

4over API Reference

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Delta Syncing

Delta Sync APIs refer to application programming interfaces (APIs) that facilitate the synchronization of data by transmitting only the changes (or deltas) between the current and previous versions of the data.

Delta Sync APIs work by identifying the differences or changes between the current state of data and the previous state. Instead of sending the entire dataset, these APIs transmit only the modifications, additions, or deletions (the deltas) that have occurred since the last synchronization.

If the `lastupdate` query parameter is set to 2024-01-19, then it will retrieve records that have been updated since that date. Delta Syncing is implemented for the below APIs.

a) Get all Categories APIs.

Resource URI: GET /printproducts/categories?lastupdate=2014-01-19&time=15:10:00

In Response it will return all categories that has been updated since `lastupdate` date.

b) Fetch products of specific Category APIs.

Resource URI: GET /printproducts/categories/{category_uuid}/products?lastupdate=2014-01-19&time=15:10:00

In Response it will return all products that has been updated since `lastupdate` date.

c) Product APIs.

Resource URI: GET /printproducts/products?lastupdate=2014-01-19&time=15:10:00

In Response it will return all products that has been updated since `lastupdate` date.

d) Product Feed APIs.

Resource URI: GET /printproducts/productsfeed?lastupdate=2014-01-19&time=15:10:00
In Response it will return all products that has been updated since **lastupdate** date.

Retrieve Login Providers

This route will return the Login Providers that can be used with the 4over API.

Sample Request

```
GET /loginproviders
html
https://api.4over.com/loginproviders
```

Sample Response

JSON

```
{
  "entities": [
    {
      "login_provider_uuid": "31018a02-aa50-4889-adf7-30e23328b7a8",
      "login_provider": "email"
    },
    {
      "login_provider_uuid": "2bc9eb15-48a0-4116-8e9b-472ad5bebffd",
      "login_provider": "public key"
    },
    {
      "login_provider_uuid": "2bc9eb15-48a0-4116-8e9b-472ad5bebffd",
      "login_provider": "LDAP"
    }
  ],
  ...
}
```

Create Shipping Quote

Shipping-quote service provides details of shipping and shipping options such as shipping cost with different shipping methods from the nearest facility to the ship-to address. The response will include box count and box weight for the specified product combination.

Shipping-quote requires details of the product as well as details of the Ship-To address.

NOTE:

Shipping-quote service takes an optional "sets" parameter to identify number of sets of jobs be group-shipped.

Shipping quote does not validate product and options for group-shipping qualification. The service may return shipping cost for invalid product combinations. This is to save processing time on the shipping-quote and does not mean that the product can be group-shipped. Product's baseprice route contains "can_group_ship" flag that identifies qualified product, runsize and colorspec combinations. The Order route validates group-shipping qualifications and will fail if invalid products are group-shipped.

Resource URI

POST /shippingquote

Input Parameters

```
@param product_uuid {uuid} UUID of a Product.
@param runsize_uuid {string} UUID of specified Runsize.
@param turnaround_uuid {string} UUID of turnaround time.
@param colorspec_uuid {string} UUID of colorspec time.
@param option_uids {uuid} Array of Option UUIDs for all finishing/bindery options.
@param address {string} Address of ShipFrom address.
@param address2 {string} Address2 of ShipTo address.
@param city {string} City of ShipTo address.
@param state {string} State of ShipTo address. ("XX" for countries other than US, CA and MX)
@param country {string} Country of the ShipTo address. <a href="https://www.iso.org/obp/ui/#iso:pub:PUB50001:en">2-character ISO country code</a>
@param zipcode {string} Zipcode of ShipTo address.
@param sets {integer} Optional parameter to identify number of sets for group-shipping.
@param bypass_address_validation {boolean} Optional parameter to by pass the address validation check.
```

Sample Request URI

html

https://api.4over.com/shippingquote

Sample Request Body

JSON

Once a quote request is posted, validity of the product combination is checked first. If the product combination is not a valid combination, the API returns an error message. For valid product/options combination, the address is validated. If there is an ambiguity in the address, the response will return candidate addresses.

Once a valid address is selected, the facility and turnaround time is considered. If the facility closest to the Ship-To address can produce the product in the specified turnaround time, the response returns facility data and possible shipping options from that facility.

However, if the closest facility cannot produce the product in specified turnaround time, the response will return next closest facility with shipping methods and costs that can produce the product combination. In addition, it returns the closest facility with available turnaround times for that facility to produce selected product combination.

```
{
  "product_info": {
    "product_uuid": "e24dbd7f-16e9-4ca7-b7c1-b7c1d5110615",
    "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
    "turnaround_uuid": "9f85d0c4-d344-4088-a719-86ff8f84d504d",
    "colorspec_uuid": "13abbd47-1d64-4f25-8bb2-c179b224825d",
    "option_uids": [
      "fe6a4ed8-5803-433c-b773-a25a7b955e98"
    ],
    "sets": 19
  },
  "shipping_address": {
    "address": "5900 San Fernando Rd.",
    "address2": "",
    "city": "Glendale",
    "state": "CA",
    "country": "US",
    "zipcode": "91202"
  },
  "bypass_address_validation": false
}
```

Sample Response

JSON

```
{
  "job": {
    "product_info": {
      "box_weight": 14,
      "product_code": "100GLB-DHAQ-14X4.25",
      "box_count": 1,
      "product_uuid": "e24dbd7f-16e9-4ca7-b6c1-b7c1d5110615",
      "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
      "option_uuids": [
        "fe6a4ed8-5803-433c-b773-a25a7b955e98",
        "e24dbd7f-16e9-4ca7-b6c1-b7c1d5110615",
        "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
        "9f85ddc4-d344-4088-a719-86f8f84d504d",
        "13abbd47-1d64-4f25-8bb2-c179b224825d"
      ]
    },
    "ship_to": {
      "address": "5900 SAN FERNANDO RD.",
      "address2": "",
      "city": "GLENDALE",
      "state": "CA",
      "country": "US",
      "zipcode": "91202",
      "is_residential": false
    },
    "facilities": [
      {
        "address": {
          "code": "GLN",
          "address": "4621 Sperry Street",
          "city": "Los Angeles",
          "state": "CA",
          "country": "US",
          "zip": "90039"
        },
        "shipping_options": [
          {
            "service_code": "03",
            "service_name": "Ground Shipping",
            "service_price": "15.55",
            "in_hand_delivery": "08/28/2024",
            "shipping_time": 1
          },
          {
            "service_code": "12",
            "service_name": "3 Day Shipping Service",
            "service_price": "18.76",
            "in_hand_delivery": "08/30/2024",
            "shipping_time": 3
          },
          {
            "service_code": "59",
            "service_name": "2nd Day Air A.M.",
            "service_price": "20.72",
            "in_hand_delivery": "08/29/2024",
            "shipping_time": 2
          },
          {
            "service_code": "02",
            "service_name": "2 Day Air Shipping",
            "service_price": "20.80",
            "in_hand_delivery": "08/29/2024",
            "shipping_time": 2
          },
          {
            "service_code": "13",
            "service_name": "Next Day Shipping by 5pm",
            "service_price": "22.49",
            "in_hand_delivery": "08/28/2024",
            "shipping_time": 1
          },
          {
            "service_code": "01",
            "service_name": "Next Day Shipping by 12 noon",
            "service_price": "25.89",
            "in_hand_delivery": "08/28/2024",
            "shipping_time": 1
          },
          {
            "service_code": "14",
            "service_name": "Next Day Air Early A.M.",
            "service_price": "156.15",
            "in_hand_delivery": "08/28/2024",
            "shipping_time": 1
          }
        ],
        "production_estimate": "08/27/2024",
        "total_tax": "26.04",
        "cutoff_options": {
          "cutoff_times": [
            "01:00 PM PDT",
            "04:00 PM EDT",
            "03:00 PM CDT",
            "01:00 PM MST"
          ],
          "cutoff_date": "08/22/2024"
        }
      }
    ]
  }
}
```

Create Address Validation

This service provides address validation service to allow users to validate addresses. This route will help to make sure the address provided with the order route is a valid address that shipping carriers recognize and should help to reduce the number of failed orders because of bad shipping addresses.

NOTE: In cases where the API returns ambiguous response with no suggested address, or returns the same exact address as the submitted one (sometimes repeated multiple times), users can use "bypass_address_validation" flag in Create Shipping Quote and Create Order payloads by setting the value to TRUE.

"bypass_address_validation": "TRUE"

This flag must be used only in these scenarios and not for all cases. Otherwise, misuse of this flag could result in delays in shipment or undeliverable shipments that return to 4over facility.

Resource URI

POST /addressvalidation

Input Parameters

```
@param address {string}
@param city {string}
@param state {string}
@param country {string}
@param zipcode {string}
```

Sample Request URI

html

<https://api.4cover.com/addressvalidation>

Sample Request – Valid Address

JSON

```
{  
  "shipping_address":  
  {  
    "address": "5900 San Fernando Rd",  
    "city": "Glendale ",  
    "state": "CA",  
    "country": "US",  
    "zipcode": "91202"  
  }  
}
```

Sample Response – Valid Address

JSON

```
{  
  "isValidAddress": true,  
  "ambiguousAddress": false,  
  "isResidential": false,  
  "exactMatch": true,  
  "AddressKeyFormat": {  
    "AddressLine": "5900 SAN FERNANDO RD",  
    "PoliticalDivision2": "GLENDALE",  
    "PoliticalDivision1": "CA",  
    "PostcodePrimaryLow": "91202",  
    "PostcodeExtendedLow": "2765",  
    "Region": "GLENDALE CA 91202-2765",  
    "CountryCode": "US"  
  }  
}
```

Sample Request – Ambiguous Address

JSON

```
{  
  "shipping_address":  
  {  
    "address": "500 San Fernando Rd",  
    "city": "Glendale ",  
    "state": "CA",  
    "country": "US",  
    "zipcode": "10487"  
  }  
}
```

Sample Response for Valid Address

JSON

```
{  
  "ambiguous_address": "true",  
  "Candidates": [  
    {  
      "address": [  
        "6100 SAN FERNANDO RD",  
        "STE 100"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6100 SAN FERNANDO RD",  
        "GLENDALE",  
        "CA",  
        "91201",  
        "US"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6100 SAN FERNANDO RD",  
        "STE 203"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6100 SAN FERNANDO RD",  
        "STE 207"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6100-6198 SAN FERNANDO RD",  
        "GLENDALE",  
        "CA",  
        "91201",  
        "US"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6101-6199 SAN FERNANDO RD",  
        "GLENDALE",  
        "CA",  
        "91201",  
        "US"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6155 SAN FERNANDO RD",  
        "GLENDALE",  
        "CA",  
        "91201",  
        "US"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    },  
    {  
      "address": [  
        "6155 SAN FERNANDO RD",  
        "STE 1"  
      ],  
      "city": "GLENDALE",  
      "state": "CA",  
      "zipcode": "91201",  
      "country": "US"  
    }  
  ]  
}
```

```
        "zipcode": "91201",
        "country": "US"
    }
}
```

Retrieve Product Quote

Price Quote service provides quick product pricing including options and turnaround-times.

Resource URI

```
GET /printproducts/productquote?product_uuid={product_uuid}&colorspec_uuid={colorspec_uuid}&runsize_uuid={runsize_uuid}&turnaroundtime_uuid={turnaroundtime_uuid}&options[]={option_uuid}
```

Input Parameters

```
@param product_uuid {uuid} Product UUID.
@param colorspec_uuid {uuid} Colorspec UUID.
@param runsize_uuid {uuid} Runsize UUID.
@param turnaroundtime_uuid {uuid} Turnaround-time UUID.
@param option_uuid {uuid} Array of Option UUIDs. This could contain one or more Option UUIDs.
```

Sample Request URI

html

```
https://api.4over.com/printproducts/productquote?product_uuid=217c1239-409b-4efb-8e2b-57f9b1d2071a&colorspec_uuid=13abbd7-1d64-4f25-8bb2-c179b224825d&runsize_uuid=6237a36b-b046-~
```

The response contains the details of the quote request and all prices including the base price, total of option prices, turnaround price and the sum of all as a total price.
Any combination that does not match a valid product combination will return a 404 error.

Sample Response

JSON

```
{
  product_uuid: "217c1239-409b-4efb-8e2b-57f9b1d2071a",
  product_code: "100GLC-FLUC-8.5X11",
  product_name: "100GLC-FLUC-8.5X11",
  product_description: "8.5" x 11" 100LB Gloss Cover With No AQ",
  runsize_uuid: "6237a36b-b046-4efb-8fed-6cb9c22a5ece",
  colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
  options: [
    [
      "9589f320-e91f-48ce-a0d7-3badd39f2c14"
    ]
  ],
  base_price: 95,
  options_price: 17.5,
  turnaroundtime_price: 114,
  total_price: 226.5
}
```

Create Requirements

Requirements route provides details of file types necessary for any product combination combination

This will help API users to implement file upload rules to the end users to when artwork is being added for each job. The response will specify file types needed for supplied product/option combination with file reason codes.

Resource URI

```
POST /requirements/products
```

Input Parameters

```
@param product_uuid {uuid} UUID of a Product.
@param option_uuids {uuid} Array of Option UUIDs for all options.
```

Sample Request URI

html

```
https://api.4over.com/requirements/products
```

Sample Request Body

JSON

```
{
  "products": [
    {
      "product_uuid": "61007e78-b7a7-41d3-8e97-10b046cc4629",
      "option_uuids": [
        "32d3c223-f82c-492b-b915-ba065a00862f",
        "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a"
      ]
    },
    {
      "product_uuid": "a035d8fd-b99e-4eb6-95ad-6fc3ac0c1746",
      "option_uuids": [
        "13abbd7-1d64-4f25-8bb2-c179b224825d",
        "cb84e4f5-cf63-4c25-b3c3-d22fc7dcf09d"
      ]
    }
  ]
}
```

Sample Response

JSON

```
{
  "entities": [
    {
      "product": {
        "product_uuid": "61007e78-b7a7-41d3-8e97-10b046cc4629",
        "name": "CNP-STUV-4X4",
        "description": "4\" X 4\" Stickers with UV"
      },
      "option_uuids": [
        "32d3c223-f82c-492b-b915-ba065a00862f",
        "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a"
      ],
      "file_requirements": [

```

```

        {
            "file_reason_code_uuid": "7b3007a1-c296-447b-96cf-ca9d0fb6621a",
            "fr": "Front"
        }
    ],
    {
        "product": {
            "product_uuid": "a035d8fd-b99e-4eb6-95ad-6fc3ac0c1746",
            "name": "16PT-PCSPUVFR-5.5X2.125",
            "description": "5.5\" X 2.125\" 16PT Postcards with Spot UV on front only, No UV Coating on the back"
        },
        "option_uuids": [
            "13abbd7-1d64-4f25-8bb2-c179b224825d",
            "cb84e4f5-cf63-4c25-b3c3-d22fc7dcf09d"
        ],
        "file_requirements": [
            {
                "file_reason_code_uuid": "00ff44a1-5558-4d3c-9bfa-b2443efce9de",
                "bk": "Back"
            },
            {
                "file_reason_code_uuid": "7b3007a1-c296-447b-96cf-ca9d0fb6621a",
                "fr": "Front"
            }
        ]
    }
}

```

Payment Processing

Payment Processing

To process payments add the Payment block to the order POST.

The requested amount is not required. The amount is calculated internally and matched against the amount passed by the user. If this parameter is excluded the calculated amount will be charged to the credit card on file by way of the provided payment token. Please note that "requested_amount" must be excluded from payment block for this to work correctly. If this parameter is present with 0 or null value the order will fail.

Orders Payment using Credit Card Processing

POST /orders

Input Parameters

These are in addition to order parameters above.

@param profile_token.

html

<https://api.4over.com/orders>

Sample Request Body

JSON

```
{
    "order_id": "test001",
    "is_test_order": "true",
    "coupon_code": "PRC5PKS",
    "skip_confirmation": "true",
    "jobs": [
        {
            "product_uuid": "91efff4d-de64-410a-8794-fc547022a7f2",
            "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
            "option_uuids": [],
            "turnaround_time_uuid": "50979118-b3a2-4556-9f46-d1da268f2354",
            "colorspec_uuid": "13abbd7-1d64-4f25-8bb2-c179b224825d",
            "dropship": "true",
            "sets": 2,
            "files": [
                "set_001": {
                    "job_name": "job001-001",
                    "files": [
                        {
                            "fr": "5a2e207c-8a97-42a3-9b17-1e4899eae9ac",
                            "bk": "d04410f-003e-4b32-8039-f6d590728f5b"
                        }
                    ]
                },
                "set_002": {
                    "job_name": "job001-002",
                    "files": [
                        {
                            "fr": "8b0fd851-7f13-4700-a35a-baff123eecfe",
                            "bk": "3d71bf4a-a799-4dfb-ac90-8fea5f97b608"
                        }
                    ]
                }
            ],
            "ship_to": {
                "company": "My Print Company",
                "firstname": "James",
                "lastname": "Doe",
                "email": "james.doe@abcd_company.com",
                "phone": "888-888-8888",
                "address": "8900 Executive Park Drive",
                "address2": "",
                "city": "Knoxville",
                "state": "TN",
                "zipcode": "37923",
                "country": "US"
            },
            "ship_from": {
                "company": "My Print Company",
                "firstname": "Mike",
                "lastname": "Doe",
                "email": null,
                "phone": "888-888-8888",
                "address": "100 CUMMINGS CTR",
                "address2": null,
                "city": "BEVERLY",
                "state": "MA",
                "zipcode": "01915",
                "country": "US"
            },
            "shipper": {
                "shipping_method": "FREE UPS Ground",
                "shipping_code": "03f"
            },
            "ship_from_facility": "DAY"
        }
    ],
    "product_uuid": "91efff4d-de64-410a-8794-fc547022a7f2",
    "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
}
```

```

"option_uuids": [],
"turnaround_time_uuid": "50979118-b3a2-4556-9f46-d1da268f2354",
"colorspec_uuid": "13abbd7-1d64-4f25-8bb2-c179b224825d",
"dropship": "true",
"sets": 3,
"files": {
    "set_001": {
        "job_name": "job002-001",
        "files": {
            "fr": "62a7d70a-3b38-45a8-9327-e10a9c4057df",
            "bk": "ef45e3ff-2f3c-415c-8c63-4f5e3f290e8d"
        }
    },
    "set_002": {
        "job_name": "job002-002",
        "files": {
            "fr": "bad3efad7-2e72-4a5e-87ec-d8bad3ef0359",
            "bk": "f9ead3ef0-b0de-4033-ad6d-aa15aa8c2555"
        }
    },
    "set_003": {
        "job_name": "job002-003",
        "files": {
            "fr": "3830c3ee-72e4-46d7-8d0d-aad3ef77ccf1",
            "bk": "bd380570-135d-47fd-9411-b3ead3ef99d8"
        }
    }
},
"ship_to": {
    "company": "My Test Company",
    "firstname": "Maria",
    "lastname": "Doe",
    "email": "maria.doe@abcd_company.com",
    "phone": "888-888-8888",
    "address": "8900 Executive Park Drive",
    "address2": null,
    "city": "Knoxville",
    "state": "TN",
    "zipcode": "37923",
    "country": "US"
},
"ship_from": {
    "company": "My Print Company",
    "firstname": "Mike",
    "lastname": "Doe",
    "email": null,
    "phone": "888-888-8888",
    "address": "100 CUMMINGS CTR",
    "address2": null,
    "city": "BEVERLY",
    "state": "MA",
    "zipcode": "01915",
    "country": "US"
},
"shipper": {
    "shipping_method": "FREE UPS Ground",
    "shipping_code": "03f"
},
"ship_from_facility": "DAY"
},
"payment": {
    "profile_token": "xxxxxxxxxx"
}
}
}

```

Sample Response

JSON

```
{
    "order_status": "Success",
    "customer_order_id": "test001",
    "job_ids": {
        "X8291118499-001": {
            "customer_job_id": "job001-001",
            "status": 200,
            "messages": []
        },
        "X8291118499-002": {
            "customer_job_id": "job001-002",
            "status": 200,
            "messages": []
        },
        "X8291118499-003": {
            "customer_job_id": "job002-001",
            "status": 200,
            "messages": []
        },
        "X8291118499-004": {
            "customer_job_id": "job002-002",
            "status": 200,
            "messages": []
        },
        "X8291118499-005": {
            "customer_job_id": "job002-003",
            "status": 200,
            "messages": []
        }
    },
    "payment_response": {
        "payment_uuid": "e58bee7f-0b57-4214-9e2a-33d683e7fe9f",
        "payment_provider": {
            "payment_provider_uuid": "6b0e699e-bdaf-4d1e-af4c-bc422ad21761",
            "payment_provider": "Authorizenet",
            "created_at": "2013-11-05 11:33:51-08"
        },
        "requested_amount": "119.70",
        "requested_currency": {
            "currency_code": "USD",
            "currency": "United States dollar",
            "currency_number": "840",
            "created_at": "2013-09-30 09:27:22.689216-07"
        },
        "request_transaction_code": "12345678920",
        "request_data": "",
        "requested_at": "2018-10-18T18:06:19+0000",
        "response_transaction_code": "12345678920",
        "response_data": {
            "card_number": "XXXX1111",
            "card_type": "Visa",
            "response_message": "This transaction has been approved."
        },
        "responded_at": "2018-10-18T18:06:19+0000",
        "authorization_code": "ABCDEE",
        "authorized_at": "2018-10-18T18:06:19+0000",
        "authorized_payment_amount": "119.70",
        "authorized_refund_amount": 0,
        "authorized_currency": {
            "currency_code": "USD",

```

```

    "currency": "United States dollar",
    "currency_number": "840",
    "created_at": "2013-09-30 09:27:22.689216-07"
},
"paying_organization": {
    "organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989",
    "organization_name": "4over",
    "organization_description": "4over Website - Trade Ultra",
    "job_code_prefix": "K",
    "is_public_organization": true,
    "primary_contact_user": {
        "user_uuid": "d44fa923-d567-48ed-aa3a-9c02a98bcee6",
        "first_name": "Admin User",
        "last_name": "API",
        "email": "",
        "user_notes": "admin user",
        "created_at": "2014-03-18 12:33:43.387423-07",
        "updated_at": "2015-07-06 10:29:18.338875-07",
        "deleted_at": "",
        "organizations": "https://sandbox-api.4over.com/users/d44fa923-d567-48ed-aa3a-9c02a98bcee6/organizations",
        "logins": "https://sandbox-api.4over.com/users/d44fa923-d567-48ed-aa3a-9c02a98bcee6/logins",
        "token": "5ec64e96d3877374fd35c2aae94cea3d07b83e10",
        "timestamp": "0.09669000 1539885980",
        "current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
    },
    "parent_organization": {
        "organization_uuid": "8a17ef16-d997-4544-9f7c-d313febf9c40",
        "organization_name": "4over root",
        "organization_description": "4over root",
        "job_code_prefix": "z",
        "is_public_organization": true,
        "primary_contact_user": {
            "user_uuid": "cb51b9fc-6a6e-4b98-885f-5d21041c1403",
            "first_name": "Jane",
            "last_name": "Doe",
            "email": "fake@4over.com",
            "user_notes": "test",
            "created_at": "2012-09-10 07:00:00.000000+0000",
            "updated_at": "2018-05-31 15:48:19.140525-07",
            "deleted_at": "",
            "organizations": "https://sandbox-api.4over.com/users/cb51b9fc-6a6e-4b98-885f-5d21041c1403/organizations",
            "logins": "https://sandbox-api.4over.com/users/cb51b9fc-6a6e-4b98-885f-5d21041c1403/logins",
            "token": "47a11796c675bde6e3215239cd1a4c76255e854",
            "timestamp": "0.09683600 1539885980",
            "current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
        }
    }
},
"paying_user": {
    "user_uuid": "0e153dc0-9b7b-47e8-8cf8-e50d88817ffb",
    "first_name": "Test",
    "last_name": "Tester",
    "email": "fake@4over.com",
    "user_notes": "testing",
    "created_at": "2013-08-26 07:00:00.000000+0000",
    "updated_at": "2018-05-31 15:48:19.773569-07",
    "deleted_at": "",
    "organizations": "https://sandbox-api.4over.com/users/0e153dc0-9b7b-47e8-8cf8-e50d88817ffb/organizations",
    "logins": "https://sandbox-api.4over.com/users/0e153dc0-9b7b-47e8-8cf8-e50d88817ffb/logins",
    "token": "19253d572c2e5db795b4a8c846135218587c065b",
    "timestamp": "0.09695700 1539885980",
    "current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
},
"created_at": "2018-10-18T18:06:19+0000"
},
"payment_type": "authnet"
}
}

```

Orders Payment using Credit Card Profiles

Get customer's payment profiles:

GET /paymentprofiles

Sample Response:

JSON

```
{
    "entities": [
        {
            "profile_token": "xxxxxxxxxx",
            "last_four": "xxxx",
            "type": "Visa"
        },
        {
            "profile_token": "yyyyyyyyyy",
            "last_four": "yyy",
            "type": "Master"
        }
    ]
}
```

Save the desired payment profile and post the order:

POST /orders

<https://api.4over.com/orders>

Sample Request Body

JSON

```
{
    "order_id": "13358",
    "is_test_order": true,
    "skip_confirmation": true,
    "jobs": [
        {
            "job_name": "my order",
            "product_uuid": "bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e",
            "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
            "option_uuids": ["12b85fea-3513-46fd-932f-b2b9c1c17dfb"],
            "turnaroundtime_uuid": "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            "colorspec_uuid": "13abbda7-1d64-4f25-8bb2-c179b224825d",
            "dropship": "true",
            "files": [
                "fr": "file1_front.pdf",
                "bk": "file1_back.pdf"
            ],
            "ship_to": {
                "company": "Your Company",
                "firstname": "John",
                "lastname": "Doe",
                "email": "johnd@gwe.com",
                "phone": "2129457896",
                "address": "1263 Broadway Ave."
            }
        }
    ]
}
```

```

        "address2": "",
        "city": "Atlanta",
        "state": "GA",
        "zipcode": "30024",
        "country": "US"
    },
    "ship_from": {
        "company": "My Company",
        "firstname": "Bill",
        "lastname": "Smith",
        "email": "bills@try.com",
        "phone": "7144356789",
        "address": "456 asdf",
        "address2": "#3",
        "city": "Glendale",
        "state": "CA",
        "zipcode": "91202",
        "country": "US"
    },
    "shipper": {
        "shipping_method": "UPS 3 Day Select",
        "shipping_code": "12"
    },
    "ship_from_facility": "GLN"
},
{
    "job_name": "her order",
    "product_uid": "bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e",
    "runsize_uid": "52e3d10-0e8f-4dd4-8560-7dd8655be6b",
    "option_uids": ["12b85fea-3513-46fd-932f-b2b0c1c17dbf"],
    "turnaroundtime_uid": "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
    "colorspec_uid": "13abbd7-1d64-4f25-8bb2-c179b224825d",
    "dropship": "false",
    "files": [
        {"fr": "file2_front.pdf",
        "bk": "file2_back.pdf"
    },
    "shipper": {
        "shipping_method": "UPS 3 Day Select",
        "shipping_code": "12"
    },
    "ship_from_facility": "GLN"
}
],
"payment": {
    "requested_amount": "100.00",
    "requested_currency": {
        "currency_code": "USD"
    },
    "profile_token": "xxxxxxxxxx"
}
}

```

Sample Response

JSON

```
{
    "order_status": "Success",
    "job_ids": [
        "Z32023437161-001",
        "Z32023437161-002"
    ],
    "payment_response": {
        "payment_uuid": "7dc51ecf-4e30-49eb-b27b-49f27123a33c",
        "payment_provider": {
            "payment_provider_uuid": "6b0e699e-bdaf-4dle-af4c-bc4123d21761",
            "payment_provider": "Authorizenet",
            "created_at": "2013-11-05 11:33:51-08"
        },
        "requested_amount": "100.00",
        "requested_currency": {
            "currency_code": "USD",
            "currency": "United States dollar",
            "currency_number": "840",
            "created_at": "2013-09-30 09:27:22.689216-07"
        },
        "request_data": "",
        "requested_at": "2014-03-27T18:52:59-0700",
        "response_transaction_code": "9322095275",
        "response_data": {
            "card_number": "XXXX1111",
            "card_type": "Visa",
            "expiration_date": "2020 04",
            "response_message": "This transaction has been approved."
        },
        "responded_at": "2014-03-27T18:53:00-0700",
        "authorization_code": "4D43UG",
        "authorized_at": "2014-03-27T18:53:00-0700",
        "authorized_payment_amount": "100.00",
        "authorized_refund_amount": 0,
        "authorized_currency": {
            "currency_code": "USD",
            "currency": "United States dollar",
            "currency_number": "840",
            "created_at": "2013-09-30 09:27:22.689216-07"
        },
        "paying_organization": {
            "organization_uuid": "4a96-bc2b-a4269f374-8819-3871237b989",
            "organization_name": "Some Printer, Inc.",
            "organization_description": "Best Printer",
            "is_public_organization": true,
            "parent_organization": {
                "organization_uuid": "9c4084-9f7c-d313febfb-a112316-d997-454",
                "organization_name": "Some Org, Inc.",
                "organization_description": "Test Org",
                "is_public_organization": true,
                "users": "http://api.4over.com/organizations/4a96-bc2b-a4269f374-8819-3812327b989/users",
                "primary_contact_user": "",
                "job_code_prefix": "#",
                "created_at": "2013-09-29 22:11:43.194599-07",
                "updated_at": "",
                "deleted_at": ""
            }
        },
        "users": "http://api.4over.com/organizations/4a96-bc2b-a4269f374-8819-3812327b989/users",
        "primary_contact_user": {
            "user_uuid": "1badc49d-8a13-4282-8c05-1a1238149409",
            "first_name": "test",
            "last_name": "api",
            "email": "api_testuser1@someprint.com",
            "user_notes": "",
            "created_at": "2017-07-13 10:51:46.864528-07",
            "updated_at": "2017-07-13 10:51:46.864528-07",
            "deleted_at": "",
            "organizations": "https://api.4over.com/users/1badc49d-8a13-4282-8c05-1a1238149409/organizations",
            "logins": "https://api.4over.com/users/1badc49d-8a13-4282-8c05-1a1238149409/logins",
            "token": "e708b16083be6926fa56df723fe68db8238180d0",
            "timestamp": "0.66507900 1501783282",
            "current_organization_uuid": "f8225aa4-7367-4227-be85-a12329dc2f11"
        }
    }
}
```

```
        "job_code_prefix": "2",
        "created_at": "2013-09-29 22:11:43.194599-07",
        "updated_at": "2014-02-14 17:50:45.136891-08",
        "deleted_at": ""
    },
    "paying_user": {
        "user_uuid": "4be8-89f6-4db0df415-21233488--0947fld",
        "first_name": "John",
        "last_name": "Doe",
        "email": "abcdefg@someprinter.com",
        "user_notes": "1234",
        "created_at": "2013-08-07 12:59:59.886226-07",
        "updated_at": "",
        "deleted_at": "",
        "organizations": "http://api.4over.com/users/4be8-89f6-4db0df415-21233488-0947fld/organizations",
        "logins": "http://api.4over.com/users/4be8-89f6-4db0df415-23412388-0947fld/logins",
        "token": "2ac1ld830375281d7436dc1c569ec7386da28b8",
        "timestamp": "0.07353800 1395971580",
        "current_organization_uuid": "4a96-bc2b-a4269f374-8819-3877727b989"
    },
    "created_at": "2014-03-27T18:52:59-0700"
},
    "payment_type": "authnet"
}
```

EDDM Product Quote

USPS Search by Point

Request:

Request:
POST /search/near

```
{  
  "type": "point",  
  "x_coordinate": "-9982031.001181519",  
  "y_coordinate": "4169435.761616537",  
  "distance": 1  
}
```

- **TYPE:** to use Latitude / Longitude use “type”: “gps”
 - gps
 - latitude
 - longitude
 - **RADIUS:** use a numeric value to represent radius
 - point
 - x_coordinate
 - y_coordinate
 - **DISTANCE:** use a numeric value to represent distance

Response:

USPS Carrier Route Response

```
[  
    [-13182907,  
     4044292  
    ],  
    [  
        [-13182908,  
         4044295  
    ]  
,  
    [  
        [-13182970,  
         4044396  
    ],  
    [  
        [-13182918,  
         4044285  
    ]  
,  
    [  
        [-13182981,  
         4044401  
    ],  
    [  
        [-13183235,  
         4044431  
    ]  
,  
    [  
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         4044411  
    ],  
    [  
        [-13182907,  
         4044292  
    ]  
,  
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    [  
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,  
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    [  
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    ]  
,  
    [  
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    ],  
    [  
        [-13183486,  
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    ],  
    [  
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,  
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    [  
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```

```
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     4044778  
    ],  
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    ],  
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    ],  
    [-13183502,  
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    ],  
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     4044792  
    ],  
    [-13183497,  
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    ],  
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     4045240  
    ],  
    [-13183083,  
     4045101  
    ],  
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     4045069  
    ],  
    [-13183083,  
     4045101  
    ],  
    [-13183142,  
     4044870  
    ],  
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    [-13183271,  
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     4045433  
    ],  
    [-13183172,  
     4045433  
    ]]
```

```
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     4045277  
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],  
        [  
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],  
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],  
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]  
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]  
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],  
        [  
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]  
],  
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        [-13183628,  
         4045302  
],  
        [  
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]  
],  
    [  
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],  
        [  
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]  
],  
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],  
        [  
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]  
],  
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],  
        [  
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]  
],  
    [  
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],  
        [  
            [-13182950,  
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]  
],  
    [  
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         4045393  
],  
        [  
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]  
],  
    [  
        [-13183471,  
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],  
        [  
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]  
],  
]
```

```
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        [  
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,  
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        [  
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        ]  
,  
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        ],  
        [  
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,  
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  [  

```

```
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    ],  
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                ]  
            ]  
        ]  
    ]  
]
```

API General Information

Perfecting Your Profits

Welcome

As North America's leading trade printer, we at 4over pride ourselves on providing our partners with world class quality, value and customer service. We've developed the 4over API as an efficient and affordable way for you to provide premium quality print products to your customers, saving you time and money.

WELCOME TO THE 4OVER API

To use the 4over API, you must first become a 4over Organization and obtain a 4over API license.

API Toolkit Documentation

Steps to Setup API Toolkit Project on Local Machine (Windows OS):

Step 1: Download and Install XAMPP

Download XAMPP from apachefriends.org.
Direct download link: XAMPP Windows 8.0.28

Link: <https://sourceforge.net/projects/xampp/files/XAMPP%20Windows/8.0.28/xampp-windows-x64-8.0.28-0-VS16-installer.exe>

Step 2: Download API Toolkit

Download API Toolkit from the following link: API Toolkit Download
Link: <https://apitoolkit-dev.4over.com/downloads/apitoolkit.zip>

Step 3: Prepare the XAMPP Directory

Navigate to c:\xampp\htdocs (or the appropriate drive if XAMPP is installed elsewhere).
Create a new folder named apitoolkit.

Extract the contents of apitoolkit.zip file into this new folder (c:\xampp\htdocs\apitoolkit).

Step 4: Start XAMPP Services

Open c:\xampp\xampp-control.exe.
Start both Apache and MySQL services.

Step 5: Setup the Database

Open <http://localhost/phpmyadmin> in your browser.
Create a new database named apitoolkit.

Step 6: Import the Database

Click on the 'Import' tab in phpMyAdmin.
Select the file C:\xampp\htdocs\apitoolkit\apitoolkit_database.sql.
Click the 'Import' button to import the database.

Step 7: Access the API Toolkit Application

Open <http://localhost/apitoolkit/public/admin/login> in your browser.

Login using the following credentials:

Username: admin@localhost

Password: Admin@123

Steps to Use or Test API Toolkit Application:

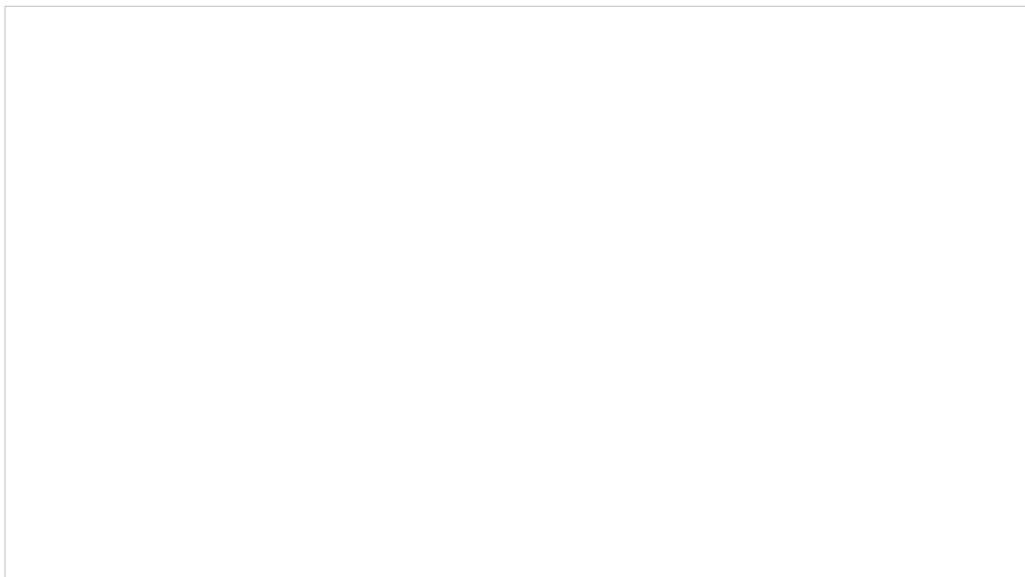
Step 8: Login to the API Toolkit Dashboard

Use the provided credentials to login.



Step 9: Configure API Key

Navigate to the Settings page where the admin can add API key details for the 4Over API.



Step 10: API Product Listing

On the 4Over API Product Listing page, select and import products into the local database.

Step 11: Map Products with SKU

Imported products will be displayed, and the admin can map them with SKUs by clicking the map icon in the action column.

Step 12: Create Sample Data

Under the 'Create Sample Data' menu, generate sample JSON data for various operations like Create Order, Cancel Order, Order Status, and Shipping Quote for 4Over APIs.

Click the 'Export' button to generate the JSON sample data.

Step 13: Test APIs

Go to the API Testing URL: <http://localhost/apitoolkit/public/docs/api#/paths/order/post>.
Use the base URL: <http://localhost/apitoolkit/public/>.

Paste the sample JSON data in the provided field and click 'Send API Request'.

If the request is successful, the order will be placed on the 4Over system.

Step 14: Verify Orders

Placed orders will be displayed under the 'Orders' menu in the admin dashboard.

Step 15: Test Other APIs

Similarly, you can test Create Order, Cancel Order, and Shipping Quote APIs using the sample JSON data.

Attach Files to a Job

Attach files to a Job

POST route is used to attach files for a job.
Attach files to a job placed with "skip_files" flag set to TRUE

Resource URI

POST /jobs/{job_id}/files

Input Parameters

@param fr {string} front URL or file_uuid for artwork.
@param bk {string} back URL or file_uuid for artwork.

Sample Request URI

html

<https://api.4over.com/jobs/z3472021234-001/files>

Sample Request Body

JSON

```
{  
  "files": [  
    {  
      "fr": "https://www.google.com/images/branding/googlelogo/2x/googlelogo_color_272x92dp.png",  
      "bk": "https://www.google.com/images/branding/googlelogo/2x/googlelogo_color_272x92dp.png"  
    }  
  ]  
}
```

Sample Response

JSON

```
[ "File(s) successfully attached to the order: z3472021234-001" ]
```

Option Prices Calculations

Please see below points and details regarding option_price calculations

If (startqty = endqty) this value applies to this distinct runsize
If (endqty > startqty) the calculation applies to all runsizes within this range.
If (is_flat_fee = True) the value in the "price" field is the value for the flat-fee
If (is_percentage is True) the value in the "price" field is the percentage applied to the product base to calculate the option price.
If ((price_per_qty data field is not NULL and is > 0) there is an additional price/qty charge applied

General formula:

If is_percentage is False: Option-price = price + ((Runsize/qty) * price_per_qty)
If is_percentage is True: Option-price = price * product-base-price

Resource URI

```
GET /printproducts/products/{product_uuid}/optiongroups/{option_group_uuid}/options/{option_uuid}/prices
```

Input Parameters

@param product_uuid {uuid} The UUID of product.
@param option_group_uuid {uuid} The UUID of Option Group.
@param option_uuid {uuid} The UUID of Option.

Sample Request

html

```
https://api.4over.com/printproducts/products/3b3dd574-4b7d-47fd-b24e-01468cd937d3/optiongroups/254afeea-1fd1-4efb-b5fb-c9c3bf4c13d2/options/5d566e05-ffea-4705-a23f-95bd227f1370/p
```

Sample Response

JSON

```
{  
  "entities": [  
    {  
      "option_price_uuid": "aeec7ed5-1023-4e20-a464-c7ee17321780",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 100,  
      "endqty": 100,  
      "price": "19.50",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    },  
    {  
      "option_price_uuid": "b7fecbf9-08ae-4405-94f4-940b8e2ac2a9",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 250,  
      "endqty": 250,  
      "price": "19.50",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    },  
    {  
      "option_price_uuid": "fc3989a6-4c7b-4eb0-aba3-203dfd55c8d8",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 500,  
      "endqty": 500,  
      "price": "21.84",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    },  
    {  
      "option_price_uuid": "clf49c4e-dd25-433d-ace3-15f8728295cc",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 750,  
      "endqty": 750,  
      "price": "22",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    },  
    {  
      "option_price_uuid": "698ca520-4adf-45ae-ac54-6c52bd7571c9",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 1000,  
      "endqty": 1000,  
      "price": "23.92",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    },  
    {  
      "option_price_uuid": "241a7d7f-6725-4b94-afda-1fa981d8dec2",  
      "option_name": "Yes Bundles of 50",  
      "startqty": 2500,  
      "endqty": 2500,  
      "price": "36.00",  
      "price_per_qty": "0",  
      "is_flat_fee": true,  
      "qty": 0,  
      "is_percentage": false  
    }  
  ]  
}
```

```
{
    "option_price_uuid": "93d4b1e7-f79f-4bcc-8d06-b8f7e0fdcb67",
    "option_name": "Yes Bundles of 50",
    "startqty": 5000,
    "endqty": 5000,
    "price": "49.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "61c9dbc6-2eb9-474a-a225-61f83fb3a0ed",
    "option_name": "Yes Bundles of 50",
    "startqty": 7500,
    "endqty": 7500,
    "price": "61.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "d503a5b8-923d-4005-afdf-895ef6e88471",
    "option_name": "Yes Bundles of 50",
    "startqty": 10000,
    "endqty": 10000,
    "price": "73.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "04c948fb-8b8a-4b9c-9acf-be21464c07eb",
    "option_name": "Yes Bundles of 50",
    "startqty": 15000,
    "endqty": 15000,
    "price": "100.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "04952ab3-57b9-4397-b10b-cele31506f8a",
    "option_name": "Yes Bundles of 50",
    "startqty": 20000,
    "endqty": 20000,
    "price": "115.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "0395f896-b00f-4e0d-8349-8ca62237d409",
    "option_name": "Yes Bundles of 50",
    "startqty": 25000,
    "endqty": 25000,
    "price": "139.50",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "f0a46972-b001-4dd0-87c0-403b2392b35d",
    "option_name": "Yes Bundles of 50",
    "startqty": 30000,
    "endqty": 30000,
    "price": "163",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "1c94c8af-e549-4900-9ac1-09603dee1f37",
    "option_name": "Yes Bundles of 50",
    "startqty": 35000,
    "endqty": 35000,
    "price": "190",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
},
{
    "option_price_uuid": "290b8744-f92b-48c8-8c64-c801927ed23c",
    "option_name": "Yes Bundles of 50",
    "startqty": 40000,
    "endqty": 40000,
    "price": "223",
    "price_per_qty": "0",
    "is_flat_fee": true,
    "qty": 0,
    "is_percentage": false
}
],
    "currentPage": 1,
    "maximumPages": 1
}

```

Direct Mail Address Validation

This Route is used to Address Validation and as well as create a new file resource.
Paths for a file resource could either be a full URL to the file resource or a FTP path. For Address Validation It should be valid csv file URL.

Resource URI

POST /files

Input Parameters

```
@param path {string} Path to resource file (http, https or ftp paths)
@param validation_type {string} Possible values for validation_type: none, CASS, NCOA
@param address_count {string} address_count is the run_size
```

JSON

```
{
    "path": ["https://8b887e04.amazonaws.com/MailingAddress-zpNqyJSbutbuH.csv"],
    "validation_type": "none",
}
```

```
"address_count": "1000"
```

```
}
```

Sample Response

JSON

```
{
  "files": [
    {
      "file_uuid": "cc2119c9-9e98-4071-b0ea-71b31a9df4c0",
      "size_bytes": 183398,
      "extension": "csv",
      "reference_file_name": "42c93e14-0482-4b72-9bd4-85b4e2531ca9.csv",
      "uri": "https://dev-api.4over.com/files/cc2119c9-9e98-4071-b0ea-71b3wed3xxwhee",
      "created_at": "2024-09-27T19:49:15-07:00",
      "updated_at": "",
      "deleted_at": "",
      "number_of_pages": "1"
    }
  ],
  "address_validation_response": {
    "validation_type": "NONE",
    "original_address_list_csv": "https://8b98ee04-eeee-46f4-b35f-e4676hu23fbe.s3.us-west-1.amazonaws.com/OriginalMailingAddress-y2ag0DfoYEIuaryhkoK08r02VWYkdQ4r.csv",
    "precleanlist_csv": "https://8b98ee04-eeee-46f4-b35f-e4676hu23fbe.s3.us-west-1.amazonaws.com/precleanlist_csv-y2ag0DfoYEIuaryhkoK08r02VWYkdQ4r.csv",
    "validation_report_pdf": "https://8b98ee04-eeee-46f4-b35f-e4676hu23fbe.s3.us-west-1.amazonaws.com/validation_report_pdf-y2ag0DfoYEIuaryhkoK08r02VWYkdQ4r.pdf",
    "statement_id": "y2ag0DfoYEIuaryhkoK08rsjdhejhwejhe"
  }
}
```

NOTE:

original_address_list_csv: This likely refers to a CSV file that contains a list of addresses in their original format. **precleanlist_csv:** It contains addresses that have been "pre-cleaned" or processed to remove errors, duplicates. **statement_id:** This is likely an identifier for a specific statement or record.

Presort

Presort Route return the Postage Price, post_office_drop_date, number_of_items_mailed and other Presort information.

Resource URI

POST /presorts

Input Parameters

```
@param validation_type (string) Address validation_type //Provided in the address validation API response
@param original_address_list_csv (string) original address CSV file url //Provided in the Direct Mail Address Validation API response
@param precleanlist_csv (string) clean list CSV file url //Provided in the Direct Mail Address Validation API response
@param validation_report_pdf (string) validation report pdf file url //Provided in the Direct Mail Address Validation API response
@param statement_id (string) statement_id //Provided in the Direct Mail Address Validation API response
@param crid (integer) crid // any random number (3-12 digits range), required in case of Postage Class - Non-Profit
@param resource_uuids (array) option_uuids of a product
```

Note: validation_type, original_address_list_csv, precleanlist_csv, validation_report_pdf, statement_id provided in the response from the /files route response after the Direct M

original_address_list_csv: This likely refers to a CSV file that contains a list of addresses in their original format.
precleanlist_csv: It contains addresses that have been "pre-cleaned" or processed to remove errors, duplicates.
statement_id: This is likely an identifier for a specific statement or record.

JSON

```
{
  "validation_type": "NONE",
  "original_address_list_csv": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/OriginalMailingAddress-yUyFl86Ls0vkn6CgJpDuglkyrO3Werf.csv",
  "precleanlist_csv": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/precleanlist_csv-gQON52hEh2RrcA421rBfYndsdrtqrd.csv",
  "validation_report_pdf": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/validation_report_pdf-yUyFl86Ls0vkn6CgJpDuglkyrO3Werf.pdf",
  "resource_uuids": [
    "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a",
    "121bb7b5-3b4d-429f-bd8d-bbf80e95313",
    "4d0c12ba-13c5-4851-ac98-d5908a8da60b",
    "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
    "3359c49b-ecae-4694-8901-edec09a31a0d",
    "ddaf65eb-d2a3-4542-874d-03a289d9d07b",
    "ac3f81af-b99a-489d-b2e3-b192e9eaa96a",
    "9f85d0c4-d344-4088-a719-86f8f84d504d",
    "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
    "f169e8b1-5d3f-408a-81fd-c857f7b9c37b"
  ],
  "statement_id": "6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw",
  "crid": "123456"
}
```

Sample Response

JSON

```
{
  "clean_mailing_address_list_csv": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.amazonaws.com/cleanlist-6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw.csv",
  "crid": "",
  "drop_zip_code": "33152-9996",
  "eligibility_discount": "",
  "mail_piece_type": "postcard",
  "maildat_zip": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.amazonaws.com/maildat-6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw.zip",
  "mailing_usps_status_report_pdf": "",
  "number_of_items_mailed": 998,
  "original_mailing_list_csv": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/OriginalMailingAddress-yUyFl86Ls0vkn6CgJpDuglkyrO3Werf.csv",
  "permit_number": "3666",
  "piece_height": "3.5",
  "piece_multiplier": "1",
  "piece_size": "",
  "piece_stock": null,
  "piece_thickness": 0.016,
  "piece_turnaround": 4,
  "piece_weight": 0.229075,
  "piece_width": "8.5",
  "post_office_drop_date": "2024-08-28",
  "postage_price": 397.5480000000032,
  "preclean mailing_list_csv": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/precleanlist_csv-gQON52hEh2RrcA421rBfYndsdrtqrd.csv",
  "presort_class": "firstClass",
  "presort_location": "f1",
  "presort_mail_summary_report": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.amazonaws.com/storePdfPresortingMailSummaryReport_pdf-6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw.",
  "presort_pdf": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.amazonaws.com/presort_report_AWS-6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw.pdf",
  "presort_tray_labels_report": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.amazonaws.com/presort_tray_labels_report_AWS-6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw.pdf",
  "project_id": "becc9d2c-be5d-40cd-8386-bc386140a3e9",
  "runsize": "1000",
  "satori_template_class": "firstClass-postcard",
  "satori_validation_pdf": "https://8b887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/validation_report_pdf-yUyFl86Ls0vkn6CgJpDuglkyrO3Werf.pdf",
  "sqfootage": "29.75",
  "statement_id": "6LfY0o1DwH7vvOsciNcPoDW7P9Eho9Xw",
  "statement_ups_job_id": "ASIIXMV",
  "validation_type": "NONE"
}
```

}

Direct Mail Create Order

POST New Orders

This route submits a new Direct Mail order and places it in User's shopping cart. An order is consisted of one or more jobs. Each job is constructed by series of Uuids and shipping data. Ship_from address is required when a job is drop-shipped.

All files must be identified by appropriate file-reason code. For more details about files and file reason codes please see Services/File Services section.

Resource URI

POST /orders

Input Parameters

```
@param order_id {String} order_id specified by the API user. (Required)
@param is_test_order {boolean} allows the user to submit test orders. Orders with is_test_order set to TRUE will not go to production. (Optional and default is set to FALSE)
@param coupon_code {string} allows user to pass a coupon-code that will apply to any resources qualified in the order based on coupon rules. Only one coupon per order is allowed
@param skip_conformation {boolean} By setting this flag to TRUE the system will bypass conformation. If the flag is set to FALSE, an e-mail containing a HTML preview link is emailed
@param job_name {string} Job name. (Required)
@param product_uuid {uuid} UUID of product. (Required)
@param runsize_uuid {uuid} UUID of runsize option. (Required)
@param turnaroundtime_uuid {uuid} UUID of product. (Optional - If not submitted, shortest free turnarounds time will be selected)
@param colorspec_uuid {uuid} UUID of colorspec option. (Required)
@param option_uuids {uuid} array of option Uuids to specify any options that may be required or optional. (Required field but can be empty array)
@param dropship {boolean} flag to identify if the job is being drop shipped. (Required)
@param skip_files {boolean} allows order submission without files. Files can be submitted later when the order comes in with this flag set to TRUE. (Optional)
@param files {string} URL to location of files or UUID of files POST-ed to 4over server. If skip_files is set to TRUE this parameter can be omitted. (Optional)
@param company {string} Ship_to Company Name. (Required if firstname and lastname are not provided)
@param firstname {string} Ship_to First Name. (Required if company is not provided)
@param lastname {string} Ship_to Last Name. (Required if company is not provided)
@param email {string} Ship_to Email. (optional)
@param phone {string} Ship_to Phone Number. (Required)
@param address {string} Ship_to address line. (Required)
@param address2 {string} Ship_to address2 line. (Optional)
@param city {string} Ship_to City. (Required)
@param state {string} Ship_to state. (Required)
@param zipcode {string} Ship_to zipcode. (Required)
@param country {string} Ship_to country. (Required)
@param company {string} Ship_from Company Name. (Required if ship-from present and firstname and lastname are not provided)
@param firstname {string} Ship_from First Name. (Required if ship-from present and company is not provided)
@param lastname {string} Ship_from Last Name. (Required if ship-from present and company is not provided)
@param email {string} Ship_from Email. (optional if ship-from is present)
@param phone {string} Ship_from Phone Number. (Required if ship-from is present)
@param address {string} Ship_from address line. (Required if ship-from is present)
@param address2 {string} Ship_from address2 line. (optional if ship-from is present)
@param city {string} Ship_from city. (Required if ship-from is present)
@param state {string} Ship_from state. (Required if ship-from is present)
@param zipcode {string} Ship_from zipcode. (Required if ship-from is present)
@param country {string} Ship_from country. (Required if ship-from is present)
@param ship_from_facility {string} Facility code of the production facility where the job will be shipped from. (RECOMMENDED to leave this parameter blank. Blank facility-code means direct mailing)
@param direct_mailing {array} crid should be random number of 3-12 digits range, address_validation_level => none, CASS, NCOA.
@param product_type {string} product_type should be direct_mail, if placing direct mail order.
@param shipper {array} {"shipping_method": "MAILING - No Shipment", "shipping_code": "MAILING"}, if placing direct mail order.
```

Sample Request URI

html

<https://api.4over.com/orders>

Sample Request Body

NOTE:

Group-Shipping is available for same type products with the same stock, colorspec, coating and runsize. The base price route provides a "can_group_ship" flag to let users know what products are qualified for group-shipping.

In sample request below "job001-001" and "job001-002" are grouped together for group-shipping and "job002-001", "job002-002" and "job002-003" are grouped as a separate group-shipping job.

JSON

```
{
  "order_id": "direct-mail-072624",
  "skip_confirmation": "true",
  "is_test_order": "true",
  "jobs": [
    {
      "job_name": "direct-mail-4",
      "product_uuid": "f80ff1f73-2b5f-44ce-8d93-195852e8570b",
      "runsize_uuid": "6237a36b-b046-4ef6-8fed-6cb9c22a5ce",
      "turnaround_uuid": "ad290b77-c9d5-476c-b847-9ad4d25ae14e",
      "colorspec_uuid": "32d3c223-f82c-492b-b915-ba065a00862f",
      "product_type": "direct_mail",
      "dropship": true,
      "ship_to": {
        "company": null,
        "firstname": "Test",
        "lastname": "Admin",
        "email": "testuser@user.com",
        "phone": "+18777822737",
        "address": "3700 OAKCLIFF RD",
        "address2": "",
        "city": "ATLANTA",
        "state": "GA",
        "zipcode": "30340-3405",
        "country": "US"
      },
      "ship_from": {
        "company": "4over",
        "firstname": "",
        "lastname": "",
        "email": "",
        "address": "4621 Sperry Street",
        "address2": "",
        "city": "Los Angeles",
        "state": "CA",
        "zipcode": "90039",
        "country": "US",
        "phone": "555-555-5555"
      },
      "shipper": {
        "shipping_method": "MAILING - No Shipment",
        "shipping_code": "MAILING"
      },
      "files": {
        "fx": "c55a12e5-a8b4-4195-9dba-41bdd4f1eb56",
        "vdf": "https://88887e04-4eb5-46f4-b35f-e466e7723fbe.s3.us-west-1.amazonaws.com/OriginalMailingAddress-IcV3yPNZK1qD4CsUDuVf6Kt3uKijwZKR.csv"
      },
      "option_uuids": [
        ...
      ]
    }
  ]
}
```

```

    "2e53e1ae-5a15-42a2-8661-c1f8663f00bc",
    "ald764a6-1355-4b37-afbd-cf186e4c01a7",
    "991b850a-6643-48d3-afa6-bcd4acf58c85",
    "1abab393-e3e7-4af3-ad86-9ffa71c18d29",
    "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a",
    "af66174e-4aa4-4lab-8fea-5dc8d7cbf65",
    "1e8116af-acfc-44b1-83de-8181aa338834",
    "d3cc0d54-e72f-41ce-80c5-e8486bf2cd8",
    "6ffd6a6d-cd1d-47db-abab-670a2a6c628"
  ],
  "direct_mailing": {
    "crid": "325235",
    "address_validation_level": "none"
  },
  "bypass_address_validation": "true"
},
"payment": {
  "profile_token": "XXXXXXXXXX"
}
}

```

Sample Response

JSON

```
{
  "order_status": "Success",
  "customer_order_id": "direct-mail-072624",
  "job_ids": {
    "X4674081817-001": {
      "customer_job_id": "direct-mail-4",
      "status": 200,
      "messages": []
    }
  },
  "payment_response": {
    "payment_uuid": "2e8201a0-8fe3-422b-a554-3434isds",
    "payment_provider": {
      "payment_provider_uuid": "a026b55c-4e33-4a35-80eb-sjdhj3hj",
      "payment_provider": "DummyProvider",
      "created_at": "2023-08-16 18:22:32.340083-07",
      "updated_at": "2023-08-16 18:22:32.340083-07",
      "deleted_at": null
    },
    "requested_amount": "138.95",
    "requested_refund_amount": null,
    "requested_currency": {
      "currency_code": "USD",
      "currency": "United States dollar",
      "currency_number": "840",
      "created_at": "2013-09-30 09:27:22.689216-07",
      "updated_at": null,
      "deleted_at": null
    },
    "request_transaction_code": null,
    "request_data": "",
    "requested_at": "2024-10-01T15:37:03+00:00",
    "response_transaction_code": "55450a80-677e-470f-ac61-uausahgsva",
    "response_data": null,
    "responded_at": "2024-10-01T15:37:03+00:00",
    "authorization_code": null,
    "authorized_at": "2024-10-01T15:37:03+00:00",
    "authorized_payment_amount": "138.95",
    "authorized_refund_amount": 0,
    "authorized_currency": {
      "currency_code": "USD",
      "currency": "United States dollar",
      "currency_number": "840",
      "created_at": "2013-09-30 09:27:22.689216-07",
      "updated_at": null,
      "deleted_at": null
    },
    "paying_organization": {
      "organization_uuid": "bf972465-d0b2-4767-b350-wewsd3r3443dd",
      "organization_name": "4over-test",
      "organization_description": "4over-test",
      "job_code_prefix": "Z",
      "is_public_organization": true,
      "primary_contact_user": {
        "user_uuid": "6bc4fd59-839d-41ce-a32c-34fef45f",
        "first_name": "Test",
        "last_name": "api",
        "email": "v-testuser@4over.com",
        "user_notes": "",
        "created_at": "2022-03-03 12:55:01.328992-08",
        "updated_at": "2022-03-03 12:55:01.328992-08",
        "deleted_at": "",
        "organizations": "https://sandbox-api.4over.com/users/6bc4fd59-839d-41ce-a32c-0acb04073ccf/organizations",
        "logins": "https://sandbox-api.4over.com/users/6bc4fd59-839d-41ce-a32c-wasdda4da2b1/logins",
        "token": "091b8db7f48c0d0f58a9de3b19877faad0581856",
        "timestamp": "0.92753600 1727797023",
        "current_organization_uuid": "bf972465-d0b2-4767-b350-sdshjh33443"
      },
      "parent_organization": {
        "organization_uuid": "d6d4e03e-7e88-4f69-9664-wasdda4da2b1",
        "organization_name": "API",
        "organization_description": "API Subsciber Organizations",
        "job_code_prefix": "",
        "is_public_organization": true,
        "primary_contact_user": ""
      }
    },
    "paying_user": {
      "user_uuid": "6as4fd59-839d-41ce-a32c-asxasfdasas",
      "first_name": "4vergasource",
      "last_name": "api",
      "email": "v-testestest@4over.com",
      "user_notes": "",
      "created_at": "2022-03-03 12:55:01.328992-08",
      "updated_at": "2022-03-03 12:55:01.328992-08",
      "deleted_at": "",
      "organizations": "https://sandbox-api.4over.com/users/6as4fd59-839d-41ce-a32c-wasdda4da2b1/organizations",
      "logins": "https://sandbox-api.4over.com/users/6as4fd59-839d-41ce-a32c-wasdda4da2b1/logins",
      "token": "1c2777fc8dbecd63202ccca0e5cc23af158a5f",
      "timestamp": "0.92760100 1727797023",
      "current_organization_uuid": "bf972465-d0b2-4767-b350-c3728c8cd6f5"
    },
    "created_at": "2024-10-01T15:37:03+00:00",
    "updated_at": null,
    "deleted_at": null
  },
  "payment_type": "authnet",
  "errors": []
}
```

****If there are any failed jobs, the response will show either "Warning" or "Failed" for "order_status" and will appear as shown below:**

If "order_status" is Warning or Failed, you have jobs that did not go through. Jobs in the "job_ids" array are the Successful jobs and do not need to get sent again. Any jobs in the "errors" array DO need to get fixed and resent to the order API.

```
{  
  "order_status": "Warning",  
  "job_ids": [  
    {  
      "internal_id": "X6327136040-001",  
      "customer_job_id": "93cc6db6-acd7-11e6-8635-0242ac110003-corporate"  
    },  
    ...  
    ...  
  ],  
  "errors": [  
    {  
      "customer_order_id": "123456",  
      "customer_job_id": "YOUR_JOB_ID",  
      "internal_id": "Z12345678",  
      "message": "ERROR MESSAGE WILL GO HERE",  
      "job_status": "Failed"  
    }  
  ]  
}
```

Filter Category Products

This route returns the products based on category and any or all size, stock, coating.

- If the filter parameter is set to size, the response will include a list of available sizes and the corresponding products.
- If a size_uuid, stock_uuid, or coating_uuid is provided, the products will be filtered accordingly based on the selected criteria.

Resource URI

GET /printproducts/categoryproductslist

Input Parameters

```
@param category_uuid {uuid} (Required) The UUID of Category.  
@param size_uuid {uuid} (Optional) The UUID of Size.  
@param stock_uuid {uuid} (Optional) The UUID of Stock.  
@param coating_uuid {uuid} (Optional) The UUID of Coating.  
@param filter (Optional): size/stock/coating
```

Sample Request

html

https://api.4over.com/printproducts/categoryproductslist?category_uuid=08a9625a-4152-40cf-9007-b2bbb349efec

Sample Response

JSON

```
{  
  "size_list": [  
    {  
      "name": "1.5\" x 3.5\"",  
      "uuid": "9ab7b563-5e4d-4bc2-a5d6-32de8b9b9e06"  
    },  
    {  
      "name": "1.75\" x 3.5\"",  
      "uuid": "1bab342a-cf16-47f9-97b6-8d880f3f096a"  
    },  
    {  
      "name": "2\" x 2\"",  
      "uuid": "977ac498-7c23-4b1f-afbd-e33d99cd44b0"  
    },  
    {  
      "name": "2\" x 3\"",  
      "uuid": "0d56dc24-f70f-46d9-b58f-b2b03e72a9a5"  
    },  
    {  
      "name": "2\" x 3.5\"",  
      "uuid": "cb23ad7e-5e87-41f9-9956-4fe91dc8820b"  
    },  
    {  
      "name": "2\" x 7\"",  
      "uuid": "fffabbf1-d425-4a65-a25d-829372471ab0"  
    }  
  "stock_list": [  
    {  
      "name": "14PT",  
      "uuid": "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a"  
    },  
    {  
      "name": "14PTUC",  
      "uuid": "c438d655-d2dd-486b-93d5-47b1f3edee19"  
    },  
    {  
      "name": "16PT",  
      "uuid": "cb84e4f5-cf63-4c25-b3c3-d22fc7dcf09d"  
    },  
    {  
      "name": "18PTC1S",  
      "uuid": "8397859c-f981-4575-b40f-daffc42e2347"  
    },  
    {  
      "name": "100GLC",  
      "uuid": "6ef3ac86-0540-4936-8f72-172257b3be60"  
    }  
  "coating_list": [  
    {  
      "name": "AQ",  
      "uuid": "d41dab50-ff65-4f4f-bb17-2afe4d36ae33"  
    },  
    {  
      "name": "MATT",  
      "uuid": "121bb7b5-3b4d-429f-bd8d-bbf80e953313"  
    },  
    {  
      "name": "SA",  
      "uuid": "1753ff32-3d28-4f95-990a-6fda0dbe3d7c"  
    },  
    {  
      "name": "SPUV",  
      "uuid": "88542d07-0352-4839-9e2e-a2c8d1c343ef"  
    },  
    {  
      "name": "UC",  
      "uuid": "3e7618de-abca-4bda-9f97-8b9129e913d8"  
    },  
  ]  
}
```

```

    {
      "name": "UV",
      "uuid": "ae367451-b2b8-45df-a344-0f05b6a12993"
    }
  ],
  "products": [
    {
      "product_uuid": "1a7e039c-e7ed-4410-8c64-377dbcbee322",
      "product_code": "14PT-BCUV-1.5X3.5",
      "product_description": "1.5\" X 3.5\" 14PT Business Cards UV on 4-color side(s)"
    },
    {
      "product_uuid": "62192f90-f05a-4d67-80dd-078f3f4bb7f8",
      "product_code": "14PT-BCAQ-1.5X3.5",
      "product_description": "1.5\" X 3.5\" 14PT Business Cards with AQ"
    },
    {
      "product_uuid": "aaaae2989-9cc0-4057-9dec-bd66e99805b9",
      "product_code": "14PT-BCMATT-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 14PT Matte/Dull Finish Business Cards"
    },
    {
      "product_uuid": "218fa68e-134a-4dfd-9c7a-1f77f507b2f1",
      "product_code": "14PT-RBCMATT-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 14PT Matte/Dull Finish Round Corner Business Card"
    },
    {
      "product_uuid": "e9629ad0-d1c2-43cf-a629-eb90646691cc",
      "product_code": "14PT-RBCUV-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 14PT Round Corner Business Cards UV on 4-color side(s)"
    },
    {
      "product_uuid": "7efe5077-7d64-44f1-8b67-5a1d0f081225",
      "product_code": "14PTUC-BCUC-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 14PT Uncoated Business Cards"
    },
    {
      "product_uuid": "5fc51e71-9018-4f1e-bb3e-9bbe96ddac",
      "product_code": "16PT-BCSPUVBK-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 16PT Business Cards with Spot UV on back only, Full UV on the front"
    },
    {
      "product_uuid": "b542104c-1475-4bc3-b280-923c416d9f7a",
      "product_code": "16PT-BCSPUV-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 16PT Business Cards with Spot UV on both sides"
    },
    {
      "product_uuid": "2ba4bb0c-9e8b-45df-9439-91cd7de3041d",
      "product_code": "16PT-BCSPUVFR-1.75X3.5",
      "product_description": "1.75\" X 3.5\" 16PT Business Cards with Spot UV on front only, No UV Coating on the Back"
    },
    ...
  ]
}

```

Sample Request

html

```
https://api.4over.com/printproducts/categoryproductslist?category\_uuid=08a9625a-4152-40cf-9007-b2bbb349efec&size\_uuid=9ab7b563-5e4d-4bc2-a5d6-32de8b9b9e06&stock\_uuid=6f4fd47a-f70
```

Sample Response

JSON

```
{
  "size_list": [
    {
      "name": "1.5\" X 3.5\"",
      "uuid": "9ab7b563-5e4d-4bc2-a5d6-32de8b9b9e06"
    }
  ],
  "stock_list": [
    {
      "name": "14PT",
      "uuid": "6f4fd47a-f70f-4f3d-84f8-a78ef9a62a5a"
    }
  ],
  "coating_list": [
    {
      "name": "UVFR",
      "uuid": "1e8116af-acfc-44b1-83dc-8181aa338834"
    }
  ],
  "products": [
    {
      "product_uuid": "817487fd-96e8-4053-82a2-734a6e40693a",
      "product_code": "14PT-BCUVFR-1.5X3.5",
      "product_description": "1.5\" X 3.5\" 14PT Business Cards with Full UV on the front only, No UV coating on the back"
    }
  ]
}
```

API Reference

Welcome to the 4over API Reference

Hello. Welcome to the 4over API Reference. 4over endeavors to provide an API that is easy to use and easy to understand. We welcome your feedback.

Routes

All objects are accessible from the routes described in this reference.
If an object contains another object, its resource URI is provided in the response.
Authentication must be added to each route to be able to get proper response.

Retrieve Organizations

Organization Details

This route will return all Organizations associated with the authenticated user login. Each organization detail contains the resource URI to users, addresses and organization_roles associated with that organization.

The response contains the following components for each organization:

- organization_uuid: Unique identifier of the specified organization

- organization_name: Name of the specified Organization
- organization_description: Description of the specified Organization
- parent_organization: In case the organizations are nested this will identify the parent of specified Organization.
- users: Path to the users of specified Organization
- addresses: Path to the addresses associated to specified Organization
- job_code_prefix: Jobs associated with this organization will have a job number starting with this job_code_prefix.

Resource URI

GET /organizations

Sample Request

html

<https://api.4over.com/organizations>

Sample Response

```
JSON
{
entities: [
{
organization_uuid: "5f985c6b-36b5-4fb4-daae-d4e8dcdef61e",
organization_name: "Test Printers",
organization_description: "Test Printers",
parent_organization: {
organization_uuid: "d6d4e03e-7e88-4f69-9664-2e16da4da2b1",
organization_name: "API",
organization_description: "API Subscriber Organizations",
parent_organization: [
organization_uuid: "8a17ef16-d997-4544-9f7c-d313febf9c40",
organization_name: "4over, Inc.",
organization_description: "4over corporate",
users: "http://api.4over.com/organizations/8a17ef16-d997-4544-9f7c-d313febf9c40/users",
job_code_prefix: "Z"
],
users: "http://api.4over.com/organizations/d6d4e03e-7e88-4f69-9664-2e16da4da2b1/users",
job_code_prefix: ""
},
users: "http://api.4over.com/organizations/5f985c6b-36b5-4fb4-daae-d4e8dcdef61e/users",
job_code_prefix: "Z"
}
],
currentPage: 0,
maximumPages: 20
}
```

To get a specific Organization data:

Resource URI

GET /organizations/{organization_uuid}

Input Parameters

@param organization_uuid {uuid} The uuid of an Organization.

Sample Request

html

<https://api.4over.com/organizations/45514e13-b131-4c1d-b4eb-b40fbf8a3e69>

Sample Response

```
JSON
{
{
organization_uuid: "5f985c6b-36b5-4fb4-daae-d4e8dcdef61e",
organization_name: "Test Printers",
organization_description: "My Printer",
parent_organization: {
organization_uuid: "d6d4e03e-7e88-4f69-9664-2e16da4da2b1",
organization_name: "API",
organization_description: "API Subscriber Organizations",
parent_organization: [
organization_uuid: "8a17ef16-d997-4544-9f7c-d313febf9c40",
organization_name: "4over, Inc.",
organization_description: "4over corporate",
users: "http://api.4over.com/organizations/8a17ef16-d997-4544-9f7c-d313febf9c40/users",
job_code_prefix: "Z"
],
users: "http://api.4over.com/organizations/d6d4e03e-7e88-4f69-9664-2e16da4da2b1/users",
job_code_prefix: ""
},
users: "http://api.4over.com/organizations/5f985c6b-36b5-4fb4-daae-d4e8dcdef61e/users",
job_code_prefix: "Z"
}
}
```

API Key Authentication

All requests are authenticated using an API-Key authentication method.

For all GET and DELETE requests the api key and signature should be passed through the query string. For POST, PUT and PATCH requests "Authorize" or "Authorization" is passed through the header parameters, which is consisted of a public-key and a signature. The signature is generated from user's private key using bellow algorithm.

Every HTTP_METHOD will have different signature because the HMAC hash string used to generate the signature is the HTTP method type (GET, POST and etc).

GET and DELETE Requests

Authentication for GET and DELETE requests

?apikey={PUBLIC_KEY}&signature={SIGNATURE}

POST, PUT and PATCH Requests

Request Header Parameters to authenticate POST, PUT and PATCH requests

Authorization: API {PUBLIC_KEY}:{SIGNATURE}

Where the signature is generated from a hash of user's Private Key (see bellow for details on how to create the signatures)

How to create the Signature

PHP example – HMAC hash to generate signature

```
hash_hmac("sha256", HTTP_METHOD, hash('sha256', $myPrivateKey));
```

Python Example – HMAC hash to generate signature

```
private_key = hashlib.sha256(private_key).hexdigest()
signature = hmac.new(private_key, HTTP_METHOD, hashlib.sha256).hexdigest()
```

In generating signatures do not use "HTTP_METHOD" string to generate HMAC hash. Depending on your request type, the appropriate HTTP_METHOD such as "GET", "POST" and etc., should be used as the HMAC hash string to generate proper signature.

```
{html}
Authorize: API {PUBLIC_KEY}:{SIGNATURE}

{html}
Authorization: API {PUBLIC_KEY}:{SIGNATURE}
```

Create Users

Create a new user within the Organization currently logged in to the system.

Resource URI

Input Parameters

```
@param first_name {string} User's first name.
@param last_name {string} User's last name.
@param email {string} User's email address.
@param user_notes {string} Any notes associated with the User.
```

Sample Request URI

html

<https://api.4over.com/users>

Sample Request Body

JSON

```
{
  "first_name": "William",
  "last_name": "Riker",
  "email": "wriker@email.com",
  "user_notes": "Make it so numba one."
}
```

Sample Response

JSON

```
{
  "user_uuid": "17186fd9-5d39-4e81-9125-8ab55b47b9c8",
  "first_name": "William",
  "last_name": "Riker",
  "email": "wriker@email.com",
  "user_notes": "Make it so numba one."
}
```

Creating a route group

A route group defines grouping of collection of carrier routes. Total number of delivery points in a route group cannot exceed 5000.

NOTE: Available delivery_dates to limit customer date selection for possible delivery dates can be accessed via following API call:

<https://api.4over.com/dates?eddm=true>

Request:

POST /routegroups

```
{
  "name": "{NAME}",
  "description": "{DESCRIPTION}",
  "address": "{ADDRESS}",
  "city": "{CITY}",
  "state": "{STATE}",
  "zip": "{ZIP}",
  "x_coordinate": "{X_COORDINATE}",
  "y_coordinate": "{Y_COORDINATE}",
  "distance": "{DISTANCE}",
  "status": "{STATUS}",
  "latitude": "{LATITUDE}",
  "longitude": "{LONGITUDE}",
  "param_type": "{PARAM_TYPE}",
  "is_residential": "{IS_RESIDENTIAL}",
  "delivery_date": "{DELIVERY_DATE}",
  "parent_route_group": {
    "route_group_uuid": "{ROUTE_GROUP_UUID}"
  }
}
```

Response:

New Route Group

JSON

```
{
  "route_group_uuid": "",
  "name": "My New Route Group",
  "description": "This is a sample route group",
  "address": "1225 Los Angeles St",
  "city": "Glendale",
  "zip": "91202",
  "x_coordinate": "",
  "y_coordinate": "",
  "param_type": "",
  "latitude": "",
  "longitude": "",
  "is_residential": 1,
  "user": {
    "user_uuid": "9ba9665d-1766-49f8-biba-e2f457d6bf8b",
    "first_name": "First",
    "last_name": "Last"
  }
}
```

```
        "last_name": "Last",
        "email": "user@email.com",
        "user_notes": "Sample User",
        "created_at": "2014-01-02 10:06:35-08",
        "updated_at": "",
        "deleted_at": "",
        "organizations": "https://api.4over.com",
        "logins": "https://api.4over.com",
        "token": "d8e49f3738a1d38db775df763cb4533829e0fab1",
        "timestamp": "0.95550300 1400192009",
        "current_organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b"
    },
    "organization": {
        "organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
        "organization_name": "4over, Inc.",
        "organization_description": "4over corporate",
        "is_public_organization": true,
        "users": "https://api.4over.com",
        "job_code_prefix": "",
        "created_at": "2013-09-29 22:11:43.194599-07",
        "updated_at": "",
        "deleted_at": ""
    },
    "delivery_data": "2013-10-25 22:11:43.194599-07",
    "created_at": "2013-09-29 22:11:43.194599-07",
    "updated_at": "2013-09-29 22:11:43.194599-07",
    "deleted_at": ""
}
```

USPS Carrier Route Search

Search [Carrier Routes](#) from USPS by a map location value:

Getting Started

In order to use the 4over API you must first obtain a 4over API license.

4over API License

This license will give you the ability to obtain the details of the 4over products for your organization, with their options and shipping estimates.

4 over API Capabilities

A 4over Organization may add Users, view 4over Products and Options, obtain Product Pricing, obtain Shipping Quotes, place Orders with 4over, use the 4over File Service, view Order Status, register with our Pub/Sub system and much more.

More Information

If you are interested in becoming a reseller of 4over Products, please contact our Business Development team at Guideanisales@4over.com.

Adding Carrier Routes to a Route Group

Carrier routes are added to a specific route group to create a collection of route groups for a specific order. Each route group can contain one or more carrier routes. The total count for all deliver points in a route group (total count of all carrier routes) cannot exceed 5000.

Request:

POST /newtaggroups/{id}/tags/groups

ISON

```
[  
  {  
    "attributes": {  
      "fac_name": "BEVERLY HILLS",  
      "facility_name": "BEVERLY HILLS",  
      "city": "BEVERLY HILLS",  
      "state": "CA",  
      "zip": "90210",  
      "zip_crid": "90210C058",  
      "crid_id": "C058",  
      "age_20_24": 166  
      "age_25_34": 329  
      "age_35_44": 317  
      "age_45_54": 295  
      "age_55_64": 252  
      "age_65_74": 138  
      "age_75_84": 84  
      "age_gt_85": 25  
      "age_lt_19": 440  
      "avg_hh_size": 2.5999999  
      "bus_cnt": 38  
      "city": "LOS ANGELES"  
      "crid_id": "C052"  
      "drop_cnt": 0  
      "dropship_key": "Z21809"  
      "ds_key": "Z21809"  
      "faux_ind": "N"  
      "is_selected": true  
      "less_than_200_ind": "N"  
      "lt_200_ind": "N"  
      "med_age": 38  
      "med_income": "31,151"  
      "res_cnt": 919  
      "shape_length": 5591.0991640543  
      "state": "CA"  
      "status": true  
      "tot_cnt": 957  
      "zip_code": "90029"  
      "zip_crid": "90029C052"  
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    "geometry": [  
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```

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    ]
}
]
}

```

Response:

JSON

true

Create Addresses

Create a new Address for the Organization you are currently logged in with.

Resource URI

POST /organizations/{organizations_uuid}/users/{users_uuid}/contacts/{contacts_uuid}/addresses

Input Parameters

```

@RequestParam street (string) Street of the Address.
@RequestParam street2 (string) Street2 of the Address.
@RequestParam city (string) City of the Address.
@RequestParam state (string) State of the Address.
@RequestParam postal_code (string) Postal_code of the Address.
@RequestParam country (string) 2-Character country code.

@RequestParam address_uuid (uuid) UUID of the address.
@RequestParam address_type_uuid (uuid) UUID of the address type.</code>

```

Sample Request URI

html

<https://api.4over.com/organizations/7c84c952-8138-45f0-bd6b-8c31fa8c4c78/users/fa8c952-fg658138-475fu0-bd6b-8c319r4c78/contacts/8c31fa952-8138-45f0-bd6b-345kjkk38c4c78/addresses>

Sample Request Body

JSON

```
{
    "address": {
        "street": "123 1st Street",
        "street2": "",
        "city": "Los Angeles",
        "state": "CA",
        "postal_code": "12345",
        "country": "US"
    },
    "address_type": {
        "address_type": "Ship To"
    }
}
```

Sample Request Body With UUIDs

JSON

```
{  
  "address": {  
    "address_uuid": "2e15b146-d6e1-4602-9c58-ca85a40bd362"  
  },  
  "address_type": {  
    "address_type_uuid": "e06b5ba0-e460-4a11-a434-fda437ea65c3"  
  }  
}
```

Sample Response

JSON

```
{  
  "entities": [  
    {  
      "address": {  
        "address_uuid": "da4f405e-1a4a-4851-a02a-fc7a89e889a0",  
        "street": "123 1st Street",  
        "street2": "",  
        "city": "Los Angeles",  
        "state": "CA",  
        "postal_code": "12345",  
        "country": "US"  
      },  
      "address_type": {  
        "address_type_uuid": "999c5841-24f1-476f-a2d6-b31276fb04",  
        "address_type": "Primary"  
      }  
    ],  
    "currentPage": 0,  
    "maximumPages": 20  
}
```

Retrieve Files

This route returns a collection of available media to the Authenticated User.

Resource URI

GET /files

Sample Request URI

html

<https://api.4over.com/files>

Sample Response

JSON

```
{  
  "entities": [  
    {  
      "file_uuid": "044839cc-fe2c-44e8-9695-82a3003a96e4",  
      "extention": "pdf",  
      "reference_file_name": "test.pdf",  
      "uri": "http://\\dev.api.4over.com\\files\\044839cc-fe2c-44e8-9695-82a3003a96e4"  
    },  
    {  
      "file_uuid": "aa48d768-0f22-40fe-95ff-31931c2c3d78",  
      "extention": "pdf",  
      "reference_file_name": "test.pdf",  
      "uri": "http://\\dev.api.4over.com\\files\\aa48d768-0f22-40fe-95ff-31931c2c3d78"  
    },  
    {  
      "file_uuid": "bfcefbda-1d74-41b1-a2f8-1630b72aa20a",  
      "extention": "png",  
      "reference_file_name": "136691309451797046916d3.png",  
      "uri": "http://\\dev.api.4over.com\\files\\bfcefbda-1d74-41b1-a2f8-1630b72aa20a"  
    },  
    {  
      "file_uuid": "1de30b9a-4bb9-484d-b723-930aaaf6370a5",  
      "extention": "pdf",  
      "reference_file_name": "EDDM_Pub_UGRP_v2.pdf",  
      "uri": "http://\\dev.api.4over.com\\files\\1de30b9a-4bb9-484d-b723-930aaaf6370a5"  
    },  
    {  
      "file_uuid": "9029cac0-c9ae-45bb-a6b8-aa3bb1fb3cf1",  
      "extention": "png",  
      "reference_file_name": "demo_files.png",  
      "uri": "http://\\dev.api.4over.com\\files\\9029cac0-c9ae-45bb-a6b8-aa3bb1fb3cf1"  
    }  
  ],  
  "currentPage": 1,  
  "maximumPages": 1  
}
```

This route returns the binary content of specified file resource specified by the UUID.

Resource URI

GET /files/{file_id}

@param file_id {uuid} UUID of file

Sample Request URI

html

<https://api.4over.com/files/3a886626-63f9-4f1c-9c1e-7c8e04c245d7>

Sample Response

text

The file will be returned in the response.

Shipping Service

Retrieve Quantity Discounts

Quantity Discount service provides details of discounts applied to multiple set orders. Quantity discounts apply only to orders with multiple sets where all sets have the same product, runsize, colorspec and turnaround time.

Resource URI

```
GET /printproducts/products/{product_uuid}/quantitydiscounts
```

Input Parameters

@param product_uuid {uuid} UUID of a Product.

Sample Request URI

html

```
https://api.4over.com/printproducts/products/86bf5654-4d7a-4032-aece-7692e02425cb/quantitydiscounts
```

The response contains the product details including product, runsize, colorspec and the range of set-numbers where discount applies to.

Sample Response

JSON

```
[  
  "entities": [  
    {  
      quantity_discount_percentage: "0.07",  
      quantity_discount_uuid: "9e0becb5-f1ff-47f7-9403-bbbb74e0c93f",  
      quantity: "4-9",  
      runsizeid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",  
      runsize: "1000",  
      colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",  
      colorspec: "4/0",  
      product_uuid: "86bf5654-4d7a-4032-aece-7692e02425cb",  
      product_code: "14PT-BCMATT-3.5X4"  
    },  
    {  
      quantity_discount_percentage: "0.07",  
      quantity_discount_uuid: "6003ccb7-9ab-405b-8331-a386411e0fa0",  
      quantity: "4-9",  
      runsizeid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",  
      runsize: "1000",  
      colorspec_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",  
      colorspec: "4/1",  
      product_uuid: "86bf5654-4d7a-4032-aece-7692e02425cb",  
      product_code: "14PT-BCMATT-3.5X4"  
    },  
    {  
      quantity_discount_percentage: "0.07",  
      quantity_discount_uuid: "4131845e-ad11-40f9-892c-bf3e0e4524e3",  
      quantity: "4-9",  
      runsizeid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",  
      runsize: "1000",  
      colorspec_uuid: "13abbda7-1d64-4f25-8bb2-c179b224825d",  
      colorspec: "4/4",  
      product_uuid: "86bf5654-4d7a-4032-aece-7692e02425cb",  
      product_code: "14PT-BCMATT-3.5X4"  
    },  
    ...  
  ]  
]
```

A specific Quantity Discount can be requested by providing runsize_uuid, colorspec_uuid and quantity in the querystring.

Resource URI

```
GET /printproducts/products/{product_uuid}/quantitydiscounts?runsize_uuid={runsize_uuid}&colorspec_uuid={colorspec_uuid}&qty={set-count}
```

Input Parameters

@param product_uuid {uuid} UUID of a Product.

@param runsize_uuid {uuid} UUID of a Runsize.

@param colorspec_uuid {uuid} UUID of a Colorspec.

@param set_count {integer} Number of sets Quantity Discount to be applied.

Sample Request URI

html

```
https://api.4over.com/printproducts/products/86bf5654-4d7a-4032-aece-7692e02425cb/quantitydiscounts?runsize_uuid=52e3d710-0e8f-4d4d-8560-7d4d8655be69&colorspec_uuid=32d3c223-f82c-
```

The response contains the product details including product, runsize, colorspec and the range of set-numbers where discount applies to.

Sample Response

JSON

```
[  
  "entities": [  
    {  
      quantity_discount_percentage: "0.07",  
      quantity_discount_uuid: "9e0becb5-f1ff-47f7-9403-bbbb74e0c93f",  
      quantity: "4-9",  
      runsizeid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",  
      runsize: "1000",  
      colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",  
      colorspec: "4/0",  
      product_uuid: "86bf5654-4d7a-4032-aece-7692e02425cb",  
      product_code: "14PT-BCMATT-3.5X4"  
    }  
  ]  
]
```

Authentication

All 4over API requests are authenticated using a public key and a signature.

Create Logins

Create a new Login credentials for a user and a specific Login Provider.

Resource URI

POST /logins

Input Parameters

```
@param user_uuid {uuid} UUID of a User.  
@param login_provider_uuid {uuid} UUID of a login_provider.  
@param public {string} public key such as email address used as username.  
@param private {string} private key such as API key or a password set according to login_provider.
```

Sample Request URI

html

<https://api.4over.com/logins>

Sample Request Body

JSON

```
{  
  "user": {  
    "user_uuid": ""  
  },  
  "login_provider": {  
    "login_provider_uuid": ""  
  },  
  "public": "{PUBLIC}",  
  "private": "{PRIVATE}"  
}
```

Sample Response

JSON

```
{  
  entities: [  
    {  
      "login_provider": {  
        "login_provider_uuid": "4aeb9ab8-a370-4e5c-a0a2-5b7a42af0239",  
        "login_provider": "email"  
      },  
      "user": {  
        "user_uuid": "2d87c1d8-668f-45f9-b739-925f8b7d8500",  
        "first_name": "A_name",  
        "last_name": "A_lastname",  
        "email": "johndoe@email.com",  
        "user_notes": "",  
        "default_organization": {  
          "organization_uuid": "2834767c-d7cb-4cb3-b5c4-bee92244ba3b",  
          "organization_name": "4Over, Inc.",  
          "organization_description": "4Over Inc is awesome!",  
          "parent_organization": "",  
          "users": "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/users",  
          "addresses": "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/addresses",  
          "organization_roles": "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/roles",  
          "customer_id": "195021"  
        },  
        "organizations": "https://api.4over.com/users/2d87c1d8-668f-45f9-b739-925f8b7d8500/organizations",  
        "logins": "http://api.4over.com/users/2d87c1d8-668f-45f9-b739-925f8b7d8500/logins",  
        "current_organization_uuid": "2834767c-d7cb-4cb3-b5c4-bee92244ba3b"  
      },  
      "public": "johndoe@email.com"  
    },  
    {  
      "login_provider": {  
        "login_provider_uuid": "11137f2d-ecf2-4b1f-8f68-3c5a37c2f469",  
        "login_provider": "Email"  
      },  
      "user": {  
        "user_uuid": "1d2cce36-655b-4570-b766-7e5b125a06f1",  
        "first_name": "wergq",  
        "last_name": "ewe",  
        "email": "wero",  
        "user_notes": "wrge",  
        "default_organization": "",  
        "organizations": "https://api.4over.com/users/1d2cce36-655b-4570-b766-7e5b125a06f1/organizations",  
        "logins": "https://api.4over.com/users/1d2cce36-655b-4570-b766-7e5b125a06f1/logins",  
        "current_organization_uuid": ""  
      },  
      "public": "test@test.com"  
    },  
    ...  
  ]
```

USPS Carrier Route Search by Zip

Request:

POST /search/zip

```
{  
  "zip": "91202"  
}
```

Response:

USPS Carrier Route Response

```
[  
  {  
    "attributes": {  
      "fac_name": "BEVERLY HILLS",  
      "facility_name": "BEVERLY HILLS",  
      "city": "BEVERLY HILLS",  
      "state": "CA",  
      "zip": "90210",  
      "zip_crld": "90210C058",  
      "crld_id": "C058",  
      "age_20_24": 166  
      "age_25_34": 329  
      "age_35_44": 317  
      "age_45_54": 295  
      "age_55_64": 252  
      "age_65_74": 138  
      "age_75_84": 84  
    }  
  }]
```

"age_gt_85": 25
"age_lt_19": 440
"avg_hh_size": 2.5999999
"bus_cnt": 38
"city": "LOS ANGELES"
"crid_id": "C052"
"drop_cnt": 0
"dropship_key": "Z21809"
"ds_key": "Z21809"
"faux_ind": "N"
"is_selected": true
"less than 200 ind": "N"
"lt_200_ind": "N"
"med_age": 38
"med_income": "31,151"
"res_cnt": 919
"shape_length": 5591.0991640543
"state": "CA"
"status": true
"tot_cnt": 957
"zip_code": "90029"
"zip_crid": "90029C052"
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        ]
    ]
```

Create Order

POST New Orders

This route submits a new order and places it in User's shopping cart. An order is consisted of one or more jobs. Each job is constructed by series of UIDs and shipping data. Ship_from address is required when a job is drop-shipped.

All files must be identified by appropriate file-reason code. For more details about files and file reason codes please see Services/File Services section.

For ship-to and ship-from (if drop-ship is set to TRUE) addresses, either company name or both first and last name of the contact person are required. Presence of all three is also acceptable.

Resource URI

POST /orders

Input Parameters

```

@param order_id {String} order_id specified by the API user. (Required)
@param is_test_order {boolean} allows the user to submit test orders. Orders with is_test_order set to TRUE will not go to production. (Optional and default is set to FALSE)
@param display_breakdown_prices {string} (Optional) // job, order, all. (If display_breakdown_prices=job then it return cost breakdowns at the Job level in the response).
@param coupon_code {string} allows user to pass a coupon-code that will apply to any resources qualified in the order based on coupon rules. Only one coupon per order is allowed
@param skip_conformation {boolean} By setting this flag to TRUE the system will bypass conformation. If the flag is set to FALSE, an e-mail containing a HTML preview link is email
@param job_name {string} Job name. (Required)
@param product_uuid {uuid} UUID of product. (Required)
@param runsize_uuid {uuid} UUID of runsize option. (Required)
@param turnaroundtime_uuid {uuid} UUID of turnaround time. (Optional - If not submitted, shortest free turnaround time will be selected)
@param colorspec_uuid {uuid} UUID of colorspec option. (Required)
@param dropship {boolean} flag to identify if the job is being drop shipped. (Required)
@param skip_files {boolean} allows order submission without files. Files can be submitted later when the order comes in with this flag set to TRUE. (Optional)
@param files {string} URI to location of files or UUID of files POST-ed to 4over server. If skip_files is set to TRUE this parameter can be omitted. (Optional)
@param company {string} Ship to Company Name. (Required if firstname and lastname are not provided)
@param firstname {string} Ship to First Name. (Required if company is not provided)
@param lastname {string} Ship to Last Name. (Required if company is not provided)
@param email {string} Ship to Email. (optional)
@param phone {string} Ship to Phone Number. (Required)
@param address {string} Ship to address line. (Required)
@param address2 {string} Ship to address2 line. (Optional)
@param city {string} Ship to city. (Required)
@param state {string} Ship to state. (Required)
@param zipcode {string} Ship to zipcode. (Required)
@param country {string} Ship to country. (Required)
@param company {string} Ship from Company Name. (Required if ship-from present and firstname and lastname are not provided)
@param firstname {string} Ship from First Name. (Required if ship-from present and company is not provided)
@param lastname {string} Ship from Last Name. (Required if ship-from present and company is not provided)
@param email {string} Ship from Email. (optional if ship-from is present)
@param phone {string} Ship from Phone Number. (Required if ship-from is present)
@param address {string} Ship from address line. (Required if ship-from is present)
@param address2 {string} Ship from address2 line. (optional if ship-from is present)
@param city {string} Ship from city. (Required if ship-from is present)
@param state {string} Ship from state. (Required if ship-from is present)
@param zipcode {string} Ship from zipcode. (Required if ship-from is present)
@param country {string} Ship from country. (Required if ship-from is present)
@param ship_from_facility {string} Facility code of the production facility where the job will be shipped from. (RECOMMENDED to leave this parameter blank. Blank facility-code me

```

Sample Request URI

html

<https://api.4over.com/orders>

Sample Request Body

NOTE:

Group-Shipping is available for same type products with the same stock, colorspec, coating and runsize. The base price route provides a "can_group_ship" flag to let users know what products are qualified for group-shipping.

In sample request below "job001-001" and "job001-002" are grouped together for group-shipping and "job002-001", "job002-002" and "job002-003" are grouped as a separate group-shipping job.

JSON

```
{
  "order_id": "test001",
  "is_test_order": "true",
  "display_breakdown_prices": "job",
  "coupon_code": "PRC5PKS",
  "skip_conformation": "true",
  "jobs": [
    {
      "product_uuid": "91effff4d-de64-410a-8794-fc547022a7f2",
      "runsize_uuid": "52e3d710-0e8f-4dd4-8560-7d4d8655be69",
      "option_uuids": [],
      "turnaroundtime_uuid": "50979118-b3a2-4556-9f46-d1da268f2354",
      "colorspec_uuid": "13abbd7-1d64-4f25-8bb2-c179b224825d",
      "dropship": "true",
      "sets": 2,
      "skip_files": false,
      "files": {
        "set_001": {
          "job_name": "job001-001",
          "files": {
            "fr": "5a2e207c-8a97-42a3-9b17-1e4899eae9ac",
            "bk": "d04410f-003e-4b32-8039-f6d590728f5b"
          }
        },
        "set_002": {
          "job_name": "job001-002",
          "files": {
            "fr": "8b0fd851-7f13-4700-a35a-baff123eecfe",
            "bk": "3d71bf4a-a799-4dfb-ac90-8fea5f97b608"
          }
        }
      },
      "ship_to": {
        "company": "My Print Company",
        "firstname": "James",
        "lastname": "Doe",
        "email": "james.doe@abcd_company.com",
        "phone": "888-888-8888",
        "address": "8900 Executive Park Drive",
        "address2": "",
        "city": "Knoxville",
        "state": "TN",
        "zipcode": "37923",
        "country": "US"
      },
      "ship_from": {
        "company": "My Print Company",
        "firstname": "Mike",
        "lastname": "Doe",
        "email": null,
        "phone": "888-888-8888",
        "address": "100 CUMMINGS CTR",
        "address2": null,
        "city": "BEVERLY",
        "state": "MA",
        "zipcode": "01915",
        "country": "US"
      },
      "shipper": {
        "shipping_method": "FREE UPS Ground",
        "shipping_code": "03f"
      },
      "ship_from_facility": ""
    },
    {
      "product_uuid": "91effff4d-de64-410a-8794-fc547022a7f2",
      "runsize_uuid": "52e3d710-0e8f-4dd4-8560-7d4d8655be69",
      "option_uuids": [],
      "turnaroundtime_uuid": "50979118-b3a2-4556-9f46-d1da268f2354",
      "colorspec_uuid": "13abbd7-1d64-4f25-8bb2-c179b224825d",
      "dropship": "true",
      "sets": 3,
      "skip_files": false,
      "files": {
        "set_001": {
          "set_001": {
            "job_name": "job002-001"
          }
        }
      }
    }
  ]
}
```

```

"job_name": "job002-001",
"files": {
  "fr": "62a7d70a-3b38-45a8-9327-e10a9c4057df",
  "bk": "ef45e3ff-2f3c-415c-8c63-4f5e3f290e8d"
},
},
"set_002": {
"job_name": "job002-002",
"files": {
  "fr": "bad3efad7-2e72-4a5e-87ec-d8bad3ef0359",
  "bk": "f9ead3ef0-b0de-4033-ad6d-aal5aa8c2555"
},
},
"set_003": {
"job_name": "job002-003",
"files": {
  "fr": "3830c3ee-72e4-46d7-8d0d-aad3ef77ccf1",
  "bk": "bd380570-135d-47fd-9411-b3ead3ef99d8"
}
},
"ship_to": {
"company": "My Test Company",
"firstname": "Maria",
"lastname": "Doe",
"email": "maria.doe@abcd_company.com",
"phone": "888-888-8888",
"address": "8900 Executive Park Drive",
"address2": null,
"city": "Knoxville",
"state": "TN",
"zipcode": "37923",
"country": "US"
},
"ship_from": {
"company": "My Print Company",
"firstname": "Mike",
"lastname": "Doe",
"email": null,
"phone": "888-888-8888",
"address": "100 CUMMINGS CTR",
"address2": null,
"city": "BEVERLY",
"state": "MA",
"zipcode": "01915",
"country": "US"
},
"shipper": {
"shipping_method": "FREE UPS Ground",
"shipping_code": "03F"
},
"ship_from_facility": ""
},
],
"payment": {
"profile_token": "xxxxxxxxxx"
}
}
}

```

Sample Response

JSON

```
{
"order_status": "Success",
"customer_order_id": "test001",
"job_ids": {
"X8291118499-001": {
"customer_job_id": "job001-001",
"status": 200,
"messages": []
},
"X8291118499-002": {
"customer_job_id": "job001-002",
"status": 200,
"messages": []
},
"X8291118499-003": {
"customer_job_id": "job002-001",
"status": 200,
"messages": []
},
"X8291118499-004": {
"customer_job_id": "job002-002",
"status": 200,
"messages": []
},
"X8291118499-005": {
"customer_job_id": "job002-003",
"status": 200,
"messages": []
},
"payment_response": {
"payment_uuid": "e58bee7f-0b57-4214-9e2a-33d683e7fe9f",
"payment_provider": {
"payment_provider_uuid": "6b0e699e-bdaf-4d1e-af4c-bc422ad21761",
"payment_provider": "Authorizenet",
"created_at": "2013-11-05 11:33:51-08"
},
"requested_amount": "119.70",
"requested_currency": {
"currency_code": "USD",
"currency": "United States dollar",
"currency_number": "840",
"created_at": "2013-09-30 09:27:22.689216-07"
},
"request_transaction_code": "12345678920",
"request_data": "",
"requested_at": "2018-10-18T18:06:19+0000",
"response_transaction_code": "12345678920",
"response_data": {
"card_number": "XXXX1111",
"card_type": "Visa",
"response_message": "This transaction has been approved."
},
"responded_at": "2018-10-18T18:06:19+0000",
"authorization_code": "ABCDEF",
"authorized_at": "2018-10-18T18:06:19+0000",
"authorized_payment_amount": "119.70",
"authorized_refund_amount": 0,
"authorized_currency": {
"currency_code": "USD",
"currency": "United States dollar",
"currency_number": "840",
"created_at": "2013-09-30 09:27:22.689216-07"
},
"paying_organization": {
"organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989",
"
```

```

"organization_name": "4over",
"organization_description": "4over Website - Trade Ultra",
"job_code_prefix": "KV",
"is_public_organization": true,
"primary_contact_user": {
"user_uuid": "d44fa923-d567-48ed-aa3a-9c02a98bcee6",
"first_name": "Admin User",
"last_name": "API",
"email": "",
"user_notes": "admin user",
"created_at": "2014-03-18 12:33:43.387423-07",
"updated_at": "2015-07-06 10:29:18.338875-07",
"deleted_at": "",
"organizations": "https://sandbox-api.4over.com/users/d44fa923-d567-48ed-aa3a-9c02a98bcee6/organizations",
"logins": "https://sandbox-api.4over.com/users/d44fa923-d567-48ed-aa3a-9c02a98bcee6/logins",
"token": "5ec64e06d3877374fd15c2aae94cea3d07b83e10",
"timestamp": "0.09669000 1539885980",
"current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
},
"parent_organization": {
"organization_uuid": "8a17ef16-d997-4544-9f7c-d313feb9c40",
"organization_name": "4over root",
"organization_description": "4over root",
"job_code_prefix": "KV",
"is_public_organization": true,
"primary_contact_user": {
"user_uuid": "cb51b9fc-6a6e-4b98-885f-5d21041c1403",
"first_name": "Jane",
"last_name": "Doe",
"email": "fake@4over.com",
"user_notes": "test",
"created_at": "2012-09-10 07:00:00.000000+0000",
"updated_at": "2018-05-31 15:48:19.140525-07",
"deleted_at": "",
"organizations": "https://sandbox-api.4over.com/users/cb51b9fc-6a6e-4b98-885f-5d21041c1403/organizations",
"logins": "https://sandbox-api.4over.com/users/cb51b9fc-6a6e-4b98-885f-5d21041c1403/logins",
"token": "47a11796c675bde6e3215239cd1a4c76255e854",
"timestamp": "0.09683600 1539885980",
"current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
}
},
"paying_user": {
"user_uuid": "0e153dc0-9b7b-47e8-8cf8-e50d88817ffb",
"first_name": "Test",
"last_name": "Tester",
"email": "fake@4over.com",
"user_notes": "testing",
"created_at": "2013-08-26 07:00:00.000000+0000",
"updated_at": "2018-05-31 15:48:19.773569-07",
"deleted_at": "",
"organizations": "https://sandbox-api.4over.com/users/0e153dc0-9b7b-47e8-8cf8-e50d88817ffb/organizations",
"logins": "https://sandbox-api.4over.com/users/0e153dc0-9b7b-47e8-8cf8-e50d88817ffb/logins",
"token": "19253d572c6db795b4aab846135218587c065b",
"timestamp": "0.09695700 1539885980",
"current_organization_uuid": "a4377724-8819-4a96-bc2b-3877b269f989"
},
"created_at": "2018-10-18T18:06:19+0000"
},
"payment_type": "authnet",
"job_cost_breakdown": {
"X4683057958-001": {
"product_price": "28.87",
"option_price": "0.00",
"turnaround_price": "2.96",
"product_tax": "2.94",
"shipping_price": "0.00",
"shipping_tax": "0.00",
"postage_price": "0.00",
"postage_tax": "0.00"
},
"X4683057958-002": {
"product_price": "28.87",
"option_price": "0.00",
"turnaround_price": "2.96",
"product_tax": "2.94",
"shipping_price": "0.00",
"shipping_tax": "0.00",
"postage_price": "0.00",
"postage_tax": "0.00"
},
"X4683057958-003": {
"product_price": "28.87",
"option_price": "0.00",
"turnaround_price": "2.96",
"product_tax": "2.94",
"shipping_price": "0.00",
"shipping_tax": "0.00",
"postage_price": "0.00",
"postage_tax": "0.00"
},
"X4683057958-004": {
"product_price": "28.87",
"option_price": "0.00",
"turnaround_price": "2.96",
"product_tax": "2.94",
"shipping_price": "0.00",
"shipping_tax": "0.00",
"postage_price": "0.00",
"postage_tax": "0.00"
},
"X4683057958-005": {
"product_price": "28.87",
"option_price": "0.00",
"turnaround_price": "2.96",
"product_tax": "2.94",
"shipping_price": "0.00",
"shipping_tax": "0.00",
"postage_price": "0.00",
"postage_tax": "0.00"
}
}
}

```

****If there are any failed jobs, the response will show either "Warning" or "Failed" for "order_status" and will appear as shown below:**

If "order_status" is Warning or Failed, you have jobs that did not go through. Jobs in the "job_ids" array are the Successful jobs and do not need to get sent again. Any jobs in the "errors" array DO need to get fixed and resent to the order API.

```
{
"order_status": "Warning",
"job_ids": [
{
"internal_id": "X6327136040-001",
"customer_job_id": "93cc6db6-acd7-11e6-8635-0242ac110003-corporate"
},
...
"errors": [

```

```

    "customer_order_id": "123456",
    "customer_job_id": "YOUR_JOB_ID",
    "internal_id": "Z12345678",
    "message": "ERROR MESSAGE WILL GO HERE",
    "job_status": "Failed"
}
]
}

```

Retrieve Users

This route will return all the Users in an Organization.

Resource URI

GET /organization/{organization_uuid}/users

<h3>Input Parameters</h3>

@param organization_uuid {uuid} The UUID of an Organization.

Sample Request

html

<https://api.4over.com/organizations/17186fd9-5d39-4e81-9125-8ab55b47b9c8/users>

Sample Response

JSON

```
{
  entities: [
    {
      user_uuid: "7a24c26e-7450-438a-a9c9-b4591dc3ed83",
      first_name: "Will",
      last_name: "Morgan",
      email: "willm@4over.com",
      user_notes: "dsv",
      default_organization: "",
      organizations: "https://api.4over.com/users/7a24c26e-7450-438a-a9c9-b4591dc3ed83/organizations",
      logins: "https://api.4over.com/users/7a24c26e-7450-438a-a9c9-b4591dc3ed83/logins",
      current_organization_uuid: ""
    },
    {
      user_uuid: "9ff9336c-684a-4894-bf68-79018f67b700",
      first_name: "Ramsey",
      last_name: "Elallamy",
      email: "ramzeye@4over.com",
      user_notes: "Ramsey Elallamy",
      default_organization: {
        organization_uuid: "2834767c-d7cb-4cb3-b5c4-bee92244ba3b",
        organization_name: "4Over, Inc.",
        organization_description: "4Over Inc is awesome!",
        parent_organization: "",
        users: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/users",
        addresses: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/addresses",
        organization_roles: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/roles",
        customer_id: "195021"
      },
      organizations: "https://api.4over.com/users/9ff9336c-684a-4894-bf68-79018f67b700/organizations",
      logins: "https://api.4over.com/users/9ff9336c-684a-4894-bf68-79018f67b700/logins",
      current_organization_uuid: "2834767c-d7cb-4cb3-b5c4-bee92244ba3b"
    }
  ]
}
```

Get a User by UUID

Resource URI

This route will return all details of a User.

GET /user/{user_uuid}

Input Parameters

@param user_uuid {uuid} The UUID of a User.

Sample Request

html

<https://api.4over.com/users/eefcc688-25bc-44fa-9831-a9dbd90b9f79>

Sample Response

JSON

```
{
  user_uuid: "eefcc688-25bc-44fa-9831-a9dbd90b9f79",
  first_name: "egrger",
  last_name: "egrger",
  email: "egrger",
  user_notes: "erwg",
  default_organization: {
    organization_uuid: "2834767c-d7cb-4cb3-b5c4-bee92244ba3b",
    organization_name: "4Over, Inc.",
    organization_description: "4Over Inc is awesome!",
    parent_organization: "",
    users: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/users",
    addresses: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/addresses",
    organization_roles: "https://api.4over.com/organizations/2834767c-d7cb-4cb3-b5c4-bee92244ba3b/roles",
    customer_id: "195021"
  },
  organizations: "https://api.4over.com/users/eefcc688-25bc-44fa-9831-a9dbd90b9f79/organizations",
  logins: "https://api.4over.com/users/eefcc688-25bc-44fa-9831-a9dbd90b9f79/logins",
  current_organization_uuid: "2834767c-d7cb-4cb3-b5c4-bee92244ba3b"
}
```

Create Files

Route to create a new file resource. File resources will get attached to jobs in order detail using file reason codes to identify the purpose of the file in production steps. Paths for a file resource could either be a full URL to the file resource or a FTP path, including the username and password.

An optional pre-flighting service is available for all POSTed files. File POST can include a "preflight" parameter set to "true" to trigger 4over's pre-flighting engine to pre-flight the file and return appropriate response(s).

Pre-flight requests could include product size, bleed and safe data in the request which will notify the service to respond with more details to allow the user to create their own safe and bleed lines on the preview images.

If no "preflight" flag is set or the flag value is set to 'false', file is uploaded without pre-flighting.

Here is a list of possible pre-flighting messages and message-codes:

Key : Value

```
"101": "Fonts Issue"  
"101": "Font is not embedded"  
"102": "Images below 250 dpi"  
"103": "Object uses RGB"  
"104": "Pantone colors used"  
"105": "Some objects are set to overprint"  
"106": "Page is empty"  
"107": "2 pages PDF"  
"107": "Multipage PDF"  
"108": "Transparency used (filled object with ca value smaller than 1.0)"  
"108": "Transparency used (blend mode not \"Normal\" nor \"Compatible\")"  
"108": "Transparency used (transparency group)"  
"108": "Transparency used (soft mask in image)"  
"109": "Image ink coverage above 390%"  
"501": "Unable to download file for processing"  
"502": "File is encrypted and cannot be processed"  
"110": "Font not embedded {specific font}"  
"500": Generic error code that means "An Internal Error Occured" or "Could Not Process File"
```

Resource URI

POST /files

Input Parameters

```
@param path {string} Path to resource file (http, https or ftp paths)  
@param preflight {boolean} (optional) set to "true"  
@param width {decimal} width of the order posted  
@param height {decimal} height of the order posted  
@param bleed {decimal} bleed size of the order posted (Optional)  
@param safe {decimal} safe area of the order posted (Optional)
```

POST Files Without Preflight:

JSON

```
{  
  "path": ["ftp://username:password@server/filepath"]  
}
```

OR

JSON

```
{  
  "path": ["http://url.com/file/path/filename.pdf"]  
}
```

Sample Response – Without Preflight

JSON

```
{  
  "files": [  
    {  
      "file_uuid": "37b68f92-7fac-4585-933f-852582d961eb",  
      "extension": "pdf",  
      "reference_file_name": "sample_front_preflight.pdf",  
      "uri": "http://api.4over.com/files/37b68f92-7fac-4585-933f-852582d961eb"  
    }  
  ]  
}
```

POST With Preflight Request (Not Including Box Data):

JSON

```
{  
  "path": [  
    "http://xyz.your_url.com/final_front.png",  
    "http://xyz.your_url.com/final_back.png"  
  ],  
  "preflight": true  
}
```

Sample Response – With Preflight Request (Not Including Box Data):

JSON

```
{  
  "files": [  
    {  
      "status": "warning",  
      "pdf_uuid": "7c8fe4a3-c82f-47c6-9d85-cf54170854f3",  
      "pdf_uri": "http://api.4over.com/files/7c8fe4a3-c82f-47c6-9d85-cf54170854f3",  
      "customer_filename": "final_front.png",  
      "customer_file": "http://api.4over.com/files/dcb4b584-2286-4ac2-a1e9-1f18daf0299b",  
      "preview_uuid": "addc7346-7382-4786-9b48-6c90f091de0c",  
      "preview_uri": "http://api.4over.com/files/addc7346-7382-4786-9b48-6c90f091de0c",  
      "message": {  
        "102": "Images below 250 dpi",  
        "103": "Object uses RGB",  
        "108": "Transparency used (soft mask in image)"  
      },  
      {  
        "status": "fail",  
        "message": {  
          "501": "Unable to download file for processing"  
        }  
      }  
    }  
  ]  
}
```

POST with pre-flight request (Including Box Data):

JSON

```
{  
  "path": [  
    "http://xyz.your_url.com/final_front.png",  
    "http://xyz.your_url.com/final_back.png"  
,  
  "preflight": true,  
  "width": 3.5,  
  "height": 2,  
  "bleed": 0.125,  
  "safe": 0.125  
}
```

Sample Response – With Pre-Flight request (Including Box Data):

JSON

```
{  
  "files": [  
    {  
      "box_dimensions": {  
        "bleedbox": {  
          "width": "680",  
          "height": "398.62068965517"  
        },  
        "safebox": {  
          "width": "633.10344827586",  
          "height": "351.72413793103"  
        },  
        "trimbox": {  
          "width": "656.55172413793",  
          "height": "375.1724137931"  
        },  
        "preview_imagebox": {  
          "width": "948.35249042146",  
          "height": "1563.2183908046"  
        }  
      },  
      "status": "warning",  
      "pdf_uuid": "e0707684-b6f1-4eff-a132-a0a4f75d023f",  
      "pdf_uri": "http://api.4over.com/files/e0707684-b6f1-4eff-a132-a0a4f75d023f",  
      "customer_filename": "final_front.png",  
      "customer_file": "http://api.4over.com/files/dcb4b584-2286-4ac2-a1e9-1f18daf0299b",  
      "preview_uuid": "375e509a-5de0-4ace-90fb-9595fd7d9489",  
      "preview_uri": "http://api.4over.com/files/375e509a-5de0-4ace-90fb-9595fd7d9489",  
      "message": {},  
      "102": "Images below 250 dpi",  
      "107": "Multipage PDF"  
    },  
    {  
      "box_dimensions": {  
        "bleedbox": {  
          "width": "680",  
          "height": "398.62068965517"  
        },  
        "safebox": {  
          "width": "633.10344827586",  
          "height": "351.72413793103"  
        },  
        "trimbox": {  
          "width": "656.55172413793",  
          "height": "375.1724137931"  
        },  
        "preview_imagebox": {  
          "width": "948.35249042146",  
          "height": "1563.2183908046"  
        }  
      },  
      "status": "success",  
      "pdf_uuid": "b81c8e11-e8d3-4ee4-85d1-d47e9c969130",  
      "pdf_uri": "http://api.4over.com/files/b81c8e11-e8d3-4ee4-85d1-d47e9c969130",  
      "customer_filename": "final_back.png",  
      "customer_file": "http://api.4over.com/files/dcb4b584-2286-4ac2-a1e9-1f18daf0299b",  
      "preview_uuid": "6133323f-a548-4bcc-b431-ad8d609d5f35",  
      "preview_uri": "http://api.4over.com/files/6133323f-a548-4bcc-b431-ad8d609d5f35"  
    }  
  ]  
}
```

POSTs With Box Dimension Data and Failed Preflight

JSON

```
{  
  "files": [  
    {  
      "box_dimensions": {  
        "bleedbox": {  
          "width": "680",  
          "height": "398.62068965517"  
        },  
        "safebox": {  
          "width": "633.10344827586",  
          "height": "351.72413793103"  
        },  
        "trimbox": {  
          "width": "656.55172413793",  
          "height": "375.1724137931"  
        },  
        "preview_imagebox": {  
          "width": "0",  
          "height": "0"  
        }  
      },  
      "status": "Fail",  
      "message": {  
        "501": "Unable to download file for processing"  
      }  
    }  
  ]  
}
```

Product Quote Service

Product Quote Service is a service that allows the user to get quick price quotes including base price and all option prices. Price Quote service including runsize, colorspec, turnaround-time and any finishing options that could apply to the product.

If the combination of the product and options does not exist the service will return a 404 error.

Retrieve Addresses

This route will return addresses for the authenticated user contact.
It does not validate addresses and will not return addresses unless those addresses have been added to the address book.

Resource URI

This route will return specified user's specific contact's addresses.

```
GET organizations/{organization_uuid}/users/{user_uuid}/contacts/{contact_uuid}/addresses
```

Sample Request

html

```
http://api.4over.com/organizations/8e404523-3658-4926-81cd-b1221b44027d/users/227f009c-645b-48a5-afdb-6138ae75e060/contacts/742c7b60-25e6-4c81-a9b7-6739853c6eb1/addresses
```

Sample Response Body

JSON

```
{
  entities: [
    {
      organization_contact_address_uuid: "658c28c2-b024-4c0a-8139-84ac9fa4a406",
      address: {
        address_uuid: "220d12c3-6872-4bd2-bd99-15d89e155f15",
        street: "2035 Main Str.",
        street2: "",
        city: "Santa Barbara",
        state: "CA",
        postal_code: "95221",
        country: "US"
      },
      address_type: {
        address_type_uuid: "d676657c-9f19-4230-85a3-e90f73669983",
        address_type: "Ship To"
      }
    },
    {
      organization_contact_address_uuid: "97dd2105-325d-44b0-8631-a6b8314c62ac",
      address: {
        address_uuid: "220d12c3-6872-4bd2-bd99-15d89e155f15",
        street: "2035 Main Str.",
        street2: "",
        city: "Santa Barbara",
        state: "CA",
        postal_code: "95221",
        country: "US"
      },
      address_type: {
        address_type_uuid: "872f416f-9bae-4334-b9ba-fa39798691a7",
        address_type: "Default Ship To"
      }
    },
    {
      organization_contact_address_uuid: "b2bbb501-a733-475d-826d-15e9000f6b75",
      address: {
        address_uuid: "220d12c3-6872-4bd2-bd99-15d89e155f15",
        street: "7085 West Broadway St.",
        street2: "",
        city: "San Diego",
        state: "CA",
        postal_code: "95421",
        country: "US"
      },
      address_type: {
        address_type_uuid: "218eef26-84d2-4cc0-9d67-f4eda9711ab8",
        address_type: "Default Ship From"
      }
    },
    {
      organization_contact_address_uuid: "56fb15d7-b6e6-4f82-b954-97d69703e6d8",
      address: {
        address_uuid: "220d12c3-6872-4bd2-bd99-15d89e155f15",
        street: "7085 West Broadway St.",
        street2: "",
        city: "San Diego",
        state: "CA",
        postal_code: "95421",
        country: "US"
      },
      address_type: {
        address_type_uuid: "ea3725bf-2fe6-449c-9b7b-ecc2e622e27f",
        address_type: "Default"
      }
    }
  ],
  currentPage: 0,
  maximumPages: 20
}
```

Retrieve Order Status

Order Status

This route reports back the status history of the specified job. The status history are sorted by date starting with the current status.

Possible Status/UUIDs

Status UUID | Description

```
0ac85e2d-1cb5-40d0-bffc-f84e174c629f | New
59761840-0cc0-4cc7-b206-f09c476f9a85 | Awaiting Artwork
16267906-e68a-43cb-9730-9a1867e9455c | Order Pending
c769c3b6-4af3-4e53-81db-f13dd03c6db9 | Pre-Flighting
58887039-462a-4280-bc53-e81f2e04e1b0 | Batch Prep
7bed2753-e9aa-4bf9-b32d-704a845ba3ec | Batch Prep
036df273-7a58-4f83-8706-e1d4798cebb7 | Awaiting Preview Approval
64c8ccb2-86cc-4bdf-a427-6a0640227494 | Batch Prep
cbf4e3c5-a2c1-4a79-b50a-9a88a9c713d5 | On Hold: Awaiting Group Artwork and/or Approval
f17cb3eb-1a4a-4a12-9f95-e03af2362d8 | Batch Prep
5c5e57c9-b625-4097-9880-d575a3aadd28 | Batch Prep
7cc53947-88ee-42d3-9ce9-294128f7baf | Batch Prep
610e9468-110e-48c4-836b-2caecfa70ae0 | On Hold: Contact Processing
018869f7-739b-4c7c-a4cd-fe2d90203263 | On Hold: Contact Accounting
b451269a-5814-4588-b40d-2cc5ab17f688 | On Hold: Awaiting Revised Upload
642f1da3-de78-49c9-859d-c375282ca5ab | On Hold: Contact Imposition
```

8359be86-5d43-40ad-b04a-ef379ced75c9 | On Hold: Per Customer
 fe1ccf8f-41c6-4104-99e0-ea7dfc71b0bd | On Hold: Awaiting Mailing List
 b28fb119-2698-430b-aa36-c4c602fea69d | On Hold: Awaiting Proof Approval
 3b6394b5-a8ad-4e06-b115-d82c4b0589a2 | Batch Imposition
 d51c521b-b734-4bfe-82da-3ecf04e47c3d | Batch Imposition
 75518faeb-5973-4c33-a479-15e7c17be200 | Batch Imposition
 a4f1db61-690d-4b0a-b71f-b5d107928eb2 | Batch Imposition
 fff5d6fe-9b14-4e3b-9b6d-c1af0a134bad | Batch Imposition
 32087dc3-fa87-4291-b21f-115d62b0b05e9 | Batch Imposition
 1a25ca45-f7ad-4814-bf42-5739ed951fc1 | On Hold: Troubleshooting Review
 4c001a4c-df00-444e-aff6-4bbc36d1338 | Batch Imposition
 dee52f6f-172f-4271-8e63-8133c40da0d7 | Batch Imposition
 0962958c-37dd-4766-81e7-7390e629b65f | Plated
 266b034e-a3d0-471a-9e32-2b6c7c97d2c9 | On Press
 a4906b42-44a9-413d-8fcf-197e14956e65 | Post-Press
 c04e56bf-cda4-464b-bcb0-2d92e808eac4 | UV Coating
 c4cd2b29-afb4-4746-80b6-6370b75ce1f3 | Silk Coating
 e778fd1d-15ad-4bac-b875-bdb78f6d0784 | Cutting
 d7010921-1954-4634-bcde-853f282faaac | Finishing
 954cee00-6c22-4247-a8f8-83b255bbfbf1 | Finishing
 404cc6f2-052b-48d4-a988-b14d82cae1f3 | Finishing
 bfbafe14-9e44-4f69-8775-1be64fa97a3 | Foiling
 93ea9cfa-cbc3-496e-85ed-cb17bceaa5e2 | Bindery
 98db9c42-237b-4392-a1b7-e79cd65cda04 | Bindery Complete
 54952941-14bb-4440-a0a5-ad63e07e308 | Mailing
 61ee453e-7060-4f9c-bd09-11a155f2ee78 | On Hold: Awaiting Mailing Payment
 c3b42939-9b59-4594-b56a-3aa5d7a3db30 | On Hold: Preparing Proof, Awaiting Customer Approval
 001d4fbf-7fae-451e-9daf-9acc35c3e5f4 | Mailing Addressing
 acdb88df1-2eb6-404c-a52b-046d8b6d53df | On Hold: Mailing
 59e1f39-3e0b-4f77-8ff6-1964087dcc71 | Status Adjustment
 0ad977a6-5793-467c-85e4-ab583c6a87a8 | Status Adjustment
 e4e02de5-5aa8-44ed-8a4c-a186fe7c16b | Packaging
 b85e0a38-7b34-4814-838d-dbb9fe5a0a41 | Department Transfer
 33a7ca53-03b2-44f8-9a83-a947380cd6f0 | Packaging
 92aa7b15-5796-493b-aeed-08a9c366766f | Packaging
 9d3dcf48-76a0-4de2-82b0-c713a3ae9705 | Delivery Pending
 91115aae-d5ff-4ffe-8263-47b574bd00c1 | On Pallet for Delivery
 9c51e254-4e4c-43a6-a303-5bfa8da7546f | Pickup Staging
 d628a3d4-034c-41d8-aef5-56e211c8d9a3 | Out for Mail Drop
 98e0c3cc-cc5a-4662-8c84-5db0eb4eab95 | Support / Trouble Demarcation
 826fe6ea-17f7-4cce-bbd3-135b85ea469a | Out for Local Delivery
 d04117b5-1aff-47af-9f98-cc679663c445 | Delivery Rejected
 770f8a04-a105-4380-bf6a-6741de24c5dd | OK to Pickup
 b48f0743-ac6f4e09-9cc5-9f43abeb07e0 | Complete: Shipped
 69a19b4-fc6b-4926-872a-021c11680f4a | Complete: Shipment Delivery Confirmed
 2fc7e324-28e6-4c63-bc52-cd55fd3e2695 | Complete: Mailed
 7ac5008d-65ee-4551-a2df-9959ee801b45 | Complete: Delivered
 d81e1059-7fb3-45eb-968c-27c7e1c9ec83 | Complete: Picked Up
 17043308-abad-46bc-b28d-81e2b097a049 | In Troubleshooting
 2c9278d4-6095-4cc3-9485-d0b5e8e033f1 | Assigned to Troubleshooter
 56e077ed-b408-46f0-acb3-a6f24d473010 | Assigned to Troubleshooter
 791f96168-624d-4de0-9c7c-8d44537665c4 | Message Left With Customer
 ce1fc74c-158d-48e7-a790-5d16cf16386 | Awaiting Customer Response
 a5414466-6f2c-47c8-92e0-04bdd0441730 | Assigned to Troubleshooter
 d11561ab-5513-4e34-bced-5d5018b8c49a | Awaiting New Files
 0c3a7a48-3a6-424f-a76c-799706bd95d | Awaiting Samples
 fe468ee7-3886-4184-80f9-dba0ab3c74ce | Received New Files
 fba9a5c4-b932-4342-90db-15b113ead1da | Received Samples
 56caa582-dd51-41da-a7fa-6881737a23d9 | Sent to Reprint
 d481cbe5-0cfb-429a-be45-3ae37957fb72 | Complete: Cost Split With Customer
 284b9d52-9466-4e7a-ffa-35278bd7d704 | Complete: Ticket is denied any Reprint, Discount or Coupon
 6130ad2f-de31-44b2-a827-b8acd8bf11d | Complete: Discount Applied
 99c647ba-dc04-4c76-ab16-5a387ec7fbc0 | Complete: Coupon Given
 52d76e63-ba3b-41a7-9ead-bee530dfa83a | Complete: Ticket Closed
 12c0c74-2d90-44eb-8880-2c276c7023d3 | Complete: QC Reprint
 c37828e0-1cfc-47de-af94-fa7f3a36e1f2 | Complete: Reprint
 bd5a61ad-2d2f-441e-bc34-ca686cc6b4 | On Hold: Awaiting Reprint Upload
 93163033-5a24-4a5b-b8cc-4c71d35ea599 | Complete: Discarded
 361cdad4-2be1-4c84-83b6-eaeb3b2943c2 | Complete OH
 a520c77fd1a-4bcc-8e25-95a0e79d2169 | Complete WA
 4866cc08-753b-4610-96a1-6723d050e8c2 | Complete
 e22b3fec-57a1-45ac-9576-b77da27b91a7 | Canceled
 7a8094d7-5d9a-4c83-9b28-64b2698d169e | Canceled

Resource URI

GET /orders/job_id/status

Input Parameters

@param job_id {string} a valid 4over job-id.

Sample Request

html

<https://api.4over.com/orders/Z92071012343-001/status>

Sample Response

JSON

```
{
  "entities": [
    {
      "status_code_uuid": "69af19b4-fc6b-4926-872a-021c11680f4a",
      "status": "Complete: Shipment Delivery Confirmed",
      "date_set": "2016-11-23 11:39:38"
    },
    {
      "status_code_uuid": "b48f0743-ac6f-4e09-9cc5-9f43abeb07e0",
      "status": "Complete: Shipped",
      "date_set": "2010-09-29 07:48:50"
    },
    {
      "status_code_uuid": "750a0f61-f328-46cb-87c3-1750cc882cbb",
      "status": "Status",
      "date_set": "2010-09-29 07:39:15"
    },
    {
      "status_code_uuid": "750a0f61-f328-46cb-87c3-1750cc882cbb",
      "status": "Status",
      "date_set": "2010-09-29 07:38:19"
    }
  ]
}
```

```
{
  "status_code_uuid": "33a7ca53-03b2-44f8-9a83-a947380cd6f0",
  "status": "Packaging",
  "date_set": "2010-09-28 22:18:58"
},
{
  "status_code_uuid": "e778fd1d-15ad-4bac-b875-bdb78f6d0784",
  "status": "Cutting",
  "date_set": "2010-09-28 18:29:01"
},
{
  "status_code_uuid": "0962958c-37dd-4766-81e7-7390e629b65f",
  "status": "Plated",
  "date_set": "2010-09-28 09:49:03"
},
{
  "status_code_uuid": "dee52f6f-172f-4271-8e63-8133c40da0d7",
  "status": "Batch Imposition",
  "date_set": "2010-09-28 00:43:57"
}
]
```

Retrieving all Route Groups

Route groups created by the user currently logged in user can be retrieved using the following API route:

Request:

GET /routegroups

Response:

JSON

```
{
  "entities": [
    {
      "route_group_uuid": "",
      "name": "My New Route Group",
      "description": "This is a sample route group",
      "address": "1225 Los Angeles St",
      "city": "Glendale",
      "zip": "91202",
      "x_coordinate": "",
      "y_coordinate": "",
      "param_type": "",
      "latitude": "",
      "longitude": "",
      "is_residential": 1,
      "user": {
        "user_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
        "first_name": "First",
        "last_name": "Last",
        "email": "user@4over.com",
        "user_notes": "4over User for internal applications",
        "created_at": "2014-01-02 10:06:35-08",
        "updated_at": "",
        "deleted_at": "",
        "organizations": "https://api.4over.com",
        "logins": "https://api.4over.com",
        "token": "d8e49f3738aid38db775df763cb4533829e0fab1",
        "timestamp": "0.95550300 1400192009",
        "current_organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b"
      },
      "organization": {
        "organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
        "organization_name": "4over, Inc.",
        "organization_description": "4over corporate",
        "is_public_organization": true,
        "users": "https://api.4over.com/",
        "job_code_prefix": "z",
        "created_at": "2013-09-29 22:11:43.194599-07",
        "updated_at": "",
        "deleted_at": ""
      },
      "created_at": "2013-09-29 22:11:43.194599-07",
      "updated_at": "2013-09-29 22:11:43.194599-07",
      "deleted_at": ""
    }
  ],
  "totalResults": 1,
  "currentPage": 0,
  "maximumPages": 20
}
```

Retrieving a Single Route Group

Request:

GET /routegroups/:id

Single Route Group Response:

```
{
  "route_group_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
  "name": "My New Route Group",
  "description": "This is a sample route group",
  "address": "1225 Los Angeles St",
  "city": "Glendale",
  "zip": "91202",
  "x_coordinate": "",
  "y_coordinate": "",
  "param_type": "",
  "latitude": "",
  "longitude": "",
  "carrier_routes": "https://api.4over.com/",
  "user": {
    "user_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
    "first_name": "4over",
    "last_name": "Internal",
    "email": "user@4over.com",
    "user_notes": "4over User for internal applications",
    "created_at": "2014-01-02 10:06:35-08",
    "updated_at": "",
    "deleted_at": "",
    "organizations": "https://api.4over.com/",
    "logins": "https://api.4over.com",
    "token": "d8e49f3738aid38db775df763cb4533829e0fab1",
    "timestamp": "0.95550300 1400192009",
    "current_organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b"
  }
}
```

```

"organization": {
    "organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",
    "organization_name": "4over, Inc.",
    "organization_description": "4over corporate",
    "is_public_organization": true,
    "users": "https://api.4over.com/",
    "job_code_prefix": "Z",
    "created_at": "2013-09-29 22:11:43.194599-07",
    "updated_at": "",
    "deleted_at": ""
},
"created_at": "2013-09-29 22:11:43.194599-07",
"updated_at": "2013-09-29 22:11:43.194599-07",
"deleted_at": ""
}

```

Organizations

Organizations are the business entities interacting with the 4over API.
They contain Users and Addresses as well as other business related details.

Organizations are read-only and can only be edited or added by 4over admin. Currently, each customer_id can be associated with one Organization only.

Retrieve Carrier Routes

Retrieve Carrier Routes for a particular Route Group

GET Carrier Routes

GET /routegroups/:id/carrierroutes

NOTE: Results will be [paginated](#)

Response:

Route Group Carrier Routes

JSON

```
{
    "entities": [
        {
            "attributes": {
                "carrier_route_uuid": "0c629d30-36ff-4068-ab86-9d181fa4ee21",
                "fac_name": "BEVERLY HILLS",
                "facility_name": "BEVERLY HILLS",
                "city": "BEVERLY HILLS",
                "state": "CA",
                "zip": "90210",
                "zip_crid": "90210C058",
                "crid_id": "C058",
                "age_20_24": 166,
                "age_25_34": 329,
                "age_35_44": 317,
                "age_45_54": 295,
                "age_55_64": 252,
                "age_65_74": 138,
                "age_75_84": 84,
                "age_gt_85": 25,
                "age_lt_19": 440,
                "avg_hh_size": 2.5999999,
                "bus_cnt": 38,
                "city": "LOS ANGELES",
                "crid_id": "C052",
                "drop_cnt": 0,
                "dropship_key": "Z21809",
                "ds_key": "Z21809",
                "faux_ind": "N",
                "is_selected": true,
                "less_than_200_ind": "N",
                "lt_200_ind": "N",
                "med_age": 38,
                "med_income": "31,151",
                "res_cnt": 918,
                "shape_length": 5591.0991640543,
                "state": "CA",
                "status": true,
                "tot_cnt": 957,
                "zip_code": "90029",
                "zip_crid": "90029C052"
            },
            "geometry": ""
        },
        {
            "attributes": {
                "carrier_route_uuid": "0c629d30-36ff-4068-ab86-9d181fa4ee21",
                "fac_name": "BEVERLY HILLS",
                "facility_name": "BEVERLY HILLS",
                "city": "BEVERLY HILLS",
                "state": "CA",
                "zip": "90210",
                "zip_crid": "90210C058",
                "crid_id": "C058",
                "age_20_24": 166,
                "age_25_34": 329,
                "age_35_44": 317,
                "age_45_54": 295,
                "age_55_64": 252,
                "age_65_74": 138,
                "age_75_84": 84,
                "age_gt_85": 25,
                "age_lt_19": 440,
                "avg_hh_size": 2.5999999,
                "bus_cnt": 38,
                "city": "LOS ANGELES",
                "crid_id": "C052",
                "drop_cnt": 0,
                "dropship_key": "Z21809",
                "ds_key": "Z21809",
                "faux_ind": "N",
                "is_selected": true,
                "less_than_200_ind": "N",
                "lt_200_ind": "N",
                "med_age": 38,
                "med_income": "31,151",
                "res_cnt": 918,
                "shape_length": 5591.0991640543,
                "state": "CA",
                "status": true
            }
        }
    ]
}
```

```
        "tot_cnt": 957
        "zip_code": "90029"
        "zip_crid": "90029C052"
    },
    "geometry": ""
}
],
"totalResults":2,
"currentPage":0,
"maximumPages":20
}
```

Retrieve Categories

This returns a list of all categories available to the organization currently logged in.

Resource URI

GET/printproducts/categories

Sample Request

html

<https://api.4over.com/printproducts/categories>

Sample Response

JSON

```
{
entities: [
{
id: "a2b13bce-0643-41ce-9a03-e21f9a92d7d4",
name: "Roll Labels",
description: "",
products: "http://api.4over.com/app.php/printproducts/categories/a2b13bce-0643-41ce-9a03-e21f9a92d7d4/products"
},
{
id: "08a9625a-4152-40cf-9007-b2bbb349efec",
name: "Business Cards",
description: "Business Cards",
products: "http://api.4over.com/app.php/printproducts/categories/08a9625a-4152-40cf-9007-b2bbb349efec/products"
},
{
id: "6f4148e7-3842-4d8b-99f8-6d31c2f71883",
name: "Postcards",
description: "Postcards",
products: "http://api.4over.com/app.php/printproducts/categories/6f4148e7-3842-4d8b-99f8-6d31c2f71883/products"
},
{
id: "fd917dc0-a11f-4da5-98f4-e1e3de53e71c",
name: "Linen Uncoated",
description: "Linen Uncoated",
products: "http://api.4over.com/app.php/printproducts/categories/fd917dc0-a11f-4da5-98f4-e1e3de53e71c/products"
},
...
]
```

This returns details of the category specified by a specific UUID.

Resource URI

GET /printproducts/categories/{category_uuid}

Input Parameters

@param category_uuid {uuid} The UUID of a Category.

Sample Request

html

<https://api.4over.com/printproducts/categories/6f4148e7-3842-4d8b-99f8-6d31c2f71883>

Sample Response

JSON

```
{
category_uuid: "6f4148e7-3842-4d8b-99f8-6d31c2f71883",
category_name: "Postcards",
category_description: "Postcards",
products: "http://api.4over.com/app.php/printproducts/categories/6f4148e7-3842-4d8b-99f8-6d31c2f71883/products"
}
```

Retrieve Logins

This route will return all the Logins for a specific Users in the Organization.

Resource URI

GET /organization/users/{user_uuid}/logins

Input Parameters

@param user_uuid {uuid} UUID of the User

Sample Request

html

<https://api.4over.com/7a24c26e-7450-438a-a9c9-b4591dc3ed83/logins>

Sample Response

JSON

```
{
entities: [
{
}
```

```
        login_provider: {
          login_provider_uuid: "11137f2d-ecf2-4b1f-8f68-3c5a37c2f469",
          login_provider: "Email"
        },
        public: "william@4over.com"
      },
      ...
    }
```

Route Groups

A route group is a record created by the user that references a point on a map (address, x/y coordinates, or latitude/longitude). Route groups can hold one or more carrier routes that are attached by the user via the EDDM API.

Versions

Backwards Compatibility

For those who have re-sold 4over Products for years, we will continue to support all existing versions of our API. We call the current version Core API version 1.0 (DirectConnect 3.0). However, we will continue support for DirectConnect V1.0 or V2.0 for the time being. Please beware that DirectConnect 1.0 and 2.0 will be deprecated once all users are migrated to Core API. We will notify all DirectConnect users once we decide on a firm date for deprecation.

We encourage you to migrate to our latest version as soon possible. If your organization is using our API, you can REST assured that we will continue supporting all versions. We will give you advanced notifications for any deprecations.

The Future

Currently Core API is on version 1.0. We do regular builds for enhancements and bug fixes with occasional hot fixes, if necessary. As the Core API evolves, we will introduce new versions and accordingly will plan and notify users of any deprecations or versioning plans.

We have been exploring different versioning Date Versioning option

*Date versioning is not completely implemented yet. The documentation will be updated accordingly once more details are implemented.

EDDM Carrier Routes

Carrier Routes are selected based on a zip-code or coordinates and a radius around it. The Carrier routes are USPS designated routes. Each zip-code could have one or more carrier routes. Generally a user-interface allows end users to select carrier routes using a map or other tools to identify number of pieces needed as well as the routes that USPS will be delivering to.

Removing a Carrier Route From a Route Group

To remove a carrier route that is attached to a route group:

Request:

```
DELETE /routegroups/:id/carrierroutes/:id
```

Response:

Remove Carrier Route Response

JSON

```
true
```

Update Addresses

Resource URI

This route will update the Address record specified by the UUID

```
PUT /addresses/{address_uuid}
```

Input Parameters

@param address_uuid {uuid} UUID of an Address.

Sample Request

html

```
http://api.4over.com/addresses/2e15b146-d6e1-4602-9c58-ca85a40bd362
```

Sample Request Body

JSON

```
{
  "address_uuid": "2e15b146-d6e1-4602-9c58-ca85a40bd362",
  "street": "12345 Street",
  "street2": "Suite N",
  "city": "Glendale",
  "state": "CA",
  "postal_code": "12347",
  "country": "US"
}
```

Sample Response Body

JSON

```
{
  "address_uuid": "2e15b146-d6e1-4602-9c58-ca85a40bd362",
  "street": "12345 Street",
  "street2": "Suite N",
  "city": "Glendale",
  "state": "CA",
  "postal_code": "12347",
  "country": "US"
}
```

Retrieve Order Tracking

Order Status

This route reports back the tracking number of the specified job. If the job has not been shipped there will not be any tracking number available.

Resource URI

GET /orders/job_id/tracking

Input Parameters

@param job_id {string} a valid 4over job-id.

Sample Request

html

<https://api.4over.com/orders/Z32071612343-001/tracking>

Sample Response

JSON

```
{  
    "tracking": "1Z2A61010358895672"  
}
```

Updating a Route Group

This route will update the values for a given route group.

Request:

PUT (or PATCH) /routegroups

JSON

```
{  
    "name": "My New Route"  
}
```

NOTE: You can include one or more fields to be updated

Response:

Updated Route Group

JSON

```
{  
    "route_group_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",  
    "name": "My New Route",  
    "description": "This is a sample route group",  
    "address": "1225 Los Angeles St",  
    "city": "Glendale",  
    "zip": "91202",  
    "x_coordinate": "",  
    "y_coordinate": "",  
    "param_type": "",  
    "latitude": "",  
    "longitude": "",  
    "carrier_routes": "https://ultra-api.4over.com/routegroups/0c9b2f87-bd24-4d42-8a7f-35c74cc47516/carrierroutes",  
    "user": {  
        "user_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",  
        "first_name": "First",  
        "last_name": "Last",  
        "email": "user@4over.com",  
        "user_notes": "4over User for internal applications",  
        "created_at": "2014-01-02 10:06:35-08",  
        "updated_at": "",  
        "deleted_at": "",  
        "organizations": "http://ultra-api.4over.com/users/adf71c59-35c1-4ca4-9521-12d91f4594c2/organizations",  
        "logins": "http://ultra-api.4over.com/users/adf71c59-35c1-4ca4-9521-12d91f4594c2/logins",  
        "token": "08e49f3738a1d38db775df763cb4533829e0fab1",  
        "timestamp": "0.95550300 1400192009",  
        "current_organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b"  
    },  
    "organization": {  
        "organization_uuid": "9ba9665d-1766-49f8-b1ba-e2f457d6bf8b",  
        "organization_name": "4over, Inc.",  
        "organization_description": "4over corporate",  
        "is_public_organization": true,  
        "users": "http://ultra-api.4over.com/organizations/8a17ef16-d997-4544-9f7c-d313feb9c40/users",  
        "job_code_prefix": "",  
        "created_at": "2013-09-29 22:11:43.194599-07",  
        "updated_at": "",  
        "deleted_at": ""  
    },  
    "created_at": "2013-09-29 22:11:43.194599-07",  
    "updated_at": "2013-09-29 22:11:43.194599-07",  
    "deleted_at": ""  
}
```

File Requirement Service

File requirements service allows API users to determine file types necessary for any product/option combinations.

Below is a list of possible file reason-codes:

Abbreviations | Possible file reasons/types

fr | Front
bk | Back
fm | Front mask
bm | Back mask
ffm | Front foil mask
bfm | Back foil mask
cm | Cut mask
in | In
out | Out
l1 | Lenticular file 1

Addresses

This route will return any address in the 4over System for the specified user contact.
It does not validate addresses and will not return addresses used for shipments unless the API User's Organization has an agreement with 4over to track such data.

Environments

All users will be assigned Private and Public API keys that will be used to authenticate all API requests. These keys will be generated by 4over and supplied to individual API users.

Sandbox

If your Organization is in "Test Mode" with the 4over API, you will use the base URI of <https://sandbox-api.4over.com>.

Production

After testing and 4over approval, the base URI will be "<https://api.4over.com>".

Remove Files

This route returns a collection of available media to the User logged in.

Resource URI

```
DELETE /files/{uuid}  
@param file_id {uuid} UUID of the file to be Deleted.
```

Sample Request URI

html
<https://api.4over.com/files/3a886626-63f9-4f1c-9c1e-7c8e04c245d7>

Sample Response

JSON
true

Retrieve Products

All Products

This route will return a list of all products and product details. The details of each product is consisted of:

- product_uuid: product's unique ID
- product_code: Legacy product Codes used to identify a product
- product_description: Description of the product
- full_product_path: Full path to the product details
- product_categories: List of all categories that the product belongs to
- product_option_groups: Path to list of all Option Groups for a specific product. Option Groups consists Size, Stock, Coating, Colorspec, Runsizes, Turnaround-Times and any finishing option groups that apply to the specified product
- product_base_prices: Path to list of base prices for the specified product considering all runsizes and colorspecs. Any Option Group, such as Turnaround-times or any finishing options that affects the base price, will contain an "option_prices" link in the options array that will specify the option price that needs to be added to the base price

Resource URI

```
GET /printproducts/products
```

Sample Request

html
<https://api.4over.com/printproducts/products>

Sample Response

JSON

```
{  
  entities: [  
    {  
      product_uuid: "e8c49dac-1bb0-4bea-a980-fd563f58e0e0",  
      product_code: "100GLBUV-BKUV-11X17",  
      product_description: "8.5" X 11" - 4 Page Brochure On 100LB GLOSS BOOK with UV on both sides",  
      full_product_path: "http://api.4over.com/app.php/printproducts/products/e8c49dac-1bb0-4bea-a980-fd563f58e0e0",  
      categories: "http://api.4over.com/app.php/printproducts/products/e8c49dac-1bb0-4bea-a980-fd563f58e0e0/categories",  
      product_option_groups: "http://api.4over.com/app.php/printproducts/products/e8c49dac-1bb0-4bea-a980-fd563f58e0e0/productoptiongroups",  
      product_base_prices: "http://api.4over.com/app.php/printproducts/products/e8c49dac-1bb0-4bea-a980-fd563f58e0e0/baseprices"  
    },  
    {  
      product_uuid: "06b301d3-ade0-4afc-b132-39664e9af90e",  
      product_code: "100GLBUV-BKUV-2X11X17",  
      product_description: "8.5" X 11" - 8 Page Brochure On 100LB GLOSS BOOK with UV on both sides",  
      full_product_path: "http://api.4over.com/app.php/printproducts/products/06b301d3-ade0-4afc-b132-39664e9af90e",  
      categories: "http://api.4over.com/app.php/printproducts/products/06b301d3-ade0-4afc-b132-39664e9af90e/categories",  
      product_option_groups: "http://api.4over.com/app.php/printproducts/products/06b301d3-ade0-4afc-b132-39664e9af90e/productoptiongroups",  
      product_base_prices: "http://api.4over.com/app.php/printproducts/products/06b301d3-ade0-4afc-b132-39664e9af90e/baseprices"  
    },  
    {  
      product_uuid: "25966aeb-b483-4f87-8a3e-3fe57df45ef1",  
      product_code: "100GLBUV-BKUV-3X11X17",  
      product_description: "8.5" X 11" - 12 Page Brochure On 100LB GLOSS BOOK with UV on both sides",  
      full_product_path: "http://api.4over.com/app.php/printproducts/products/25966aeb-b483-4f87-8a3e-3fe57df45ef1",  
      categories: "http://api.4over.com/app.php/printproducts/products/25966aeb-b483-4f87-8a3e-3fe57df45ef1/categories",  
      product_option_groups: "http://api.4over.com/app.php/printproducts/products/25966aeb-b483-4f87-8a3e-3fe57df45ef1/productoptiongroups",  
      product_base_prices: "http://api.4over.com/app.php/printproducts/products/25966aeb-b483-4f87-8a3e-3fe57df45ef1/baseprices"  
  ]  
}
```

```
...  
}]
```

Products In A Category

This route will return list of Products in the specific Category. Product list contains product_uuid, product_code, full_product_path, a link to categories, a link to product_option_groups and a link to product_base_prices.

Resource URI

```
GET /printproducts/categories/{category_uuid}/products
```

Input Parameters

```
@param category_uuid {uuid} The UUID of a category.
```

Sample Request

```
html
```

```
https://api.4over.com/printproducts/categories/4edd37b2-c6d5-4938-b6c7-35e09cd7bf76/products
```

Sample Response

```
JSON
```

```
{  
    entities: [  
        {  
            product_uuid: "bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e",  
            product_code: "100DB-FLSA-11X17",  
            product_description: "11" X 17" 100lb Dull Book Flyers with Satin AQ coating",  
            full_product_path: "http://10.7.2.73:8080/app.php/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e",  
            categories: "https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e/categories",  
            product_option_groups: "https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e/productoptiongroups",  
            product_base_prices: "https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e/baseprices"  
        },  
        {  
            product_uuid: "552a6ebd-c9ab-4c08-b8d6-ea93b441920e",  
            product_code: "100DB-FLSA-8.5X11",  
            product_description: "8.5" X 11" 100lb Dull Book Flyers with Satin AQ coating",  
            full_product_path: "https://api.4over.com/printproducts/products/552a6ebd-c9ab-4c08-b8d6-ea93b441920e",  
            categories: "https://api.4over.com/printproducts/products/552a6ebd-c9ab-4c08-b8d6-ea93b441920e/categories",  
            product_option_groups: "https://api.4over.com/printproducts/products/552a6ebd-c9ab-4c08-b8d6-ea93b441920e/productoptiongroups",  
            product_base_prices: "https://api.4over.com/printproducts/products/552a6ebd-c9ab-4c08-b8d6-ea93b441920e/baseprices"  
        },  
        ...  
    ]  
}
```

This route will return details of a specific Product. The response consists of product_uuid, product_code, product_description, categories and product_option_groups

Resource URI

```
GET /printproducts/products/{product_uuid}
```

Input Parameters

```
@param product_uuid {uuid} The UUID of a product.
```

Sample Request

```
html
```

```
https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e
```

Sample Response

```
JSON
```

```
{  
    product_uuid: "bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e",  
    product_code: "100DB-FLSA-11X17",  
    product_description: "11" X 17" 100lb Dull Book Flyers with Satin AQ coating",  
    categories: [  
        {  
            category_uuid: "4edd37b2-c6d5-4938-b6c7-35e09cd7bf76",  
            category_name: "Flyers / Brochures"  
        }  
    ],  
    product_option_groups: [  
        {  
            product_option_group_uuid: "217f0a2b-224a-47f1-8452-f513d418c98c",  
            product_option_group_name: "Size",  
            minoccurs: 1,  
            maxoccurs: 1,  
            options: []  
        },  
        {  
            product_option_group_uuid: "6a5ef04a-7143-444b-b4ed-f623204e7168",  
            product_option_group_name: "Stock",  
            minoccurs: 1,  
            maxoccurs: 1,  
            options: [  
                {  
                    option_uuid: "7f9062f3-bd6e-4f7e-9934-8f7014391801",  
                    option_name: "100DB",  
                    option_description: ""  
                }  
            ]  
        },  
        {  
            product_option_group_uuid: "6a5ef04a-7143-444b-b4ed-f623204e7168",  
            product_option_group_name: "Coating",  
            minoccurs: 1,  
            maxoccurs: 1,  
            options: []  
        },  
        {  
            product_product_option_group_uuid: "d365deb4-604c-4922-98dd-4956681db3fa",  
            product_product_option_group_name: "Folding Options",  
            minoccurs: "0",  
            maxoccurs: "1",  
            options: [  
                {  
                    option_uuid: "58fb8c8b-0d83-4565-bbf1-e3c03f17a60b",  
                    option_name: "French Fold",  
                    option_description: "Folding Options",  
                    option_prices: "https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e/productoptiongroups/d365deb4-604c-4922-98dd-4956681db3fa/options/58fb8c8b-0d83-4565-bbf1-e3c03f17a60b"  
                }  
            ]  
        }  
    ]  
}
```

```

        ]
    },
    {
        product_option_group_uuid: "6a5ef04a-7143-444b-b4ed-f623204e7168",
        product_option_group_name: "Colorspec",
        minOccurs: 1,
        maxOccurs: 1,
        options: [
            {
                option_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
                option_name: "4/0",
                option_description: "Colorspec 4/0"
            },
            {
                option_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
                option_name: "4/1",
                option_description: "Colorspec 4/1"
            },
            {
                option_uuid: "13abbda7-1d64-4f25-8bb2-c179b224825d",
                option_name: "4/4",
                option_description: "Colorspec 4/4"
            }
        ]
    },
    {
        product_option_group_uuid: "6a5ef04a-7143-444b-b4ed-f623204e7168",
        product_option_group_name: "Runsizes",
        minOccurs: 1,
        maxOccurs: 1,
        options: []
    },
    {
        product_option_group_uuid: "6a5ef04a-7143-444b-b4ed-f623204e7168",
        product_option_group_name: "Turnaround-times",
        minOccurs: 1,
        maxOccurs: 1,
        options: [
            ...
            {
                option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
                option_name: "527",
                option_description: "Turnaround-time 5-7 Business Days",
                runsize_uuid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
                runsize: "1000",
                colorspec_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
                colorspec: "4/1",
                option_prices: "https://api.4over.com/printproducts/products/bc3758a8-8f6c-4e24-8fb5-99d1a95ac01e/productoptiongroups/d45cec1f-d12c-45c8-b2fa-9297efd29524/options/3318b"
            },
            ...
        ]
    }
}

```

Remove Users

Delete a User by its UUID.

Resource URI

`DELETE /users/{users_uuid}`

Input Parameters

`@param users_uuid {string}` The UUID of the User.

Sample Request URI

html

`https://api.4over.com/users/96b13fb7-5378-4cdd-aa41-e4bbe3c853c3`

Sample Response

JSON

`true`

Update Specific Addresses

Resource URI

This route will update the specific fields of an Address record specified by the UUID

`PATCH /addresses/{address_uuid}`

Input Parameters

`@param address_uuid {uuid}` UUID of an Address.

Sample Request

html

`http://api.4over.com/addresses/2e15b146-d6e1-4602-9c58-ca85a40bd362`

Sample Request Body

JSON

```
{
    "street": "0123 street"
}
```

Sample Response Body

JSON

```
{
    "address_uuid": "2e15b146-d6e1-4602-9c58-ca85a40bd362",
    "street": "0123 street",
    "street2": "Suit N",
    "city": "Glendale",
    "state": "CA",
    "zip": "90040"
}
```

```
        "postal_code": "12347",
        "country": "US"
    }
```

Cancel Order

Cancel An Order

DELETE route is used to cancel a job. A Job can be only canceled if they have not passed a certain point in production. In general, jobs can be canceled as long as they have not passed "Batch Imposition" status.

Resource URI

```
DELETE /orders/job_id
```

Input Parameters

```
@param job_id {string} a valid 4over job-id.
```

Sample Request

html

```
https://api.4over.com/orders/z32071612343-001
```

Sample Response

JSON

```
true
```

OR

JSON

Job has progressed too far for cancellation

NOTE : If Job has passed the Batch Imposition status Then that Job cannot be canceled.

Remove Route Groups

This route will delete a given Route Group and its associations with any carrier routes.

Request:

DELETE /routegroups/:id

```
DELETE /routegroups/:id
```

Response:

Deleted Route Group Response

true

Users

Every Organization interacting with the 4over API will have one or more Users.

Users may represent different points of sale for an Organization, or different individuals who use the API.

4over API Organizations may have as many Users as their license with 4over allows. Every record created, edited and deleted will have a User associated with it.

Pagination

Pagination

Most API Responses can be paginated to reduce load times and data size which can be controlled via the url query string.

Pagination Example

```
GET /collection?max=100&offset=25
```

The above example will return 100 items from the requested route and starting at the 25th result, giving you records 25 through 125. Both max and offset are optional and if not provided will default to max = 20 and offset = 0. If desired, you can provide just one of the two:

Max results only (offset defaults to 0)

```
GET /collection?max=5
```

or

Offset only (max defaults to 20)

```
GET /collection?offset=50
```

Retrieve Options

This route will return list of all Option Groups. Option Groups are consisted of entities such as Size, Stock, Runsizes, Coating, Colorspec and Turnaround-times as well as all bindery and finishing options such as Folding Options and so on. Each Option Group is a collection of such options. Therefore; Folding Option is a collection of all available Folding Options.

Resource URI

```
GET /printproducts/optiongroups
```

Sample Request

html

```
https://api.4over.com/printproducts/optiongroups
```

Sample Response

JSON

```
[{"entities": [{"option_group_uuid": "34f407f8-0b50-4227-9378-10fddefbe596", "option_group_name": "Size", "option_group_description": "Final width and height dimensions", "options": "https://api.4over.com/printproducts/optiongroups/34f407f8-0b50-4227-9378-10fddefbe596/options"}, {"option_group_uuid": "24865ffa-793d-43ea-b3b1-d1b5cf22268d", "option_group_name": "Stock", "option_group_description": "The substrate to be printed on", "options": "https://api.4over.com/printproducts/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options"}, {"option_group_uuid": "26ca0df3-0682-4f37-8979-409868e2df2d", "option_group_name": "Coating", "option_group_description": "Coating options", "options": "https://api.4over.com/printproducts/optiongroups/26ca0df3-0682-4f37-8979-409868e2df2d/options"}, {"option_group_uuid": "38d33954-5a42-4112-a905-215eb827e62c", "option_group_name": "Colorspec", "option_group_description": "Print color options", "options": "https://api.4over.com/printproducts/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/options"}, {"option_group_uuid": "87e09691-ef33-4cf4-8f17-48af06ce84f4", "option_group_name": "Runsize", "option_group_description": "The number of impressions to be printed", "options": "https://api.4over.com/printproducts/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/options"}, {"option_group_uuid": "d365deb4-604c-4922-98dd-4956681db3fa", "option_group_name": "Folding Options", "option_group_description": "Folding Options", "options": "https://api.4over.com/printproducts/optiongroups/d365deb4-604c-4922-98dd-4956681db3fa/options"}, {"...}], ...}]
```

This route will return list of all Options in a specific Option Group.

Resource URI

```
GET /printproducts/optiongroups/optiongroup_uuid/options
```

Input Parameters

@param optiongroup_uuid {uuid} The UUID of a Option Group.

Sample Request

html

```
https://api.4over.com/printproducts/optiongroups/d365deb4-604c-4922-98dd-4956681db3fa/options
```

Sample Response

JSON

```
[{"option_uuid": "7f9062f3-bd6e-4f7e-9934-8f7014391801", "option_name": "100DE", "option_description": "", "option_prices": "https://api.4over.com/printproducts/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options/7f9062f3-bd6e-4f7e-9934-8f7014391801/prices"}, {"option_uuid": "3be06301-cd4f-47f7-a3d7-130aff944a49", "option_name": "100GLB", "option_description": "", "option_prices": "https://api.4over.com/printproducts/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options/3be06301-cd4f-47f7-a3d7-130aff944a49/prices"}, {"option_uuid": "108654d1-9a11-449d-a835-f662c780c373", "option_name": "100GLBUV", "option_description": "", "option_prices": "https://api.4over.com/printproducts/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options/108654d1-9a11-449d-a835-f662c780c373/prices"}, {"option_uuid": "6ef3ac86-0540-4936-8f72-172257b3be60", "option_name": "100GLC", "option_description": "", "option_prices": "https://api.4over.com/printproducts/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options/6ef3ac86-0540-4936-8f72-172257b3be60/prices"}, {"...}, ...]
```

This route will return list of all Options associated to a specific product.

Product specific option groups include Size, Stock, Coating, Colorspeс, Runsize, Turnaround-times and any bindery/finishing options available to the specified product.

Product specific option groups have two important attributes called "minoccurs" and "maxoccurs". These two attributes define if the option group is required or optional and what are the limitations. Attribute "minoccurs" defined minimum occurrence of the option group. If "minoccurs" is zero the option group is optional. If "minoccurs" is one at least one instance of the option group has to be selected.

On the other hand, "maxoccurs" defines maximum occurrence of the option group. The value of "maxoccurs" could be one or more. If an option group has "minoccurs"=1 and "maxoccurs"=1 then exactly one option has to be selected. Option groups such as Size, Stock, Coating, Colorspeс, Runsize and Turnaround-times are examples of such option groups.

Finishing options such as Foldings and Scorings that may or may not be selected for a product would generally have "minoccurs"=0 and "maxoccurs"=1 or more than one. The value of "maxoccurs" is always equal or greater than "minoccurs".

Resource URI

```
GET /printproducts/products/{product_uuid}/optiongroups
```

Input Parameters

@param product_uuid {uuid} The UUID of product.

Sample Request

html

<https://api.4over.com/printproducts/products/97797e2e-3e3b-429e-a38a-d5f8d8744de5/optiongroups>

Sample Response

JSON

```
[{"entities": [{"product_option_group_uuid": "34f407f8-0b50-4227-9378-10fddefbe596", "product_option_group_name": "Size", "minoccurs": "1", "maxoccurs": "1", "options": []}, {"product_option_group_uuid": "24865ffa-793d-43ea-b3b1-d1b5cf22268d", "product_option_group_name": "Stock", "minoccurs": "1", "maxoccurs": "1", "options": []}, {"product_option_group_uuid": "26ca0df3-0682-4f37-8979-409868e2df2d", "product_option_group_name": "Coating", "minoccurs": "1", "maxoccurs": "1", "options": []}, {"product_option_group_uuid": "38d33954-5a42-4112-a905-215eb827e62c", "product_option_group_name": "Colorspec", "minoccurs": "1", "maxoccurs": "1", "options": []}, {"product_option_group_uuid": "87e09691-ef33-4cf4-8f17-48af06ce84f4", "product_option_group_name": "Runsize", "minoccurs": "1", "maxoccurs": "1", "options": []}, {"product_option_group_uuid": "254afeea-1fd1-4efb-b5fb-c9c3bf4c13d2", "product_option_group_name": "Bundling Options", "minoccurs": "0", "maxoccurs": "1", "options": [{"option_uuid": "58689abb-25c0-461c-a4c3-a80b627d6649", "option_name": "No Bundling Services", "option_description": "BUNDLING SERVICE", "option_prices": "https://api.4over.com/printproducts/products/97797e2e-3e3b-429e-a38a-d5f8d8744de5/productoptiongroups/254afeea-1fd1-4efb-b5fb-c9c3bf4c13d2/options/58689"}, {"option_uuid": "e4577a52-3f44-4506-b5a0-d5ef86cef3d2", "option_name": "Yes, Bundles of 100", "option_description": "BUNDLING SERVICE", "option_prices": "https://api.4over.com/printproducts/products/97797e2e-3e3b-429e-a38a-d5f8d8744de5/productoptiongroups/254afeea-1fd1-4efb-b5fb-c9c3bf4c13d2/options/e4577"}, {"option_uuid": "5d566e05-ffea-4705-a23f-95bd227f1370", "option_name": "Yes, Bundles of 50", "option_description": "BUNDLING SERVICE", "option_prices": "https://api.4over.com/printproducts/products/97797e2e-3e3b-429e-a38a-d5f8d8744de5/productoptiongroups/254afeea-1fd1-4efb-b5fb-c9c3bf4c13d2/options/5d566"}, {"product_option_group_uuid": "6a5ef04a-7143-444b-b4ed-f623204e7168", "product_option_group_name": "Turnaround-times", "minoccurs": 1, "maxoccurs": 1, "options": []}]]
```

Update Users

Modify User's data field.

Resource URI

PATCH /users/{users_uuid}

Input Parameters

@param first_name {string} The new first name of a User.
@param last_name {string} The new last name of a User.
@param email {string} The new Users email address.
@param user_notes {string} Any new notes associated with this User.

Sample Request URI

html

<https://api.4over.com/users/0f01b433-441a-45e3-a689-f767d447975c>

Sample Request Body

JSON

```
{ "first_name": "Bill", "user_notes": "William prefers to be called Bill"}
```

Sample Response

JSON

```
{ "id": "1", "first_name": "Bill", "last_name": "Riker", "email": "briker@email.com", "user_notes": "William prefers to be called Bill"}
```

Update Specific Users

Modify the fields of a specific User by its UUID.

Resource URI

```
PUT /users/{users_uuid}
```

Input Parameters

```
@param first_name {string} The new first name of a User.  
@param last_name {string} The new last name of a User.  
@param email {string} The new Users email address.  
@param user_notes {string} Any new notes associated with this User.
```

Sample Request URI

html

```
https://api.4over.com/users/0f01b433-441a-45e3-a689-f767d447975c
```

Sample Request Body

JSON

```
{  
    "first_name": "Billy",  
    "last_name": "R",  
    "email": "briker@email.com",  
    "user_notes": "Mr. Riker cannot make up his mind about what he wants to be called in this API.",  
}
```

Sample Response

JSON

```
{  
    "id": "1",  
    "first_name": "Bill",  
    "last_name": "R",  
    "email": "briker@email.com",  
    "user_notes": "Mr. Riker cannot make up his mind about what he wants to be called in this API.",  
}
```

Remove Addresses

Resource URI

This route will Delete the address specified by the UUID.

```
DELETE /addresses/{address_uuid}
```

Sample Request

html

```
http://api.4over.com/addresses/2e15b146-d6e1-4602-9c58-ca85a40bd362
```

Sample Response Body

JSON

true

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2. Be in a file that is a flattened .pdf, designed in CMYK with no embedded color profile; and
3. Have a minimum resolution of 300 DPI at 1:1 ratio (or 100%).

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Scheduled Maintenance Hours: 4over may perform regularly scheduled maintenance on the API(s) on Saturdays and/or Sundays between the hours of 10 p.m. and 5:00 a.m. Pacific Time, and Monday through Friday between Midnight and 5 a.m. Pacific Time. In the event of an emergency or other event that would require the API(s) to be unavailable outside of the foregoing hours, 4over will use commercially reasonable measures to provide you with advance notice that the API(s) will be unavailable.

Support Costs. Company and 4over acknowledge and agree that they shall each bear their own costs and expenses incurred in connection with maintaining the connection between the API(s) and your eCommerce Solution (e.g., bug fixes, day-to-day problem resolution, etc.), such costs being considered part of each party's internal software maintenance responsibilities

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Indemnity. You will agree to defend, indemnify and hold harmless 4over and its affiliates and subsidiaries, and each of their respective directors, officers and employees, from all claims, actions and demands ("Claims"), and shall pay any resulting liabilities, losses, damages, judgments, settlements, and all costs and expenses (including reasonable attorneys' fees) incurred by 4over, or for which 4over would otherwise be responsible, in connection with all Claims (collectively, "Losses") insofar as such Claims arise from or relate to: (i) any assertion that your eCommerce Solution (or any portion thereof, including any product templates) infringes any patent, copyright, trademark, trade secret, database right, or other intellectual property or proprietary right of any third party; (ii) any assertion that your eCommerce solution (or any portion thereof including product templates) breaches a third party license agreement; and (iii) any breach of confidentiality.

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You agree that you are solely responsible for your connection to and use of the API(s) and the 4over Content; such use is at your own discretion and risk and you are solely responsible for any damage that may result from such use, including, but not limited to, any damage to your computer systems or loss of data.

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Relationship. You are not and will not be deemed to be a partner, joint venturer, agent, employee or employer of 4over, and for all purposes you are a separate, independent, arms length contracting party. You do not and shall not have any authority to assume or create any obligation for or on behalf of 4over, whether express or implied, and shall not attempt to bind 4over to any contract or agreement.

Confidentiality. You will agree to maintain any confidential information disclosed to by 4over in the strictest confidence and protect all such confidential information with at least the same degree of care that you exercise with respect to your own proprietary and confidential information (which, in any event, shall not be less than a reasonable degree of care under the circumstances) and shall not use any such confidential information for any purpose other than implementing the API, routing orders directly to a 4over trade account and fulfilling such orders. Confidential Information shall mean and include any API Agreement between you and 4over, all documents and materials provided to in connection with implementation of the API, all information that the 4over may be required to maintain as confidential under an agreement with a third party, and all nonpublic, proprietary information of 4over hereto, whether or not written or otherwise fixed in any form or medium, regardless of the media in which it is contained, and whether or not patentable or copyrightable, which is designated as, or which, by its nature, is inherently confidential, including, without limitation, trade secrets, technical specifications, customer or client lists, business information, marketing programs, plans and strategies, financial information, memoranda, work papers, notes, reports and sales information. For purposes of this Agreement, Confidential Information shall not be deemed to include information that (i) is or enters into the public domain through no act of the party receiving any information hereunder, (ii) was lawfully in a party's possession prior to its disclosure hereunder, (iii) is lawfully received from another source subsequent to the date of this Agreement without any restriction on disclosure, or (iv) is deemed, in a writing, to no longer to be Confidential Information. This confidentiality provision is supplemental to and does not supersede any other confidentiality agreement between you and 4over. In the event of any conflict between this provision and any other confidentiality agreement between the parties, the most restrictive terms protective of the confidentiality of information shall apply.

Privacy. You acknowledge that certain information being passed to 4over via the API(s) from your eCommerce Solution may contain personally identifiable information ("PII") of your customers. You warrant that the PII passed to 4over shall not contain any credit card or similar financial information of customer; the only information to be passed to 4over will be product details, the contact information of the customer, the "ship to" address, and any relevant information of your eCommerce solution. You warrant that your privacy policy for all information received through or derived from your eCommerce Solution (including information received from 4over) prohibits disclosure and/or any use of your customers' PII that is not necessary for the fulfillment of customer orders.

Choice of Law. Your relationship with 4over shall be governed by and construed in accordance with the laws of the State of California, without resort or giving effect to conflict of law provisions, and any action at law or in equity arising out of or relating to the use of the API(s) shall be filed and adjudicated only in the federal or state courts located in Los Angeles, California, and you hereby irrevocably and unconditionally consent and submit to the exclusive jurisdiction and venue of such courts over any suit, action or proceeding arising out of or under this API Agreement.

Assignment. Your right to use the API(s) is not assignable, transferable or sub licensable, in whole or in part, without 4over's prior written consent. 4over may assign any agreement with you for the use of the API(s), in whole or in part, at any time with or without notice to you.

Retrieve Base Prices

This route returns list of all base prices considering runsizes and colorspecs for a specific product. It also returns "can_group_ship" flag identifying if the product, runsize and colorspec combination is qualified for group shipping.

Resource URI

GET /printproducts/products/{product_uuid}/baseprices

Input Parameters

@param product_uuid {uuid} The UUID of product.

Sample Request

html

<https://api.4over.com/printproducts/products/97797e2e-3e3b-429e-a38a-d5f8d8744de5/baseprices>

Sample Response

JSON

```
{
  entities: [
    {
      base_price_uuid: "07096a3d-7d02-4ce9-9214-cc428fdccda0",
      product_baseprice: "6.50",
      runsize_uuid: "8a3a0fd1-38ae-49a0-8736-3fedadc3dc93",
    }
  ]
}
```

```

    runsize: "100",
    colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
    colorspec: "4/0",
    product_uuid: "90988145-57a1-40c6-a29e-904ecd3f96e1",
    can_group_ship: false
},
{
    base_price_uuid: "35b17d79-1786-4806-badc-70784705282f",
    product_baseprice: "6.50",
    runsize_uuid: "8a3afdf1-38ae-49a0-8736-3fedadc3dc93",
    runsize: "100",
    colorspec_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
    colorspec: "4/1",
    product_uuid: "90988145-57a1-40c6-a29e-904ecd3f96e1",
    can_group_ship: false
},
...
{
    base_price_uuid: "90f559e8-5d29-48b4-9452-a37063b35530",
    product_baseprice: "59.00",
    runsize_uuid: "64880f6e-cc7a-4974-838c-92be09e9eb52",
    runsize: "7500",
    colorspec_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
    colorspec: "4/1",
    product_uuid: "90988145-57a1-40c6-a29e-904ecd3f96e1",
    can_group_ship: false
}
],
totalResults: 78,
currentPage: 0,
maximumPages: 20
}

```

Login Providers

Users may have multiple logins with different Login Providers. A login Provider is the definition of a login method that can be assigned to any User.

Retrieve Products FEED

Products Feed is a hydrated version of product details. This helps users to reduce the number of API calls and get more product data in one request. The data returned is equivalent of crawling products detail page with all options and prices.

Due to large data set in the response, it is paginated for ease of use.

Resource URI

GET /printproducts/productsfeed

Input Parameters

```
GET /printproducts/productsfeed?product_uuid={uuid}
@RequestParam product_uuid {uuid} The UUID of product.
```

Sample Single product Request URL

html

https://api.4over.com/printproducts/productsfeed?product_uuid=a0c5ad38-be9d-4efc-9b21-39cc69b11444

Sample Single Product Feed Response

JSON

```
{
"entities": [
    {
        "full_product_path": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444",
        "product_uuid": "a0c5ad38-be9d-4efc-9b21-39cc69b11444",
        "product_code": "16P7-ACAKFOSPUVBK-4_25X5_5",
        "product_description": "4.25\" X 5.5\" 16PT Announcement Cards with Akuafoil w/ Spot UV on the back, FLAT - No Scoring",
        "categories_path": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/categories",
        "categories": [
            {
                "category_uuid": "c3e697c7-0abd-4ca4-8ca4-44ac9872b569",
                "category_name": "Akuafoil",
                "category_description": "Akuafoil"
            }
        ],
        "product_option_groups_path": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups",
        "product_option_groups": [
            {
                "product_option_group_uuid": "b6f8d6b4-9909-4cd7-bbc0-b65b6e6460eb",
                "product_option_group_name": "Product Type",
                "minoccurs": "1",
                "maxoccurs": "1",
                "options": [
                    {
                        "option_uuid": "d7282ff7f-e4d8-43c2-b727-91667f6257bd",
                        "option_name": "Majestic",
                        "option_description": "Majestic",
                        "capi_name": "Majestic",
                        "capi_description": "Majestic",
                        "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/b6f8d6b4-9909-4cd7-bbc0-b65b6e6460eb/options/d7282ff7f-e4d8-4",
                        "option_prices_list": [
                            {
                                "option_price_uuid": "35123458-ec73-44a5-9f32-d8c3f61e1113",
                                "option_name": "Majestic",
                                "startqty": 1,
                                "endqty": 100000,
                                "price": "0",
                                "price_per_qty": "0",
                                "is_flat_fee": true,
                                "qty": 0,
                                "is_percentage": false
                            }
                        ]
                    }
                ],
                "product_option_group_uuid": "d10848ac-8885-441a-a835-3c38050ff964",
                "product_option_group_name": "Majestic Type",
                "minoccurs": "1",
                "maxoccurs": "1",
                "options": [
                    {
                        "option_uuid": "358c1670-4d0c-48ab-a511-0d0c2581405d",
                        "option_name": "Akuafoil",
                        "option_description": "Akuafoil",
                        "capi_name": "Akuafoil",
                        "capi_description": "Akuafoil"
                    }
                ]
            }
        ]
    }
]
```

```

"option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/d10848ac-8885-441a-a835-3c38050ff964/options/358c1670-4d0c-41
"option_prices_list": [
    {
        "option_price_uuid": "226d9b8e-b50a-429f-8fe1-a1223546582a",
        "option_name": "Akuafoil",
        "startqty": 1,
        "endqty": 100000,
        "price": "0",
        "price_per_qty": "0",
        "is_flat_fee": true,
        "qty": 0,
        "is_percentage": false
    }
]
},
{
    "product_option_group_uuid": "b19d4ac3-2d48-40c0-9729-e35af6846271",
    "product_option_group_name": "Product Category",
    "minoccurs": "1",
    "maxoccurs": "1",
    "options": [
        {
            "option_uuid": "afc43903-b91d-4869-9f05-9fa1eb7dcbea",
            "option_name": "Announcement Cards",
            "option_description": "Announcement Cards",
            "capi_name": "Announcement Cards",
            "capi_description": "Announcement Cards",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/b19d4ac3-2d48-40c0-9729-e35af6846271/options/afc43903-b91d-41
            "option_prices_list": [
                {
                    "option_price_uuid": "1411a6f2-3e0c-45df-9f2c-db70cc71914c",
                    "option_name": "Announcement Cards",
                    "startqty": 1,
                    "endqty": 100000,
                    "price": "0",
                    "price_per_qty": "0",
                    "is_flat_fee": true,
                    "qty": 0,
                    "is_percentage": false
                }
            ]
        }
    ],
    {
        "product_option_group_uuid": "34f407f8-0b50-4227-9378-10fddefbe596",
        "product_option_group_name": "Size",
        "minoccurs": "1",
        "maxoccurs": "1",
        "options": [
            {
                "option_uuid": "265ef6d8-e93a-4f72-81f5-391adb603874",
                "option_name": "4.25\" x 5.5\"",
                "option_description": "4.25\" x 5.5\"",
                "capi_name": "4.25\" x 5.5\"",
                "capi_description": "4.25\" x 5.5\"",
                "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/34f407f8-0b50-4227-9378-10fddefbe596/options/265ef6d8-e93a-4
                "option_prices_list": []
            }
        ],
        {
            "product_option_group_uuid": "88c28e92-7c8c-4c05-9908-dcd495e0957a",
            "product_option_group_name": "Product Orientation",
            "minoccurs": "1",
            "maxoccurs": "1",
            "options": [
                {
                    "option_uuid": "f169e8b1-5d3f-408a-81fd-c857f7b9c37b",
                    "option_name": "Horizontal",
                    "option_description": "Horizontal",
                    "capi_name": "Horizontal",
                    "capi_description": "Horizontal",
                    "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/88c28e92-7c8c-4c05-9908-dcd495e0957a/options/f169e8b1-5d3f-
                    "option_prices_list": []
                },
                {
                    "option_uuid": "991b850a-6643-48d3-afa6-bcda4cf58c85",
                    "option_name": "Vertical",
                    "option_description": "Vertical",
                    "capi_name": "Vertical",
                    "capi_description": "Vertical",
                    "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/88c28e92-7c8c-4c05-9908-dcd495e0957a/options/991b850a-6643-
                    "option_prices_list": []
                }
            ],
            {
                "product_option_group_uuid": "5ffffd29b-af78-41af-a216-7cdaf8d55177",
                "product_option_group_name": "Shape",
                "minoccurs": "1",
                "maxoccurs": "1",
                "options": [
                    {
                        "option_uuid": "ee567ae7-d0e9-47ca-830a-b172c097b44f",
                        "option_name": "Rectangle",
                        "option_description": "Rectangle",
                        "capi_name": "Rectangle",
                        "capi_description": "Rectangle",
                        "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/5ffffd29b-af78-41af-a216-7cdaf8d55177/options/ee567ae7-d0e9-4
                        "option_prices_list": [
                            {
                                "option_price_uuid": "7f17ccdd-7ab2-489d-bacb-32c2b8159ad9",
                                "option_name": "Rectangle",
                                "startqty": 1,
                                "endqty": 1000000,
                                "price": "0",
                                "price_per_qty": "0",
                                "is_flat_fee": true,
                                "qty": 1,
                                "is_percentage": false
                            }
                        ]
                    }
                ],
                {
                    "product_option_group_uuid": "24865ffa-793d-43ea-b3b1-d1b5cf22268d",
                    "product_option_group_name": "Stock",
                    "minoccurs": "1",
                    "maxoccurs": "1",
                    "options": [
                        {
                            "option_uuid": "cb84e4f5-cf63-4c25-b3c3-d22fc7dcf09d",
                            "option_name": "16PT C2S",
                            "option_description": "16PT Stock, coated two sides",
                            "capi_name": "16PT C2S",
                            "capi_description": "16PT Stock, coated two sides",
                            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/options/cb84e4f5-cf63-4
                            "option_prices_list": []
                        }
                    ],
                    {
                        "product_option_group_uuid": "26ca0df3-0682-4f37-8979-409868e2df2d",
                        "product_option_group_name": "Coating",
                        "minoccurs": "1",
                        "maxoccurs": "1",
                        "options": [
                            {
                                "option_uuid": "88542d07-0352-4839-9e2e-a2c8d1c343ef",
                                "option_name": "Spot UV",
                                "option_description": "Spot UV",
                                "capi_name": "Spot UV",
                                "capi_description": "Spot UV",
                                "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/26ca0df3-0682-4f37-8979-409868e2df2d/options/88542d07-0352-4839-9e2e-a2c8d1c343ef"
                            }
                        ]
                    }
                ]
            }
        ]
    }
]
```

```

"option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/26ca0df3-0682-4f37-8979-409868e2df2d/options/88542d07-0352-41
"option_prices_list": [
    {
        "option_price_uuid": "4df71a03-a564-4b80-a417-07flacba6047",
        "option_name": "Spot UV",
        "startqty": 1,
        "endqty": 100000,
        "price": "0",
        "price_per_qty": "0",
        "is_flat_fee": true,
        "qty": 1,
        "is_percentage": false
    },
    {
        "option_price_uuid": "ff1bde54-8c59-4e11-9fc5-e6630eec5139",
        "option_name": "Spot UV",
        "startqty": 1,
        "endqty": 100000,
        "price": "0",
        "price_per_qty": "0",
        "is_flat_fee": true,
        "qty": 1,
        "is_percentage": false
    }
]
},
{
    "product_option_group_uuid": "86c459f5-b6fc-4125-8b79-4d5ef12a2a13",
    "product_option_group_name": "Spot UV Sides",
    "minoccurs": "1",
    "maxoccurs": "1",
    "options": [
        {
            "option_uuid": "6ce4b787-3b55-436a-b8d6-b5fe797ee0b6",
            "option_name": "Spot UV Back",
            "option_description": "Spot UV back only, Full UV on the front",
            "capi_name": "Spot UV Back",
            "capi_description": "Spot UV Back",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/86c459f5-b6fc-4125-8b79-4d5ef12a2a13/options/6ce4b787-3b55-41
            "option_prices_list": [
                {
                    "option_price_uuid": "ale8d8d4-a5b1-4768-88e6-83f43053aa16",
                    "option_name": "Spot UV Back",
                    "startqty": 0,
                    "endqty": 1000000,
                    "price_per_qty": "0",
                    "is_flat_fee": true,
                    "qty": 0
                }
            ]
        }
    ],
    "product_option_group_uuid": "38d33954-5a42-4112-a905-215eb827e62c",
    "product_option_group_name": "Colorspec",
    "minoccurs": "1",
    "maxoccurs": "1",
    "options": [
        {
            "option_uuid": "a75ac2f1-9911-48d6-841d-245b5ac08f27",
            "option_name": "5/0 (4/0 with Foil on Front)",
            "option_description": "5/0 (4/0 with Foil on Front)",
            "capi_name": "5/0 (4/0 with Foil on Front)",
            "capi_description": "5/0 (4/0 with Foil on Front)",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/options/a75ac2f1-9911-48d6-841d-245b5ac08f27",
            "option_prices_list": [
                {
                    "option_price_uuid": "fb00c417-d132-4ab7-8f5f-a8a9148f27e2",
                    "option_name": "5/0 (4/0 with Foil on Front)",
                    "startqty": 1,
                    "endqty": 100000,
                    "price": "0",
                    "price_per_qty": "0",
                    "is_flat_fee": true,
                    "qty": 0,
                    "is_percentage": false
                }
            ],
            "option_uuid": "a98d6ef3-be21-46ea-abc7-2cc0c24a1c7d",
            "option_name": "5/1 (4/1 with Foil on Front)",
            "option_description": "5/1 (4/1 with Foil on Front)",
            "capi_name": "5/1 (4/1 with Foil on Front)",
            "capi_description": "5/1 (4/1 with Foil on Front)",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/options/a98d6ef3-be21-46ea-abc7-2cc0c24a1c7d",
            "option_prices_list": [
                {
                    "option_price_uuid": "98971a09-f9f0-4e0f-ab40-fde4015d6a6b",
                    "option_name": "5/1 (4/1 with Foil on Front)",
                    "startqty": 1,
                    "endqty": 100000,
                    "price": "0",
                    "price_per_qty": "0",
                    "is_flat_fee": true,
                    "qty": 0,
                    "is_percentage": false
                }
            ],
            "option_uuid": "e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
            "option_name": "5/4 (4/4 with Foil on Front)",
            "option_description": "5/4 (4/4 with Foil on Front)",
            "capi_name": "5/4 (4/4 with Foil on Front)",
            "capi_description": "5/4 (4/4 with Foil on Front)",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/options/e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
            "option_prices_list": [
                {
                    "option_price_uuid": "531d5967-fcd4-4465-90a0-d763cc4740d5",
                    "option_name": "5/4 (4/4 with Foil on Front)",
                    "startqty": 1,
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"colorspec": "5/5 (4/4 with Foil on Both Sides)",
"option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/5f5d58f1-3717~",
"option_prices_list": [
    {
        "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
        "option_name": "224",
        "option_description": "2-4 Business Days",
        "option_price_uuid": "5f5d58f1-3717-491d-8392-562a4701f85a",
        "price": "0.00",
        "runsize_uuid": "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
        "runsize": "1000",
        "colorspec_uuid": "34527644-b4fd-4ffb-9092-1318eefcd9d9",
        "colorspec_name": "5/5 (4/4 with Foil on Both Sides)"
    }
],
{
"option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
"option_name": "224",
"option_description": "2-4 Business Days",
"runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
"runsize": "2500",
"colorspec_uuid": "2ba18f74-0f96-487e-8b6e-985b404b3305",
"colorspec": "4/5 (4/4 with Foil on Back)",
"option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/8128f18c-b5fa~",
"option_prices_list": [
    {
        "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
        "option_name": "224",
        "option_description": "2-4 Business Days",
        "option_price_uuid": "8128f18c-b5fa-4c00-badf-0e801a30d017",
        "price": "0.00",
        "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
        "runsize": "2500"
    }
]
}

```

```

    "colorspec_uuid": "2ba18f74-0f96-487e-8b6e-985b404b3305",
    "colorspec_name": "4/5 (4/4 with Foil on Back)"
  },
  {
    "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
    "option_name": "224",
    "option_description": "2-4 Business Days",
    "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
    "runsize": "2500",
    "colorspec_uuid": "a98ddef3-be21-46ea-abc7-2cc0c24alc7d",
    "colorspec": "5/1 (4/1 with Foil on Front)",
    "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/bd9164cb-41ef-",
    "option_prices_list": "[
      {
        "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
        "option_name": "224",
        "option_description": "2-4 Business Days",
        "option_price_uuid": "bd9164cb-41ef-4ec5-8528-bb5d8fa60af6",
        "price": "0.00",
        "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
        "runsize": "2500",
        "colorspec_uuid": "a98ddef3-be21-46ea-abc7-2cc0c24alc7d",
        "colorspec_name": "5/1 (4/1 with Foil on Front)"
      }
    ],
    {
      "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
      "option_name": "224",
      "option_description": "2-4 Business Days",
      "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
      "runsize": "2500",
      "colorspec_uuid": "e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
      "colorspec": "5/4 (4/4 with Foil on Front)",
      "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/863c288d-4450-",
      "option_prices_list": "[
        {
          "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
          "option_name": "224",
          "option_description": "2-4 Business Days",
          "option_price_uuid": "863c288d-4450-4327-a35d-7bbf9528abd9",
          "price": "0.00",
          "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
          "runsize": "2500",
          "colorspec_uuid": "e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
          "colorspec_name": "5/4 (4/4 with Foil on Front)"
        }
      ],
      {
        "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
        "option_name": "224",
        "option_description": "2-4 Business Days",
        "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
        "runsize": "2500",
        "colorspec_uuid": "34527644-b4fd-4ffb-9092-1318eefcd9d9",
        "colorspec": "5/5 (4/4 with Foil on Both Sides)",
        "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/c0cd45a8-9bf3-",
        "option_prices_list": "[
          {
            "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
            "option_name": "224",
            "option_description": "2-4 Business Days",
            "option_price_uuid": "c0cd45a8-9bf3-4c61-812e-85853b2b09b9",
            "price": "0.00",
            "runsize_uuid": "02d8d163-ee8f-41cc-acce-9863ad0deb38",
            "runsize": "2500",
            "colorspec_uuid": "34527644-b4fd-4ffb-9092-1318eefcd9d9",
            "colorspec_name": "5/5 (4/4 with Foil on Both Sides)"
          }
        ],
        {
          "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
          "option_name": "224",
          "option_description": "2-4 Business Days",
          "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
          "runsize": "5000",
          "colorspec_uuid": "2ba18f74-0f96-487e-8b6e-985b404b3305",
          "colorspec": "4/5 (4/4 with Foil on Back)",
          "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/0705417c-862a-",
          "option_prices_list": "[
            {
              "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
              "option_name": "224",
              "option_description": "2-4 Business Days",
              "option_price_uuid": "0705417c-862a-4277-9a39-90ff700069cf",
              "price": "0.00",
              "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
              "runsize": "5000",
              "colorspec_uuid": "2ba18f74-0f96-487e-8b6e-985b404b3305",
              "colorspec_name": "4/5 (4/4 with Foil on Back)"
            }
          ],
          {
            "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
            "option_name": "224",
            "option_description": "2-4 Business Days",
            "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
            "runsize": "5000",
            "colorspec_uuid": "a98ddef3-be21-46ea-abc7-2cc0c24alc7d",
            "colorspec": "5/1 (4/1 with Foil on Front)",
            "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/415c1770-8dbd-",
            "option_prices_list": "[
              {
                "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
                "option_name": "224",
                "option_description": "2-4 Business Days",
                "option_price_uuid": "415c1770-8dbd-4c4e-ba69-c031d5fc9017",
                "price": "0.00",
                "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
                "runsize": "5000",
                "colorspec_uuid": "a98ddef3-be21-46ea-abc7-2cc0c24alc7d",
                "colorspec_name": "5/1 (4/1 with Foil on Front)"
              }
            ],
            {
              "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
              "option_name": "224",
              "option_description": "2-4 Business Days",
              "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
              "runsize": "5000",
              "colorspec_uuid": "e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
              "colorspec": "5/4 (4/4 with Foil on Front)",
              "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/options/addd136f-c636-",
              "option_prices_list": "[
                {
                  "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
                  "option_name": "224",
                  "option_description": "2-4 Business Days",
                  "option_price_uuid": "addd136f-c636-438d-bed3-b7c5e9d46085",
                  "price": "0.00",
                  "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
                  "runsize": "5000",
                  "colorspec_uuid": "e9e9dfb3-fba1-4d60-972c-fd9ca5904d33",
                  "colorspec_name": "5/4 (4/4 with Foil on Front)"
                }
              ],
            }
          ]
        }
      ]
    }
  ]
}

```

```
{
  "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
  "option_name": "224",
  "option_description": "2-4 Business Days",
  "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
  "runsize": "5000",
  "colorspec_uuid": "34527644-b4fd-4ffb-9092-1318eefcd9d9",
  "colorspec": "5/5 (4/4 with Foil on Both Sides)",
  "option_prices": "https://api.4over.com/printproducts/products/a0c5ad38-be9d-4efc-9b21-39cc69b11444/optiongroups/f80e8179-b264-42ce-9f80-bb258a09afe/options/fa4452be-742b-",
  "option_prices_list": [
    {
      "option_uuid": "9f85d0c4-d344-4088-a719-86f8f84d504d",
      "option_name": "224",
      "option_description": "2-4 Business Days",
      "option_price_uuid": "fa4452be-742b-4184-bc53-341b778ff8cc",
      "price": "0.00",
      "runsize_uuid": "e824bf9f-d22d-4070-926d-42c6dd5ef515",
      "runsize": "5000",
      "colorspec_uuid": "34527644-b4fd-4ffb-9092-1318eefcd9d9",
      "colorspec_name": "5/5 (4/4 with Foil on Both Sides)"
    }
  ]
},
{
  "totalResults": 1,
  "currentPage": 0,
  "maximumPages": 20
}
]
```

Sample Request

html

<https://api.4over.com/printproducts/productsfeed>

Input Parameters

```
GET /printproducts/productsfeed?offset={integer}&max={integer}

@RequestParam max={integer}. The maximum number of product per page should not be more than 20.

See link to the pagination page : https://api-users.4over.com/?page\_id=24
```

Sample Response

JSON

```
{
  "entities": [
    {
      "full_product_path": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367",
      "product_uuid": "89f0a3e4-c953-43df-92f1-962ab7826367",
      "product_code": "21PT-4DBC2-2.125X3.375",
      "product_description": "2.125\"X3.375\"4DRoundCornerBusinesscardswith2Flips",
      "categories_path": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/categories",
      "categories": [
        {
          "category_uuid": "9f0f88d1-33f4-43c2-80f6-78bc01297681",
          "category_name": "4DLenticularPrints",
          "category_description": "4DLenticularPrints"
        }
      ],
      "product_option_groups_path": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups",
      "product_option_groups": [
        {
          "product_option_group_uuid": "34f407f8-0b50-4227-9378-10fddefbe596",
          "product_option_group_name": "Size",
          "minoccurs": "1",
          "maxoccurs": "1",
          "options": [
            {
              "option_uuid": "071c7709-a420-478c-b766-a9d837afe6c3",
              "option_name": "2.125\"x3.375\"",
              "option_prices": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/34f407f8-0b50-4227-9378-10fddefbe596/option_prices_list",
              "option_prices_list": [
                {}
              ]
            }
          ]
        },
        {
          "product_option_group_uuid": "24865ffa-793d-43ea-b3b1-d1b5cf22268d",
          "product_option_group_name": "Stock",
          "minoccurs": "1",
          "maxoccurs": "1",
          "options": [
            {
              "option_uuid": "0df2401b-85df-4cae-b78e-a2027d093e7f",
              "option_name": "21PT",
              "option_description": "",
              "option_prices": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d/option_prices_list",
              "option_prices_list": [
                {}
              ]
            }
          ]
        },
        {
          "product_option_group_uuid": "87e09691-ef33-4cf4-8f17-48af06ce84f4",
          "product_option_group_name": "Runsize",
          "minoccurs": "1",
          "maxoccurs": "1",
          "options": [
            {
              "option_uuid": "c2849f26-63d8-4ba1-99a0-6cf51e03354e",
              "option_name": "25",
              "option_description": "25",
              "option_prices": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/option_prices_list",
              "option_prices_list": [
                {}
              ]
            },
            {
              "option_uuid": "987f2b8b-1205-4af2-97f3-4f5def2936e3",
              "option_name": "50",
              "option_description": "50",
              "option_prices": "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/option_prices_list",
              "option_prices_list": [
                {}
              ]
            },
            {
              "option_uuid": "8a3a0fd1-38ae-49a0-8736-3fedadc3dc93",
              "option_name": "100",
              "option_description": "100"
            }
          ]
        }
      ]
    }
  ]
}
```

```

        option_description: "100",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    },
    {
        option_uuid: "6237a36b-b046-4ef6-8fed-6cb9c22a5ece",
        option_name: "250",
        option_description: "250",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    },
    {
        option_uuid: "f593fda3-2d5c-4b9e-9c2c-6197b899ae74",
        option_name: "500",
        option_description: "500",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    },
    {
        option_uuid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
        option_name: "1000",
        option_description: "1000",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    },
    {
        option_uuid: "02d8d163-ee8f-41cc-acce-9863ad0deb38",
        option_name: "2500",
        option_description: "2500",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    },
    {
        option_uuid: "e824bf9f-d22d-4070-926d-42c6dd5ef515",
        option_name: "5000",
        option_description: "5000",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/87e09691-ef33-4cf4-8f17-48af06ce84f4/oj
        option_prices_list: [
        ]
    }
},
{
    product_option_group_uuid: "38d33954-5a42-4112-a905-215eb827e62c",
    product_option_group_name: "Colorspec",
    minOccurs: "1",
    maxOccurs: "1",
    options: [
        {
            option_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
            option_name: "4/0 (4colorfront)",
            option_description: "",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/oj
            option_prices_list: [
            ]
        },
        {
            option_uuid: "2fd6ad29-756c-4927-a66f-b0c0116e31f9",
            option_name: "4/1",
            option_description: "",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/oj
            option_prices_list: [
            ]
        },
        {
            option_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            option_name: "4/4",
            option_description: "",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/38d33954-5a42-4112-a905-215eb827e62c/oj
            option_prices_list: [
            ]
        }
    ]
},
{
    product_option_group_uuid: "26ca0df3-0682-4f37-8979-409868e2df2d",
    product_option_group_name: "Coating",
    minOccurs: "1",
    maxOccurs: "1",
    options: [
        {
            option_uuid: "5a5cf5bf-2e02-4675-9391-f6a8370ad0e8",
            option_name: "N/A",
            option_description: "",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/26ca0df3-0682-4f37-8979-409868e2df2d/oj
            option_prices_list: [
            ]
        }
    ]
},
{
    product_option_group_uuid: "6146bf5b-73d3-4463-9f39-e121d598bfdf",
    product_option_group_name: "RadiusofCorners",
    minOccurs: "1",
    maxOccurs: "1",
    options: [
        {
            option_uuid: "479fbfe7-6a0c-4895-8c9a-81739b7486c9",
            option_name: "Rounded1/4",
            option_description: "RadiusofCorners",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/6146bf5b-73d3-4463-9f39-e121d598bfdf/oj
            option_prices_list: [
                {
                    option_price_uuid: "8e3676b6-8848-4656-9f41-72ab779bba16",
                    option_name: "Rounded1/4",
                    startqty: 25,
                    endqty: 250000,
                    price: "0.00",
                    is_flat_fee: true,
                    price_per_qty: "0",
                    qty: 0,
                    is_percentage: false
                }
            ]
        }
    ]
}

```

```
{
    option_uuid: "589680c7-ee9a-431b-9d12-d7aeb1386a97",
    option_name: "Rounded1/8",
    option_description: "RadiusofCorners",
    option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/6146bf5b-73d3-4463-9f39-e121d598bffd/option_prices_list: [
        {
            option_price_uuid: "e9a3c14e-8674-409e-8922-44b651c9c3f8",
            option_name: "Rounded1/8",
            startqty: 25,
            endqty: 25000,
            price: "0.00",
            is_flat_fee: true,
            price_per_qty: "0",
            qty: 0,
            is_percentage: false
        }
    ]
},
{
    product_option_group_uuid: "f80e8179-b264-42ce-9f80-bb258a09a1fe",
    product_option_group_name: "Turn-Around",
    minoccurs: 1,
    maxoccurs: 1,
    options: [
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "c2849f26-63d8-4ba1-99a0-6cf51e03354e",
            runsize: "25",
            colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
            colorspec: "4/0",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "c2849f26-63d8-4ba1-99a0-6cf51e03354e",
            runsize: "25",
            colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            colorspec: "4/4",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "987f2b8b-1205-4af2-97f3-4f5def2936e3",
            runsize: "50",
            colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
            colorspec: "4/0",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "987f2b8b-1205-4af2-97f3-4f5def2936e3",
            runsize: "50",
            colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            colorspec: "4/4",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "8a3a0fd1-38ae-49a0-8736-3fedadc3dc93",
            runsize: "100",
            colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
            colorspec: "4/0",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "8a3a0fd1-38ae-49a0-8736-3fedadc3dc93",
            runsize: "100",
            colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            colorspec: "4/4",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "6237a36b-b046-4ef6-8fed-6cb9c22a5ece",
            runsize: "250",
            colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
            colorspec: "4/0",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        },
        {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "6237a36b-b046-4ef6-8fed-6cb9c22a5ece",
            runsize: "250",
            colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            colorspec: "4/4",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ],
        }
    ]
}
```

```

},
{
  option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
  option_name: "527",
  option_description: "5-7BusinessDays",
  runsize_uuid: "f593fda3-2d5c-4b9e-9c2c-6197b899ae74",
  runsize: "500",
  colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
  colorspec: "4/0",
  option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
    ]
  },
  {
    option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
    option_name: "527",
    option_description: "5-7BusinessDays",
    runsize_uuid: "f593fda3-2d5c-4b9e-9c2c-6197b899ae74",
    runsize: "500",
    colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
    colorspec: "4/4",
    option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
      ]
    },
    {
      option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
      option_name: "527",
      option_description: "5-7BusinessDays",
      runsize_uuid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
      runsize: "1000",
      colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
      colorspec: "4/0",
      option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
        ]
      },
      {
        option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
        option_name: "527",
        option_description: "5-7BusinessDays",
        runsize_uuid: "52e3d710-0e8f-4d4d-8560-7d4d8655be69",
        runsize: "1000",
        colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
        colorspec: "4/4",
        option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
          ]
        },
        {
          option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
          option_name: "527",
          option_description: "5-7BusinessDays",
          runsize_uuid: "02d8d163-ee8f-41cc-acce-9863ad0deb38",
          runsize: "2500",
          colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
          colorspec: "4/0",
          option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
            ]
          },
          {
            option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
            option_name: "527",
            option_description: "5-7BusinessDays",
            runsize_uuid: "02d8d163-ee8f-41cc-acce-9863ad0deb38",
            runsize: "2500",
            colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
            colorspec: "4/4",
            option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
              ]
            },
            {
              option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
              option_name: "527",
              option_description: "5-7BusinessDays",
              runsize_uuid: "e824bf9f-d22d-4070-926d-42c6dd5ef515",
              runsize: "5000",
              colorspec_uuid: "32d3c223-f82c-492b-b915-ba065a00862f",
              colorspec: "4/0",
              option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
                ]
              },
              {
                option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
                option_name: "527",
                option_description: "5-7BusinessDays",
                runsize_uuid: "e824bf9f-d22d-4070-926d-42c6dd5ef515",
                runsize: "5000",
                colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
                colorspec: "4/4",
                option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
                  ]
                },
                {
                  option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
                  option_name: "527",
                  option_description: "5-7BusinessDays",
                  runsize_uuid: "e824bf9f-d22d-4070-926d-42c6dd5ef515",
                  runsize: "5000",
                  colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
                  colorspec: "4/4",
                  option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
                    ]
                  },
                  {
                    option_uuid: "e04b099b-4ac3-4a35-84d0-c530df7b7aff",
                    option_name: "527",
                    option_description: "5-7BusinessDays",
                    runsize_uuid: "e824bf9f-d22d-4070-926d-42c6dd5ef515",
                    runsize: "5000",
                    colorspec_uuid: "13abbd7-1d64-4f25-8bb2-c179b224825d",
                    colorspec: "4/4",
                    option_prices: "https://api.4over.com/printproducts/products/89f0a3e4-c953-43df-92f1-962ab7826367/optiongroups/f80e8179-b264-42ce-9f80-bb258a09a1fe/option_prices_list: [
                      ]
                    }
                  ],
                  totalResults: 2043,
                  currentPage: 0,
                  maximumPages: 1
                }
              
```

Logins

Login is the association between a User and a Login Provider. Logins define different ways for a User to access the 4over API. A User can have one or more Logins.

Print Products

All product related data is read-only. All product related data is presented as product Options. There are options that are required such as Stock type, Size, Colorspec and Runsize where some others are

optional such as foldings, die-cut and etc.

Files

File Service

This is a service used to make a file resource available to the 4over API. File resources could be located at the users server or it could be posted to 4over's servers. In either case, a path to the file resource is required. In addition to the path, it is necessary to identify a file reason when an order is placed. The file reason will identify what purpose the file is used for, meaning if it is the front file, back file, a mask file or any other reason.

Possible file reasons are specified below. This will give the users the flexibility to use the same resource for different jobs.

Abbreviations | Possible file reasons/types

```
fr | Front
bk | Back
fm | Front mask
bm | Back mask
ffm | Front foil mask
bfm | Back foil mask
cm | Cut mask
in | In
out | Out
l1 | Lenticular file 1
l2 | Lenticular file 2
l3 | Lenticular file 3 |
cvr | Cover
multipagepdf | Multi-Page PDF document
```

Services

Services provide different routes to get additional information about products or jobs such as Shipping Estimate or supporting resources such as files.

Orders

Orders are placed by POST-ing to the Order route. An order can have one or more jobs attached to it. Each job is a collection of UUIDs that identify a product and all its options plus shipping information. Once an order submission is successful, a response containing a unique id for each job is returned. These unique job-numbers can be used to GET status of each job by using the Order Status route.

Qualified products that ship-to same address can be group shipped. Currently only multiple set orders with exact same product and options can be group shipped.

PUB/SUB

PUB/SUB system is a publication/subscription system that API Users can subscribe to and get notifications on updated resources.

Users can provide a URI per route that can handle the resource provided by the published route. Once a route is modified, a resource to the modified route will be published to User's corresponding URI. Users can subscribe to all available published routes by e-mailing a URI per publication.

Current available routes are:

- Job status routes
- Conformation tool URI

Published resources have the following format:

Job Status Routes:

JSON

```
[{"source_job_id": "Z3126529173-001", "job_name": "Sample Order 1", "resource": "https://api.4over.com/orders/Z3126529173-001/status"}, {"source_job_id": "Z2762329119-001", "job_name": "Sample Order 2", "resource": "https://api.4over.com/orders/Z2762329119-001/status"}]
```

Product Routes :

Whenever there is an update to the product, it sends the updated product data to the customer's listener API endpoint based on their chosen subscription frequency: daily, weekly, or monthly.

Example Payload that will be sent to subscriber endpoint:

JSON

```
[{"product_uuid": "3485feeb-37b0-4f72-b3e7-37ada20dc247", "product_code": "16PT-PFSLK-6X9", "product_description": "6\" X 9\" 16PT Silk Laminated Presentation Folder", "full_product_path": "https://dev-api.4over.com/printproducts/products/3485feeb-37b0-4f72-b3e7-37ada20dc247", "categories": "https://dev-api.4over.com/printproducts/products/3485feeb-37b0-4f72-b3e7-37ada20dc247/categories", "product_option_groups": "https://dev-api.4over.com/printproducts/products/3485feeb-37b0-4f72-b3e7-37ada20dc247/optiongroups", "product_base_prices": "https://dev-api.4over.com/printproducts/products/3485feeb-37b0-4f72-b3e7-37ada20dc247/baseprices", "last_updated_at": "2024-06-13 04:33:55.79333-07"}, {"product_uuid": "f3ac2bbf-16c3-4fd4-96d7-346aa83c2626", "product_code": "WHBOPP-ROLL-1X1", "product_description": "1\" x 1\" White BOPP Roll Label", "full_product_path": "https://dev-api.4over.com/printproducts/products/f3ac2bbf-16c3-4fd4-96d7-346aa83c2626", "categories": "https://dev-api.4over.com/printproducts/products/f3ac2bbf-16c3-4fd4-96d7-346aa83c2626/categories", "product_option_groups": "https://dev-api.4over.com/printproducts/products/f3ac2bbf-16c3-4fd4-96d7-346aa83c2626/optiongroups", "product_base_prices": "https://dev-api.4over.com/printproducts/products/f3ac2bbf-16c3-4fd4-96d7-346aa83c2626/baseprices", "last_updated_at": "2024-06-13 13:38:53.641697-07"}]
```

Products feed Routes :

Example Payload that will be sent to subscriber endpoint:

JSON

```
{"entities": [{"full_product_path": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4", "product_uuid": "c2552661-c1e4-45e5-985e-f4b0146af3b4", "product_code": "4CORO-AFRAMERIGID-24X36", "product_description": "24X36 - 4mm Coroplast Sidewalk Sign", "product_status": "PUBLISHED"}]}
```

```

"categories_path": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/categories",
"categories": [
    {
        "category_uuid": "900a16a6-7836-4546-b8c5-3b1678c0287e",
        "category_name": "Sidewalk Signs",
        "category_description": "Sidewalk Signs"
    }
],
"product_option_groups_path": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups",
"product_option_groups": [
    {
        "product_option_group_uuid": "34f407f8-0b50-4227-9378-10fddefbe596",
        "product_option_group_name": "Size",
        "minoccurs": "1",
        "maxoccurs": "1",
        "validator": null,
        "options": [
            {
                "option_uuid": "821d62bd-54c0-4880-b742-ed26e7b39a85",
                "option_name": "24\" x 36\"",
                "option_description": null,
                "cap1_name": "24\" x 36\"",
                "cap1_description": "24\" x 36\"",
                "option_prices": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups/34f407f8-0b50-4227-9378-10fddefbe596",
                "option_prices_list": []
            }
        ]
    },
    {
        "product_option_group_uuid": "88c28e92-7c8c-4c05-9908-dcd495e0957a",
        "product_option_group_name": "Product Orientation",
        "minoccurs": "1",
        "maxoccurs": "1",
        "validator": null,
        "options": [
            {
                "option_uuid": "991b850a-6643-48d3-afa6-bcda4cf58c85",
                "option_name": "vertical",
                "option_description": "Vertical",
                "cap1_name": "Vertical",
                "cap1_description": "Vertical",
                "option_prices": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups/88c28e92-7c8c-4c05-9908-dcd495e0957a",
                "option_prices_list": []
            }
        ]
    },
    {
        "product_option_group_uuid": "24865ffa-793d-43ea-b3b1-d1b5cf22268d",
        "product_option_group_name": "Stock",
        "minoccurs": "1",
        "maxoccurs": "1",
        "validator": null,
        "options": [
            {
                "option_uuid": "abb05c41-c43a-4e33-9469-b84184082483",
                "option_name": "4mm White Coroplast",
                "option_description": "Stock",
                "cap1_name": "4mm White Coroplast",
                "cap1_description": "4mm White Coroplast",
                "option_prices": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups/24865ffa-793d-43ea-b3b1-d1b5cf22268d",
                "option_prices_list": [
                    {
                        "option_price_uuid": "e53adc1d-705c-414b-924e-2d4b73337843",
                        "option_name": "4mm White Coroplast",
                        "startqty": 1,
                        "endqty": 100000,
                        "price": "0",
                        "price_per_qty": "0",
                        "is_flat_fee": true,
                        "qty": 0,
                        "is_percentage": false
                    }
                ]
            }
        ]
    },
    {
        "product_option_group_uuid": "26ca0df3-0682-4f37-8979-409868e2df2d",
        "product_option_group_name": "Coating",
        "minoccurs": "1",
        "maxoccurs": "1",
        "validator": null,
        "options": [
            {
                "option_uuid": "3e7618de-abca-4bda-9f97-8b9129e913d8",
                "option_name": "No Coating",
                "option_description": "UNCOATED",
                "cap1_name": "No Coating",
                "cap1_description": "UNCOATED",
                "option_prices": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups/26ca0df3-0682-4f37-8979-409868e2df2d",
                "option_prices_list": [
                    {
                        "option_price_uuid": "a62b386c-31c9-4d19-8a6f-af1fdb75a98a",
                        "option_name": "No Coating",
                        "startqty": 1,
                        "endqty": 100000,
                        "price": "0",
                        "price_per_qty": "0",
                        "is_flat_fee": true,
                        "qty": 0,
                        "is_percentage": false
                    }
                ]
            }
        ]
    },
    {
        "product_option_group_uuid": "38d33954-5a42-4112-a905-215eb827e62c",
        "product_option_group_name": "Colorspec",
        "minoccurs": "1",
        "maxoccurs": "1",
        "validator": null,
        "options": [
            {
                "option_uuid": "32d3c223-f82c-492b-b915-ba065a00862f",
                "option_name": "4/0 (4 color front)",
                "option_description": "4 Color Front",
                "cap1_name": "4/0 (4 color front)",
                "cap1_description": "4/0 (4 color front)",
                "option_prices": "https://dev-api.4over.com/printproducts/products/c2552661-c1e4-45e5-985e-f4b0146af3b4/optiongroups/38d33954-5a42-4112-a905-215eb827e62c",
                "option_prices_list": [
                    {
                        "option_price_uuid": "f95c9cc8-dbfc-416a-8411-8957acc66fad",
                        "option_name": "4/0 (4 color front)",
                        "startqty": 1,
                        "endqty": 100000,
                        "price": "0",
                        "price_per_qty": "0",
                        "is_flat_fee": true,
                        "qty": 0,
                        "is_percentage": false
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    }
]

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    "option_prices_list": []
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    "validator": null,
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```

EDDM

We offer two EDDM Solutions: Print Only and Full Service

Print Only: with our Print Only EDDM solution, you decide how you'd like your orders processed and we'll determine which sizes and products will work. To process an EDDM order on your own, visit <https://www.usps.com/business/every-door-direct-mail.htm>.

Full Service: our Full Service EDDM solution takes the guess work out of the EDDM process. Select a product, choose your routes, then upload artwork. We'll take care of the paperwork and delivery.

Print Only products do not need to use EDDM APIs because customers will handle the routes and necessary documentations manually with the USPS.

However, full service EDDM products will require additional information including routes, number of addresses, delivery date and etc. EDDM APIs supply necessary APIs to allow users submit all data needed for full service EDDM products.

Direct Mail

Direct Mail is one of the most effective marketing mediums for generating new leads, selling products and services, acquiring new customers, and increasing profitability. 4over offers the convenience of printing your mailpieces, plus addressing, sorting, and delivering them to the Post Office
