

Generate QR Code

Description

The app generates QR codes as SVG files (RGB) using the qrcode npm package. The output is a vector SVG with explicit width and height in the requested physical unit, so InDesign, Illustrator and print RIPs place the code at its exact specified size without further scaling.

The app supports eight content types — URL, plain text, Wi-Fi credentials, vCard contact, SEPA payment (EPC QR Code), calendar event, phone number and email — each with type-specific parameters that are formatted and validated according to the relevant standards. Selecting a QR Type in the property editor enables the matching set of additional properties for that type.

The app creates a child job containing the generated SVG and sends the original job to null. In the event of a validation error (invalid IBAN checksum, malformed datetime, missing required field, etc.) the incoming job is routed to the outgoing error connection with an explanatory log message, and no SVG is produced.

Compatibility

Switch 2023 Fall and later.

Connections

The app has one incoming connection. Configure two outgoing connections so that success and error traffic are routed separately: set one as the outgoing success connection and the other as the outgoing error connection (traffic-light levels „Success" and „Error").

- On success, the app replaces the incoming job with the generated SVG file and sends it along the outgoing success connection.
- If the configuration or the job's content is invalid, the incoming job is sent unchanged along the outgoing error connection, and no SVG is produced.
- These expected errors (invalid configuration or job content) are always routed to the outgoing error connection. Only if an unexpected internal error occurs does the job fail and get moved to the problem jobs folder.

Properties detailed info

Configure the QR code generation by selecting the QR Type, entering the type-specific content fields, and adjusting the common output properties (filename, physical size and unit, quiet zone, rotation, error correction level and background color). Required-field enforcement and default values are configured on the property in the Switch property editor; numeric range, length, format, and cross-field constraints are enforced in code and fail the job with a descriptive error message.

The Flow elements properties are organised into a common section that is always relevant, followed by one section per QR Type. Use the Switch property editor's Show on condition feature to make each type-specific group visible only when its corresponding QR Type is selected.

Flow elements properties

Common parameters

- **QR-Code type:** Selects the content type for the QR code. Available options: URL, Plain text, Wi-Fi, vCard, SEPA payment, Calendar event, Phone, Email. Each option enables a specific set of additional properties below.
- **Output name:** Defines the output filename without extension. Leave at the default variable [Job.NameProper] to inherit the incoming job's name, or enter a custom string.
- **Size:** The output edge length of the QR code in the chosen unit. Must be a positive number. This field is required and has no preset default value.
- **Unit:** The physical unit for the output size. Available options are mm, cm and in. Default is mm.
- **Quiet zone:** Enables or disables the quiet zone margin around the QR code. Default is Yes.
- **Quiet zone size:** Width of the quiet zone in QR modules. Available options are 1, 2 and 4. Only relevant when the quiet zone is enabled. Default is 4.
- **Rotation:** Rotates the QR code in 90-degree increments. Available options are 0, 90, 180 and 270 degrees.
- **Error correction level:** Selects the QR error correction level. Available options are L (7%), M (15%), Q (25%) and H (30%). Higher levels recover more damage but reduce data capacity. Default is M. Note: for SEPA payment QR codes the level is fixed to M as required by the EPC specification, regardless of this setting.
- **Background color:** Selects either a transparent background or a solid white background rectangle. Default is transparent.

URL (when QR Type = URL)

- **URL:** The URL to encode. If the value does not start with a URI scheme like "https://" or "http://", "https://" is prepended automatically so the resulting QR code opens in a browser when scanned.

Plain text (when QR Type = Plain text)

- **Plain text:** The text to encode. Any characters are accepted, including multi-line content.

Wi-Fi (when QR Type = Wi-Fi)

Generates a Wi-Fi network credential QR code following the Android WIFI: schema, which is widely supported by iOS, Android and most major Wi-Fi onboarding flows.

- **Wi-Fi SSID:** The network name of the Wi-Fi network.
- **Wi-Fi password:** The Wi-Fi password. Required when Wi-Fi Encryption is WPA or WEP; ignored when set to nopass.
- **Wi-Fi encryption:** The encryption type of the Wi-Fi network. Available options are WPA (also used for WPA2/WPA3), WEP and nopass (open network). Default is WPA.
- **Wi-Fi hidden:** Indicates whether the SSID is broadcast as hidden. Default is No.

vCard (when QR Type = vCard)

Generates an RFC 2426 vCard 3.0 contact card. At least one of vCard First Name, vCard Last Name or vCard Organization must be provided; all other fields are optional.

- **vCard firstname:** Given name of the contact.
- **vCard lastname:** Family name of the contact.
- **vCard organization:** Organization or company name.
- **vCard title:** Job title or role within the organization.
- **vCard phone:** Telephone number. Encoded as TEL;TYPE=CELL in the vCard.
- **vCard email:** Email address. Encoded as EMAIL;TYPE=INTERNET in the vCard.
- **vCard website:** Website URL.
- **vCard address:** Postal address. Stored as the street-level component of a standard vCard ADR entry.
- **vCard notes:** Free-form multi-line notes attached to the contact.

SEPA payment (when QR Type = SEPA payment)

Generates an EPC QR Code (European Payments Council, EPC069-12, version 002), accepted by most German and European banking apps as a GiroCode. The IBAN format and ISO 13616 mod-97 checksum are validated; invalid IBANs fail the job.

- **SEPA beneficiary:** Name of the payment recipient. Maximum 70 characters.
- **SEPA IBAN:** International Bank Account Number of the recipient. Maximum 34 characters. Format and ISO 13616 checksum are validated.
- **SEPA BIC:** Bank Identifier Code of the recipient's bank. Optional. Maximum 11 characters. When provided, the format is validated against the SWIFT/BIC pattern.
- **SEPA amount:** Payment amount in Euro. Optional. Range from 0,01 to 999999999,99. Comma may be used as the decimal separator (e.g. "12,34").
- **SEPA purpose:** ISO 20022 AT-44 purpose code, four uppercase letters. Optional. Maximum 4 characters.
- **SEPA remittance:** Free-form remittance information (Verwendungszweck). Maximum 140 characters.

Calendar event (when QR Type = Calendar event)

Generates an RFC 5545 iCalendar VEVENT enclosed in a VCALENDAR wrapper, complete with a generated UID and DTSTAMP. Scanning the resulting QR code with a calendar-aware app prompts the user to add the event to their calendar.

- **Event summary:** Title of the calendar event.
- **Event start:** Start date or datetime of the event. For all-day events, accepts YYYY-MM-DD, YYYY.MM.DD or YYYYMMDD. For timed events, accepts ISO 8601 datetime forms with T, space or underscore as the date/time separator, and -, : or . as the time-component separator (e.g. "2026-06-01T18:00:00Z" or "20260601T180000Z"). Append a trailing "Z" to mark the datetime as UTC.
- **Event end:** End date or datetime of the event, accepts the same formats as Event Start. For all-day events, enter the LAST day of the event — the app converts it to the exclusive RFC 5545 form automatically (DTEND = next day).
- **Event location:** Location string for the event. Optional.
- **Event description:** Free-form description of the event. Multi-line supported. Optional.
- **Event all-day:** Indicates whether the event is all-day. When "Yes", only the date portion of Event Start and Event End is used and the event is emitted with VALUE=DATE per RFC 5545. Default is No.

Phone (when QR Type = Phone)

- **Phone number:** Telephone number to encode as a "tel:" URI. Accepts digits, spaces, hyphens, parentheses and an optional leading "+". Formatting is normalised to bare E.164-style digits before encoding. Must contain 3 to 15 digits in total.

Email (when QR Type = Email)

Generates a "mailto:" URI per RFC 6068. A scanner that supports the URI opens the user's email composer with the recipient, subject and body fields prefilled.

- **Email address:** Recipient email address.
- **Email subject:** Email subject line. Optional.
- **Email CC:** Comma-separated list of CC recipients. Optional.
- **Email BCC:** Comma-separated list of BCC recipients. Optional.
- **Email body:** Multi-line email body text. Optional.

Outgoing connections properties

- No properties for outgoing connections.