

Newgen Enterprise Mobility Framework

Overview: Mobile Computing

Mobile computing has assumed a significant role in the context of Digital Business Strategy. The ability to access information real-time on a mobile device is no longer a luxury, but a business requirement at all levels of an enterprise. As a key enabler, mobility is driving flexible avenues of customer engagement, information management, employee productivity and field services. Leveraging immediate accessibility, mobility is helping business attain a competitive advantage, customer satisfaction and higher revenue growth.

According to a Nielsen research, an average of 25 business and productivity apps are expected to be added and leveraged through a mobile device. This uptake is quite significant. Enterprises will require a comprehensive strategy combining short term and long term goals to unleash the full potential of mobility investment. Short term goals focus on the speedy development and delivery of apps, while the long term goals will address concerns around consistency, security, manageability and total cost of ownership (TCO).

The right digital strategy, needs to be backed by the right architecture and framework to develop, deploy and maintain these apps. Enterprises need applications with a “low-code” approach in order to present information in a timely and efficient manner, while delivering the rich features and comprehensive platforms.

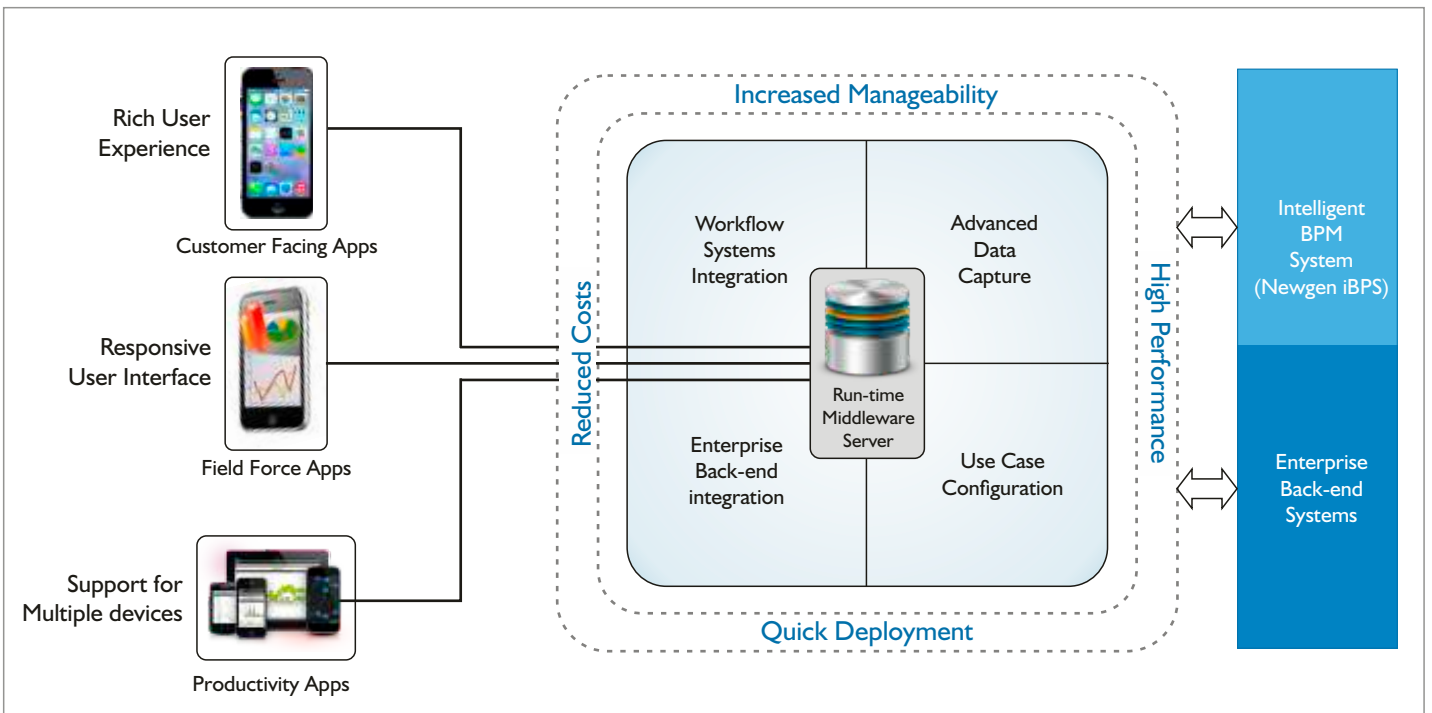
Common Requirements for Business Apps

- Seamless usage across multiple devices and platforms
- Rich integration with device features
- Strong Security features
- Easy distribution and change management
- Supports offline operations
- User personalization and Configurability
- Advanced imaging
- Integration with multiple backend systems

Newgen Enterprise Mobility Framework

The Newgen Enterprise Mobility Framework (NEMF) is a smart choice for enterprises to launch mobility imperatives and enable digital transformation. It is a framework to develop, deploy and manage highly configurable hybrid mobile apps, which support multiple platforms.

NEMF provides plug and play components, enterprise level security, advanced data and document capture and adaptors for integration with back-end systems to enable rapid, low code app development.



Key Features

Support for Multiple Devices and Operating Systems

NEMF provides a standard approach for developing responsive apps, which can work across different forms of mobile devices including Smartphones, Tablets and Phablets. It provides open architecture that allows the leveraging of any Integrated Development Environment (IDE) for building hybrid apps with HTML5 /JS/CSS and native capabilities to deliver a rich user experience across devices.

Any app developed using the NEMF framework offers default support for all major mobile operating systems including IOS and Android; and can be deployed with very little incremental effort.

Reusable Plug and Play Components:

NEMF offers comprehensive libraries of plug and play components for rapid app development and lower support costs. Some examples are:

- Imaging Functions including camera access, compress, transform, crop and corrections
- Leveraging GPS and location intelligence directly in the application
- Notifications and alerts
- Native device capabilities including Call Manager, Keyboard, SMS
- Efficient network utilization
- Ready Made Integration Adaptors for BPM, ERP and other back-end systems
- Integration framework for Active Directory, Payment Gateway, MDM, Email Server

Advanced Imaging

NEMF offers advanced imaging capabilities for capturing high quality document images. It provides libraries of comprehensive imaging features that can be leveraged for building content centric apps to mobilize business processes and document capture.

- **Extraction:** NEMF offers a range of data recognition and extraction features that reduces user workload by eliminating redundant data entry requirements and simplifying transactions through self-service.
 - OCR Extraction in online/offline environment from various document images including Driver Licenses, Utility Bills, Passports, National Id Cards, PAN cards and Aadhar Cards.
 - Barcode/QR Code Extraction capabilities for all 1D, 2D, 3D barcodes.
- **Image Compression:** Drastically reduces image sizes to ensure quick data transfer.
- **Color Conversion:** Removes background from colored images by converting them into black and white images.
- **Quality Enhancement:** Automatically improves image quality including skew removal, noise correction and perspective correction to comply with processing standards.
- **Multi-page Imaging:** Consolidates multi-page images to create a single document with multiple pages.
- **Auto-Photograph Detection and Cropping:** Automatically detects crops (removes background) and saves photographs from physical documents.
- **Auto Orientation Correction:** Automatically rectifies the orientation of an image regardless of the orientation in which it is captured or scanned.

- **Intelligent Image Capture Settings:** Allows users to define image capture settings such as capture mode, orientation and megapixels for each document type.
- **Offline capture:** This imaging function helps user to capture image and data in case of network outage.

Integration Framework and Adaptors

NEMF provides easy integration framework to integrate mobile apps with back-end systems. It also provides out-of-the-box adaptors for OmniDocs, OmniFlow, SAP and other standard systems.

Configurability

Apps developed and deployed in NEMF support extensive configurability options. UI elements look and feel, batch sizes, enabling and disabling of different options can be controlled without any addition or alterations to codes.

Security

NEMF offers enterprise grade security features to ensure that apps are built and deployed in accordance with security and management policy of the enterprise. Some of the key security features are:

- OWASP compliance.
- Data and document encryption.
- Secured access with two factor authentication.
- Secured device data management.
- Data masking.
- Secure transmission of data through https protocol.





Benefits

The enterprise is able to achieve both direct and indirect benefits when using Newgen's Enterprise Mobility Framework. Businesses that implement NEMF experience measurable increases in productivity and reductions in IT infrastructure costs through better utilization of capital assets. In addition, there is a reduction in operating costs, travel and communication expenses, and infrastructure usage, through real-time access to business data.

The ability to receive and respond to information in real time is a key requirement not only for business leaders but for down-line managers as well. NEMF provides a platform to deploy enterprise apps and a means to know when and where the data is accessed.

Key Benefits

- Reduction in decision making timeframes
- Immediate access to business data
- Reduction in operational costs
- Efficient tracking and monitoring mechanism
- Efficient utilization of capital assets and infrastructure
- Improved employee and HR procedures

About Newgen

Newgen Software is a leading global provider of Business Process Management (BPM), Enterprise Content Management (ECM) Adaptive Case Management (ACM) and Customer Communication Management (CCM), with a global footprint of 1300+ installations in 60+ countries with large, mission-critical solutions deployed at the world's leading Banks, Insurance firms, BPO's, Healthcare Organizations, Government, Telecom Companies & Shared Service Centers.

Newgen's Quality Systems are certified against ISO 9001:2008 and Information Security Standard, ISO 27001:2005. Newgen has been assessed at CMMi Level 3.

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