



NewgenONE DATASHEET

The most complete Digital Transformation
platform for Enterprises

www.newgensoft.com

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About NewgenONE



NewgenONE is a unified low-code platform natively built to enable fusion teams to develop complex, contextual, and customer-centric business applications. The robust platform offers a comprehensive suite of automation technologies to meet the hyper-automation needs of enterprises and empowers them to create thousands of applications instantly.

It covers application development to create portals, mobile apps, chatbots, etc., and deploy them anywhere using a connected DevOps pipeline easily and quickly while ensuring enterprise-grade security, scalability, governance, and compliance. With NewgenONE, organizations can automate multiple processes enterprise-wide and gain a competitive edge.

NewgenONE - AI-Led Digital Transformation Platform

Low Code Application Development

- ▶ UI/UX for Portals and Mobile Interfaces
- ▶ Data Modelling
- ▶ DevOps

Process Automation

- ▶ Business Process Management and Orchestration
- ▶ Robotic Process Automation
- ▶ Business Rules Management

Contextual Content Services

- ▶ Content Management
- ▶ Records Management
- ▶ Multi-channel Capture

OmniChannel Communications

- ▶ Contextual and Personalized Communications
- ▶ Batch & On-demand Generation
- ▶ Modern Designer

Data Science and AI

- ▶ Model training, Visualization
- ▶ Analytics-based Process insights
- ▶ Content Classification and Analytics

Integration

- ▶ Catalog of reusable services
- ▶ Pre-integrated connectors
- ▶ Integration frameworks

Governance and Security

- ▶ Privacy and Access Control
- ▶ Data Encryption
- ▶ Regulatory Compliance
- ▶ Reporting & Dashboarding



Low Code Application Development

UI/UX for Portals and Mobile Interfaces with NewgenONE Interface Designer

NewgenONE Interface Designer is a robust low-code development platform engineered to streamline the creation of responsive, user-friendly interfaces. Its advanced features support rapid development, intuitive customization, and seamless integration, making it ideal for both citizen developers and experienced developers. With compatibility across various browsers and devices and robust security measures, it ensures broad accessibility and secure, high-performance operation.



- ▶ Design interfaces with **instant feedback**, ensuring accurate visual representation and reducing iteration time. The **what-you-see-is-what-you-get** (WYSIWYG) approach guarantees that the final output matches the design preview.



- ▶ Simplify UI design with **user-friendly drag-and-drop functionality**, enabling quick placement and configuration of elements. This feature supports **rapid development** and enhances the user experience by making complex designs straightforward to implement.



- ▶ Ensure a **consistent user experience** across mobile, tablet, and desktop devices with dynamic previews. This feature allows developers to see how their designs will appear on different screens.



- ▶ Utilize **pre-populated breakpoints** to automatically adapt designs for various screen sizes, enhancing efficiency in creating responsive applications. This ensures that interfaces are visually appealing and functional on all devices.



- ▶ Access a wide array of **advanced controls** such as reports, advanced list view, menu, and custom controls for complex interface design. These controls provide the flexibility needed for sophisticated application development.



- ▶ Easily **resize controls** on the canvas to maintain precise layout consistency and alignment. This feature ensures that the user interface remains well-organized and aesthetically pleasing.



- ▶ Improve usability with elements like **vertical tabs, menus, and wizards** with sub-steps. These features enhance the navigational experience, making it easier for users to find and access information.

Low Code Application Development



- ▶ Optimize space with a **hamburger icon** for side navigation, providing a clean and uncluttered user interface. This design choice maximizes available screen space and enhances the overall user experience.



- ▶ Apply **pre-defined or user-defined themes** to ensure brand consistency and personalization. This feature allows for extensive customization to match the specific branding and design guidelines.



- ▶ Edit or add **custom CSS** for granular control over interface appearance, meeting specific styling requirements. This capability provides users with the flexibility to achieve any desired look and feel.



- ▶ Configure event actions such as on **focus, on change, and on click** etc. through an intuitive properties dialog. This simplifies the process of adding interactivity to applications.



- ▶ Create interactive applications without complex coding, enhancing **user engagement and responsiveness**. This feature ensures that applications can respond dynamically to user inputs.



- ▶ Integrate **reports** within the portal for real-time insights and informed decision-making. This feature allows users to monitor and analyze business activities directly within the application.



- ▶ Utilize integrated **data models** from logged-in cabinets and various data sources, ensuring accurate and secure data handling. This feature provides robust data integration capabilities.



- ▶ Prevent erroneous data entry with **robust input validations**, enhancing data integrity. This ensures that only accurate and valid data is submitted through the forms.



- ▶ Highlight form controls with a **red border and error messages** upon validation failure, improving user awareness. This feature helps users quickly identify and correct errors.



- ▶ Display **login details, user images, and company logos** for a personalized user experience. This feature enhances user engagement and provides a tailored experience for each user.

Low Code Application Development



- ▶ Save and reuse **UI designs as templates** across different projects, ensuring consistency and speeding up the development process. This feature promotes efficiency and standardization.



- ▶ Group visual elements into **columns** for better organization and a structured user interface. This helps maintain a clean and organized layout.



- ▶ Design and integrate **surveys** within the interface to gather valuable user feedback directly from the application. This feature allows for easy collection of user insights and preferences.



- ▶ Ensure **consistent spacing and padding** around controls for a polished and professional look. This feature ensures that the user interface is visually balanced and aesthetically pleasing.



Low Code Application Development

Data Modeling & Management with NewgenONE Data Model Designer

NewgenONE Data Model Designer is an advanced low-code tool engineered for the efficient creation, management, and integration of logical data objects. With features designed for robust data handling, seamless external data source integration, and enhanced security measures, this platform empowers data architects, developers, and IT professionals to build scalable and secure data models and applications.



- ▶ Create and manage logical data objects for efficient data handling across multiple processes and applications. This ensures **consistent data flow** and smooth integration, making it suitable for complex data environments.



- ▶ The platform decouples the logical data structure from actual data sources, allowing designers to focus on creating and managing logical data object definitions without being constrained by the underlying data sources. This enhances flexibility and **streamlines the design process**, facilitating agile development and rapid iteration.



- ▶ The simplified process for creating data objects and fields ensures ease of use. The platform supports the creation of **static data objects** with **read-only fields**, facilitating seamless data management. This feature is crucial for maintaining data integrity and ensuring that data models are accurate and reliable.



- ▶ Establish connections with external data sources and manually map logical data objects to single or multiple data sources. This provides **enhanced control over data integration** and comprehensive data access, enabling complex data workflows and interoperability with existing systems.



- ▶ Support for bulk import of data objects using JSON files enables **rapid data onboarding**. This feature is essential for migrating large datasets and initializing new applications quickly.



- ▶ Synchronize data in real-time between logical data objects and external sources. The platform offers advanced options like **JOINS and arithmetic operations** for sophisticated data manipulation, ensuring that data remains current and accurate across all systems.

Low Code Application Development



- ▶ Configure the frequency of data fetching to ensure optimal synchronization. Control over synchronization schedules helps optimize data availability and **system performance**, reducing latency and ensuring that users have access to the most up-to-date information.



- ▶ Represent data objects as **Entity-Relationship** (ER) diagrams to gain insights into data relationships. This visual representation aids in understanding the interactions among different data entities, facilitating effective data modeling, and ensuring that data structures are logical and efficient.



- ▶ Introduce new data types such as **Currency, Phone Number, and Binary data**. Create **Picklists** with constant value definitions to enrich data management capabilities and ensure data consistency. This feature supports the creation of comprehensive and detailed data models tailored to specific application requirements.



- ▶ Implement data masking and encryption to protect sensitive data. These features enhance data protection and ensure compliance with **data privacy regulations by controlling** data visibility and safeguarding sensitive information. This is critical for maintaining trust and protecting user privacy.



- ▶ Generate detailed audit logs that track changes and events associated with data objects. These logs include information such as **data object name, creator, date, and modifications**, facilitating root cause analysis and swift error diagnosis. This feature supports regulatory compliance and ensures accountability.



Low Code Application Development

Deployment Through DevOps with NewgenONE Deployment Admin

NewgenONE Deployment Admin, a powerful and dedicated CI/CD module for continuous integration and deployment of artifacts designed in NewgenONE. This ensures stable and faster deployment through automation. It provides consistency and reduces the risk of errors, leading to higher-quality deployments.



- ▶ Design CI/CD pipelines with ease using our **enhanced, intuitive navigation**, making your **deployment process smoother** than ever.



- ▶ Effortlessly deploy NewgenONE artifacts **Portals, Processes, Rules, and Reports to any target server**, ensuring your applications are always up to date.



- ▶ Deploy and manage **process-specific configurations** like criteria configurations, quick search settings, audit logs, and process-specific utilities like Mailing agents and File upload utilities with unparalleled ease.



- ▶ Register **OmniDocs** as your go-to **artifact repository** for streamlined version control, with support for **JFrog Artifactory** as well.



- ▶ Enhance your **deployment security** with manual approval tasks and customizable checklists to ensure every deployment meets your standards.



- ▶ Stay informed with automatic **email notifications** throughout your pipeline execution, always keeping you in the loop.



- ▶ **Monitor** your pipeline **in real-time** and get instant error notifications, so you can troubleshoot issues on the spot.



- ▶ **Promote the same build across different environments** effortlessly, from Development to SIT, UAT, and Production.



- ▶ Deploy NewgenONE artifacts in **Docker environments** for scalable and efficient application management.



- ▶ **Protect sensitive information** with a secure credential store using **vaults and tokens**, enabling safe and encrypted information transfer during runtime execution.



- ▶ Assign and define user roles with precision, ensuring the **right access levels for every team** member in Deployment Admin.



- ▶ **Generate comprehensive audit logs** with filters for date, component actions, and user activities, keeping track of every change and action.

Low Code Application Development

NewgenONE Mobile Application

NewgenONE Mobile Extends NewgenONE services to the mobile device. It helps organizations operate their business better than ever. You can access the dashboard, Create tasks, and manage work items effortlessly from your phone. Capture and upload documents in a work item, Perform work item-related operations, and simplify your workflow with easy searches. All of these can be achieved on the go, empowering the workforce to conduct business anywhere.



- ▶ Support for Single **Sign-on (SSO)** to set up a passcode or mPIN for secure access allowing the users to quickly and securely log in, saving time and improving their experience.



- ▶ **Biometric access with Touch ID** on compatible devices for quick unlocking.



- ▶ Allowing users to personalize their profiles including customizing profile themes, profile pictures, and more, hence increasing user engagement, and making them feel more connected to the product.



- ▶ **Advanced imaging capabilities** for document capture with perspective correction and enhancement filter ensuring documents are of high quality, reducing errors and improving business processes.



- ▶ Enhanced document security by allowing users to apply **watermarks**.



- ▶ Supports **geotagging** to track documents, improving document management and compliance.



- ▶ Keep users engaged and productive with timely notifications and quick actions through an activity timeline, in-app, and **Push notifications**.



- ▶ Provides users with versatile **options for uploading** documents including camera, drive, or device local storage, accommodating their preferences and workflows, increasing the utility of the product for a broader range of users.



- ▶ Expands the product's functionality by connecting with **third-party applications** in case the **OpAll viewer** does not support the document.

Low Code Application Development

Personalized User Experience

NewgenONE offers easy access and tailored interfaces for enhanced productivity. Business users can efficiently view, assign, and manage work items, and perform data entry, verification, and approvals seamlessly within a unified interface. Interactive dashboards provide intuitive access to critical information, with configurable charts for quick insights based on specific criteria.



- ▶ Configurable **landing pages and dashboards** for back-office and knowledge workers with role-based access



- ▶ **Filter-based summary** view of the processes



- ▶ **Graphical filter-based dashboards** enable users to search and identify work items and choose business variables they want to see on the search panel



- ▶ Revamped work item view to enable users to quickly access their forms, documents, tasks, and to-do lists, and manage exception



- ▶ Collapsible **navigation panel** to access queues and mark them as favorites



- ▶ Custom links can be added by administrators which users can access to open custom component views within their workspace



- ▶ New look and feel along with **compact and professional themes**



- ▶ **Audio and video files** added can be streamed inside the document viewer available in the work item



- ▶ Edit the layout button to resize the work desk layout to allocate the space for two interfaces. For example, form view and document view



- ▶ Support for **defining dynamic criteria filters** using username and user index macros in criteria management



- ▶ Ability to define criteria on My Queue. This allows users to apply filters on the work items assigned to them on their respective My Queues

Process Automation

Business Process Management and Orchestration with NewgenONE Process Designer

NewgenONE Process Designer is a powerful, intuitive tool that allows organizations to model, design, and automate business processes with ease. It offers a drag-and-drop interface for creating workflows, enabling users to visualize and streamline complex processes without any coding. With built-in integration capabilities and real-time analytics, NewgenONE Process Designer enhances efficiency, reduces errors, and supports continuous process improvement, empowering businesses to achieve greater agility and operational excellence.



- ▶ A drag-and-drop toolbox for **modeling complex workflows**, incorporating user and robotic tasks, decision gateways, web service steps, and additional elements.



- ▶ NewgenONE Process Designer includes **requirement-gathering functionalities**, enabling process owners to automatically generate detailed process documentation, ensuring precise and comprehensive specifications.



- ▶ Easy business workflow creation with **out-of-the-box templates** for rapid process design.



- ▶ The process **orchestration engine** manages process flows, ensuring the integrity of process definitions. This guarantees adherence to predefined workflows and operational standards.



- ▶ Experience seamless integration and communication with third-party applications as the platform **supports both RESTful and SOAP web services**.



- ▶ It offers **comprehensive support for standard workflow operations**, encompassing work initiation, rule processing, versioning, sequential and parallel processing, in-flight alterations, and ad-hoc routing of work items. This ensures flexibility and efficiency throughout various stages of process execution.



- ▶ The system has **exceptional validation capabilities** to ensure processes are optimized and error-free. Rectifying potential inefficiencies contributes to improved operational performance.



- ▶ A **range of in-built adapters**, including DMS and OMS, to facilitate seamless data exchange and integration.



- ▶ The system incorporates an **advanced exception-handling mechanism** to manage and resolve unexpected runtime business scenarios.



- ▶ **Embedded sub-process functionality** enables the breakdown of intricate processes into discrete sub-components. This approach simplifies process management and enhances overall process transparency and efficiency.

Process Automation

Robotic Process Automation with NewgenONE

NewgenONE RPA empowers enterprises to automate repetitive, high-volume, rule-based business activities across varying complexity levels. NewgenONE RPA is a low-code RPA tool that enables users to develop, run, test, debug, and publish automation scripts effortlessly. Even business users with a basic understanding of programming can create and manage scripts, ensuring broad accessibility for process automation.



- ▶ Provide an integrated experience for **creating, deploying, and monitoring bots** within the application process designer and runtime environments



- ▶ Allow multiple automation activities like **web and desktop automation, excel automation, files and folder automation, FTP automation, email automation, and recorder**



- ▶ Create **automation scripts with Web and Windows Recorder** by capturing and imitating human actions



- ▶ Script **testing and debugging** capabilities **within the recorder**
- ▶ Generate bot script using **drag-and-drop** functionality



- ▶ **Share** automation scripts with other users



- ▶ Integrate with **business processes, Extraction Engine, and Document Management System**



- ▶ Bring the power of humans and bots into the same workflow to orchestrate seamless user journeys



- ▶ Use pre-built **error-handling activities** within the scripting studio along with the exception-handling mechanism of a workflow system to manage exceptions



- ▶ Support **xls, xlsx, and CSV files**



- ▶ **Push or get any data or document to the work item** in the process



- ▶ Connect to an FTP server and perform various **FTP operations**



- ▶ **Add custom activities** and extend the activities catalog in the script designer



- ▶ **Share custom activities** with access to other users

- ▶ Support **web browser access for Chrome, Edge, and Firefox**

Process Automation



- ▶ Enable **automatic classification and extraction of documents** with **AI-based bots**



- ▶ Handle multiple tasks concurrently with **multi-tasking bots**



- ▶ Use **AI-based bots** to initiate business transactions in the workflow and **recognize the pattern and context of emails**



- ▶ Leverage **AI-based bots** to listen and **sense customer interactions across various social media channels and deliver contextual responses**



- ▶ Get a **detailed job summary** in case of a job failure



- ▶ Configure and **monitor machines, bots, jobs, vaults, and users in real-time via the Control Center** – a single centralized bot management interface.



- ▶ Register and un-register a server or a machine in the Control Center.



- ▶ Add, delete, start, or stop a bot in the Control Center.



- ▶ **Create a job and schedule it** according to business needs



- ▶ Generate custom reports in BAM for bots



- ▶ Manage overall bot execution, bot licensing, and data security



- ▶ Create **vaults and tokens to send the confidential credentials in encrypted form** during runtime execution



Process Automation

Business Rules Management System with NewgenONE Rule Builder

NewgenONE Rule Builder is an agile Business Rule Management System (BRMS) that allows efficient decision management using declarative rule management mechanisms like rule calls, creation of rule flows, and executing rules for various business scenarios. It offers advanced BRMS capabilities, significantly reducing the need for coding when enforcing business rules. It features an in-built decision matrix and supports coding constructs like loops and arrays.



- ▶ The Rule Builder engine decouples business logic from mission-critical applications, enhancing agility and operational performance. As a **scalable web-based** tool, it allows businesses to easily define, deploy, control, modify, monitor, and maintain complex decision logic and comprehensive business policies governing operations.



- ▶ The Rule Builder maintains **a centralized repository for storing and managing business rules** making it easy to organize and access business rules across the enterprise.



- ▶ The system provides **out-of-box system functions** to effectively handle complex mathematical calculations and also supports custom functions to handle the pre-processing of data.



- ▶ **Rule flows are visually represented** to define the sequence of rules execution providing insight into the decision-making process.



- ▶ It enables the **deployment of rule sets as REST services** without requiring coding, and it clearly defines the applicability, priority, and expiration of rules.



- ▶ The system includes capabilities to **validate and analyze decision tables**, checking for missing or incorrect ranges, impossible matches, and overlapping rows. This capability reduces any scope of error, thereby increasing the reliability on decision logic.



- ▶ All deployed rule packages and flows in Rule Builder are automatically exposed via **REST endpoints** and can be consumed as web services through the catalog definition screen.



- ▶ The BRMS REST/SOAP services **are smoothly integrated with BPM** in the form of business rule work steps, web services, or form events.



- ▶ Provision for **downloading and uploading conflicting entities, and rule packages** using an Excel file reference to improve the upgrade process.



- ▶ **Lookup functionality** is available across all operator types in rule conditions and actions.



- ▶ Strengthening the ease of deployment, the platform offers the **provision to deploy rules on the WebLogic** server even in scenarios where WebLogic admin console credentials are not provided.

Process Automation

Dynamic Case Management with NewgenONE

Dynamic Case Management capability in NewgenONE simplifies case creation and configuration with a global task library and synchronized ad hoc processes. It supports seamless task execution, enabling discretionary tasks and ad hoc creation during runtime, ensuring CMMN 1.1 compliance. The platform facilitates collaborative decision-making with a unified case file for real-time visualization and flexible exception handling. Additionally, it offers real-time lifecycle visualization and performance insights, with automated notifications for efficient case management.



- ▶ Allow knowledge workers to **manage unprecedented business scenarios** while maintaining the highest level of collaboration and speed by orchestrating semi-structured and completely dynamic business processes



- ▶ **Ensure real-time routing, task creation, and allocation.** Execute discretionary tasks based on evolving business goals, needs, and context



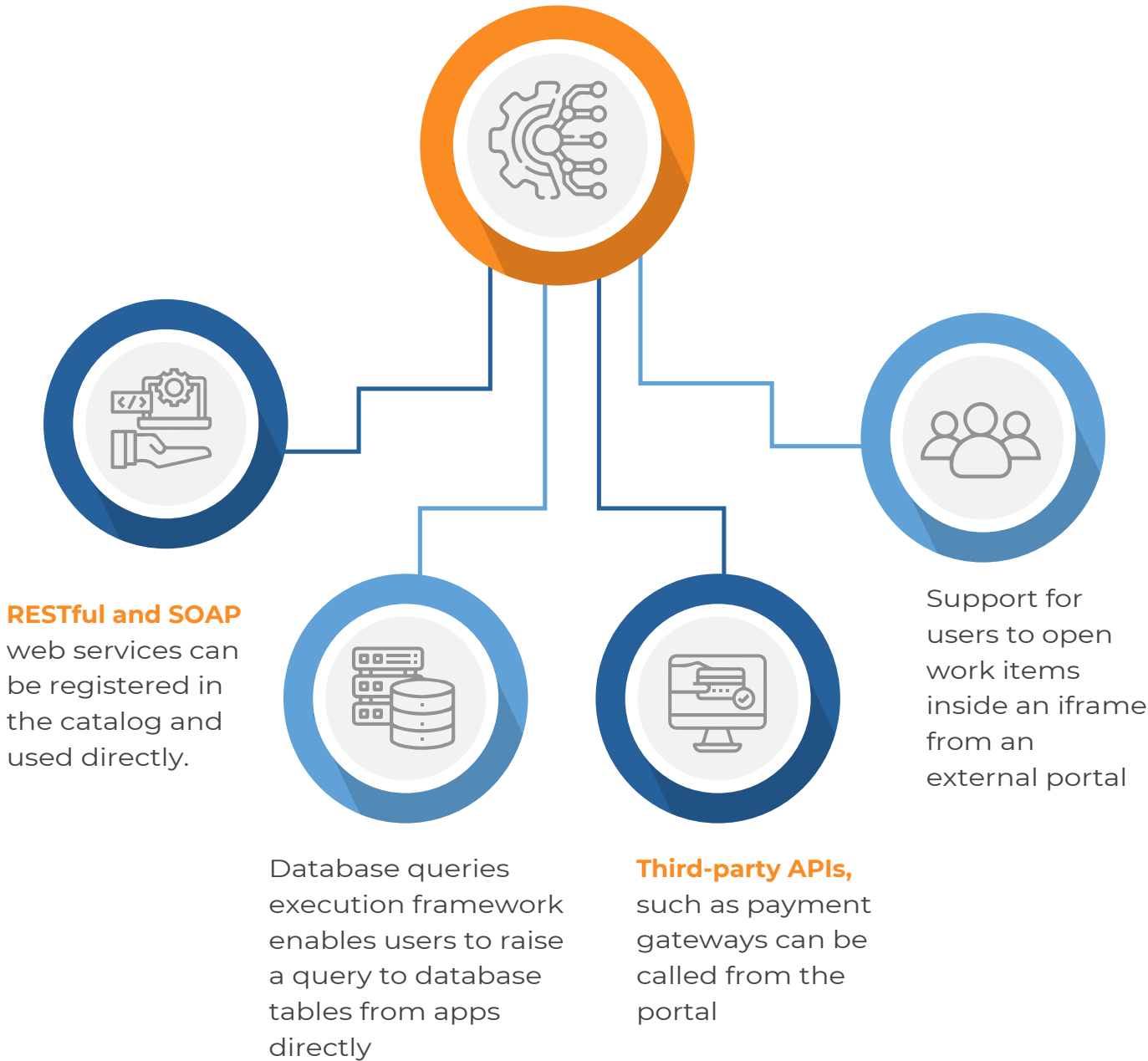
- ▶ Manage the global **task repository, advanced calendaring, and case lifecycle visualization** to empower knowledge workers



- ▶ **Enable calendar sharing, enhanced rights Management, and more. Leverage task management** engine to **configure case-specific teams and rules** for auto-initiation, escalation, expiry, sub-process tasks, notifications, and multiple parameters for searching and sorting tasks



Integrations



Governance & Security

Real-time Business Activity Monitoring with NewgenONE Report Designer & Dashboards

NewgenONE Report Designer is an enterprise solution that offers real-time summaries of business activities for effective management. It generates process-based reports from dynamic databases and presents them on a user-friendly dashboard, providing real-time visibility into process effectiveness and operational performance. BAM refers to a set of tools to aggregate, analyze, and present real-time information on business activities, whether managed by BPM software or spanning multiple systems and applications.



- ▶ Enable **real-time monitoring** of processes, resources, deliverables, and business KPIs through multiple charts, alerts, and notifications



- ▶ **Personalize dashboards** to allow process owners to easily design reports, **define KPIs**, and set alerts to gauge upcoming threats or opportunities proactively



- ▶ Leverage **report health monitoring** capabilities by segregating reports into good, average, or critical according to the health status



- ▶ Modify the health status configurations separately for any specific report



- ▶ View **the detailed analysis of the health status of reports**, such as the generation time of reports, that includes maximum and average time metrics



- ▶ Define **report-blocking** conditions if the report generation time exceeds the accepted range. Define peak hours for the blocking conditions.



- ▶ Take necessary **corrective actions** on reports, such as **unblocking automatically** blocked reports and manually blocking the reports if required



- ▶ Give rights at the report category level to a group of users through rights management in the Business Workspace



- ▶ Design **tabular reports and graphical charts** using the icon-based visual indicator and the rule-based color changes, respectively. Represent textual data visually as icons in tabular reports using the rule management feature

Governance & Security



- ▶ Configure default **download templates** to define the formatting for downloaded reports, such as custom headers, footers, date formats, & client logos



- ▶ Enable **password protection** for reports. Achieve enhanced security for reports that contain confidential/sensitive information and allow access to only permitted users



- ▶ Create new reports faster with the intuitive **wizard-based** report designer with four logical stages, which provide users with a more structured path for defining or editing reports



- ▶ Receive various categories of reports generated by **NewgenONE Marvin** (the Gen AI capability of NewgenONE) based on selected data objects or processes.



- ▶ Receive **the query and the best-suited chart** for each report along with additional recommended charts by NewgenONE Marvin (the Gen AI capability of NewgenONE).



- ▶ View the **history** of all report categories generated by NewgenONE Marvin and **roll back** to any previous report category.



Governance & Security

Authentication and User Journey

- ▶ **New users** can sign up or **continue an existing application journey** by authenticating themselves
- ▶ Authentication can be done based on native authentication, **LDAP authentication, Google OAuth, and more**
- ▶ Users can also be identified based on a combination **of SSN, user e-mail ID, or OT**
- ▶ The portal can also work as a **microsite with SSO** tokens being passed by the main site to the portal app
- ▶ Welcome message, personal details, and logout option at the top-right
- ▶ **OTP-based authentication** for one-time servicing use cases, such as the addition of missing documents

Security and Extensibility

- ▶ Enhanced security framework in concurrence with the latest **OWASP** guideline
- ▶ **Whitelisting** of incoming request attributes (type, static/dynamic value, length, possible values, range, regex pattern)
Enhanced **CSRF** request handling
- ▶ **Two-factor authentication** using a text-based captcha to login into NewgenONE
- ▶ Data scrubbing to **prevent XSS prevention**
- ▶ Open **JDK** support
- ▶ Cross-origin form opening support provided for opening forms outside the NewgenONE
- ▶ Framework for control data validation is provided for server-side validation to fix security vulnerability issues
- ▶ Automatic clearing of **server cache** upon startup
- ▶ **Custom hook** provided for downloading the form as a PDF on the server instead of downloading from a browser. Also, a hook is provided for associating the PDF as a document with a work item
- ▶ **Process-specific INI** support
- ▶ **MS Addin** support
- ▶ Session-free support in the application as with each transaction, the API of the application session will be created and destroyed after its completion

DataScience and AI

Our comprehensive suite of AI and machine learning products is designed to elevate your data processing and analytics capabilities. From advanced model training and seamless deployment to visualizations and insightful analytics, our offerings support diverse industry needs. With robust features for content classification, high-precision data extraction, and automated workflows, we help streamline processes, optimize performance, and uncover valuable insights, driving efficiency and informed decision-making across your organization.

Model Training with NewgenONE

- ▶ Comprehensive suite of model training capabilities supporting **machine learning, time series analysis, deep learning, NLP, and graph modeling**.
- ▶ Robust model evaluations through multi-model experimentation to **identify and optimize** the best-fit model.
- ▶ **Automated Machine Learning** (AutoML) features for discovering optimal hyperparameters, generating relevant features, and performing feature selection using **genetic algorithms**.
- ▶ Seamless **deployment and continuous monitoring** capabilities to ensure models remain up-to-date and effective in production environments.
- ▶ Advanced features for **noise reduction and image scaling** during data cleaning to enhance the quality of inputs for model training.
- ▶ Supports **data augmentation** techniques to improve model robustness and scalability for document processing models.

Visualization & Analytics-Based Process Insights with NewgenONE

- ▶ Diverse range of visualizations, including interactive **bubble charts, histograms, scatter plots**, and more, for gaining insights from raw data.
- ▶ Comprehensive **exploratory data analysis** (EDA) leveraging statistical methods such as **correlation, covariance, and kurtosis**.
- ▶ Detailed model performance metrics visualization to aid in the evaluation and optimization of **machine learning models**.
- ▶ Interactive visualizations offering insights into **document classification and extraction** processes.
- ▶ Exploration of **data distributions, error rates, and processing times** to identify bottlenecks and optimize performance.
- ▶ EDA features uncovering patterns and anomalies in processed data, informing further refinement of document models.

DataScience and AI

Content Classification and Analytics with NewgenONE

- ▶ Utilization of NLP models to **classify and analyze text data**, extracting meaningful insights from structured data sources.
- ▶ Supports various **sentiment analysis** techniques for document categorization and topic modeling.
- ▶ **Advanced content classification and data extraction** capabilities using sophisticated machine learning and neural network models.

High-precision **OCR** capabilities for precise text extraction from typed and

- ▶ printed content.

Applicable in industries with high volumes of manual document

- ▶ classification and data extraction, such as banking, finance, retail, manufacturing, and trade finance.
- ▶ **Automated processing** of complex documents, significantly reducing turnaround times and enhancing operational efficiency, while providing valuable insights and streamlined workflows.



Contextual Content Services

Content Management with NewgenONE OmniDocs

NewgenONE OmniDocs helps in creating, capturing, managing, delivering, and archiving large volumes of documents. OmniDocs provides a highly scalable, unified repository for secure storage and management of enterprise content. It provides access to enterprise content directly and via other business applications through seamless integration.

- ▶ Document **check-in, check-out, version control, comprehensive folder, and document-level operations**, like move/copy, forward, print, download, etc. Supports storage and viewing of PDF, JPEG, TIF, DOC, XLS files, etc.
- ▶ **Maker Checker** Document Approval module helps administrators create workflows for document-intensive processes that allow the processing of transactions uploaded through different channels.
- ▶ Discover the powerful **search functionalities** offered by NewgenONE OmniDocs, utilizing metadata tagging to facilitate searches on multiple criteria. Engage with advanced search features such as Full-Text-Search, Synonym, Proximity, Phrase, and Fuzzy Search for fast and precise information retrieval.
- ▶ **Integration with third-party** Business & Productivity Applications like Salesforce, SAP, Microsoft, Guidewire, and Duck Creek through out-of-the-box connectors. Integration with applications through the use of Rest services and Microservices.
- ▶ **Preconfigured Dashboards** for different user personas (Knowledge Workers, Workflow Users, Senior Administrators). Options to configure customized dashboards and custom widgets within those Dashboards are also available.
- ▶ Selective **Audit logging and Reporting** for tracking all content/process-related operations. Notification system for all admin/content/folder-related operations by setting up Alarms and Reminders. Rights management module for controlling rights on content and folders. Specific privileges to perform admin-related operations.
- ▶ Options to deploy NewgenONE OmniDocs on cloud platforms like Amazon, Azure, and Google. **Integration with low-cost storage services** like Glacier and Deep Glacier for saving costs on less frequently used items/document retention for regulatory compliances. Video streaming and multi-part upload/download of content on Cloud platforms. Hybrid storage of content using a combination of In-premise and cloud-based deployments.
- ▶ **Content classification, comparison, summarization, and Q&A** facilitated by NewgenONE Marvin (the Gen AI capability of NewgenONE). Possibilities to set up multiple LLMs for executing these functionalities.

Contextual Content Services

Records Management with NewgenONE OmniDocs RMS

NewgenONE OmniDocs Records Management System enables end-to-end management of enterprise records right from creation, maintenance, and usage to disposition. It helps improve accountability for physical and electronic records by maintaining their authenticity, reliability, and integrity. By leveraging the Records Management System, enterprises can excel in audits and meet compliance goals for legal and regulatory requirements such as DoD 5051.2, ISO 16175 1 & 2, ISO 15489, and NRAA Oman.

- ▶ A **unified view** of all relevant records with customizable dashboards based on roles and rights, enhancing efficiency and usability with widgets for favorites, recent items, tasks, and more.
- ▶ Organize records **hierarchically into classes, subclasses, files, and file parts**, simplifying record retrieval and management with multi-level access rights
Supports various file formats like **PDF, JPEG, TIF, DOC, XLS**, etc.
- ▶ **Full-text search** on images and electronic documents, metadata-based search, and advanced searches like fuzzy search, proximity search, and phrase search.
- ▶ Define **retention rules** based on organization policy, which can be time-based or event-based, and specify the respective disposition actions like Transfer, Destroy, Export, Selective Transfer, and Keep Indefinitely.
- ▶ Mark essential files, file parts, and records "vital" to prevent **destruction or disposal**.
- ▶ Seamless **integration with MS SharePoint**, allowing manual and automatic filing of records and support to import/export functionality from third-party DMS in XML format.
- ▶ Restrict access to certain records by applying security levels to groups, users, or roles.
- ▶ Allow users to delete only the images from a particular record while keeping the data intact.
- ▶ Track the physical movement of records
- ▶ Define the **movement of physical records** from one location to another and of electronic records from one server to another
- ▶ Facilitate policy management using rule definitions, such as cut-off rollover, retention, storage, and file numbering policy
- ▶ Generate detailed administrative, transfer activity, and accession reports to monitor system usage, document record movement, and ensure compliance and preservation.
- ▶ **Attach barcodes** to physical files, track document movements, and generate transfer notes to manage and document the transfer process among users or locations

Contextual Content Services

Multichannel capture with NewgenONE OmniScan

NewgenONE OmniScan is used to automate the process of scanning documents and segregating them into records. Pre-Scanned documents can also be imported into NewgenONE OmniScan to arrange them into records. It accelerates business processes by capturing data and transforming it into actionable business information.

- ▶ Securely capture **paper and electronic documents** at the point of origin from production-level scanners and web desktops.
- ▶ With NewgenONE Marvin, automatically **identify document types**, eliminate manual sorting efforts, and **intelligently extract data** from documents, populating fields with accuracy and efficiency.
- ▶ **Conversion of paper-based processes** and documents into digitized, actionable data for easy processing and management
- ▶ Auto **separation and classification** of documents within a batch based on inserted blank pages, bar codes, bar code stickers, standard form, and fixed page separator
- ▶ **Image-assisted data entry** by highlighting the relevant portion of the page
- ▶ Supports **multiple image file** formats (Tiff, jpeg, pdf, bmp, pcx, dcx, gif, jpg, pdf)
- ▶ Scan different sections of the documents in different resolutions, image types, and page sizes
- ▶ Enables **barcode, MICR, and OCR bases** extraction from images.
- ▶ Define **document types and separators** for doctypes. When a batch is scanned, automatically separates into doc types
- ▶ **Document Quality Analyser** (DQA) technology to clean and enhance the quality of scanned images automatically.
- ▶ **In-built adapters** to integrate with NewgenONE OmniDocs RMS and NewgenONE Content Cloud.
- ▶ Effortless **template creation** with an auto-filled data field and doctype names based on selected suggestions.
- ▶ Automated **indexing** to ensure faster and easier identification of documents.

Omnichannel Communications with NewgenONE OmniOMS

NewgenONE OmniOMS enables designing, managing, and distributing engaging end-to-end communications from a centralized platform while tapping various cross and up-sell opportunities. It integrates with diverse systems and applications and is cloud-friendly with containerization support on AWS and Azure platforms. The container architecture enables organizations to leverage the cloud to achieve faster time to market, reduce infrastructure costs, and improve communication generation performance.



- ▶ A range of formats, including **Word, PDF, HTML, and WhatsApp**, are supported, to help create communications appropriate for various communication channels.



- ▶ It provides a variety of controls that differ across the template to personalize the conversations. The **email template creator allows hyperlinks, action buttons, customizable movies, and photos**.



- ▶ In addition to **dynamic tables, graphics, headers and footers, rich** text, and other features, PDF restrictions like **password-protected generation, watermarks, and digital signatures** are provided to assure secure communications.



- ▶ Users can construct visually appealing and useful conversations using elements like charts.



- ▶ **Master layouts and reusable template** components for emails and letters are accommodated by the NewgenONE OmniOMS designer. The creation time for a template can be decreased by using these master layouts and components for both local and enterprise levels.



- ▶ Provides **multiple language support, business rules, fillable PDFs**, and communication version management in a single Unicode solution.



- ▶ NewgenONE OmniOMS Communication designer equipped with NewgenONE Marvin can **generate content, enhance existing material, generate subject lines, and translate languages**.



- ▶ Formats like **CSV, XML, and JSON** can be used to import data. Utilizes ready-made plugins for spool file data extraction and accepts input from data sources such as MS SQL, Oracle, and PostgreSQL.

Omnichannel Communications with NewgenONE OmniOMS



- ▶ Extensive **dashboarding and reporting** features, such as batch monitoring, services monitoring, and communications tracking organized by channel (e-mail, SMS, WhatsApp, PDF), job, template, and timeframe. Detailed data, including product-specific tracking, promo picture tracking, and link tracking, among others. With a drag-and-drop user interface, business users can design custom dashboards according to requirements.



- ▶ Advanced admin controls on the user interface: gateway integration for SMTP, batch scheduling and OnDemand setting and monitoring, services configuration, SMS approval procedures (during both the planning and generating phases). Strong user and rights management, audit trail dashboards, reporting, and dashboards provide the organization with communication system control.



- ▶ Adaptable to several **cloud platforms**, including **GCP, AWS, and Azure**. Facilitate integration with role-based application access, Azure containers, IAM, and Amazon S3. Bitly integration for tracking and creating customized URLs



Minimum System Requirements for NewgenONE

Prerequisites

- **Operating Systems:**
Windows Server 2019 (64-bit) Standard Edition, Windows Server 2022 (64-bit) Standard Edition, Linux RHEL 8. x (64-bit), Linux RHEL 9.0 (64-bit)
- **Supported OmniDocs version:** NewgenONE OmniDocs 11.0 SP2
- **Supported Database Servers:**
 - Microsoft SQL 2019
 - Microsoft SQL 2022
 - Oracle 19C
 - PostgreSQL 14.6
 - Oracle JDK 11 Update 9 or later
- **Supported Browser:**
 - Mozilla Firefox 121
 - Google Chrome 121
 - Safari 16.4
 - Microsoft Edge 121

Hardware requirements

- **Server Side:**
 - Server-grade machines
 - 12 GB RAM
 - 160 GB Hard Disk
- **Client Side:**
 - Intel Core i3
 - 4 GB RAM
 - 40 GB hard drive

Software requirements

- **Server Side**
 - Respective operating system and application server
 - Respective database server
- **Client Side**
 - Supported web browsers:
 - Microsoft Edge 121
 - Mozilla Firefox 121
 - Google Chrome 121
 - Safari 16.4
 - Windows 10 & Windows 11
 - NewgenONE Mobile support for all versions after iOS 13 and Android 11

Cloud Compliances and Certifications

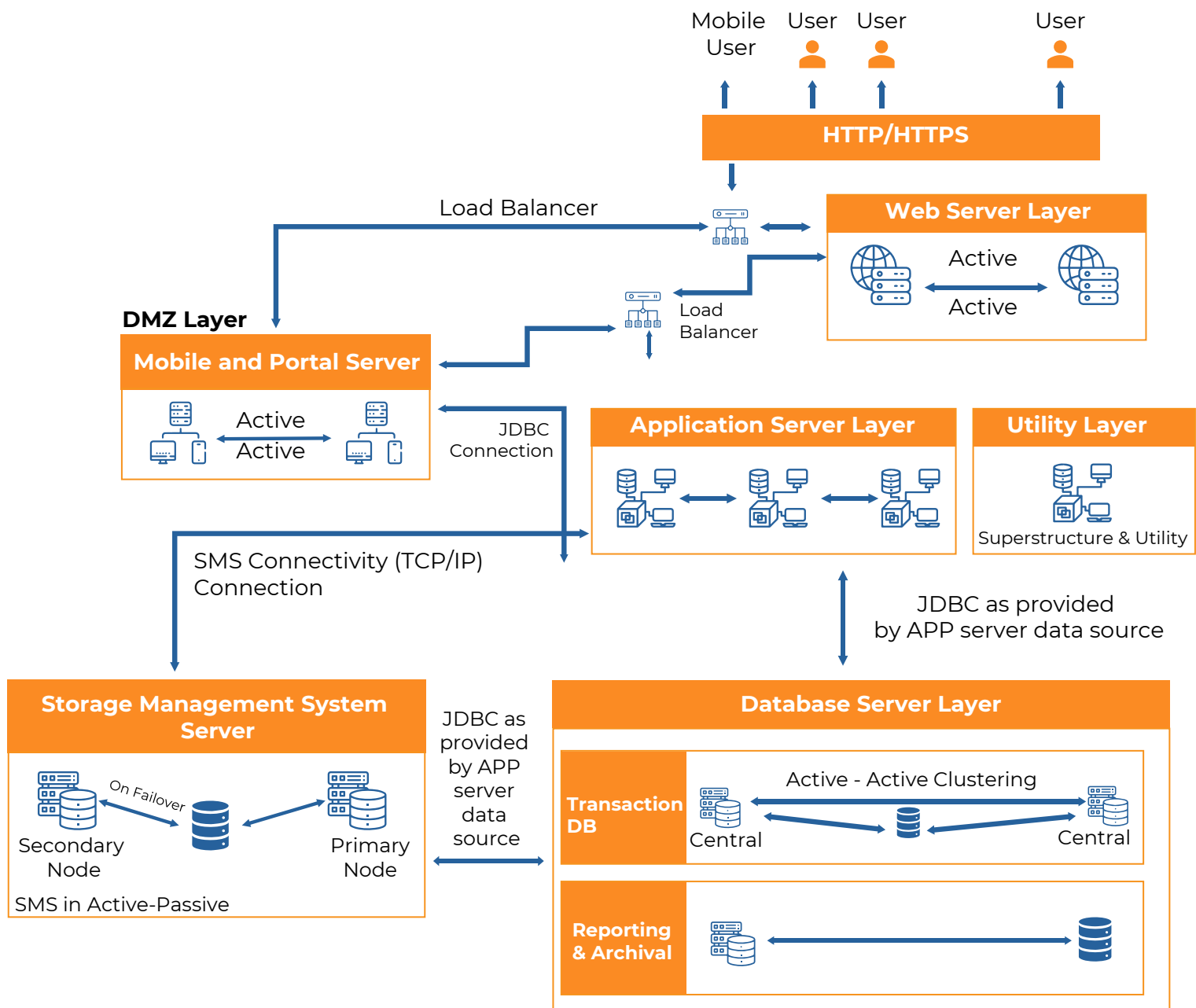
- ▶ Enhanced security framework in concurrence with the latest OWASP guideline
- ▶ **ISO/IEC 27001**: Information Security Management By BSI
- ▶ **ISO/IEC 27017**: Controls for cloud services By BSI
- ▶ **ISO/IEC 27018**: PII in Public Cloud By BSI
- ▶ **CMMI Services & Development**: By QAI
- ▶ **ISAE 3402**: SOC 1 (Type 2) by KPMG
- ▶ **ISAE 3000**: SOC 2 (Type 2) + HITRUST by KPMG
- ▶ HIPAA
- ▶ PCI – DSS

Technology & Framework

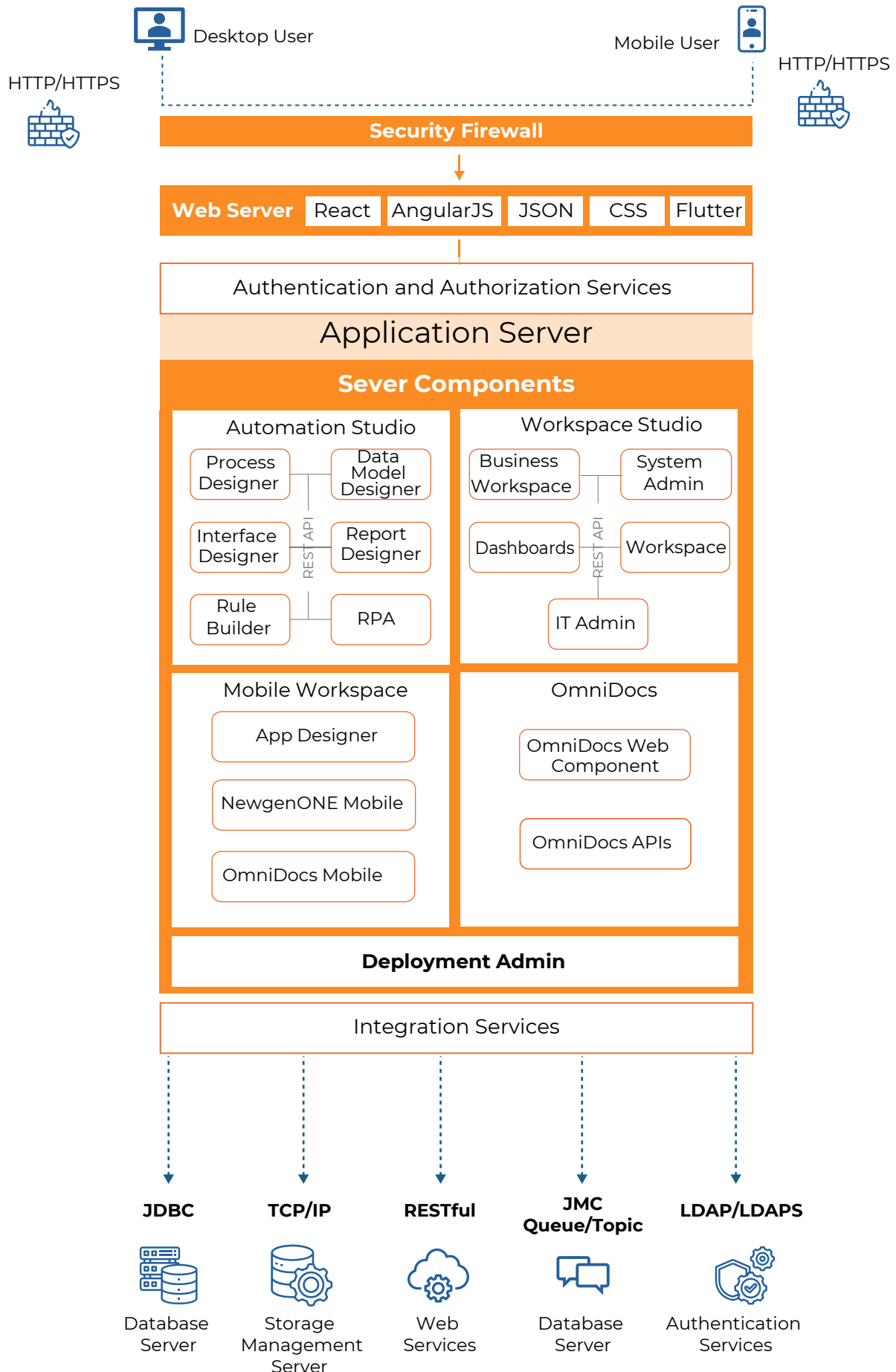
- | | |
|--|--|
| ▶ Java EE | ▶ Java EE (JDK 11) |
| ▶ React JS (React 17), CSS 3 | ▶ React JS (React 17), CSS 3 |
| ▶ .Net for RPA (4.0) | ▶ .Net for RPA (4.0) |
| ▶ Flutter for Mobile Apps (3.7.7) | ▶ Flutter for Mobile Apps (3.7.7) |
| ▶ Python for Data Science | ▶ Python for Data Science |
| ▶ JavaScript, JSON, JSP, EJB | ▶ JavaScript, JSON, JSP, EJB |
| ▶ JMS, JDBC | ▶ JMS, JDBC |
| ▶ RESTful Web Services (Jersey 2.39) | ▶ RESTful Web Services (Jersey 2.39) |
| ▶ Bootstrap 3.x | ▶ Bootstrap 3.x |
| ▶ BPMN 2.0 | ▶ BPMN 2.0 |
| ▶ Axis 2 for SOAP web services (1.8.2) | ▶ Axis 2 for SOAP web services (1.8.2) |
| ▶ Red hat Decision Management (7.8) | ▶ Red hat Decision Management (7.8) |
| ▶ Apex Chart (3.32.1) | ▶ Apex Chart (3.32.1) |
| ▶ OmniDocs Artifactory (11) | ▶ OmniDocs Artifactory (11) |

NewgenONE Technical Architecture

In-premise vertical and horizontal scaling with failover recovery



NewgenONE Platform Architecture – Components Overview





About Newgen

Newgen is the leading provider of a unified digital transformation platform with native process automation, content services, and communication management capabilities. Globally, successful enterprises rely on Newgen's industry-recognized low-code application platform to develop and deploy complex, content-driven, and customer-engaging business applications on the cloud. From onboarding to service requests, lending to underwriting, and for many more use cases across industries. Newgen unlocks simple with speed and agility.

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June 2024