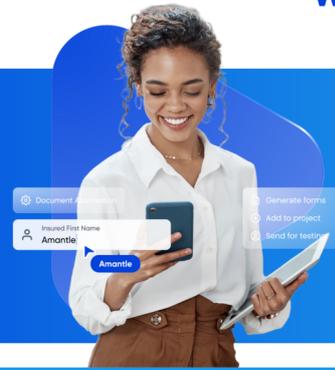


Document Generation & Customer Communications Management



This white paper provides an overview of Customer Communications Management (CCM) and Document Generation (DocGen) technologies, exploring how GhostDraft delivers enterprise-grade solutions for automated, compliant, and personalised document production.

1. Introduction

Customer Communications Management (CCM) refers to the integrated process of designing, producing, and distributing communications from an organisation to its customers. This can include a wide range of different customer communications such as insurance policies, proposals, contractual documents, billing statements, general letters, marketing materials, and regulatory notifications.

A CCM software platform provides the technical foundation for automating and controlling this process at scale. It ensures that each communication is: personalised for the intended recipient, compliant, accurate, brand-aligned, and delivered through the appropriate channel.

The complexity of modern enterprise communication has driven the need for robust CCM systems that can integrate with core business applications, handle large volumes of variable data, and support personalised omnichannel delivery.

2. The Role of Document Generation (DocGen)

At the core of any CCM platform lies the "Document Generation" (DocGen) engine – also known, interchangeably, as "Document Automation" and "Document Assembly" – the software responsible for dynamically composing and assembling documents based on templates, business rules, and input data.

Document generation systems combine static and dynamic content elements, merge them with structured data inputs, and produce output documents in a variety of formats such as PDF, DOCX, HTML, emails, and text messages.

Core Components of Document Generation

DocGen typically consists of three distinct components:



Template Editor - The customary starting point of the DocGen process. Enables business users to create document templates containing both fixed and dynamic content, including variable placeholders and conditional logic constructs (IF THEN ELSE, FOR EACH...).

The editor also provides tools for precision formatting of all elements of a document, such as headers, footers, tables, fonts, text layout, positioning of images and more. Effectively a Word Processor on steroids!

Data Mapper - Transforms data extracted from backend systems into an interpretable structure for the document composition engine, typically leveraging XML or JSON schemas. The data mapper is at the centre of the ETL process (extract, transform, load) of each communication event.

Composition Engine - Executes the generation process, merging data with templates and business logic to produce fully rendered documents ready for delivery.

Operational Models for Document Generation

DocGen processes can run in either 'on-demand' or 'batch' modes. On-demand generation responds to individual user or system requests in real time, whereas batch runs handle high-volume jobs such as monthly statements or policy renewals.

And on-demand use-cases may, when appropriate, combine data extracted from a back-end system together with ad hoc customer data captured 'interactively' online, by the user at run-time. Such cases will typically entail an intelligent two-way interaction with the user, before generating the required document.

3. What is Customer Communications Management?

While DocGen focuses primarily on document assembly, CCM extends this scope to encompass the full lifecycle of content management, approval workflows, and delivery orchestration.

Modern CCM systems integrate tightly with enterprise applications such as policy administration, CRM, and ERP platforms. And they are increasingly being enhanced to operate in conjunction with corporate Customer Experience Management (CXM) systems.

A CCM solution typically includes version-controlled content libraries, approval workflows, and centralized branding controls, ensuring consistency and compliance across all customer touchpoints.

CCM System Architecture

A comprehensive CCM platform incorporates both upstream and downstream capabilities:



Content Authoring and Governance (Upstream)

Ensuring compliance, managing templates and text snippets, versioning, and approval processes.

Document Composition Engine

Delivery and Archival (Downstream)

Delivering documents to customers via multiple channels – print, email, SMS, portals – while archiving copies for compliance.

4. GhostDraft: A Modern Customer Communications Management Solution

GhostDraft was originally developed as a document generation platform designed for complex and highly regulated industries such as insurance, banking, wealth management, and legal services. Over time, it has evolved into a full-featured CCM solution, combining document composition, workflow management, and omnichannel delivery capabilities. Today, GhostDraft is deployed across hundreds of organisations, with thousands of users generating millions of documents every month.

The GhostDraft platform is composed of modular, interoperable components that can be deployed individually or as a complete suite, allowing flexibility and scalability in implementation.

GhostDraft Platform Components

Originate Suite – Tools for upstream processes that generally precede document generation: original content creation, internal review and approvals, regulatory compliance management, version control.

Activate Suite – Tools for document generation and downstream delivery, monitoring, and archiving.

Workflow and APIs – GhostDraft is driven by an API-first architecture, enabling seamless integration with a wide range of different enterprise applications and workflow engines.

Cloud-Native SaaS – Delivered as a secure, scalable, and dedicated cloud service, ensuring high availability and simplified maintenance.

Key Technical Differentiators

- Deep integration capabilities via RESTful APIs and web services
- Multi-format rendering (PDF, DOCX, HTML, and message-based outputs)
- Flexible data transformation using XML and JSON schemas
- Advanced conditional logic and rule-based personalisation
- Compliance-driven versioning and content governance



5. Conclusion

Document Generation and CCM technologies are critical enablers of digital transformation in regulated industries. They ensure operational efficiency, reduce compliance risk, and enhance the customer experience through personalised communications.

GhostDraft continues to lead in this domain, providing an enterprise-grade CCM platform that combines flexibility, technical sophistication, and business user empowerment.