

# PaperCut Tracking Custom Node

## Introduction

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Custom Nodes are a new feature of Square 9's GlobalCapture and GlobalAction and are available from version 2.3.x. Custom Nodes are a replacement for Call Assembly nodes and extend the functionality of GlobalCapture and GlobalAction but in way that is more familiar to workflow designers than the Call Assembly nodes.

PaperCut is not just for tracking your print jobs, it can track and assign costs for scan, copy and fax jobs. Now, with the PaperCut Tracking Node, PaperCut can track your GlobalCapture processes, providing you with detailed auditing, reporting, and cost recovery for the processes flowing through your GlobalCapture instances.

## Pre-Requisites

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The following items are required:

- GlobalCapture (version 2.3.0.0 or newer).
- PaperCut NG or MF.
- PaperCut Tracking Custom Node - [5ded230c-0781-4369-bc88-0d78e6e63ffa.s9n](#).
- A license file.

## Installation

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To install the Node:

1. Log into GlobalCapture with an account that can administer GlobalCapture.
2. Navigate to [Mange >> Nodes](#).
3. Click the Menu button in the bottom right corner of the interface and choose Upload S9N File (the middle option).
4. Browse for the node package - [5ded230c-0781-4369-bc88-0d78e6e63ffa.s9n](#) and click open to install.

## PaperCut Server Configuration

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The node tracks jobs in PaperCut via the XML Web Services API. This API is secured by two layers of security:

1. IP address level security.
2. Authentication tokens.

A detailed description of these security layers and how to configure them is covered on the following KB article - <https://www.papercut.com/support/resources/manuals/ng-mf/common/topics/tools-web-services.html#tools-web-services-security>.

## Default Node Configuration

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To configure the default properties for the Node, click on the three-dot menu and select edit and the node's properties will be displayed.

There are two types of default configuration available:

1. If you click on Modal Preview and enter any values, these properties will then be pre-populated when the node is added to a workflow.
2. If you click on Config you are presented with a JSON view of the node's configuration. This contains the properties that can be on the node's config panel as well as properties you only need to set once per install, for example, the path to the license file.

Any properties configured here will override the properties set on the node's config panel, configuring all nodes on all workflows to use this value. To remove an override, edit the property's value and set it to `null`.

If you need assistance on how to edit a JSON file please contact support.

Once you have completed configuring any properties, click on save.

## Licensing

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The node requires a license to function. If it is added to a workflow without a license being present, then no processes will be created. Please contact sales to enquire about pricing and obtaining a license.

Once you have obtained a license file, save it somewhere safe, it also needs to be saved in a location that the login user for the GlobalCapture service(s) has access to. Next you need to configure the node's default config, as described in Option 2 of Default Node Configuration, to point to this file by editing the value for the `licenseFilePath` property.

**Note:** As you can see in the sample value provided, any back slashes need to be escaped for the JSON to be valid, for example: `"C:\\Node License File\\app.license"`

Once you have completed configuring the license file path, click on save.

## PaperCut Server Connection

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The node has several properties that will only be set once per install. These properties are configured as described in Option 2 of Default Node Configuration.

- **Address (`paperCutServerAddress`)**  
The IP address or host name of the PaperCut server.
- **Port (`paperCutServerPort`)**  
The port of the PaperCut server. By default, these ports are:  
9191 (for a plain text connection).  
9192 (for a secure connection).
- **Secure Connection (`paperCutServerUseSecureConnection`)**  
Determines if the node will connect to the PaperCut server over a plain text connection or a secure connection, using TLS (recommended). Remember to configure the appropriate port.

- **Certificate Thumbprint (`paperCutServerCertificateThumbprint`)**

The Certificate Thumbprint is only required for secure connections where the PaperCut server's certificate does not fully validate, for example, a self-signed certificate. The thumbprint can be obtained by opening a page from the server in a browser then viewing the certificate's details. Once configured the node will ignore the certificate's invalidity and accept it if the thumbprints match.
- **Authentication Token (`paperCutServerAuthenticationToken`)**

The PaperCut server's Authentication Token which is described in - PaperCut Server Configuration.

## Workflow Configuration

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The node is used like any of the built-in nodes in the workflow designer, drag it from the node toolbox onto the designer's canvas, configure the properties and link it up as is appropriate for your workflow.

### Configure the Node

- **Print Server**

The name of the server the job was submitted to.
- **Printer**

The name of the printer or print queue the job was submitted to.
- **Username**

The username of the user associated with the job. This user needs to exist within PaperCut. You could use a combination of S9 notation and a GlobalCapture system field to populate this with a validation user.
- **Comment**

A comment to be associated with the job.
- **Charge to personal account**

If checked the job will be charged to the user specified in Username. Uncheck and enter a Shared Account Name to charge to a shared account.
- **Shared Account Name**

The name of the shared account to charge this job to. Sub-accounts can be selected using a backslash, i.e., "parent\child".

**Note:** If the combination of Print Server and Printer does not exist it will be created.

**Note:** You can specify "device\Device Name" to track on against a device. However, if that device does not exist it will be created as a printer. You cannot currently create devices in this fashion.

## Contacts

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Sales and licensing enquiries to: [sales@selectec.com](mailto:sales@selectec.com)

Support enquiries to: [support@selectec.com](mailto:support@selectec.com)

## Acknowledgements

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Selectec Custom Nodes are made possible by open-source software. The following open-source software is distributed and is provided under other licences.

- Custom Workflow Nodes  
<https://github.com/Square9Softworks/custom-workflow-nodes>
- Nett  
<https://github.com/paiden/Nett>
- BouncyCastle  
<http://www.bouncycastle.org/csharp/>
- Meziantou.Framework.Win32.CredentialManager  
<https://github.com/meziantou/Meziantou.Framework>
- Newtonsoft.Json  
<https://www.newtonsoft.com/json>
- Kveer.XmlRPC  
<https://github.com/LordVeovis/xmlrpc>

Thank you to the developers of these softwares.