Connect Switch

What is Enfocus Switch

Enfocus Switch is an automation software solution designed to streamline and optimize repetitive tasks within print and media production workflows. It provides a platform that allows users to automate various processes, such as file management, preflighting, and output generation, by creating customizable workflows. These workflows can integrate with a wide range of third-party applications, enabling seamless coordination between different tools and systems used in the production environment. The software uses a visual flow editor where users can drag and drop different actions and decision points to construct a workflow tailored to their specific needs. By automating these processes, Enfocus Switch helps reduce manual intervention, minimize errors, and increase overall efficiency.

Overview Infigo Connect Switch App

Infigo Connect is a versatile app available on the Enfocus Switch App store designed to integrate Enfocus Switch with Infigo storefronts. This app enables seamless connectivity and automates the workflow by importing job details, asset files, and metadata into the Enfocus Switch environment. Additionally, it supports status updates to keep your systems synchronized.

Key Features

- **Seamless Integration:** Connects Enfocus Switch with Infigo storefronts efficiently.
- **Job Importing:** Imports jobs, including asset files and metadata, into your workflow.
- **Status Updates:** Performs status updates to ensure workflow consistency.

Requirements

To utilize Infigo Connect, the Infigo storefront must have the **Connect Switch module enabled**. Ensure this module is active to facilitate proper communication between Enfocus Switch and your storefront.

Installation

1. **Download and Install:** Download Infigo Connect from the Enfocus Switch App store

2. **Configuration:** Drag the Infigo Connect flow element into your flow and configure the properties.

Configuration

- o Open Connect Switch plugin on your Infigo Storefront
- o Enter the API credentials you see in your flow element
- o ....

Operation Modes

Infigo Connect offers three modes of operation to import jobs and manage status updates effectively:

1. Import Jobs via Polling

In this mode, the app periodically checks the Infigo storefront for new jobs.

2. Import Jobs via Webhooks

In webhook mode, the Infigo storefront pushes new job notifications to Enfocus Switch.

3. Status Updates

In this mode, Infigo Connect performs status updates to Infigo from within Enfocus Switch

Operational Modes

1. Import Jobs via Polling

Description: In this mode, Infigo Connect periodically checks the Infigo storefront for new jobs. This mode is suitable for environments where real-time updates are not critical, allowing for periodic checks.

Configuration Steps:

1. **Polling Interval:**
   - Configure the interval at which Infigo Connect will poll the Infigo storefront for new jobs. The value is in minutes.
2. **Flow Element Configuration:**
   - Each flow element within Enfocus Switch should be linked to a specific print location in Infigo.
   - Multiple flow elements can be configured for different print locations.
   - Each print location can have any number of hotfolders
   - It will utilize the extensive hot folder mapping system we have within Infigo to assign job output to the various hotfolders
3. **File Handling:**
   - **Job Output Files:**
     - PDF files.
     - Include metadata about the job, order, and customer in either XML or JSON format.
     - Mark as downloaded in Infigo.
     - Prepped for simple status updates via the Update Status mode.
     - Optionally pull down JobTicket, Invoice, and Packaging Slip to the log output.
   - **Other Files from Hotfolder:**
     - Any file placed in a hotfolder will be pulled into your Switch flow.
     - This includes imposed files, extracted content, data files, etc.
     - Files without a job association will be routed through the warning data connection.

2. Import Jobs via Webhooks

Description: In this mode, Infigo Connect listens on a configurable path for incoming requests from Infigo, allowing real-time job import as soon as they are available.

Configuration Steps:

1. **Webhook Path Configuration:**
   o Set up the webhook URL in your Infigo storefront to point to the configured path in Enfocus Switch.
2. **File Handling:**
   o **Order Handling:**
     ▪ Each request handles an entire order.
     ▪ For each order line item, a job will be created.
     ▪ Each job will include metadata about the job, order, and customer in XML or JSON format.
     ▪ Jobs will be marked as downloaded in Infigo.
     ▪ Prepped for simple status updates via the Update Status mode.
     ▪ Optionally pull down JobTickets, Invoices, and Packaging Slips on the log output.
   o **Output Part Support:**
     ▪ Supports rasterized files (JPG and PNG).
     ▪ Supports split output (e.g., cover and inside pages).
3. **Security and Redundancy:**
   o The call is secured with a shared secret between Infigo and Switch.
   o Call duplication can be enabled to avoid duplicated entries.

3. Update Status Mode

Description: This mode allows for updating the status of jobs within the Infigo storefront based on the progress in Enfocus Switch.

Configuration Steps:

1. **Status Range Selection:**
   o Select the range of job statuses to be updated.
2. **Job Identification:**
   o Automatically identify the job to update from prepped Infigo output files.
   o Alternatively, the job ID and order ID can be injected via Switch features (hardcoded, variables, script expressions).
3. **Additional Options:**
   o For the Shipped status, an optional tracking code can be injected.

Metadata

Basic Metadata

1. **Type:**
   o Specifies the job type character:

- - `d` for MegaEdit.
    - `s` for Static PDF files.
    - `m` for Upload and MultiPart editor files.
2. **Job ID:**
    - The identifier for the job as a number only.
3. **Order ID:**
    - The identifier for the order.
4. **Full Job ID:**
    - The identifier including type as a storefront-wide unique identification.
5. **Mode:**
    - Specifies how the job got into the system (Polling or Webhooks).

InfigoAdvancedMetaData

Definition: This interface represents the advanced metadata structure provided by Infigo Connect.

```
export interface InfigoAdvancedMetaData {
    order?: InfigoOrderMetaData,
    lineItem?: InfigoOrderlineMetaData,
    customer?: InfigoCustomerMetaData,
    impersonator?: InfigoCustomerMetaData,
    storefrontName: string
}
```

- `order`: Metadata about the order (optional).
- `lineItem`: Metadata about the order line item (optional).
- `customer`: Metadata about the customer (optional).
- `impersonator`: Metadata about the impersonator (optional).
- `storefrontName`: Name of the storefront (required).

InfigoOrderMetaData

Definition: This interface represents detailed metadata about an order.

```
export interface InfigoOrderMetaData {
    orderId: number,
    orderGuid: string,
    payment: InfigoPaymentMetaData,
    orderStatus: OrderStatus,
    paymentStatus: PaymentStatus,
    shippingStatus: ShippingStatus,
    shippingMethod: string,
```

```
        shippingMethodExternalId: string,
        paymentMethod: string,
        paymentTransactionId: string,
        vatNumber: string,
        orderWeight: number,
        purchaseOrderNumber: string,
        orderNotes: string[],
        orderDate: string,
        dispatchBy: string,
        deliverBy: string,
        billingAddress?: InfigoAddressMetaData,
        shippingAddress?: InfigoAddressMetaData,
        extraData: Record<string, string>,
        checkoutAttributes: InfigoAttribute[]
}
```

- `orderId`: The unique identifier for the order.
- `orderGuid`: The globally unique identifier for the order.
- `payment`: Metadata about the payment (see `InfigoPaymentMetaData`).
- `orderStatus`: The current status of the order.
- `paymentStatus`: The status of the payment.
- `shippingStatus`: The status of the shipping.
- `shippingMethod`: The shipping method used.
- `shippingMethodExternalId`: The external ID for the shipping method.
- `paymentMethod`: The payment method used.
- `paymentTransactionId`: The transaction ID for the payment.
- `vatNumber`: The VAT number associated with the order.
- `orderWeight`: The weight of the order.
- `purchaseOrderNumber`: The purchase order number.
- `orderNotes`: Notes associated with the order.
- `orderDate`: The date the order was placed.
- `dispatchBy`: The date by which the order should be dispatched.
- `deliverBy`: The date by which the order should be delivered.
- `billingAddress`: Metadata about the billing address (optional).
- `shippingAddress`: Metadata about the shipping address (optional).
- `extraData`: Additional data related to the order.
- `checkoutAttributes`: Attributes related to the checkout process.

InfigoAddressMetaData

Definition: This interface represents detailed metadata about an address.

```
export interface InfigoAddressMetaData {
    externalId: string,
    email: string,
    firstName: string,
```

```
    lastName: string,
    phoneNumber: string,
    company: string,
    addressLine1: string,
    addressLine2: string,
    town: string,
    county: string,
    country: string,
    countryCode: string,
    zipCode: string,
    fax: string
}
```

- `externalId`: The external ID for the address.
- `email`: The email address.
- `firstName`: The first name.
- `lastName`: The last name.
- `phoneNumber`: The phone number.
- `company`: The company name.
- `addressLine1`: The first line of the address.
- `addressLine2`: The second line of the address (optional).
- `town`: The town or city.
- `county`: The county or region.
- `country`: The country.
- `countryCode`: The country code.
- `zipCode`: The postal code.
- `fax`: The fax number (optional).

InfigoCustomerMetaData

Definition: This interface represents detailed metadata about a customer.

```
export interface InfigoCustomerMetaData {
    infigoId: number,
    externalId: string,
    details: InfigoAddressMetaData
}
```

- `infigoId`: The unique identifier for the customer within Infigo.
- `externalId`: The external ID for the customer.
- `details`: Metadata about the customer's address (see `InfigoAddressMetaData`).

InfigoPaymentMetaData

Definition: This interface represents detailed metadata about a payment.

```
export interface InfigoPaymentMetaData {
    totalPrice: number,
    taxes: number,
    discount: number,
    subTotalDiscountInclTax: number,
    subTotalDiscountExclTax: number,
    shippingTax: number,
    shippingPrice: number,
    currency: string,
}
```

- `totalPrice`: The total price of the order.
- `taxes`: The total taxes applied to the order.
- `discount`: The total discount applied to the order.
- `subTotalDiscountInclTax`: The subtotal discount including tax.
- `subTotalDiscountExclTax`: The subtotal discount excluding tax.
- `shippingTax`: The tax applied to shipping.
- `shippingPrice`: The price of shipping.
- `currency`: The currency used for the payment.

InfigoAttribute

Definition: This interface represents an attribute with a key-value pair.

```
export interface InfigoAttribute {
    externalId: string,
    key: string,
    value: string
}
```

- `externalId`: The external ID for the attribute.
- `key`: The key of the attribute.
- `value`: The value of the attribute.

InfigoOrderlineMetaData

Definition: This interface represents detailed metadata about an order line item.

```
export interface InfigoOrderlineMetaData {
    orderlineId: string,
    externalId: string,
    attributeCombinationExternalId: string,
    infigoProductId: number,
    sku: string,
    productName: string,
    customName: string,
    shortDescription: string,
```

```
        description: string,
        quantity: number,
        unitPrice: number,
        totalPrice: number,
        totalTax: number,
        weight: number,
        discountAmountInclTax: number,
        discountAmountExclTax: number,
        extraData: Record<string, string>,
        productAttributes: InfigoAttribute[],
        specificationAttributes: InfigoAttribute[]
    }
```

- `orderlineId`: The unique identifier for the order line item.
- `externalId`: The external ID for the order line item.
- `attributeCombinationExternalId`: The external ID for the attribute combination.
- `infigoProductId`: The Infigo product ID.
- `sku`: The stock keeping unit.
- `productName`: The name of the product.
- `customName`: The custom name for the product.
- `shortDescription`: A short description of the product.
- `description`: A detailed description of the product.
- `quantity`: The quantity of the product ordered.
- `unitPrice`: The unit price of the product.
- `totalPrice`: The total price for the order line item.
- `totalTax`: The total tax applied to the order line item.
- `weight`: The weight of the order line item.
- `discountAmountInclTax`: The discount amount including tax.
- `discountAmountExclTax`: The discount amount excluding tax.
- `extraData`: Additional data related to the order line item.
- `productAttributes`: A list of product attributes (see `InfigoAttribute`).
- `specificationAttributes`: A list of specification attributes (see `InfigoAttribute`).