XML](#). When your business is heterogeneous in technology, think Seamfix, think Orbita®. Orbita® helps in technology and data

convergence. **Orbita® as a technology framework signifies interoperability for businesses!**

Architecture best practices traceability: Orbita® runs the Service Oriented Architecture. Data analysts, IT specialist and enterprise architects will always prefer Orbita® because it converges all they know in one good framework for your business. Standards for data interchange (XML), standards for the web (W3C, IETF) are all conformed to and deliver ease in solution support and knowledge management within your business.

When it is time for interconnection, there is no grey area with Orbita®. Everybody within the IT chain knows how this will be achieved using Orbita®. Orbita® adopts industry best practices in architecture and operation. The knowledge barrier and curve is managed by best IT professionals and consultants in Seamfix. **Orbita® runs Service Oriented Architecture for maximum benefit realization for your business!**