



E-Invoice (IRN) System

Ease in doing Business...
Ease in GST Compliance!

Presentation Plan



01.	At a Glance Why, What, Whom, Which, When and How of E-Invoicing	02.	The Need Understanding the need of adopting E-Invoicing by businesses
03.	Notifications Relevant notifications issued by the Government for E-Invoicing	04.	Salient Features Understanding the most important features of the E-Invoicing process
05.	Detailed Process Flow Step by step illustration of the E- Invoicing process	06.	Implications for Taxpayers How will the taxpayers be impacted by the implementation of E-Invoicing
07.	Schema/ Format Common standard schema/ format for adopting E-Invoicing standards	08.	API Testing Available API specifications and testing progress
09.	Outreach and Feedback Initiatives to create trade awareness on E-Invoicing	10.	Questions Post discussion session open for questions/ queries by attendees





01. E-Invoice: At a Glance

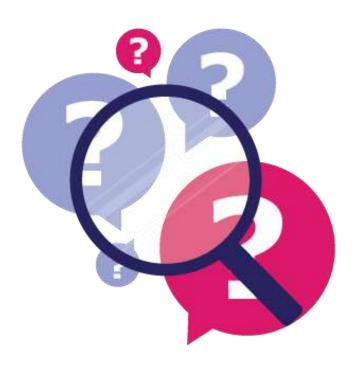


WHY	 To improve business-to-business communication by reducing transcription errors and cost involved; To simplify exchange of documents between suppliers and buyers, just like sending/receiving e-mail; GST reporting will be a lot more easier and indeed a by-product
WHAT IT MEANS	 'e-invoicing' means reporting details of specified GST documents to a Government-notified portal and obtaining a reference number. It doesn't mean generation of invoice by a Government portal.
TO WHOM APPLICABLE	 Taxpayers whose aggregate turnover (based on PAN) in a financial year > Rs 500 Crores Few sectors exempted: SEZ Units, Insurance, Banking [including NBFCs], Goods Transport Agency [transporting goods by road in goods carriage], Passenger Transport Services, Multiplex Cinema Admissions



WHICH SUPPLIES COVERED	 GST invoices, Credit Notes and Debit Notes in respect of B2B Supplies & Exports
WHEN COMING TO FORCE	• 1st October 2020
HOW ABOUT THE PROCESS	 Taxpayers will continue to create their GST invoices on their own Accounting/Billing/ERP Systems These invoices will now be reported to 'Invoice Registration Portal (IRP)' On reporting, IRP returns signed e-invoice with unique 'Invoice Reference Number (IRN)' along with a QR Code. Then, the invoice can be issued to receiver (with QR Code). A GST invoice will be valid only with a valid IRN.





02. E-Invoice: The Need

Need for E-Invoicing





- Ensures Digitization, Standardization, Interoperability and Paperless mode in invoice communication
- Eliminates data re-entry and reconciliation errors
- Improves payment cycles
- Reduces processing costs
- Reduces disputes among transacting parties

Need for E-Invoicing



- Generation of invoice and its reporting will become part of business process.
- No further reporting to GST portal or e-way bill portal.
- Reporting to GST is an incidental by-product.



Need for E-Invoicing



- Auto-reporting of invoices into GST Return
- Auto-generation of e-way bill, where required
- GST reporting compliance will be part of natural business system
- Improves overall business efficiency
- Facilitates business-friendly e-initiatives such as invoice financing
- Mitigates invoice fraud
- Global imperative



Ease of Doing Business Rankings: India



2018:

Overall Rank: 77

On Paying Taxes: 121

2019:

Overall Rank: 63

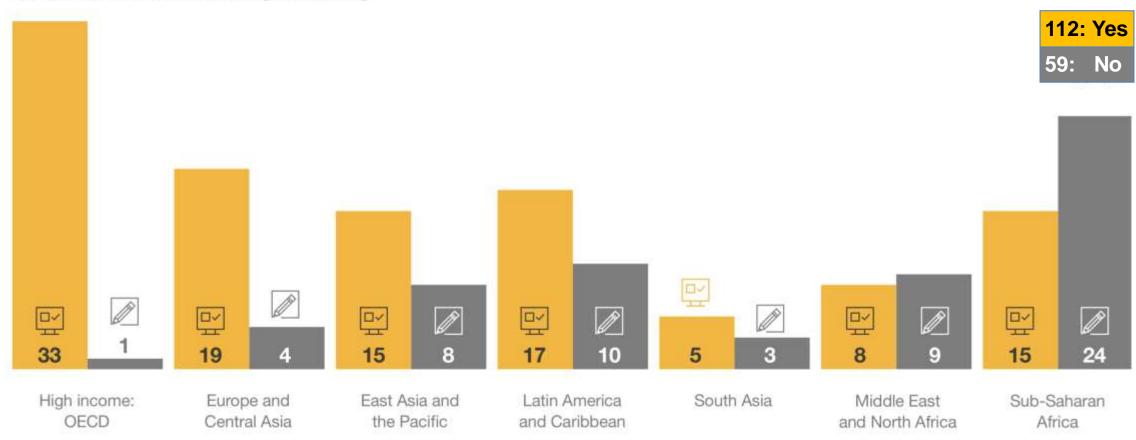
On Paying Taxes: 115



Adoption of E-Invoicing Across the Globe







Source: Doing Business database





7 euros for the shipment of an issued paper invoice (versus 0,30 euros for an electronic format). 15 euros for a received paper invoice.



52% view the cost reduction as the principal advantage of the digital transformation.



6,000 paper invoices processed each year by a full-time equivalent. This same person may check 90,000 electronic invoices.



Time saving

15 days if paper invoice 3 days with a rate of 80% dematerialization

Source: EY survey - France - 2016

Source: EY Study, 2016



Items	Paper invoice (pre e-invoice period)	After introduction of e-invoice	Change
Cost of handling of one invoice	7 Euros	0.3 Euros	96% saving
Number of invoices handled by an employee in a year	6,000 paper invoices	90,000 e-invoices	15 times efficiency improvement
Time saving	15 days for paper invoice	3 days for e-invoice	80% saving of time

52% businesses view cost reduction as the principal advantage of digital transformation

Source: EY Study, 2016





03. E-Invoice: Notifications

Notifications



Notification No. (Central Tax)	Key Contents
68/2019 Dt. 13-12-2019	 Central Goods and Services Tax (Eighth Amendment) Rules Inserted below new sub-rules in Rule 48 of CGST Rules, 2017: (4) The invoice shall be prepared by such class of registered persons as may be notified by the Government, on the recommendations of the Council, by including such particulars contained in FORM GST INV-01 after obtaining an Invoice Reference Number by uploading information contained therein on the Common Goods and Services Tax Electronic Portal in such manner and subject to such conditions and restrictions as may be specified in the notification. (5) Every invoice issued by a person to whom sub-rule (4) applies in any manner other than the manner specified in the said sub-rule shall not be treated as an invoice. (6) The provisions of sub-rules (1) and (2) shall not apply to an invoice prepared in the manner specified in sub-rule (4).

Notifications...



Notification No. (Central Tax)	Key Contents
69/2019 Dt. 13-12-2019	Notified 10 Common Goods and Services Tax Electronic Portals for the purpose of preparation of invoice in terms of rule 48 (4)
70/2019 Dt. 13-12-2019	Notified registered person, whose aggregate turnover in a financial year exceeds one hundred crore rupees, as a class of registered person who shall prepare invoice in terms of sub-rule (4) of rule 48 of the said rules in respect of supply of goods or services or both to a registered person; notification to come into force from the 1st day of April, 2020 (This notification superseded by 13 of 2020 Dt. 21-3-2020)
2 of 2020 Dt. 1-1-2020	Substituted Form GST INV-1 as e-invoice schema
	(Schema further amended vide Notification <u>60/2020 Dt. 30-7-2020</u>)

Notifications...



Notification No. (Central Tax)	Key Contents
13 of 2020 Dt. 21-3- 2020 (in supersession of 70/2019 Dt. 13-12- 2019)	 e-invoicing to start from the 1st October, 2020; Notifies registered persons, other than those referred to in sub-rules (2), (3), (4) and (4A) of rule 54 of the said rules, whose aggregate turnover in a financial year exceeds Rs 100 Cr., as a class of registered person who shall prepare invoice and other prescribed documents, in terms of sub-rule (4) of rule 48 of CGCT Rules, 2017, in respect of supply of goods or services or both to a registered person. (Further amended by 61/2020 Dt. 30-7-2020)
60/2020 Dt. 30-7-2020	 Central Goods and Services Tax (Ninth Amendment) Rules, 2020 New form substituted for GST INV-01 (i.e. notified revised Schema/format for e-invoice)
61/2020 Dt. 30-7-2020	 Amended notification <u>13/2020 Dt. 21-3-2020</u> Special Economic Zone units also excluded from e-invoicing mandate Aggregate Turnover of registered persons (required to prepare invoice in terms of Rule 48(4)) enhanced to Rs 500 Cr.





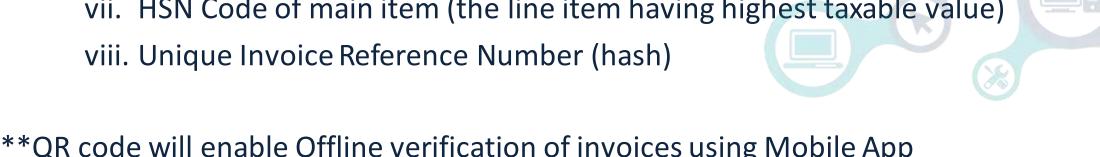
04. E-Invoice: Salient Features



- Taxpayers will continue to create their GST invoice on their own accounting/billing/ERP System
- e-invoice, as prepared, will be reported to Invoice Registration Portals (IRP)
- Multiple Invoice Registration Portals (IRP) will be established to ensure
 uninterrupted availability. To start with, NIC will be the first Registrar. Based on
 experience, more registrars will be added.
- IRP will generate a unique Invoice Reference Number (IRN), digitally sign it and return the e-invoice.



- IRP will also generate a QR code containing the unique IRN along with below key particulars:
 - GSTIN of supplier
 - **GSTIN** of Recipient
 - Invoice number as given by Supplier iii.
 - Date of generation of invoice
 - Invoice value (taxable value and gross tax)
 - Number of line items.
 - vii. HSN Code of main item (the line item having highest taxable value)



**QR code will enable Offline verification of invoices using Mobile App



- INV-01 Schema is based on e-invoice standard (Based on Universal Business Language (UBL) / PEPPOL with certain customisations to cater to Indian business practices and requirements like e-way bill etc.)
- Documents covered invoice, credit note, debit note
- Types of supplies covered: B2B, Exports

- IRN will be generated in sub 200 milliseconds duration – specified key fields to be validated on IRP
- Facility for bulk-upload of invoices
- The uploaded invoice data will be digitally signed by IRP
- No amendment of alreadyreported invoice on IRP cancellation and re-generation will be the only option



- Invoice no. (e.g. ABC/1/2019-20) is different from IRN (e.g. 35054cc24d97033afc24f49ec4444dbab81f542c555f9d30359dc75794e06bbe)
- A GST invoice will be valid only with a valid IRN
- Free offline utility will also be provided in due course through which invoices can be reported and get IRN;
- IRN generation option through Mobile app will also be made available
- Modes for reporting e-invoice: Multiple modes to be made available so that taxpayer can use one based on his/her need:
 - API based,
 - mobile app based,
 - Offline tool based and
 - GSP based

Sample E-Invoice with QR



08/12/2019 1:40PM

Schema version: 1.0 Tax scheme: GST

activorus Bystam

Original For Recipient

e-Invoice

. GSTIN 05AAACG2207L1ZY

2. Name GSTNLTD

Address GODREJ, VIKHROLI, Mumbai.

Maharashtra, 400076

4. Serial No. of invoice

IRN No.

GSTN001 06/12/2019

5. Date of invoice

05/12/2015 05AAACG2207L1ZY/GSTN001/2019-20 Dispatch from:05AAACG2207L1ZY, GSTN LTD

Address: GODREJ, VIKHROLI, Mumbai

State: Maharashtra Pincode: 400076

Details Of Receiver(billed to	Angelon de merchanes en man in	Details Of Consignee(Shipped to)		
Name	ABC INDIA LTD	Name	ABCINDIA LTD	
Address	Mumbai	Address	Mumbai	
Pin Code	400011	Pin Code	400011	
State	Maharashtra	eltate	Maharashtra	
State Code (Place of supply)	MH	State Code (Place of supply)	MH	
GSTIN/Unique ID	05AAACG2314E1ZD	GSTIN/Unique ID	05AAACG2140A1ZL	

Sample e-Invoice

Supply type: Outward
Transaction mode: Tax Invoice

6.No Description of supply /			Rate per unit GST rate (aggregate d	CAST rate (apprepate of	Texable	COST		BGBT		ICAST		CESS		
	man dassinption	Clerela		of quantity	COST+SOST/IOST)	Value	76	Amount	754	Amount	19%	Amount	1964	Amount
1	LAPTOP	6763	B.00	50000.00	18.00	1000000.00	9.00	9000.00	9.00	9000.00	0.00	0.00		0.00
	2007/19/20				Total	100000.00	-	9000.00		9000.00		0.00		
						Total Taxa	ble Ar	nount		- N				100000.00
W. Called a	Author transcription worse a trade of the party of the contract of the contrac			THE RESIDENCE OF STREET										
	Invoice Value(In figure): unt of Tax subject to	Revers	e Charge	118000.00 8 No		Total Tax /	\mour	ıt						18000.00
Amoi Caye		Revers	s Charge					11						18000.00

Remarks 1 Remarks 2







05. E-Invoice: Flow

Seller



Invoice Registration Portal (IRP)

GST System







Uploads e-invoice (Containing GSTIN, Invoice Number, Date, Value etc.)



B2B APIs

Receives the digitally signed JSON of e-invoice that contains the QR Code





IRP-

- Signs the invoice
- Sends the invoice to the GST System
- Adds a QR to the JSON
- Sends back signed JSON to buyer



APIs



GST System:

- Updates the outward and inward supplies for buyer and seller
- Now has a unique invoice with a unique number





2A



A. Seller-IRPFlow of Activities





Seller



Note:

Sellerto have JSON prep utility from excel, word, ERP Accounting software, mobile app etc.



Prepares e-invoice as perschema having mandatory (GSTIN. Invoice No. Date, value etc.) and optional fields



Uploads the JSON of e-invoice to the IRP

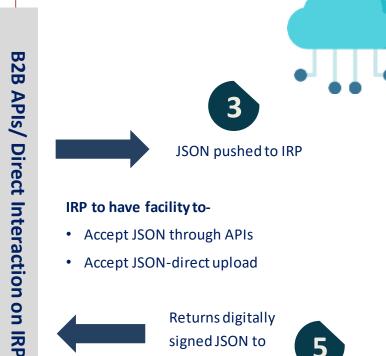


Receives the digitally signed JSON of e-invoice that contains the QR Code



Seller's GSTR-1 gets updated with liability entered in the invoice

Invoice Registration Portal (IRP)



IRP to have facility to-

- Accept JSON through APIs
- Accept JSON-direct upload



Returns digitally signed JSON to seller with the QR code included in it



- **Generates IRN**
- Does de-duplication check with GST System
- Signs JSON with digital signature of IRP
- Adds QR code to JSON



· Sends authenticated payload to GST system



• Sends to e-way bill system



B. IRP-GST System Flow of Activities





Invoice Registration Portal (IRP)



IRP to have facility to-

- Accept JSON through APIs
- Accept JSON-direct upload



Returns digitally signed JSON to seller with the QR code included in it

5



- Generates IRN
- Does de-duplication check with GST System
- · Signs JSON with digital signature of IRP
- Adds QR code to JSON



· Sends authenticated payload to GST system



 Sends to e-way bill system



GSTSystem

GST Invoice Registry





B2B APIs/ Direct Interaction on IRP

- Invoice information stored in GST invoice registry
- De-duplication checked



- GST System now has a unique invoice with a unique number
- GSTR-1 of seller updated
- GSTR-2A of buyer updated



Buyer





Buyer can use the QR code to verify the invoice

Buyer can view the ITC related to the invoice in his GSTR-**2**A



E-Way bill system will create the eway bill







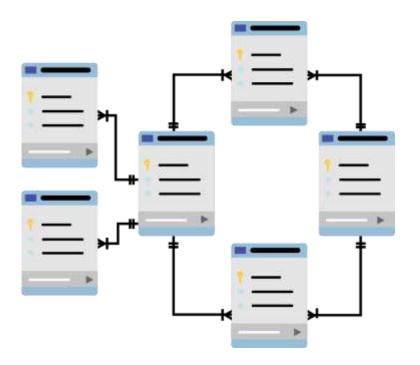
06. E-Invoice: Implications for Taxpayers

Implications for Taxpayers



- e-invoice does not mean generation of electronic invoice by GST Portal but reporting of Invoice electronically and getting an IRN
- No Change in the way taxpayer interfaces with ERP/Accounting Software and generate invoice
- Only Change: Reporting of invoice data generated in a particular format which
 can be understood by government portal as well as at buyers' end.
- All changes will be made by software providers in respective softwares to enable reporting invoice details to Invoice Reporting Portal and get IRN.





07. E-Invoice: Schema/ Format

Schema/ Format





- E-invoice schema is notified as 'INV-1'
- 'Schema' simply means a structured template or format
- 'e-invoice' schema is the standard format for electronic invoice
- Invoice details in prescribed schema to be reported to IRP in **JSON** format (JavaScript Object Notation)
- 'JSON' can be thought of as a common language for systems/machines to communicate between each other and exchange data

Schema/ Format



- Businesses are already preparing/generating invoices in their
 ERPs/Accounting/Billing Software; the same to continue without any change
- 'Schema' acts as uniform standard for ERP/ Billing/ Accounting software providers to build utility in their solution/package to prepare e-invoice, for reporting to IRP
- Schema ensures e-invoice is 'machine-readable' and 'inter-operable', i.e. the invoice/format can be readily 'picked up', 'read', 'understood' and further processed by different systems like Tally, SAP etc.
- No need of further data entry by buyers & hence transcription errors eliminated;

Schema/ Format: Basics



- In e-invoice scenario, we are talking of 'machine-to-machine' exchange of invoice data (between seller & IRP and between seller and buyer).
- Though the option of obtaining IRN by entering invoice data via web-based screen will be made available, that mode will be used rarely, e.g. by businesses who don't use any ERPs/Accounting/Billing Software and have very few invoices to report. This will be introduced later
- Going forward, for small entities not having their own ERP/Software solutions, a free offline utility will also be provided, through which invoices can be easily prepared, reported to IRP and obtain IRN/signed e-invoice.

Schema/ Format: Cardinality



- For each field, 'Cardinality' is marked as 0..1 / 1..1 / 1..n / 0..n
- To denote whether a field is 'mandatory' and is 'repeatable'

Notation	Meaning
Starts with 0	Optional field
Starts with 1	Mandatory field
Ends with 1	Field can be entered only once
Ends with n	Field can be repeated multiple times

Schema/ Format: Section/ Headers



S. No.	Description	Nature of Section	Total	Mandatory	Optional
1	Basic Details	Mandatory	8	6	2
2	Invoice Period	Optional	2	2	0
3	Order and Sales Order Reference	Optional			
3.1	Preceding Document Reference	Optional	3	2	1
3.2	Receipt / Contract References	Optional	8	0	8
4	Supplier Information	Mandatory	10	6	4
5	Buyer Information	Mandatory	12	6	6
6	Payee Information	Optional	9	0	9

Schema/ Format: Cardinality



S. No.	Description	Nature of Section	Total	Mandatory	Optional
7	Delivery Information	Optional			
7.1	Despatch From (Annexure 1.1)	Optional	6	5	1
7.2	Ship To (Annexure 1.0)	Optional	8	5	3
8	Item Details Including Batch Details (Annexure 1.2 &	Mandatory	33	9	24
	Annexure 1.4) Attribute Details (Annexure A 1.5)		2	0	2

Schema/ Format: Cardinality



S. No.	Description	Nature of Section	Total	Mandatory	Optional
9	Document Total (Annexure 1.3)	Mandatory	13	2	11
10	Extra Information	Optional	8	1	7
11	Additional Supporting Documents	Optional	3	0	3
12	E-way Bill Details	Optional	8	1	7
	Total		133	45	88

Schema/ Format: Annexures at a Glance



S. No.	Description	Nature of Section	Total	Mandatory	Optional
A 1.0	Ship to Details	Optional	8	5	3
A 1.1	Dispatch from Details	Optional	6	5	1
A 1.2	Item Details	Mandatory	30	8	22
A 1.3	Document Total Details	Mandatory	13	2	11
A 1.4	Batch Details	Optional	3	1	2





08. E-Invoice: API Testing

API Testing





• API Specifications made available by NIC at

https://einv-apisandbox.nic.in

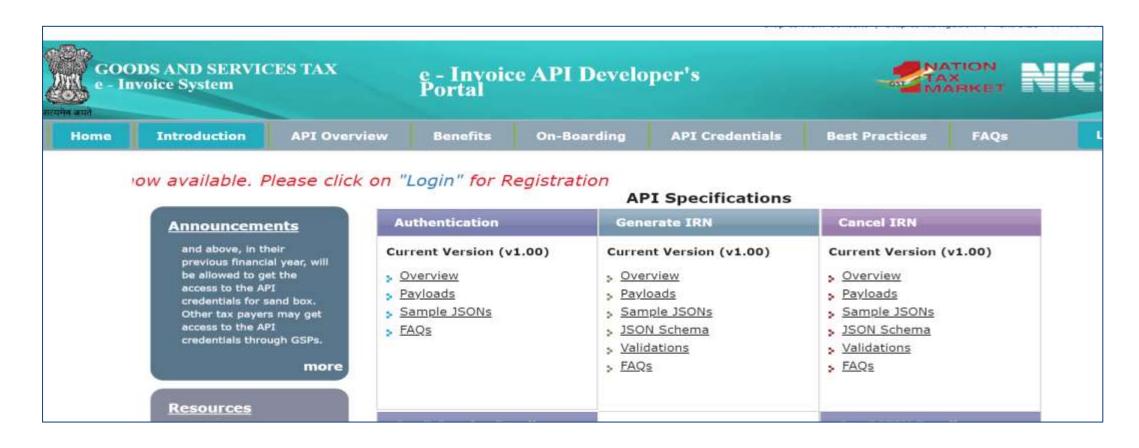
• Registration and Testing going on since 7-1-2020.

API Testing



Sandbox API portal for taxpayers and GSPs:

https://einv-apisandbox.nic.in



API Testing Status (As on 02.08.2020)



e-Invoice API Sandbox Dashboard						
From Date 06/01/2020	-	To Date 02/08/2020	Submit			
No. of Taxpayers Registered	0100	No. of GSPs Registered	40			
	3198		42			
No. of IRNs generated		No. of IRNs cancelled				
	3215829		14602			
No. of Distinct Users Generating Tokens		No. of distinct Taxpayers generated IRNs				
	1742		1177			

https://einvoice1-trial.nic.in (For Bulk Upload)









09. E-Invoice: Outreach and Feedback

Outreach and Feedback



- Overview & FAQs published and being updated from time to time
- 2 Awareness Videos released in wide circulation on social media; More on the way
- Awareness/Interaction sessions held in 7 major cities: New Delhi, Chennai, Hyderabad, Jaipur, Bengaluru, Pune and Mumbai (Dec. 2019 & Jan. 2020)
- 900+ Software professionals from about 150 software and product development companies attended.
- 125+ accounting & billing software providing entities enrolled with GSTN to get regular updates on e-invoice
- You can send suggestions on e-invoice at <u>e-invoice@gstn.org.in</u>





10. E-Invoice: Questions