

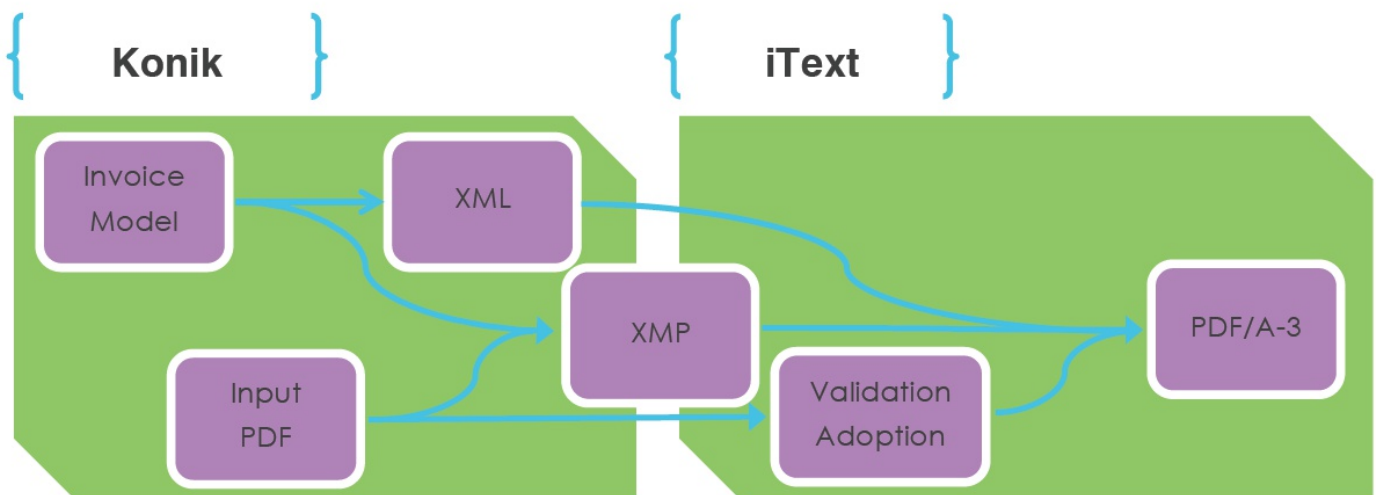
# The ZUGFeRD Case

iText User Story

Konik is an Open Source library designed for the upcoming German E-Invoicing Standard ZUGFeRD (Central User Guide Forum electronic Invoice Germany). Aim of the standard is to deliver an invoice document in a human readable and machine-readable format. In addition, the entire documents should satisfy long-term archiving regulations. Based on these three requirements the recently approved PDF/A-3 specification was capable of achievability combined with container functionality.

Konik allows application vendors to create and read ZUGFeRD compliant Invoices in an easy and transparent way. Besides the generation process the Konik library provides various validation and verification methods on the semantic level of the invoice to ensure that the generated invoice is correct and compliant with various country specific regulations.

In combination with iText core the Konik library is able to attach or read invoice content from and to PDFs. The process of creating a compliant ZUGFeRD invoice consists of transforming the invoice model into a ZUGFeRD XML file. In the next step the PDF is taken that was generated by ERP software or an online shop is analyzed and the existing XMP content is extracted. The XMP content is then enriched with a ZUGFeRD specific PDF/A extension schema. In the final step the input PDF is modified by attaching the XML content to the PDF and the existing XMP content is replaced with ZUGFeRD enriched version.



A reverse process where Invoice data is extracted from ZUGFeRD compliant PDFs is also provided with the Konik library.



Konik is an Open Source library designed for the upcoming German E-Invoicing Standard ZUGFeRD (Central User Guide Forum electronic Invoice Germany). The Standard is becoming public available in July 2014 and intended for public and private sector of all sizes. The library is also intended for use outside of Germany.

Website: [www.konik.io](http://www.konik.io)