

eInvoice(IRN) – Regulatory Background



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Status of legislation in India

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 1st 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.

GST council – Goods and Services Tax Council

GSTR 1 - monthly return that summarizes all sales (outward supplies) of a taxpayer

ANX 1 - FORM GST ANX-1 – Annexure Of Outward Supplies

ANX 2 - FORM GST ANX-2 – Annexure Of Inward Supplies

RET 1 – FORM GST RET-1 – Monthly Return for normal tax payer

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 ₹100crore (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 1st 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 1st October 2020 || ANX-1, ANX-2 & RET-1

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

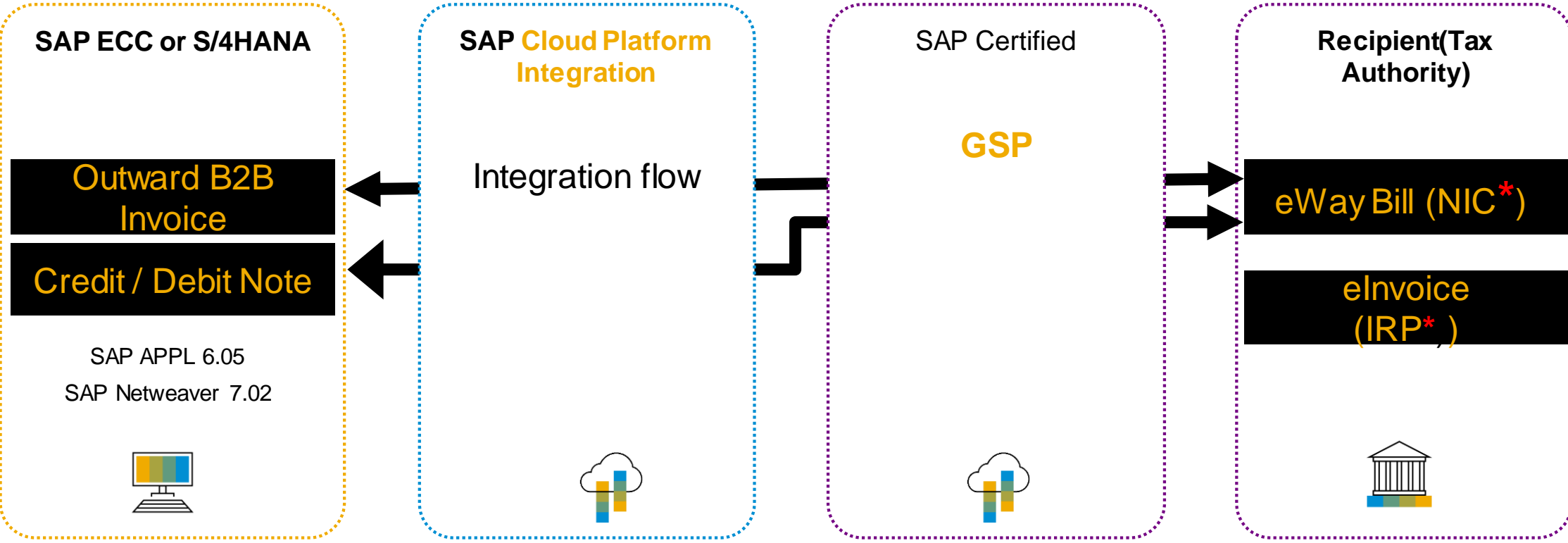
<https://einv-apisandbox.nic.in/index.html>
<https://www.gstn.org/e-invoice/>

eInvoice - IRP (Invoice Reference Portal)

- 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/Notel
nforSet/jira=GSCBIN-643/TwoColumnsMidExpanded/0](https://launchpad.support.sap.com/#/legalchangenotification/Notel
nforSet/jira=GSCBIN-643/TwoColumnsMidExpanded/0)

Solution Landscape – Document Compliance for India (eInvoice & eWay Bill)



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

- Communication
- Authentication

- Communication

- Validation
- Unique number for each B2B invoices

NIC* - National Informatics Centre
IRP* - Invoice Reference Portal
GSP - Goods and Service Suidha 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

Creation of Invoice

Preparation of standardized format (JSON)

Offline Upload

API Upload

Generation of IRN in IRP

Validation in IRP & GSTN

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)

eInvoice Scheme (Mandatory Parameters)

Mandate \ **Optional** \ eWay bill attributes required for eInvoice

Header (Auto Fill by System)

1. Invoice Reference Number (IRN)
2. Document Type : INV, CRN & DBN
3. Document Category : B2B/~~B2C~~/Exports
4. Invoice Type: Reg / REV (Reverse Charge)
5. Export Category : DIR / DEM/ SEZ/SED
6. Extra Information: Tax_Scheme (GST, ~~Excise, Custom, VAT~~-etc)
7. Ship To (Relevant for Part A of eWay bill generation)
 - TransactionMode - Regular/BilTo/ShipTo/Both

Header (Supplier Information)

1. Supplier_Legal_Name
2. Supplier_GSTIN
3. Supplier_Location
4. Supplier_Place
5. Supplier_Pincode
- 6. Supplier_Email (Optional)**

Header (Buyer Information)

1. Buyer_Legal_Name
2. Buyer_GSTIN
3. Buyer_Place
4. Buyer_State
5. Buyer_Pincode
6. POS (Place of Supply)
- 7. Buyer_Email (Optional)**

Header (Document Totals)

1. Tax_Total
- 2. TotalDetails (Optional) - Total Invoice Value**
- 3. Paid_amount (amounts which have been paid in advance)**
- 4. Amount_due_for_payment (outstanding amount that is requested to be paid)**

Header (Delivery Information)

- DispatchFrom Details (Ship From)
1. Company_Name
 2. Address1
 3. State
 4. Pincode
- Ship To**
1. ShippingTo_Name
 2. ShippingTo_GSTIN
 3. ShippingTo_Address1
 4. ShippingTo_State
 5. ShippingTo_Pincode

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

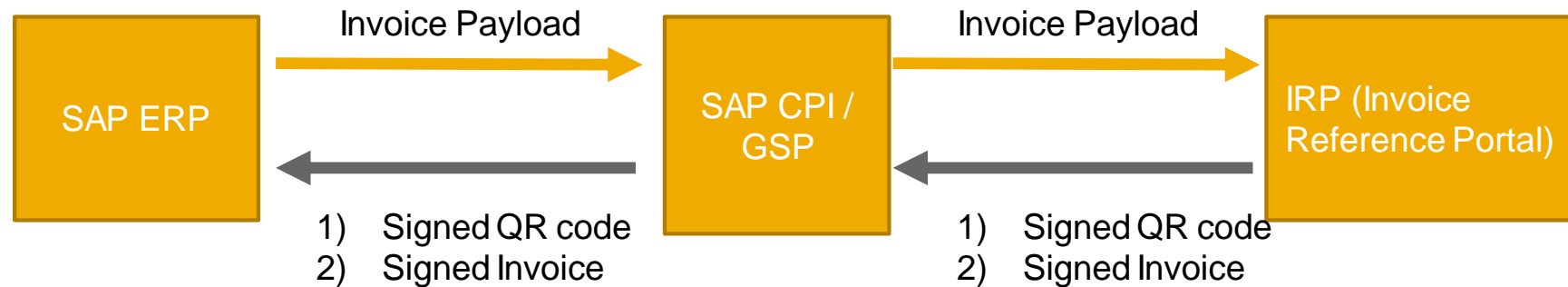
Item Details (From Invoice)

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. AssesseebleValue (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")

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)

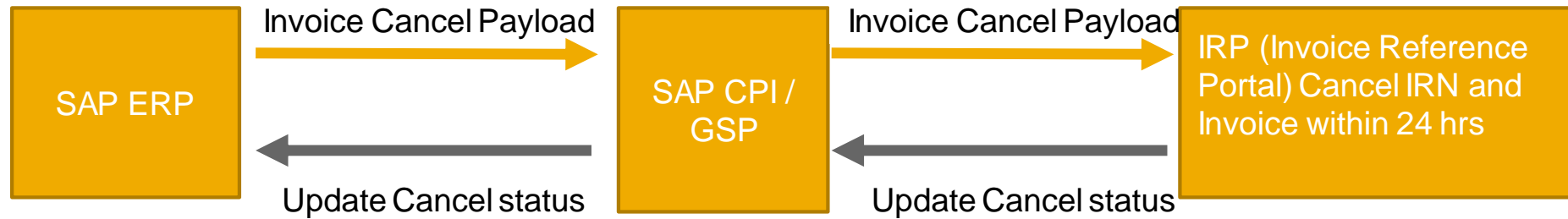


Use Cases for the generation of IRN

- 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)

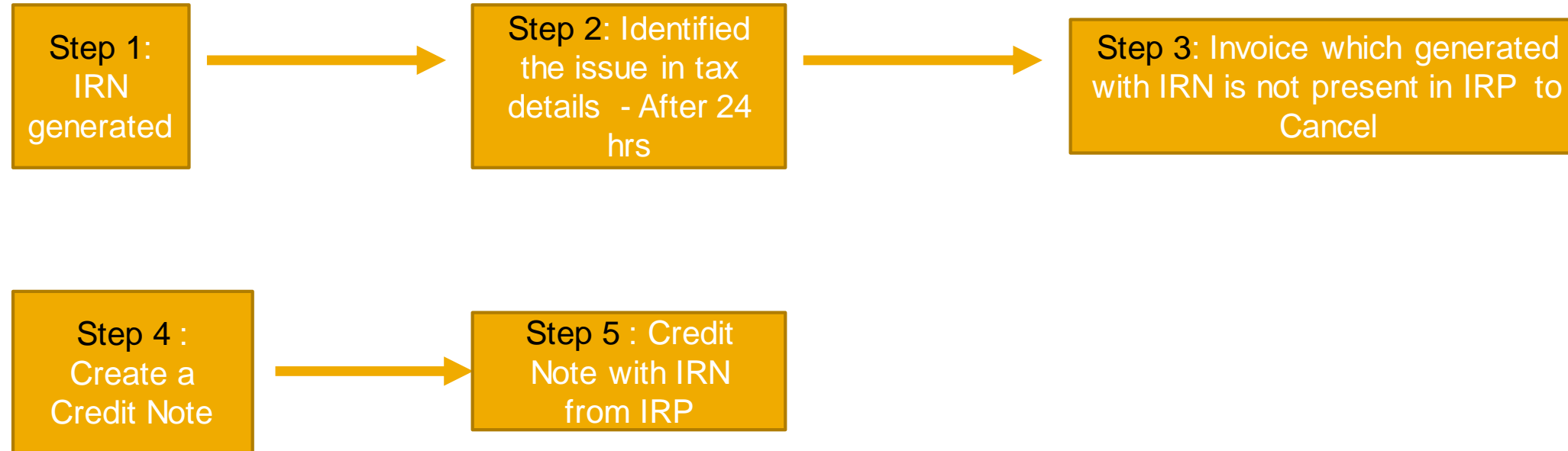
Use Case 1: (Pre-Requirements : IRN is generated for Invoice)



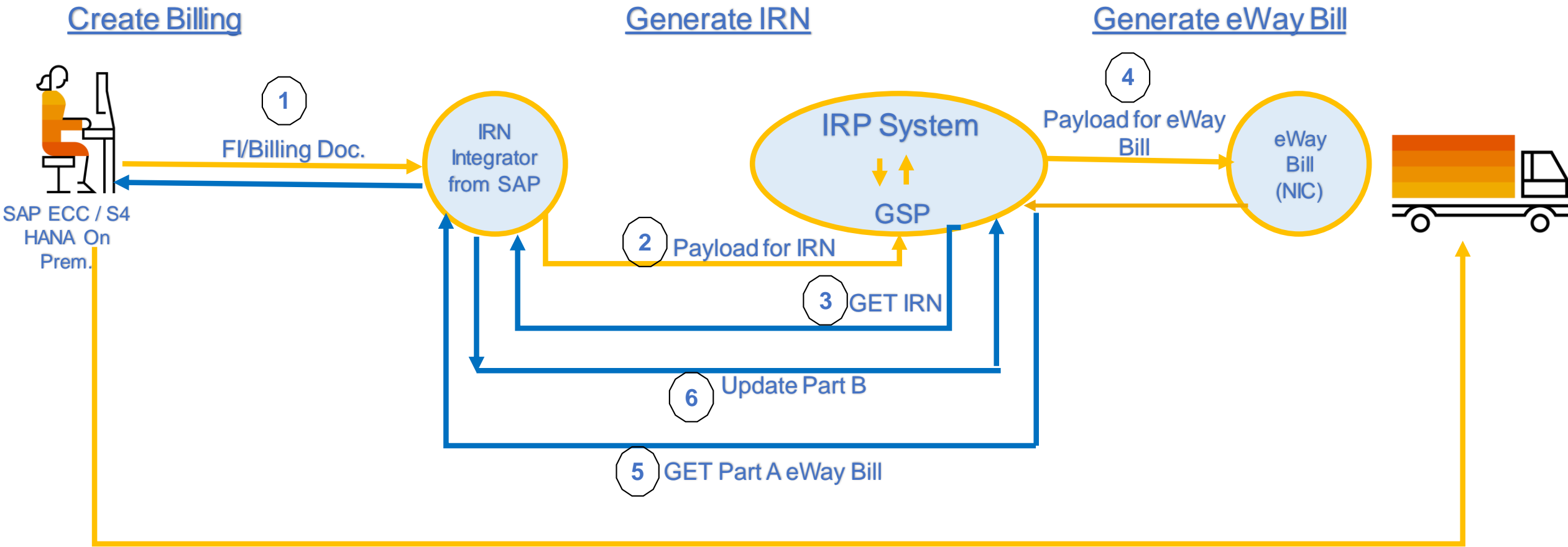
- Cancellation of IRN should be within 24 hrs in IRP and it is considered to be a cancellation of billing document
- Duplicate IRN requests are not considered.

Business Process : Cancellation of an IRN (Invoice Reference Number)

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



eInvoice (IRN) for India – Process flow



SAP ECC / S4
HANA On
Prem.

IRN Integrator from SAP

- SAP Document Compliance, on-premise edition (eDocument Cockpit)
- SAP cloud platform integration

Minimum Supported Release (SAP ERP , S/4HANA)

SAP_APPL Release	Support Pack
SAP ERP 6.0 (600)	SP 26
EHP2 FOR SAP ERP 6.0 (602)	SP 16
EHP3 FOR SAP ERP 6.0 (603)	SP 15
EHP4 FOR SAP ERP 6.0 (604)	SP 16
EHP5 FOR SAP ERP 6.0 (605)	SP 13
EHP6 FOR SAP ERP 6.0 (606)	SP 14
EHP6 FOR SAP ERP 6.0 for HANA (616- SAP HANA)	SP 08
EHP7 FOR SAP ERP 6.0(617)	SP 07
EHP8 FOR SAP ERP 6.0(618)	SP 02
SAP S/4HANA ON-PREMISE 1511	SP 02

SAP Note 1175384

SAP eInvoice for India - SAP Document Compliance



Refresh Full Screen On/Off Documentation More

Exit

Source Document

Submit Status Finalize Display Export File Contingency Goto... More... Help

Variant Default Sele Change

India eInvoice

Show Recent eDocuments 60 Days

Search, Filter, Sort, Print, Export, Refresh icons

- Result Overview
- Denmark
 - Denmark EU eInvoice
- Germany
 - Germany EU eInvoice
 - Germany Incoming eInvoice
- Hungary
 - Hungary Invoice Registration
- India
 - India eInvoice
 - India eWay Bill
 - India GST Reporting
- Italy
 - Italy eInvoice
 - Italy Incoming eInvoice
- Mexico
 - Mexico eInvoice
 - Mexico ePayments
- Netherlands
 - Netherlands EU eInvoice

Inv Registration Number	Status	Description	Conting	eDocSrcKey	Source Descr.	CoCode	Type Desc.	Creation Date	Created on	Cr
	▲	eInvoice Cancelled	<input type="checkbox"/>	0003004332	Billing Document	IN47	India eInvoice	25.11.2019	06:52:48	M.
	▲	eInvoice Cancelled	<input type="checkbox"/>	0003004292	Billing Document	IN47	India eInvoice	19.11.2019	10:24:15	M.
E38649F22FA80DB9AB60C06B19C26395FD716E29D4B7BA9CA4D0C...	▲	eInvoice Generated	<input type="checkbox"/>	0003004426	Billing Document	IN47	India eInvoice	03.12.2019	07:10:43	C:
	▲	eInvoice Cancelled	<input type="checkbox"/>	0003004425	Billing Document	IN47	India eInvoice	03.12.2019	07:03:23	IN

SAP eWay Bill Solution for India - SAP Document Compliance

< **SAP** EDocument Cockpit Refresh Full Screen On/Off Documentation More Exit

Source Document Variant Default Sele Change Show Recent eDocuments 60 Days Result Overview

India eWay Bill Submit Status Edit Finalize Export File Display Goto... More... Help

Search Filter Sort Print Download Grid

<input type="checkbox"/>	Status Proc.	Status Descr.	Conting	eDocSrcKey	Source Descr.	CoCode	Type Desc.	Creation Date	Created on	Created By	Posting Date	Intf. File	Changed By	Changed On	Cha
<input type="checkbox"/>	▲	eWay Bill Generated	<input type="checkbox"/>	0003004332	Billing Document IN47		India eWay Bill	25.11.2019	06:52:48	MALLICKS	25.11.2019		SUBBIAHK	12.12.2019	12:5
<input type="checkbox"/>	▲	Part A; eWay Bill Generated	<input type="checkbox"/>	0003004214	Billing Document IN47		India eWay Bill	11.11.2019	12:18:34	MALLICKS	11.11.2019		MALLICKS	06.12.2019	08:4

- Denmark
 - Denmark EU elnvoice
- Germany
 - Germany EU elnvoice
 - Germany Incoming elnvoice
- Hungary
 - Hungary Invoice Registratio
- India
 - India elnvoice
 - India eWay Bill
 - India GST Reporting
- Italy
 - Italy elnvoice
 - Italy Incoming elnvoice
- Mexico
 - Mexico elnvoice
 - Mexico ePayments
- Netherlands
 - Netherlands EU elnvoice

Tax Invoice Template



GSTIN : 05AAACC0460H1Z8
 Name : Karnataka GST RegistrationKarnataka GST Registration Name
 Address : Street/House Number, Bangalore, 560066, Karnataka, India
 Serial.No.of Invoice : F20000000164
 Date of Invoice : 04.05.2020

IRN : 4840784beff3b0c68bd9324dfa410078c6623fff34aa19443842f1314b351668

Details of the Receiver (Billed to)

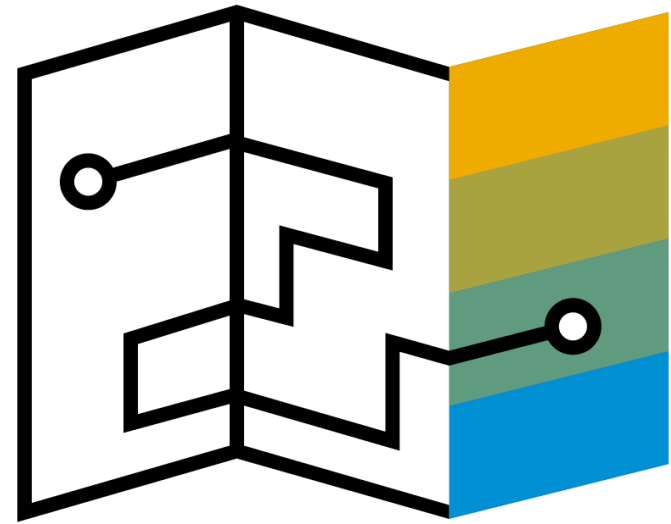
Name : AIG Infra India
 Address : Brookefield
 : Maharashtra,
 : India, 791104
 State :

Details of the Consignee(Shipped to)

Name : AIG Infra India
 Address : Brookefield
 : Maharashtra,
 : India, 791104
 State :

Sr. Goods No	Description of	HSN	Qty. Unit	Rate(Per Item)	Total	Discount	Taxable value	CGST		SGST		IGST	
								Rate	Amt	Rate	Amt	Rate	Amt
1	White Wallcare Putty External	1.002	10,000 EA	1.000	10.000	0	10.000	0	0	0	0	0	0
Freight					:								
0,00 INR					:								
Insurance					:								
0,00 INR					:								
Packing and Forwarding charges					:	0,00 INR							
Total						10.000,00			0,00		0,00		0,00
Total Invoice Value (In Figure)							10.000,00 INR						
Total Invoice Value (In Words)							TEN THOUSAND RUPEES						
Amount of Tax subject to Reverse charges													
Declaration					Signature								
					Name of the signatory								

Roadmap



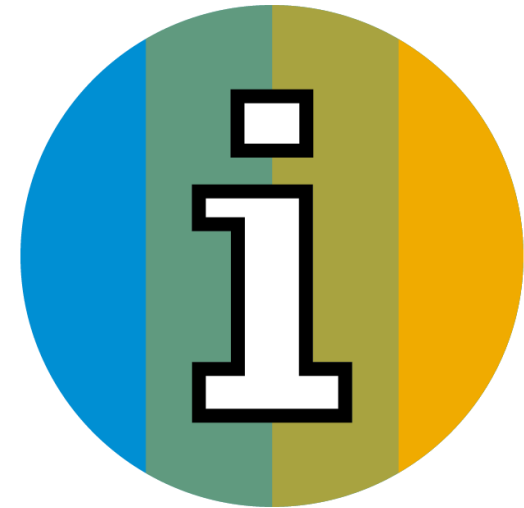
eInvoice (IRN) for India - Feature Roadmap



- **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
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- **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
- eDocument – 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

Q1' 2019

- **eWay bill generation**
 - Intra state STO
 - With one time Vendor
 - Consulting note for SKD/CKD

Q2 2019

Released on 12th June

- 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

Certified GSP's for eInvoice

Plan to certify the same GSP's for eInvoice only when the LIVE API available from GSTN

Sr.no	GSP Name	Contact
1	Vayana Private Limited	Sanjay Phadke -> sanjay@vayana.in -> 9820339044 Manish Balani -> manish@vayana.com -> 8005644657
2	Excellon Software Private limited	Vinodkumar Tambi -> vinod@excellonsoft.com -> 94221 13491 Sachin Gandhi -> saching@excellonsoft.com -> 8411959030
3	Alankit limited	Sitesh Srivastava -> siteshs@alankit.com -> 9582200562 Deepak Sirohi -> deepaks1@alankit.com -> 95 82 200516
4	Masters India IT Solutions Private Limited	Nishank Goyal -> nishankgoyal@mastersindia.co - > 9717700700
5	Adaequare Info Pvt Ltd	Naveen Mamidi -> nmamidi@adaequare.com - > 98660 12475
6	eMudhra Technologies Ltd	Venu Madhava -> venu.madhava@emudhra.com -> 9884302508

GSP – Goods and Services Suvidha Provider

GSTN - Goods and Service Tax Network

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](#)

Thank you.

Contact information:

Karthiheyini Subbiah

Karthiheyini.subbiah@sap.com

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