



i-net Crystal-ClearX version 10

Features

Output formats and the various features

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1 Content

This document describes the features which i-net Crystal-Clear supports in the different report output formats. This should help you decide for an output format for your report.

2 Required third party software

The following table shows which format requires third party software installed on the client to view the report in a browser.

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|--------------------------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|-----|-----|------|------------------|
| Requires third party software? | ✓ ₁ | ✓ ₂ | — ₃ | ✓ | ✓ ₄ | ✓ ₄ | X ₅ | X ₅ | X ₅ | — | — | — | — _{6,1} |

1. A Java VM is installed on most computers. It is not part of a Windows installation but if you order a computer with an OS then it is usually pre-installed. A Java VM can be downloaded for free.
2. Acrobat Reader is installed on most Computers. It is not part of a Windows installation but if you order a computer with an OS then it is mostly pre-installed. Acrobat Reader can be downloaded for free.
3. Most modern Browsers have native SVG support (Firefox, Opera) or at least an installable plug-in (Internet Explorer).
4. RTF and XLS require Microsoft Office or Open Office to be installed on the client system. Open Office can be downloaded for free.
5. Postscript can not be shown in most browsers, as it is exclusively a printer language. Common viewers for Postscript are GhostView and PDF-Distiller.
6. You will only see an XML structure in the browser.

3 Supported Report Elements

The following table lists all supported design elements in the various output formats.

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|------------------|------|-----|-----|----------------|-----|----------------|----|-----|-----|-----|-----|------|-----|
| Field | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Text | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Line | ✓ | ✓ | ✓ | ✓ ₁ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Box | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Picture | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Database Picture | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Chart | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Cross Tabs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – |
| Sub Reports | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – |
| Java Bean | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Hyperlinks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ₂ | – | – | – | – | – | – | – |

1. Only horizontal lines.
2. Only for Text and Field

4 Element Properties

4.1 General Properties

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-----------------------------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Suppress | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Suppress If Duplicated | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Keep Together | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Close Borders on Page Break | ✓ | ✓ | ✓ | – | ✓ | – | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Can Grow | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Can Grow max. Lines | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Tool Tip | ✓ | – | – | – | – | – | – | – | – | – | – | – | – |

4.2 Border and Box Properties

The follow table show which border formatting is supported from which output format.

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|------------------------------|------|-----|-----|------|----------------|-----|----|-----|-----|-----|-----|------|-----|
| Single | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Double | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Dashed | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Dotted | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Shadow | ✓ | ✓ | ✓ | – | ✓ ₁ | – | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Color | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Backcolor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Rounding | ✓ | ✓ | ✓ | – | ✓ | – | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Extends to Bottom of Section | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Close Border on Page Break | ✓ | ✓ | ✓ | – | ✓ | – | ✓ | ✓ | ✓ | – | – | – | ✓ |

1. Only with border.

4.3 Font Properties

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-----------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Font | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Size | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Color | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Bold | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Italic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Underline | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Strikeout | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |

4.4 Number Format

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|------------------------------|------|-----|-----|------|-----|----------------|----|-----|-----|-----|-----|------|-----|
| System Default | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Suppress If Zero | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Decimals | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Rounding | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Rounding Mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Decimals Separator | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Thousand Separator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ¹ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Negative Formats | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Reverse Sign | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Disable Clipping | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Use Leading Zero | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Zero Format | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Currency Type | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Currency Position | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| Currency Symbol | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ |
| One Currency Symbol per Page | – | – | – | – | – | – | – | – | – | – | – | – | – |

1. Only default separator or no separators are possible.

4.5 Picture

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-----------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Crop | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Scale | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Alignment | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | – | – | – | – |
| Size | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |

4.6 Sub-report

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|---------------------|------|-----|-----|------|-----|-----|----------------|----------------|----------------|-----|-----|------|-----|
| On Demand Subreport | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ₁ | ✓ ₁ | ✓ ₁ | – | – | – | – |
| On Demand Label | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| On Demand Tab Label | ✓ | – | – | – | – | – | – | – | – | – | – | – | – |

1. Can only be exported if displayed in the Viewer

4.7 Hyperlink

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-------------|------|----------------|----------------|----------------|----------------|----------------|----|-----|-----|-----|-----|------|-----|
| Export Link | ✓ | ✓ ₁ | ✓ ₁ | ✓ ₂ | ✓ ₃ | ✓ ₃ | – | – | – | – | – | – | – |

1. Charts not supported
2. Chart and Beans not supported
3. Only Text field

4.8 Text

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-------------------------------------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Glyph Orientation | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Alignment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Text Rotation | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Text Interpretation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |

4.9 Paragraph

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-------------------|------|-----|-----|------|-----|-----|----|-----|-----|----------------|-----|------|-----|
| First indent line | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-----------------------|------|-----|-----|------|-----|-----|----|-----|-----|----------------|-----|------|-----|
| Left indent | ✓ | ✓ | ✓ | ✓ | – | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |
| Right indent | ✓ | ✓ | ✓ | ✓ | – | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |
| Relative line spacing | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | – |
| Absolute line spacing | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | – |

1. The indent must be larger as a character width.

4.10 Date

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-------------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Type | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Format | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Order | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Separators | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Day of Week | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

4.11 Time

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|------------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Type | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Format | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Base | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Position | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Separators | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

4.12 Date Time

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|-----------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Order | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Separator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

4.13 Boolean

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|---------------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|------|-----|
| Output format | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

5 Layout

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|----------------|------|-----|-----|------|-----|----------------|----|-----|-----|-----|-----|------|-----|
| Section Color | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| Text Clipping | ✓ | – | ✓ | – | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | – |
| Drill Down | ✓ | ✓ | – | – | – | – | – | – | – | – | – | – | – |
| Mailing Label | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ₁ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Multi Column | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ₂ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Overlapping | ✓ | ✓ | ✓ | – | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Font embedding | ✓ | ✓ | – | – | – | – | – | – | ✓ | – | – | – | – |

1. All labels will be written in one column if layout property 'Across then Down' is not set.
2. All data are written in one column.

6 Text Interpretation

The following table lists the Rich Text Formatting features for the different output formats.

| Feature | Java | PDF | SVG | HTML | RTF | XLS | PS | PS2 | PS3 | TXT | CSV | Data | XML |
|---|------|-----|-----|----------------|-----|----------------|----|-----|-----|----------------|-----|------|-----|
| bold | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| italic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| underline | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| strikethrough | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| headings (larger font) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| numbered bullet lists | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | – |
| numbered bullet lists (Roman numerals) | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | – |
| bullet lists type “circle” | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |
| bullet lists type “square” | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |
| bullet lists type “disc” | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ ₁ | – | – | – |
| cascading bullet lists | ✓ | ✓ | ✓ | ✓ | ✓ | – | ✓ | ✓ | ✓ | ✓ | – | – | – |
| alignment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| font name | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| font size | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| font color | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | – | ✓ |
| line breaks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| paragraphs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | – | – | ✓ |
| Advanced HTML | ✓ | ✓ | ✓ | ✓ ₂ | ✓ | ✓ ₃ | ✓ | ✓ | ✓ | – | – | – | ✓ |

1. It uses *, # and o for the bullets.
2. As content of <DIV>- element.
3. Advanced HTML elements as images.