

The ODP Reader

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Mapping, omissions, and round-trip expectations for the ODP reader	
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Status of This Memo

This document is an internal Zen discussion record authored in Typst and tracked in git. It intentionally follows RFC-style structure so the design scope, rationale, trade-offs, and operational constraints remain explicit. Documents that still use the placeholder number XXXXX are provisional drafts. Numbered ZDS documents are part of the project record.

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77. Abstract

The format record for `zenfmt_odp` (`ai.insan.zenfmt.odp`). An OpenDocument presentation projects exactly like PPTX: each `draw:page` becomes a level-two heading followed by the text of its frames, and speaker notes append as a container classed notes. As with PPTX, the reader says loudly — `odp.presentation-projection`, a warning on every conversion — that a slide deck loses the most in this projection.

78. Mapping

Source	Tree result	Facets
draw:page	One slide in document order.	The zero-based page index is the <code>surface_index</code> of every layout facet on that slide.
Frame classed title (presentation:class)	Its first paragraph is the slide's heading (level 2). Slides without a title frame fall back to the page's <code>draw:name</code> ; empty slides still contribute their heading.	LayoutFacet (surface slide) from the frame's <code>svg:x/svg:y/svg:width/svg:height</code> , converted exactly to EMU (cm 360000, mm 36000, in 914400, pt 12700, pc 152400, px 9525) and attached to the heading. Frames without geometry attach none; the synthetic fallback heading has no frame and attaches none.
Other frames' text:p	Paragraphs, in frame order.	LayoutFacet from the frame's geometry, attached to the frame's first emitted block.
text:span	Character styles resolved through <code>office:automatic-styles</code> and <code>styles.xml</code> with <code>style:parent-style-name</code> chains (16 hops), exactly the ODT rules: bold weight → strong, italic → emphasis, and the rest of the canonical nesting order.	none.
text:a	link with the <code>xlink:href</code> target.	none.

Source	Tree result	Facets
text:list	list; ordered when the list style's first level is text:list-level-style-number, as in ODT.	LayoutFacet from the enclosing frame, when the list is the frame's first block.
table:table inside a frame	A table, streamed as in the ODT reader. Every row lands in table_body — presentations have no header semantics — unless the deck declares table:table-header-rows, which maps to table_head. table:covered-table-cell folds into its originating cell and table:number-columns-spanned carries as the cell's column span.	LayoutFacet from the enclosing frame, when the table is the frame's first block.
presentation:notes	A container with class notes appended after the slide's frames.	none.
office:annotation	Dropped with odp.annotations-dropped.	none.

79. Deliberate omissions

What	Why
Positioning, sizes, z-order, rotation	A linear document has no spatial layout; this is the projection the warning names.
Animations, transitions, timings	Behavior, not content.
Images, charts, media, non-text shapes	Dropped; the projection warning covers them. Carrying images is future work shared with the PPTX reader.
Master pages and layout inheritance	Slide masters carry design, not content; placeholder text is never document text.
Presenter console settings, presentation:settings	Tooling state.

80. Round-trip expectations

None: ODP is read-only and no preservation namespace is written. The projection is deliberately lossy and the loss is announced on every conversion; a Markdown-to-slides authoring path is a different feature with its own record.

81. Security

The shared `zenfmt_ooxml` archive limits and the DTD-free XML parser apply unchanged. The frame machine is the same bounded, non-recursive design as the ODT reader: a 256-frame stack and `skipElement` for subtrees the mapping drops.

82. References

- ZDS 0002, *Reading the Office Formats*.
- ZDS 0006, *The ODT Reader* (style resolution shared with this reader).
- ZDS 0007, *The PPTX Reader* (the projection conventions).
- OASIS OpenDocument v1.3 Part 3, `draw:*` and `presentation:*`.