



jadice

Product information

jadice document platform

The jadice product family offers for the document management area easy-to-integrate Java components in order to archive, administrate, distribute, edit and display documents. Nearly all common image and text documents can be processed with these powerful **components**.

As the core of the jadice product family the jadice document platform offers the basis for individual archive client and server solutions. Being a pure Java toolbox the **jadice document platform** is of particular interest for heterogeneous environments. With its useful modules, helpful additional components and elaborated interfaces it is possible to combine a proper **jadice** package for a fast and risk-free creation of individual archive client solutions.



With its additional components the jadice document platform may be applied in different areas of the document management:

- Migration and data import
- Document processing and converting
- Signature capturing
- Signature
- Barcode recognition
- Consolidated archive access

The document viewer **jadice viewer** is an essential part of the jadice document platform.

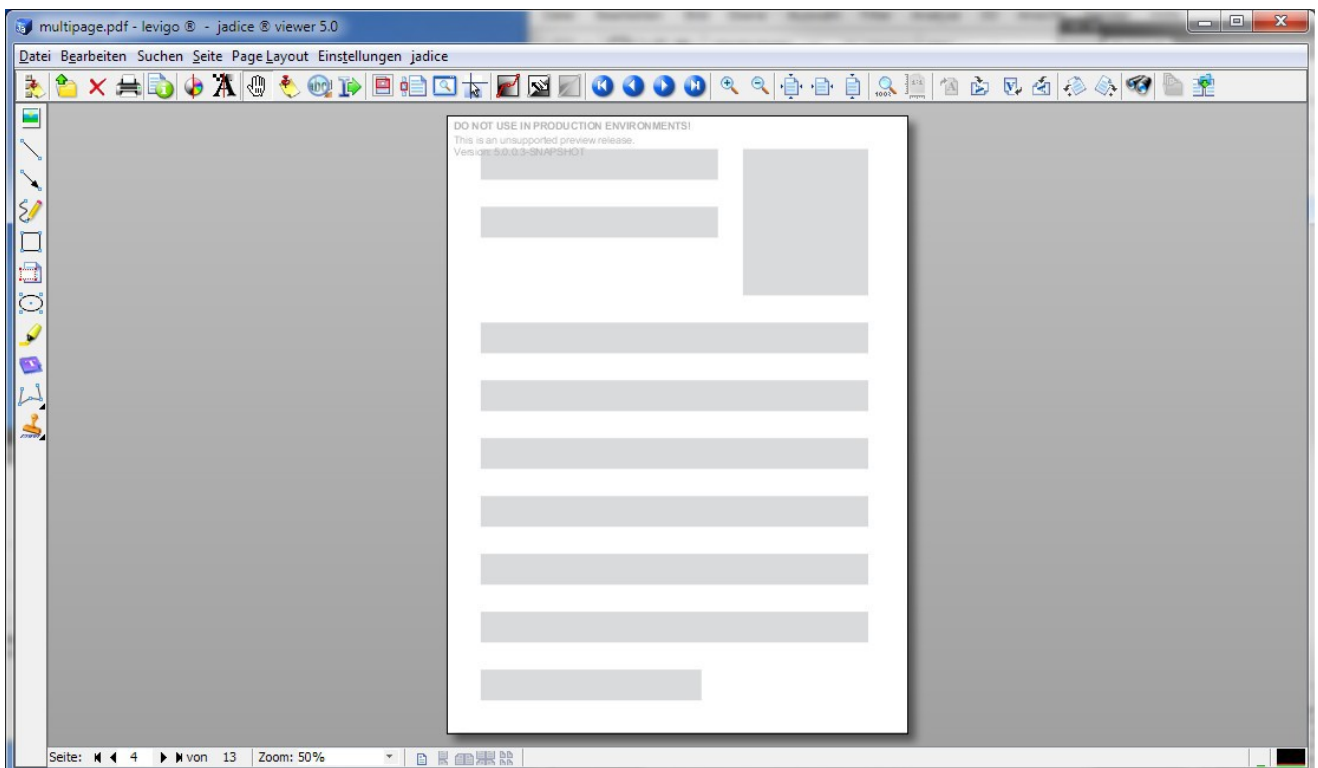
jadice viewer



A powerful document viewer called **jadice viewer** is the core piece of the jadice document platform. It may be integrated in own applications or when preconfigured used as an adequate viewer for document processing.

Apart from the fast displaying of very large and compound documents and the support of a very large amount of image formats jadice supports the work-flow in an optimal way.

jadice can be used in different areas of the document and enterprise management (work-flow solutions, long-time archiving etc.) both as application and applet or even in RCP-applications.



jadice highlights and features

Document formats

jadice supports all document formats commonly used in long-time archiving. For other formats a flexible component for data preparation is provided.

Due to the smooth interaction of direct support and flexible data preparation different document formats may be presented in a standardised way.

Document processing

jadice is characterised by an intelligent memory management and a fully developed rendering engine. This combination enables a fast displaying of very **large** documents (technical charts, architecture or site maps, etc.), but also the processing of **virtual** documents which are composed of mixed documents respectively document formats.

Document preview

Another particular characteristic of jadice is its **First Page Display**. The First Page Display allows a displaying of already loaded pages whereas the document's rest is still being loaded in the background.

Comfortable data exchange

jadice offers a comfortable desktop integration due to clipboard support and **Drag & Drop**.

jadice Monitoring

With a connection to jadice monitoring detailed information on the **run-time behaviour** of document operations may be provided.

Flexibility

Open interfaces, compatibility with many standard and special formats, look & feel as well as the possible use in any archiving system guarantee a high degree of flexibility.

Accessibility

jadice meets already by standard a bigger part of requirements for accessible working in regard of displaying, navigation and control elements.

In order to make **document contents** accessible for visually handicapped people, screenreaders, like the common applications **JAWS**, **LunarPlus** and **NaturalSpeak**, need structured document contents.

By means of the **accessibility panel** jadice provides structured **document contents** to the software for visually handicapped users.

Documents, optimized for being processed by visually handicapped users, already contain document information in the required structure. Regarding other documents

this information may be detected by OCR.

OCR-on-demand

The implemented OCR-on-demand functionality is the interface to OCR systems, allowing the generation of OCR information and structured document contents from image data streams.

This information can be made barrier-free directly accessible in the accessibility panel and put out e.g. via **screen reader**.

Efficient user interface

jadice offers a balanced operational concept with expanded **annotation editors** and a smart **lightbox-sitemap**.

The concept is completed by the **levigo action framework** which allows the easy and comfortable configuration of tools in user interfaces. This regards also an easy adaptation of the look & feel to one's own corporate identity.

Using the Tools API it is possible to add own functions or further displaying notes to the document displaying.

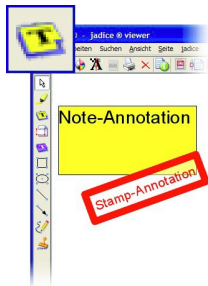
jadice displaying functions

Page layout



The **lightbox-function**, mentioned prior to this, at the bottom of the screen provides several ways displaying document pages. They can be arranged as single, double and quadruple pages, and displayed continuously.

In addition two or more documents can be represented in one window using a **pin-function**. These will be displayed sequentially.



Annotations

Annotations are additional information to a document which may be set on a particular page by the user. They do not change the original document.

These annotations can contain information in form of **text** (comments, notes, remarks, explanations, notices) or **graphic objects** (indications by arrows or coloured areas) for illustration, highlighting or even for hiding.

jadice provides a large number of annotation types and supports **various annotation formats**. Using an interface **customer specific extra-formats** may also be realised.

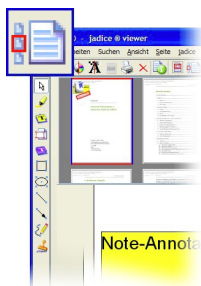
Overlay-functions provide a better and faster usability of the annotation functions.

Supported annotation formats:

- IBM Content Manager 7
- IBM Content Manager 8
- FileNet IS, P8
- jadice annotation format
- customer specific extra formats

Extensively enhanced drag & drop support

By drag & drop support it is possible to move data between different applications. For example, documents can be drawn directly from the desktop into jadice viewer.



ThumbnailView

jadice provides the possibility to display the document's pages in a minimised way in form of **thumbnails**. Using the mouse one or more pages can be selected and moved by drag & drop. The page order is automatically adjusted in jadice. The page displayed in jadice as well as all selected thumbnails are highlighted by colour. Double-clicking on a thumbnail activates this page in jadice and forces its displaying.

Text retrieval

jadice offers a **standardised text retrieval** for all text-based formats. Both single pages and logic documents may be searched regardless of their format. A connection to OCR-systems is already prepared for NCI-formats.

Found texts may be stored directly in the clipboard and are thus available for any further processing in further applications.

Text-/Graphic marking

If documents with textual data, either directly out of the document format or by OCR enriched, are to be displayed, text may be selected and set into the clipboard. For this multiple ways of selection are available.

It is possible for all pages, totally independent of the documents' original format, to mark any image detail and to export it as an image.

Lens

A very precise displaying of page details is supported by jadice's **lens view**. The lens displays a highly magnified page segment according to the mouse cursor's position in jadice viewer.

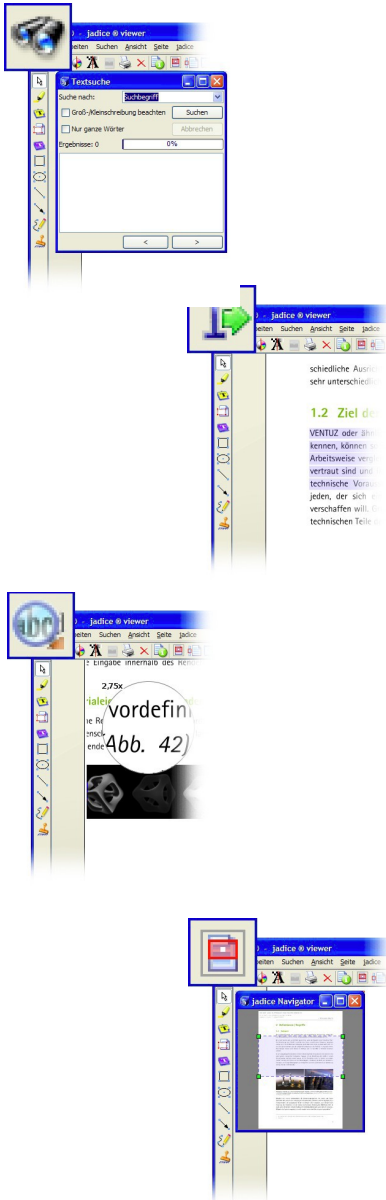
Alternatively there is a **HoverLens** in a separate window. A HoverLens corresponds to a lens hovering about the page view in jadice and is bound to the mouse's movement.

NavigatorPanel

For the processing of large pages or if a very high zoom factor is set in the viewer jadice offers a page overview. The active page is presented as a thumbnail in a minimised way displaying the visualised segment as a small transparent rectangle over the page. This rectangle can be moved by using the mouse in order to navigate within a page, i.e. to scroll the displayed page segment in jadice.

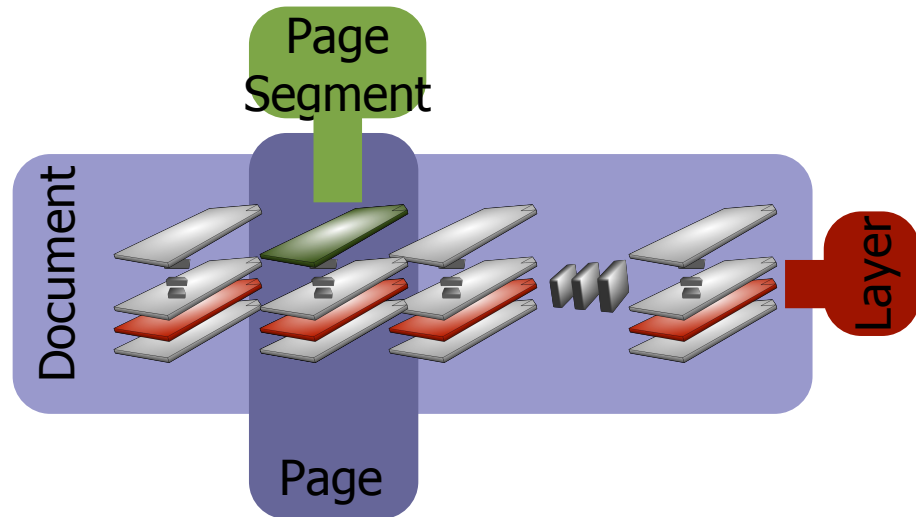
Displaying quality

The documents' displaying can be regulated in its brightness. This serves in particular to make poorly scanned documents more readable.



The document model

The jadice document model consists of **four elements** which are further described in the following.



Documents can be considered as a summary of pages which are processed as a unit in an application. But no firm and permanent connection needs to exist between documents and data streams or data formats, i.e. documents are only containers for pages. A document can obtain its pages from several data streams or data formats, but even the pages themselves can in regard of their presentation be composed of data of different data streams.

Layers present a „vertical“ division of the document. Different layers are displayed, as a rule, directly superposed. This means that from the user's view all layers of a document form a closed unit. Thus layers are comparable to superposed transparent folios. Ex: letter-head on layer 1, letter-text on layer 2.

Pages usually represent the smallest unit displayed to the user. They consist, similar to the documents, of further objects so-called PageSegments. PageSegments occur within a page the positions determined by the document's layers. Pages do not create images for displaying, they render themselves automatically into given graphic contexts like e.g. monitor, printer, etc.

PageSegments carry the actual document information. Thus they correspond directly with the according pages of a document data stream.

PageSegments are integrated by means of layers into the page or the document.

jadice at a glance

Pure **Java solution**:

Use as applet, application or embedded.

Use on any archiving system possible.

Operating systems

All operating systems for which an appropriate JVM is provided.

Archiving formats:

- PDF/A-1
- AFP & MO:DCA with following contents:
 - PTOCA
 - IOCA
 - GOCA
 - Page Segmente
 - Overlays & Forms
- IOCA
- TIFF
 - compressed
 - uncompressed
 - RLE
 - Packbits
 - Fax G3 / G4 respectively CCITT T.4 and CCITT T.6
 - JPEG (true-color and grayscale)
 - LZW
 - DEFLATE
- FileNet Banded Image
- FileNet ASCII PC Forms
- EBCDIC
- ASCII
- JBIG2
- JPEG/JFIF
- GIF
- BMP
- PNG
- Further optional formats via ImageIO interface, for example by using Java Advanced ImageIO Tools.

Documentation

A **specific documentation** describing jadice document platform is provided in each distribution. Apart from this distribution description the provided documentation contains a developer's guide and an annotation manual, release notes and technical notes.

A complete documentation is online available. You will the **documentation library** here:

<http://support.levigo.de/products/jadice/documentplatform/>

Having questions, problems, failures and comments you may contact jadice developers and experts directly by the **levigo support center**:

<https://support.levigo.de/>

Important notes

Some of the listed functions or features must be licensed separately.

Not all features are available on all operating systems / application environments / software architectures / Java VMs.

A complete coverage of the standards cannot be assured with the formats mentioned above.