

Taiwan E-Invoice API Document
For Cross-border E-Commerce Suppliers

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一). API description

1.1. API Transfer Method

- Adopt HTTP POST transfer · verify by SHA256 signature value.
【採用的是 HTTP POST 的方式傳送，以 SHA256 簽章值驗證】
- Data Format: JSON
- API test URL : <https://webapi.systemlead.com/tcbeapi/>
- Exclusive SALT: 【Provide it after confirmed cooperation. 】

| 欄位名稱 E-inv. Field Name | 欄位型態 Field Type | 欄位長度 Data length | 欄位說明 Description |
|---------------------------|--------------------|---------------------|--|
| CompanyID | Char | 8 | Sell's Business Administration Number (BAN) 賣方公司統一編號 |
| Timestamp | String | | Refer website: https://www.epochconverter.com/ |
| Signature | String | | Steps of calculate the signature: C# Sample website: https://dotnetfiddle.net/u9XoOI |
| Data | String | | Refer all API format description. |

1.2. API Transfer Sample:

***Caution: All the data must be packed in API transfer format.**

【注意:傳送資料都需要被包裹 API 傳送格式內】

- The sample of single data.

【單筆資料範例】

```
{
  "CompanyID": "12345678",
  "Timestamp": "1477585655",
  "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC",
  "Data": {[Order Data]}
}
```

- The sample of multiple data

【多筆資料範例】

```
[
  {
    "CompanyID": "12345678",
    "Timestamp": "1477585655",
    "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC",
    "Data": {[Data1]}
  },
  {
    "CompanyID": "12345678",
    "Timestamp": "1477585655",
    "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC",
    "Data": {[Data2]}
  }
]
```

1.3. Signature:

The steps of generate signature:

1. String TimeStamp and Hash Salt into a single string
【將{TimeStamp}{專屬加密 Salt} 組合成字串】
2. Pass the stringed single string through SHA256 for hash operation
【將字串使用 SHA256 Hash】
3. Convert the result of the hash operation into a Hex string
【將產生的 Byte[]轉成 Hex String】
4. Check Signature

[Check Url:

`https://teinv.systemlead.com/api/Provide/CheckSignature?CompanyID={ExpediaBAN}&TimeStamp={TimeStamp}&Signature={Signature}`

Example:

`https://teinv.systemlead.com/api/Provide/CheckSignature?CompanyID=12345678&TimeStamp=1505968095&Signature=8B73D135F377FFFB3F303BCDEDB96C29BF38FB4EC68889A2C0011D36F2ADD018]`

Return: ture means the signature is correct; false means the signature error.

※ C# Sample website: <https://dotnetfiddle.net/u9XoOI>

二). The list of API

2.1 Append Order Data (Issue e-GUI by e-invoice system)

- POST path: Append/Order
- Refer 3.4 The field description of Append Order Data
- Sample: **Red part is signature**

```
{
  "CompanyID": "12345678",
  "Timestamp": "1477585655",
  "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC",
  "Data": {
    "CompanyID": "12345678",
    "BillingNo": "A201901270001",
    "InvoiceFor": "C",
    "BuyerID": "0000000000",
    "BuyerName": "nestor",
    "BuyerTelNo": "0921268399",
    "BuyerEmail": "nestor@systemlead.com",
    "PrintMark": "N",
    "RandomNumber": "9999",
    "CarrierId": "nestor@systemlead.com",
    "CarrierId2": "nestor@systemlead.com",
    "CarrierType": "5G0001",
    "TaxType": "1",
    "Currency": "USD",
    "OriginalCurrencyAmount": 30.5,
    "Details": [
      {
        "DetailID": "001",
        "ProductID": "P1234",
        "ProductName": "產品名稱",
        "Quantity": 1.0,
        "UnitPrice": 10.0,
        "SubTotal": 10.0
      },
      {
        "DetailID": "002",
        "ProductID": "P2345",
        "ProductName": "長度 256 個字",
        "Quantity": 1.0,
        "UnitPrice": 15.5,
        "SubTotal": 15.5
      }
    ]
  }
}
```

```
{
  "DetailID":"003",
  "ProductID":"P3456",
  "ProductName":"明細編號 3 碼",
  "Quantity":1.0,
  "UnitPrice":5.0,
  "SubTotal":5.0
}
]
```

The sample of return message from API:

```
// Upload Success
{
  "InvoiceID": "MV31477958",
  "InvoiceNumber": "MV31477958",
  "InvoiceDateTime": "2019-01-27T16:27:34",
  "AuthCode": "8AA31A63-20C1-4248-83C2-0762CFE2003F",
  "BillingNo": "A201901270001",
  "StatusCode": 1
}

// Upload Fail
{
  "InvoiceDateTime": "2019-01-27T16:27:34",
  "Message": "BillingNo: A201901270001 duplicate",
  "ResultMessage": "BillingNo: A201901270001 duplicate",
  "BillingNo": "A201901270001",
  "StatusCode": 0
}

// Signature verification error
{
  "Message": "Signature verification error",
  "ResultMessage": "Signature verification error",
  "StatusCode": 0
}
```

2.2 Cancel Invoice

- POST path: Update/CancelInvoices
- Refer 3.5 The field description of Cancel Invoice
- Sample:

```
[  
  {  
    "CompanyID": "12345678",  
    "Timestamp": "1477585655",  
    "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC",  
    "Data": {  
      "SellerID": "12345678",  
      "InvoiceNumber": "MV31477958",  
      "CancelDate": "2019-01-27T05:01:30",  
      "CancelReason": "Order return"  
    }  
  }  
]
```


2.3 Allowance Invoice

- POST path: Update/AllowanceInvoice
- Refer 3.6 The field description of Allowance Invoice
- Sample:

```
[
  {
    "CompanyID": "12345678",
    "Timestamp": "1477585655",
    "Signature": "4754A5FE41749DE99E82FC5502348C.....69781E1026064ADF7AC ",
    "Data": {
      "AllowanceNumberPrefix": "20190220001",
      "SellerID": "12345678",
      "BuyerID": "0000000000",
      "AllowanceType": "2",
      "TaxAmount": 0,
      "OriginalCurrencyTotalAmount": 10,
      "Details": [
        {
          "InvoiceNumber": "MV31477959",
          "SequenceNumber": "001",
          "Amount": 5,
          "Quantity": 1,
          "UnitPrice": 5,
          "Tax": 0
        },
        {
          "InvoiceNumber": "MV31477959",
          "SequenceNumber": "002",
          "Amount": 5,
          "Quantity": 2,
          "UnitPrice": 2.5,
          "Tax": 0
        }
      ]
    }
  }
]
```

三). Field Description:

3.1. **String:** This data type refers to the character string that conforms to the ISO / IEC 10646-2000 character set. Valid characters include tab, carriage return, line fee, and all legal characters that conform to Unicode (UTF-8, UTF-16) and ISO / IEC 10646.

【此資料型態係指資料為字元字串，符合 ISO/IEC 10646-2000 版字元集之字元字串。有效的字元包括 tab、carriage return、line fee 等所有符合 Unicode (UTF-8,UTF-16)與 ISO/IEC 10646 所定義之合法字元。】

3.2. **Decimal:** This data type refers to a decimal number with an arbitrary precision value. The data value is not an integer value and may have a decimal value (up to seven digits after the decimal point).

【此資料型態係指資料為任意精確度數值的十進位數字，資料數值不限整數值，可有小數值（最多可接受小數點後七位）。】

3.3. The character in red are mandatory Fields; others are option fields.

3.4. The field description of Append Order Data

| Append Order Data | | | | | | |
|-------------------|--------------------------------|---------------------|-------------|------------|-----------------|---|
| Header Level | | | | | | |
| Code No. | E-inv. Field Name Chinese text | E-inv. Field Name | Data length | Field Type | Field Attribute | Description |
| 1 | 賣方統編 | CompanyID | 8 | String | Mandatory | Business Administration Number (BAN) (the same as the VAT#) |
| 2 | 訂單編號 | BillingNo | 30 | String | Mandatory | Order Number |
| 3 | 發票開立模式 | InvoiceFor | 1 | String | Mandatory | Fixed as C |
| 4 | 買方統編 | BuyerID | 10 | String | Mandatory | Fixed as 0000000000 |
| 5 | 買方抬頭 | BuyerInvoiceTitle | 60 | String | Optional | |
| 6 | 客戶編號 | BuyerCustomerNumber | 20 | String | Optional | |
| 7 | 買受人名稱 | BuyerName | 60 | String | Optional | Buyer's name |
| 8 | 買方電話號碼 | BuyerTelNo | 26 | String | Optional | Buyer's Telephone |
| 9 | 買方電子郵件帳號 | BuyerEmailAddress | 80 | String | Mandatory | Buyer's email address. |
| 10 | 買方地址 | BuyerAddress | 100 | String | Optional | Buyer's physical address. |
| 11 | 檢查碼 | CheckNumber | 4 | String | Optional | |
| 12 | 隨機碼 | RandomNumber | 4 | String | Mandatory | Fixed as 9999 |
| 13 | 是否列印 | PrintMark | 1 | String | Mandatory | Fixed as N |
| 14 | 關聯號碼 | RelateNumber | 20 | String | Optional | Relate number for record. |

| | | | | | | |
|------------|-------|------------------------|--------|---------|-----------|---|
| 15 | 愛心碼 | NPOBAN | 3-10 | String | Optional | |
| 16 | 載具編號 | CarrierId1 | 64 | String | Mandatory | Same as BuyerEmailAddress |
| 17 | 載具編號 | CarrierId2 | 64 | String | Mandatory | Same as BuyerEmailAddress |
| 18 | 載具類型 | CarrierType | 6 | String | Mandatory | Fixed as 5G0001 |
| 19 | 課稅別 | TaxType | 1 | String | Mandatory | Fixed as 1 |
| 20 | 幣別 | Currency * | 3 | String | Mandatory | Currency Code Eg. USD, TWD * Ref. Currency Code List |
| 21 | 金額 | OriginalCurrencyAmount | (12,2) | Decimal | Mandatory | |
| 22 | 發票總備註 | MainRemark | 200 | String | Optional | Any other information needs to express to customer on the invoice. |
| 23 | 部門 | DeptID | 20 | String | Optional | Department |
| 24 | 業務人員 | SalesID | | String | Optional | Sales |
| Item Level | | | | | | |
| 25 | 項次編碼 | DetailID | 3 | String | Mandatory | Should be 3-digit number following the order of 001, 002, etc.; insert 0 on the left when there are less than 3 digits. |
| 26 | 產品代碼 | ProductID | 20 | String | Optional | Product code |
| 27 | 產品名稱 | ProductName | 256 | String | Mandatory | Product description or Product name. |
| 28 | 數量 | Quantity | (12,2) | Decimal | Mandatory | Quantity |
| 29 | 數量單位 | Unit | 6 | String | Optional | Unit |
| 30 | 單價 | UnitPrice | (12,2) | Decimal | Mandatory | Unit Price |
| 31 | 小計 | SubTotal | (12,2) | Decimal | Mandatory | Quantity multiplied by Unit price |

| | | | | | | |
|----|----------|----------------------|----|--------|----------|-----------|
| 32 | 明細備註 | Remark | 40 | String | Optional | Item memo |
| 33 | 通關方式列表 | CustomsClearanceMark | 1 | String | Optional | |
| 34 | 零稅率註記 | BondedArea | 1 | String | Optional | |
| 35 | 單價稅額異常註記 | ItemTaxDiff | 1 | String | Optional | |

3.5. The field description of Cancel Invoice

| Cancel Invoice | | | | | | |
|----------------|--------------------------------|-------------------|-------------|------------|-----------------|--|
| Header Level | | | | | | |
| Code No. | E-inv. Field Name Chinese text | E-inv. Field Name | Data length | Field Type | Field Attribute | Description |
| 1 | 賣方統編 | SellerID | 8 | String | Mandatory | Business Administration Number (BAN) (the same as the VAT#) |
| 2 | 發票號碼 | InvoiceNumber | 10 | String | Mandatory | e-GUI number |
| 3 | 作廢時間 | CancelDate | | DateTime | Mandatory | UTC Time in ISO 8601 For example: 2011-07-14T19:43:37 |
| 4 | 作廢原因 | CancelReason | 20 | String | Optional | The reason of cancellation. |

3.6. The field description of Allowance Invoice

| Allowance Invoice | | | | | | |
|-------------------|---------------------------|-----------------------------|-------------|------------|-----------------|---|
| Header Level | | | | | | |
| Code No. | E-inv. Field Chinese text | E-inv. Field Name | Data length | Field Type | Field Attribute | Description |
| 1 | 折讓單號 | AllowanceNumberPrefix | 16 | String | Mandatory | Allowance Number |
| 2 | 賣方統編 | SellerID | 8 | String | Mandatory | Business Administration Number (BAN) (the same as the VAT#) |
| 3 | 買方統編 | BuyerID | 10 | String | Mandatory | Fixed as 0000000000 |
| 4 | 折讓類型 | AllowanceType | 1 | String | Mandatory | Fixed as 2 |
| 5 | 折讓稅額 | TaxAmount | | int | Mandatory | Fixed as 0 |
| 6 | 原幣折讓總額 | OriginalCurrencyTotalAmount | (20,2) | Decimal | Mandatory | |
| Item Level | | | | | | |
| 7 | 發票號碼 | InvoiceNumber | 10 | String | Mandatory | Allowance Invoice Number |
| 8 | 折讓項次編碼 | SequenceNumber | 3 | String | Mandatory | Original Item DetailID on Invoice |
| 9 | 折讓數量 | Quantity | (20,7) | Decimal | Mandatory | The quantity of allowance. |
| 10 | 折讓單價 | UnitPrice | (20,2) | Decimal | Mandatory | The unit price of allowance. |
| 11 | 小計金額 | Amount | (20,2) | Decimal | Mandatory | Amount=UnitPrice x Quantity. |
| 12 | 小計稅額 | Tax | | int | Mandatory | Fixed as 0 |

*** Currency Code List**

| | |
|--|--|
| AED : United Arab Emirates, Dirhams | MAD : Morocco, Dirhams |
| AFN : Afghanistan, Afghanis | MDL : Moldova, Lei |
| ALL : Albania, Leke | MGA : Madagascar, Ariary |
| AMD : Armenia, Drams | MKD : Macedonia, Denars |
| ANG : Netherlands Antilles, Guilders (also called Florins) | MMK : Myanmar (Burma), Kyats |
| AOA : Angola, Kwanza | MNT : Mongolia, Tugriks |
| ARS : Argentina, Pesos | MOP : Macau, Patacas |
| AUD : Australia, Dollars | MRO : Mauritania, Ouguiyas |
| AWG : Aruba, Guilders (also called Florins) | MTL : Malta, Liri (expires 2008-Jan-31) |
| AZN : Azerbaijan, New Manats | MUR : Mauritius, Rupees |
| BAM : Bosnia and Herzegovina, Convertible Marka | MVR : Maldives (Maldiv Islands), Rufiyaa |
| BBD : Barbados, Dollars | MWK : Malawi, Kwachas |
| BDT : Bangladesh, Taka | MXN : Mexico, Pesos |
| BGN : Bulgaria, Leva | MYR : Malaysia, Ringgits |
| BHD : Bahrain, Dinars | MZN : Mozambique, Meticais |
| BIF : Burundi, Francs | NAD : Namibia, Dollars |
| BMD : Bermuda, Dollars | NGN : Nigeria, Nairas |
| BND : Brunei Darussalam, Dollars | NIO : Nicaragua, Cordobas |
| BOB : Bolivia, Bolivianos | NOK : Norway, Krone |
| BRL : Brazil, Brazil Real | NPR : Nepal, Nepal Rupees |
| BSD : Bahamas, Dollars | NZD : New Zealand, Dollars |
| BTN : Bhutan, Ngultrum | OMR : Oman, Rials |
| BWP : Botswana, Pulas | PAB : Panama, Balboa |
| BYR : Belarus, Rubles | PEN : Peru, Nuevos Soles |
| BZD : Belize, Dollars | PGK : Papua New Guinea, Kina |
| CAD : Canada, Dollars | PHP : Philippines, Pesos |
| CDF : Congo/Kinshasa, Congolese Francs | PKR : Pakistan, Rupees |

| | |
|--|-------------------------------------|
| CHF : Switzerland, Francs | PLN : Poland, Zlotych |
| CLP : Chile, Pesos | PYG : Paraguay, Guarani |
| CNY : China, Yuan Renminbi | QAR : Qatar, Rials |
| COP : Colombia, Pesos | RON : Romania, New Lei |
| CRC : Costa Rica, Colones | RSD : Serbia, Dinars |
| CUP : Cuba, Pesos | RUB : Russia, Rubles |
| CVE : Cape Verde, Escudos | RWF : Rwanda, Rwanda Francs |
| CYP : Cyprus, Pounds (expires 2008-Jan-31) | SAR : Saudi Arabia, Riyals |
| CZK : Czech Republic, Koruny | SBD : Solomon Islands, Dollars |
| DJF : Djibouti, Francs | SCR : Seychelles, Rupees |
| DKK : Denmark, Kroner | SDG : Sudan, Pounds |
| DOP : Dominican Republic, Pesos | SEK : Sweden, Kronor |
| DZD : Algeria, Algeria Dinars | SGD : Singapore, Dollars |
| EGP : Egypt, Pounds | SHP : Saint Helena, Pounds |
| ERN : Eritrea, Nakfa | SLL : Sierra Leone, Leones |
| ETB : Ethiopia, Birr | SOS : Somalia, Shillings |
| EUR : Euro Member Countries, Euro | SPL : Seborga, Luigini |
| FJD : Fiji, Dollars | SRD : Suriname, Dollars |
| FKP : Falkland Islands (Malvinas), Pounds | STD : Sao Tome and Principe, Dobras |
| GBP : United Kingdom, Pounds | SVC : El Salvador, Colones |
| GEL : Georgia, Lari | SYP : Syria, Pounds |
| GGP : Guernsey, Pounds | SZL : Swaziland, Emalangeni |
| GHS : Ghana, Cedis | THB : Thailand, Baht |
| GIP : Gibraltar, Pounds | TJS : Tajikistan, Somoni |
| GMD : Gambia, Dalasi | TMM : Turkmenistan, Manats |
| GNF : Guinea, Francs | TND : Tunisia, Dinars |
| GTQ : Guatemala, Quetzales | TOP : Tonga, Pa'anga |
| GYD : Guyana, Dollars | TRY : Turkey, New Lira |

| | |
|-------------------------------|--|
| HKD : Hong Kong, Dollars | TTD : Trinidad and Tobago, Dollars |
| HNL : Honduras, Lempiras | TVD : Tuvalu, Tuvalu Dollars |
| HRK : Croatia, Kuna | TWD : Taiwan, New Dollars |
| HTG : Haiti, Gourdes | TZS : Tanzania, Shillings |
| HUF : Hungary, Forint | UAH : Ukraine, Hryvnia |
| IDR : Indonesia, Rupiahs | UGX : Uganda, Shillings |
| ILS : Israel, New Shekels | USD : United States of America, Dollars |
| IMP : Isle of Man, Pounds | UYU : Uruguay, Pesos |
| INR : India, Rupees | UZS : Uzbekistan, Sums |
| IQD : Iraq, Dinars | VEB : Venezuela, Bolivares (expires 2008-Jun-30) |
| IRR : Iran, Rials | VEF : Venezuela, Bolivares Fuertes |
| ISK : Iceland, Kronur | VND : Viet Nam, Dong |
| JEP : Jersey, Pounds | VUV : Vanuatu, Vatu |
| JMD : Jamaica, Dollars | WST : Samoa, Tala |
| JOD : Jordan, Dinars | XAF : Communauté Financière Africaine BEAC, Francs |
| JPY : Japan, Yen | XAG : Silver, Ounces |
| KES : Kenya, Shillings | XAU : Gold, Ounces |
| KGS : Kyrgyzstan, Soms | XCD : East Caribbean Dollars |
| KHR : Cambodia, Riels | XDR : International Monetary Fund (IMF) Special Drawing Rights |
| KMF : Comoros, Francs | XOF : Communauté Financière Africaine BCEAO, Francs |
| KPW : Korea (North), Won | XPD : Palladium Ounces |
| KRW : Korea (South), Won | XPF : Comptoirs Français du Pacifique Francs |
| KWD : Kuwait, Dinars | XPT : Platinum, Ounces |
| KYD : Cayman Islands, Dollars | YER : Yemen, Rials |
| KZT : Kazakhstan, Tenge | ZAR : South Africa, Rand |
| LAK : Laos, Kips | ZMK : Zambia, Kwacha |
| LBP : Lebanon, Pounds | ZWD : Zimbabwe, Zimbabwe Dollars |
| LKR : Sri Lanka, Rupees | |

| | |
|--|--|
| LRD : Liberia, Dollars LSL : Lesotho, Maloti LTL : Lithuania, Litai LVL : Latvia, Lati LYD : Libya, Dinars | |
|--|--|

SystemLead