

JUMBO BLOCK ENGINEERING SUITE

JUMBO BLOCK Writer

User Manual · Version 7.0.0

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1. Overview

JUMBO BLOCK Writer is the highly available, local offline word processor of the JUMBO BLOCK Engineering Suite. The system was specifically developed for municipalities, CRITIS operators, public authorities, construction sector organizations, and enterprises to maintain legally compliant correspondence and document generation even during IT outages, cyber incidents, or complete network isolation.

The application runs entirely locally in the browser as a single HTML file (writer.html). There is no cloud connection, no external server, and no user account required. Writer processes all inputs directly on the client, generates print and PDF documents in the browser, and exchanges master data and project results bidirectionally via the shared data structure project.dbm with other suite tools (PLAN, STATIC, HYDRO, BUDGET, TEMP).

2. Getting Started

Upon opening the application file writer.html, the editor opens with a blank standard template conforming to DIN 5008 Form A/B. All control elements are located in the top menu and toolbar. The initial operational status indicates 'No document loaded' or standard draft mode.

Typical workflow: Import master data and project parameters from a project.dbm file, select the desired template (e.g., official letterhead, emergency notification, site soil assessment report, or approval decree), customize text modules, and export the document locally as a PDF or save it as a .writer.dbm file.

3. Import / Export (project.dbm & .writer.dbm)

JUMBO BLOCK Writer supports two core file formats for data management:

- **project.dbm:** The universal suite data format. Upon import, Writer reads project data as well as calculation and geometry data from PLAN, STATIC, HYDRO, or BUDGET.
- **.writer.dbm / ZIP Archive:** The specific Writer document format. It contains structured document content, embedded images, formatting specs, and the SHA-256 integrity hash.

4. Project Information & Metadata

Captures project title, organization/municipality, author, reference number, date, recipient address, and emergency classification. These data points populate letterhead fields (per DIN 5008) and are saved to project.dbm upon export.

5. Document Layout & DIN 5008 Standards

Provides pre-configured layout grids per DIN 5008 (Form A and Form B), managing exact spacing for address fields, info blocks, fold marks, hole punch marks, and subject lines.

6. Editor Functions & Toolbar

The WYSIWYG toolbar offers quick access to standard functions: text alignment, formatting styles, bullet lists, table editing, image insertion, placeholder mapping, and special characters.

7. Offline Capability & Local Processing

Compliant with digital sovereignty and cyber resilience guidelines, Writer embeds all required libraries (JSZip, html2canvas, jsPDF) directly open-source and locally.

8. Template System & Management

Features built-in templates for official correspondence, CRITIS emergency notifications, technical jobsite reports, and blank sign-off forms.

9. Text Formatting & Typography

Utilizes web-safe vector fonts (Arial, Helvetica, Times New Roman, Courier) with precise point scaling (pt) optimized for A4 printing.

10. Image & Media Handling

Images (PNG, JPEG, SVG) can be inserted via drag-and-drop. Writer converts graphics locally into Base64 Data URIs.

11. Tables & Structured Content

Includes a table editor for creating bills of quantities, inspection tables, and material summaries.

12. Security, Integrity & Signatures

Provides visual and cryptographic signing via vector drawing on touch screens or uploaded image files.

13. Document Verification & SHA-256 Hashes

Generates a cryptographic SHA-256 hash over all text and image contents for every exported file to guarantee tamper resistance.

14. CRITIS & Business Continuity Compliance

Enables immediate recovery of administrative operational readiness on any standalone laptop during a complete IT infrastructure breakdown.

15. Headers, Footers & Page Numbering

Dynamic headers and footers automatically handle page numbering ('Page X of Y'), document titles, reference numbers, and integrity status lines.

16. Printing & PDF Export (jsPDF / html2canvas)

Offers two parallel export paths: native browser printing (`window.print()`) and client-side PDF rendering via `html2canvas` and `jsPDF`.

17. Batch Processing & Backup

Allows simultaneous generation of serial letters or emergency alerts based on CSV or `project.dbm` data lists.

18. Consistency & Quality Checks

Automated validation rules check the document for completeness prior to export (e.g., unreplaced placeholders or missing recipients).

19. Document Status & Audit Trail

Tracks document lifecycles through defined states (Draft, In Review, Approved, Sent) with an immutable timestamped audit log.

20. Report Generation & Export Formats

Provides four output formats: Standard PDF, Writer DBM Archive (`.writer.dbm`), Plain HTML Transcript, and CRITIS Emergency Printout.

21. Resetting Writer

Resets the editor completely to factory defaults after confirmation, clearing temporary storage for a fresh workspace.

22. Language Switch (German/English)

Seamless UI and contextual help toggle between German and English via `menue.js` without affecting document content.

23. Data Integrity Verification (SHA-256)

Guarantees mathematical document integrity featuring a three-color status indicator in the status bar.

24. Contextual Help & Info Buttons

Interactive info buttons provide instant access to field guidance, placeholder syntax, and compliance guidelines.

25. Limitations, Notes & Best Practices

Writer is a local word processor and does not replace a Qualified Electronic Signature (QES) under eIDAS where mandated by law.

26. Quick Reference of Icons & Buttons

Icon / Button	Meaning & Function
 Info	Opens technical contextual help for the selected input field or tool
Import (project.dbm)	Imports suite master data and verifies the SHA-256 hash
Open Document (.writer)	Loads a previously saved Writer document archive
Export (.writer.dbm)	Saves the current state as a compressed, hash-secured archive
PDF Export	Generates a printable PDF file client-side via jsPDF / html2canvas
Print (window.print)	Opens the operating system print dialog for direct output
Templates	Opens the template selection dialog for letterheads and emergency forms
Sign	Opens the signature canvas for digital approval via touch/mouse
Reset Writer	Resets the editor to factory defaults upon confirmation
 Hash Status	Displays the current SHA-256 integrity status of the document