SAP Document Compliance
for India / eInvoice (IRN) / eWay Bill

March 16, 2020
eInvoice(IRN) – Regulatory Background
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The GST Council has decided to introduce with centralized issuance of an **unique number (Invoice Reference number)** for each B2B invoice on reporting of invoice data to a central portal with effective (Mandate) date from 1\(^{st}\) October 2020 for all Tax payers.

The new system will lead to one-time reporting on B2B invoice data in the form it is generated to reduce reporting in multiple formats (one for GSTR 1 and the other for e-way bill) and to generate Sales and Purchase Registers (ANX-1 and ANX-2) and from this data to keep the Return (RET-1 etc.) ready for filing.

**Status of legislation in India**

Businesses having a turnover of ₹500 crore (5 billion) or more would take up e-invoicing from January 1, 2020 on voluntary and trial basis while the businesses with turnover of ₹100 crore (1 billion) or more would start e-invoicing on voluntary and trial basis from February 1, 2020.

However, from October 1, 2020, the e-invoicing will be mandatory for both these categories.
Legal changes, effective date and Impact

eInvoicing || effective from Jan 2020 on voluntary basis || mandatory on 1\textsuperscript{st} October 2020

- Real Time – 64 digits (alpha numeric) || QR code || Digital Signature
- An invoice is valid only if invoice is registered in IRP (Invoice Reference Portal).
- Input tax credit can be availed only invoices with valid IRN (Invoice Reference Number)/eInvoice
- Manual update in ECC/S4 with 64 digits IRN is not practical

GST Simplification - Continuous upload || effective from 1\textsuperscript{st} October 2020 || ANX-1, ANX-2 & RET-1

Invoice Reconciliation, Avail Input tax credit & Vendor payment after invoice is uploaded to GSTN

https://einv-apisandbox.nic.in/index.html
https://www.gstn.org/e-invoice/
To standardize the format in which electronic data of an Invoice will be shared with others to ensure there is interoperability of the data.

The adaption of standards will in no way impact the way user would see the physical (printed) invoice or electronic (ex pdf version) invoice.

<https://launchpad.support.sap.com/#/legalchangenotification/NoteInfoSet/jira=GSCBIN-643/TwoColumnsMidExpanded/0>
Solution Landscape – Document Compliance for India (eInvoice & eWay Bill)

- SAP ECC or S/4HANA
  - Outward B2B Invoice
  - Credit / Debit Note
  - SAP APPL 6.05
  - SAP Netweaver 7.02

- SAP Cloud Platform Integration
  - Integration flow
  - Communication
  - Authentication

- SAP Certified
  - GSP
  - Unique number for each B2B invoices

- Recipient (Tax Authority)
  - eWay Bill (NIC*)
  - eInvoice (IRP*)

- Country Format Mapping in SAP Document Compliance
- Business Monitoring
- Generation of IRN in real time

NIC* - National Informatics Centre
IRP* - Invoice Reference Portal
GSP - Goods and Service Suvidha Provider
CPI – Cloud Platform Integration
Benefits

Global Platform: SAP Document Compliance platform is used for eInvoicing (IRN) and real-time reporting globally around 18 countries. (eg: Spain, Italy, Colombia)

Legal Validation: Inbuilt validations on Master Data and transaction data to ensure error free submission of your payload to IRN (Invoice Reference Number) and NIC (National Informatics Centre) system

Transparency: SAP Document Compliance cockpit provides live status update for each invoice

Real Time: Ability to push invoices to the IRN and NIC system in real time during the relevant transaction in your ERP to generate an eWay bill and eInvoice (IRN)
### Process of generation of eInvoice

1. **Creation of Invoice**
2. **Preparation of standardized format (JSON)**
3. **Offline Upload**
4. **Generation of IRN in IRP**
5. **Validation in IRP & GSTN**
6. **Issue signed QR code & Invoice**

#### 4 Parameters to generate IRN
1. Supplier GSTIN
2. Supplier’s invoice number
3. Document Type (INV/CRN/DBN)
4. Financial year (YYYY-YY)

#### 8 Parameters to generate a QR Code
1. GSTIN of Supplier
2. GSTIN of Recipient
3. Invoice number as given by Supplier
4. Date of generation of invoice
5. Invoice value (taxable value and gross tax)
6. Number of line items
7. HSN Code of main item (the line item having highest taxable value)
8. Unique Invoice Reference Number (hash)

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eInvoice Scheme (Mandatory Parameters)

Mandate attributes required for eInvoice

<table>
<thead>
<tr>
<th>Header (Auto Fill by System)</th>
<th>Header (Supplier Information)</th>
<th>Header (Buyer Information)</th>
<th>Header (Document Totals)</th>
<th>Header (Delivery Information)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Invoice Reference Number (IRN)</td>
<td>1. Supplier_Legal_Name</td>
<td>1. Buyer_Legal_Name</td>
<td>1. Tax_Total</td>
<td>DispatchFrom Details (Ship From)</td>
</tr>
<tr>
<td>2. Document Type : INV, CRN &amp; DBN</td>
<td>2. Supplier_GSTIN</td>
<td>2. Buyer_GSTIN</td>
<td>2. TotalDetails (Optional) - Total Invoice Value</td>
<td>1. Company_Name</td>
</tr>
<tr>
<td>4. Invoice Type: Reg / REV (Reverse Charge)</td>
<td>4. Supplier_Place</td>
<td>4. Buyer_Place</td>
<td>4. Amount_due_for_payment (outstanding amount that is requested to be paid)</td>
<td>3. State</td>
</tr>
<tr>
<td>6. Extra Information: Tax_Scheme (GST, Excise, Custom, VAT etc)</td>
<td>6. Supplier_Email (Optional)</td>
<td>6. Buyer_Email (Optional)</td>
<td></td>
<td>Ship To</td>
</tr>
<tr>
<td>7. Ship To (Relevant for Part A of eWay bill generation) TransactionMode - Regular/BilTo/ShipTo/Both</td>
<td></td>
<td></td>
<td></td>
<td>1. ShippingTo_Name</td>
</tr>
</tbody>
</table>

Header - Payee Information (Seller payment information)
1. Payee_Name
2. Branch (OR) IFSC code
3. ModeOfPayment (Cash/Credit/Direct Transfer)

Header (Other References) (Optional)
1. RefNum (Vendor PO Reference number)
2. RefDate (Vendor PO Reference date)

Header (From Invoice)
1. Invoice Number (ODN)
2. Invoice Date

Item Details (From Invoice)
1. Item Description
2. Product Name
3. HSN /SAC Code
4. ISService (optional) - Y/N - Only for Service invoices
5. Quantity
6. Unit of measure
7. Total Amount (Tax Base )
8. Total Item Value (Tax Base + Tax Value)
9. FreeQty (optional) - Any free quantity in Invoice to be reported
10. Rate (This is per quantity Price)
11. AssesseebieValue (Net)
12. GST Rate
13. Iamt
14. Camt
15. Samt
16. Csamt
17. StateCessAmt (Optional - eg: Kerala cess)
18. OtherCharges (Optional - other allowance (OR) other than GST (eg: if Tax_Scheme is "excise / VAT")

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Highlights in the new API

- **Document Number (ODN)** - Document number should not be starting with '0', '/' and '. '. Also, alphabets in document number should not have alphabets in **lower cases**.

- **Document Date** - Document date, for the purposes of IRN generation, can be present or yesterday's date only. This implies that IRN can be generated for documents issued only up to one day before.

- **Cancellation of IRN** - e-invoice(IRN) cannot be re-generated for the cancelled e-invoice(IRN).

- **IRN cannot be cancelled**, if the valid/ active e-way bill exists for the same.

- **Generation of e-invoice by SEZ units** - e-invoice cannot be generated by the supplier SEZ units.

- **Reverse Charge supplies** - IRN generation to be done by the seller only, in case of Reverse charge supplies.

- **It has been cleared that IRN should not be passed as part of the request.**

- **Legal Name is mandatory for Seller, Buyer and Ship To Party**

- **No B2G category supported**

- **Quantity and Unit Code are mandatory only for Goods.**
Business Process: Generate / Update an IRN (Invoice Reference Number)

Use Cases for the generation of IRN

- B2B – Regular Invoice – Inter & Intra – VF01 / FB70
- B2B – Invoice to SEZ With (OR) Without Payment – Inter & Intra – VF01 / FB70
- B2B – Export Invoice With (OR) Without Payment – Inter – VF01 / FB70
  - Sub type of export, Payment type – With or Without, Port code, Country code, Currency and value
- B2B – Deemed export Invoice – Inter & Intra – VF01 / FB70
- B2B – Invoices for RCM
- Credit Note by supplier – for Regular / SEZ / Export /Deemed export – FB75 Original Invoice number
- Debit Note by customer – for Regular / SEZ / Export /Deemed export – FB75 – Original Invoice number
Business Process: Cancellation of an IRN (Invoice Reference Number)

Use Case 1: (Pre-Requirements: IRN is generated for Invoice)

- Cancellation of IRN should be within 24 hrs in IRP and it is considered to be a cancellation of billing document
- Duplicate IRN requests are not considered.
Business Process: Cancellation of an IRN (Invoice Reference Number)

Use Case 2: (Pre-Requirements: IRN is generated for Invoice)

Step 1: IRN generated

Step 2: Identified the issue in tax details - After 24 hrs

Step 3: Invoice which generated with IRN is not present in IRP to Cancel

Step 4: Create a Credit Note

Step 5: Credit Note with IRN from IRP
eInvoice (IRN) for India – Process flow

1. **Create Billing**
   - SAP ECC / S4 HANA On Prem.
   - FI/Billing Doc.

2. **Generate IRN**
   - IRP System
   - Payload for IRN
   - GET IRN
   - Update Part B
   - GET Part A eWay Bill

3. **Generate eWay Bill**
   - eWay Bill (NIC)
   - Payload for eWay Bill

4. **Print GST invoice with IRN & eWay Bill number**

**IRN Integrator from SAP**
- SAP Document Compliance, on-premise edition (eDocument Cockpit)
- SAP cloud platform integration
## Minimum Supported Release (SAP ERP , S/4HANA)

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<tr>
<th>SAP_APPL Release</th>
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<tr>
<td>SAP ERP 6.0 (600)</td>
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**SAP Note 1175384**
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# Tax Invoice Template

**GSTIN:** 05AACC0460H1Z5  
**Name:** Karnataka GST Registration Number  
**Address:** Street/Number, Bangalore, 560066, Karnataka, India  
**Serial No. of Invoice:** F200000000164  
**Date of Invoice:** 04.03.2020

**HIN:** 4840784baf5b0c08d9324d34a11007e6b23ff34a19443842ff314b33108

## Details of the Receiver (Billed to)

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<th>AIO Infra India</th>
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<tbody>
<tr>
<td>Address</td>
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<tr>
<td>State</td>
<td>Maharashtra</td>
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## Details of the Consignee (Shipped to)

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<tbody>
<tr>
<td>Address</td>
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<th>Sr. No.</th>
<th>Description of Goods</th>
<th>HSN</th>
<th>Qty.</th>
<th>Unit</th>
<th>Rate (Per Item)</th>
<th>Total</th>
<th>Discount</th>
<th>Taxable Value</th>
<th>COST</th>
<th>GST</th>
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<tr>
<td>1</td>
<td>1002 00 EA White Wallnut Purty External</td>
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<td>Freight 0.00 INR</td>
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Roadmap
eInvoice (IRN) for India - Feature Roadmap

Q3/2019

Q4/2019

Q1/2020

- eInvoice generation – Outward Supply
  - Regular B2B Invoice, Exports with (or) without payment
  - Deemed export with (or) without payment
  - Supplies to SEZ from DTA
  - RCM B2B invoices created by the supplier
  - Credit note by Supplier

- Real time update of response from IRP to SAP
  - with IRN - Acknowledgement number & Date
  - Digitally signed QR code

- Print of IRN and QR code in GST Invoice

- Audit Trial

- Outward reconciliation based on the status

- Cancellation of IRN

<https://launchpad.support.sap.com/#/legalchangenotification/NoteInforSet/jira=GSCBIN-643/TwoColumnsMidExpanded/0>
Additional Information
SAP eInvoice

Q4 – 2019 & Q1 – 2020 - Delivered (note #)

- **eInvoice generation – Outward Supply**
  - Regular B2B Invoice, Exports with (or) without payment
  - Deemed export with (or) without payment
  - Supplies to SEZ from DTA
  - RCM B2B invoices created by the supplier
  - Credit note by Supplier

- **Real time update of response from IRP to SAP**
  - with IRN - Acknowledgement number & Date
  - Digitally signed QR code

- **Print of IRN and QR code in GST Invoice**
- **Audit Trial**
- **Outward reconciliation based on the status**
- **Cancellation of IRN**

Q2 - 2020

- *Contingency mode – for uploading the response file for eInvoice*

- One step generation of eWay bill and eInvoice
- Capturing of IRN in Purchase invoices
- Vendor Return scenario.
- Generation of eInvoice as soon as the invoice created using foreground transaction

Q3 2020

- Sending signed eInvoice in JSON format to Customer from edocument cockpit (via eMail)
- Automated eInvoice solution in S4C – CE 2008
SAP eWay bill for India - Delivered

Q2 - 2018
- eWay bill generation
  - Outward supply – Billing, Exports & Subcontracting
  - Inward supply – Imports
- Provision to capture the Part B
  - Outbound delivery
  - eDocument
  - BADI
- eWay Bill
  - Validity date extension
  - Update the Transporter ID
  - Cancellation
- GST health check – Data validation
- Scheduler – Automatic generation of eWay bill
- Variants – to view required report

Q4 - 2018
- Common enrollment ID (Transporter)
- Maintenance of API Version 1.02 & 1.03
- eDcoument – authorization control
- Provision to capture the Part B
  - Mass update
  - Get Part B from NIC to SAP
- Contingency mode – Download the data from NIC and upload into SAP using same excel format

Q2 2019
- Auto-calculation of distance based on Pin
- Enhancement in the validity extension

Vendor Return
- Inward eWay Bill – Purchaser reject (Get Status)
- Maintenance of API Version 1.03

Q1’ 2019
- eWay bill generation
  - Intra state STO
  - With one time Vendor
  - Consulting note for SKD/CKD
## Certified GSP’s for eInvoice

<table>
<thead>
<tr>
<th>Sr.no</th>
<th>GSP Name</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vayana Private Limited</td>
<td>Sanjay Phadke -&gt; <a href="mailto:sanjay@vayana.in">sanjay@vayana.in</a> -&gt; 9820339044&lt;br&gt;Manish Balani -&gt; <a href="mailto:manish@vayana.com">manish@vayana.com</a> -&gt; 8005644657</td>
</tr>
<tr>
<td>2</td>
<td>Excellon Software Private limited</td>
<td>Vinodkumar Tambi -&gt; <a href="mailto:vinod@excellonsoft.com">vinod@excellonsoft.com</a> -&gt; 9422113491&lt;br&gt;Sachin Gandhi -&gt; <a href="mailto:saching@excellonsoft.com">saching@excellonsoft.com</a> -&gt; 8411959030</td>
</tr>
<tr>
<td>3</td>
<td>Alankit limited</td>
<td>Sitesh Srivastava -&gt; <a href="mailto:siteshs@alankit.com">siteshs@alankit.com</a> -&gt; 9582200562&lt;br&gt;Deepak Sirohi -&gt; <a href="mailto:deepaks1@alankit.com">deepaks1@alankit.com</a> -&gt; 95 82 200516</td>
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<tr>
<td>4</td>
<td>Masters India IT Solutions Private Limited</td>
<td>Nishank Goyal -&gt; <a href="mailto:nishankgoyal@mastersindia.co">nishankgoyal@mastersindia.co</a> -&gt; 9717700700</td>
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<td>5</td>
<td>Adaequare Info Pvt Ltd</td>
<td>Naveen Mamidi -&gt; <a href="mailto:nmamidi@adaequare.com">nmamidi@adaequare.com</a> -&gt; 98660 12475</td>
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<td>eMudhra Technologies Ltd</td>
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**GSP** – Goods and Services Suvidha Provider

**GSTN** - Goods and Service Tax Network

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Certified GSP’s for eInvoice & eWay bill

SAP Note 2889709

- **Certified GSP’s** Pre-delivered iflows between SAP cloud platform integration to GSTN via GSP’s are developed, tested and certified by SAP

- **Non certified GSP’s** are supported and pre-delivered only the framework, so it required an additional development for the iflows

  The template iflow is already published in API Hub and can be accessed with [SAP ERP Integration with GST Suvidha Provider for India e-Invoice](https://sap.com)

GSP – Goods and Services Suvidha Provider

GSTN – Goods and Service Tax Network
Thank you.

Contact information:
Karthiheyini Subbiah
Karthiheyini.subbiah@sap.com