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# Electronic Transaction Aggregation & Analysis Layer







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# User and Technical Document URL : https://etaal.gov.in





National Informatics Centre Ministry of Electronics & Information Technology Government of India



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# **1.Introduction**

All Ministries and Departments of Central and State/UT Governments have been implementing eGovernance projects for providing eServices to citizens. An idea about the impact of eServices can be obtained from the number of eTransactions taking place under these applications implemented by various Government Ministries/Departments.

eTaal facilitates quick analysis of eTransaction data shared by various applications in tabular as well as graphical form enabling the user to drill down to the lowest possible level. It also enables the User/Ministry/Department to view the consolidated picture of eTransaction statistics of various eGovernance projects across the country and to visualize the status of utilization of various eGovernance applications running across the country. The mass popularity of eTaal 1.0 has led to the development of eTaal 2.0 which is equipped with multitude of features for a smoother and more meaningful experience for the user.

For the improvisation of the application, the following features are added to eTaal 2.0:

- Service Directory To facilitate the view of eServices being delivered across the country, Service Directory has been developed. The eService directory provides the details of eGovernance applications delivering the service along with the details of spatial spread for a given service. It helps citizens to find state level services grouped under a particular standard service.
- **Business Intelligence (BI) Tools** BI will give extra edge to eTaal and establish it as the most logical choice for monitoring and tracking the progress of various initiatives and help the Government in decision making.
- **State Portal** A personalized portal for States and Union territories by the name of "State Portal" has been implemented on the eTaal website. It helps citizens in finding state level services grouped under a particular standard service.
- **Mobile Application for eTaal** Mobile Application for eTaal is being further developed. The current feature of Application allow the users to get the information of eTransaction count on their mobiles.

# 2. System Overview

<u>e-Transaction view</u> – It shows the e-Transaction count of various eServices under the following categories:-Central Govt. Projects, State Govt. Projects, Standard Services, Mission Mode Projects, Across the Counter eServices, NOFN, Categories.

01

02

03

04

05

**Login**- Registered users can login to eTaal from here. It enables the users to login to eTaal with their registered email id and password.

<u>Service Directory-</u> It provides the view of eServices being delivered across the country. The users can search for the relevant services on the basis of-

- 1. Type i.e State, Ministry & All
- 2. Select the relevant State / Ministry / All 3. Category
- 4. Standard Service
- 5. Service Name

**State Portal**- The State portal link contains links for all 36 States and UTs represented on a heat map of India. On clicking a particular State, the user is redirected to an exclusive portal of that State which provides eTransaction count of that State and of various eServices of that State.

**FAQ** - "Frequently Asked Questions" of eTaal provides responses to users on few of the general queries pertaining to eTaal application. <u>**Report-**</u> The Report tab on the eTaal homepage shows different types of reports generated on the basis of the services eTransaction count-

- 1. State Wise Transaction Per 1000 Population
- 2. State Wise Transaction Per Services
- 3. Category Wise Transaction

**Signup**- The new user needs to sign up on eTaal portal to create the login details before proceeding to the service enrollment page. Once the user has successfully created the login credentials, he/she may click on the login option.

**<u>BI Analysis</u>**. It shows different type of BI analysis on eTransaction data. The various categories of BI Analysis are as follows:

- 1. YEARLY ANALYSIS
- 2. SERVICE ANALYSIS
- 3. MMP ANALYSIS
- 4. STATE WISE ANALYSIS

<u>Connect Your Services</u> -It is an informational pop up that guides a new user about service enrollment process on the portal.

### Awards:-

- 1. Microsoft Data Heroes Award 2017 for eTaal Portal
- 2. ICEGOV Best Poster Paper Award 2017 for eTaal Portal
- 3. Digital India Knowledge Exchange Award 2016
- 4. eINDIA Awards 2014
- 5 .SKOCH Platinum Award 2013
- 6. SKOCH Order of Merit 2013

# 3. Abbreviation

Abbreviation	Description
B2C	Business to Citizen
DBT	Direct Benefit Transfer
MeitY	Ministry of Electronics and Information Technology
DCC	Dashboard Client Connector
DSC	Dashboard Server Connector
eTaal	eTransaction Aggregation and Analysis Layer
HTML	Hypertext Markup Language
IE	Internet Explorer
IIS	Internet Information Services
ІТ	Information Technology
ММР	Mission Mode Project
NeGP	National eGovernance Plan
NIC	National Informatics Centre
NOFN	National Optical Fiber Network
OS	Operating System
PDS	Public Distribution System
РНР	Hypertext Preprocessor
РМС	Project Management Committee
PNR	Passenger Name Record
RoR	Record of Right
RTI	Right To Information
SPMC	State Project Management Committee
SQL	Structured Query Language

# 4.Stakeholders

# 5. Purpose of this Document

The purpose of this document is to enable the user to identify transactions, categorize various services and effectively use the application. The user may further view the eTransaction count for various Central and State projects, State and Central MMPs, and other analysis as per requirement.

The document also aims at providing the users with all the necessary information regarding registration of their respective services and integration of their data with eTaal.

# 6. How to Access the Dashboard

The portal may be accessed using the URL https://etaal.gov.in Home Page will be displayed as shown in Figure-1.



Figure-1

# 7. Functionalities of eTaal

Major functionalities incorporated in eTaal web portal are as follows:

> eTransaction view of Central / State Govt. projects aggregated at various levels

> eTransaction view of Mission Mode Projects (MMPs) aggregated at various levels

eTransaction count for

- Standard Services
- o Service Categories
- States providing "Across the Counter" services
- States providing eServices through NOFN
- Drill-down feature to get detailed view of eTransaction count. E.g. User can click on a single Ministry and view eTransaction count for all projects under that Ministry. In another case, user may select a particular Standard Service and view eTransaction count for all States giving that service. If the user further drills down and selects a particular State, he/she can view eTransaction count for all services that the State is providing under that respective Standard Service category.
- > Time line analysis of eTransaction count across different time periods
- Graphical and Tabular presentation of eTransaction count
- Service enrollment feature through login
- Service Directory that gives list of services under any service category for selected State/Ministry
- Ranking of States and Projects on the basis of eTransaction count. E.g. Homepage of eTaal displays the names of Top 5 Projects and States/UTs on the basis of total eTransaction count since the eTaal portal got launched. The portal also gives ranking for ongoing month and trends for last six months

# 8. eTaal Home Page

eTaal 2.0 Home Page is displayed in Figure-1. The components of Home Page are -

- 1. Menu Bar i.e. 'Left Menu Bar' and 'Right Menu Bar'
- 2. National eTransaction Count
- 3. eTaal Description
- 4. Top 10 Mission Mode Projects
- 5. eTransaction Growth
- 6. Services Classification
- 7. Top 5 States
- 8. Top 10 Central Projects
- 9. State wise MMP Analysis

### 8.1 Menu Bar

The Home page of eTaal shows two "Menu Bar" - "Left menu Bar" and "Right menu Bar".

### 8.1.1 Left Menu Bar

"Left Menu Bar" Contains:

- I. eTransactions view
- II. Report
- III. Service Directory
- IV. State Portal
- V. FAQ

### I. eTransactions View

eTransaction count is number of **'end-to-end electronic transactions'**. User can view eTransaction count for Central and State Government projects, various standard services, etc. by clicking on **'eTransaction View'** as shown in Figure-1.

The eTransaction View tab includes the following (Figure-2):





### a. Central Govt. Projects

'Central Govt. Projects' is the default option displayed under eTransactions view. It shows two radio buttons - **"Union Ministries"** and **"Central Govt. project".** 

### <u>Union Ministries</u> –

On clicking *"Union Ministries"* radio button, eTransaction count for all Union ministries will be displayed as shown in Figure-3

sl#	Union Ministries	No. of e-Transactions	No. of e-Services
1	Ministry of Agriculture & Farmers Welfare	1.75.15.96.784	
2	Ministry of Commerce and Industry	2.25.578	
3	Ministry of Communications	2.49.69.617	
4	Ministry of Consumer Affairs Food & Public Distribution	61,15,639	
5	Ministry of Corporate Affairs	40 24 664	5
6	Ministry of Electronics and Information Technology	11 97 47 86 021	-
7	Ministry of External Affairs	10 92 73 341	9
	Ministry of Einance	10 47 04 73 561	2
9	Ministry of Health and Family Welfare	2 56 72 844	-
10	Ministry of Law and Justice	81 32 08 921	1
10	Ministry of Bascharoti Dai	24 24 404	
12	Ministry of Partonnal Public Grievances 9 Peorings	1 99 59 742	
12	Ministry of Petroleum and Natural Gar	1 17 95 59 529	
15	Ministry of Petroteum and Natural Gas	42 42 77 244	
14	Ministry of Rand Target and Ukahara	43,13,77,216	
19	Ministry of Road Transport and Highways	8,51,53,015	2
16	Ministry of Rural Development	43,50,92,690	
17	Ministry of Urban Development	16,52,240	
	I otal e- Iransactions	27,33,65,66,025	
From D	ate : 01-Jan-2018 To Date : 11-Dec-2018 Su	bmit Display Type :	Tabular Data 🛛 🔻

### Figure-3

This page will display "**Total no. of eTransactions**" between two user-defined dates (From Date and To Date). User can view specific Display Type and Date wise Transactions for which the user needs to select '*From date'*, '*To Date'*, and *Display Type*, and then click on '**Submit**' button. Filter options are available at the bottom of the page.

This report can be viewed in

- Tabular Data
- Column Chart
- Pie Chart

### Tabular Data –

If User wants to view eTransaction as 'Tabular data' user needs to select display type – "**Tabular Data**" from display type option. Tabular data of eTransaction view is displayed in Figure-4.

						Search : Se	arch
Sl #	Union M	Ministries			<u>م</u>	No. of e-Transactions	No. of e-Services
1	Ministry	of Agriculture &	Farmers Welfare			1,75,15,96,784	:
2	Ministry	of Commerce an	d Industry			2,25,578	
3	Ministry	of Communication	ons			2,49,69,617	
4	Ministry	of Consumer Aff	airs,Food & Public	c Distribution		61,15,639	
5	Ministry	of Corporate Aff	airs			40,24,664	5
6	Ministry	of Electronics ar	d Information Te	chnology		11,97,47,86,021	91
7	Ministry	of External Affai	irs			10,92,73,341	9:
8	Ministry	of Finance				10,47,04,73,561	2
9	Ministry	of Health and Fa	mily Welfare			2,56,72,844	
10	Ministry	of Law and Justi	ce			81,32,08,921	1
11	Ministry	of Panchayati Ra	nj			34,26,604	6
12	Ministry	of Personnel, Pu	blic Grievances &	Pensions		1,99,58,762	1
13	Ministry	of Petroleum an	d Natural Gas			1,17,95,58,528	
14	Ministry	of Railways				43,13,77,216	
15	Ministry	of Road Transpo	rt and Highways			8,51,53,015	5
16	Ministry	of Rural Develop	ment			43,50,92,690	:
17	Ministry	of Urban Develo	pment			16,52,240	
				Total e-Tra	ansactions	27,33,65,66,025	
Error D		1 100 2010	To Date :	11 Dec 2019	Sub	mit Diselay Type :	Tabular Data
From Da	ate : U	(DD-MMM-YVVV)	To Date :	(DD-MMM-VVV)	Jour	unit Display Type :	Tabular Data 🔻

Figure-4

A Union Ministry can be clicked to further drill-down to view projects under that Ministry. E.g. all projects under 'Ministries of Agriculture & Farmers Welfare' are shown in Figure-5.

1-Jan-2018 T	n: 01-Aug-2018	Total no. of e-Transactions: 96,32,09,79
		Search : Search
sl #	Central Govt. Project	No. of e-Transactions
1	AGMARKNET	3,50,451
2	Farmers Web Registration	1,65,32,411
3	Kisaan SMS Portal	94,63,26,937
	Total e-Transactions	96,32,09,799
From	Date : 01-Jan-2018 To Date : 01-Aug-2018 Display T	ype : Tabular Data 🔻

### Figure-5

A project can be further drilled down to view all services under that project. E.g. on clicking the project "Kisaan SMS Portal", user is shown all services under this project (Figure-6)

Jenual Govi	Projects State Govt Projects Standard Services	Mission Mode Project	AcrossTheCounter	NOFN Categories
<b>e(s) of Kis</b> 1-Jan-2018 1	aan SMS Portal o: 01-Aug-2018		Total no. of e Search :	Transactions: 94,63,64,789 Search
sl #	Service Name	<u>م</u>	No. of e-Transactions	Last Updated On
1	Kisaan SMS Advisory & Information Service		94,63,64,789	01 Aug 2018
			04 (2 (4 780	
		Total e-Transactions	94,03,04,789	

### • Column Chart

If User wants to view eTransaction as 'Column Chart', user needs to select display type – "Column Chart" from display type option (Figure-7).



Figure-7

- Each 3D column bar depicts '**Union Ministries'** identified by different color, Height of each column bar shows total transactions occurred in that Ministry', during the period specified by user.
- Each Ministry can be clicked to further drill-down for details.

### Pie Chart

If User wants to view eTransaction as 'Pie chart', user needs to select display type – "**Pie Chart"** from display type option.

### Central Government Projects -

On clicking *"Central Government Projects"* radio button, eTransaction count for all Central Government projects will be displayed (Figure-8).Central Government Projects page will display "Total no. of eTransactions" between two user-defined dates (From Date and To Date). User can view specific Display Type and Date wise Transactions for which user needs to select *'From date'*, *'To Date'*, and *Display Type*, and then click on 'Submit' button.

OUnic Centra From: 0	n Ministries  Central Govt Project Il Govt Project Total no. of e-Transactions: 2,62,99,13,69 1-Jan-2019 To: 22-Feb-2019					
			Search : Search			
	sl #	Central Govt Project 🗠	No. of e-Transactions	No. of e-Services		
	1	Agriculture	27,89,53,636	3		
	2	Central Public Works Department (CPWD)	1,56,561	1		
	3	CSC	18,45,377	55		
	4	Dept. of Administrative Reforms and Public Grievances (DARPG)	12,87,873	1		
	5	Dept. of Pensions and Pensioners Welfare (DoP and PW)	9,758	2		
	6	Dept. of Personnel and Training (DoPT)	5,890	4		
	7	Dial.gov	1,409	1		
	8	Directorate General of Foreign Trade	38,600	1		
	9	e-Procurement	11,47,077	5		
	10	Finance	1,13,85,42,709	9		
	11	Food and Civil Supplies	8,12,630	4		

Figure-8

Three Types of display are available -

- Tabular Data
- Column Chart
- Pie Chart

User can select display type according to need. Central Government Projects can be clicked to further drill-down for services as in earlier cases.

### b. State Govt. Projects

The 'State Govt. Projects' tab enables the user to view eTransactions count of eServices under various States/UT.

- User can change time period for displaying data by changing 'From Date' and 'To Date' and clicking on Submit button.
- Each State/UT can be clicked to further drill-down for State/UT specific services.

## <u>Tabular Data (for State govt. Projects)</u>

1-Jan-2018 To: 01-Aug-2018         Total no. of e-Transactions: 3,01,68,52,790           Search:         Search					
sl #	State	<ul> <li>No. of e-Transactions</li> </ul>	e-Transaction per 1000 Population	No. of e-Services	
1	Andaman and Nicobar	7,13,583	1882.8	12	
2	Andhra Pradesh	50,42,58,425	10193.01	185	
3	Arunachal Pradesh	6,13,980	444.27	34	
4	Assam	1,89,73,502	608.73	77	
5	Bihar	9,45,67,273	911.02	55	
6	Chandigarh	27,21,914	2582.46	48	
7	Chhattisgarh	7,20,24,299	2820.06	69	
8	Dadra and Nagar Haveli	3,70,301	1082.75	42	
9	Daman and Diu	2,50,467	1034.99	38	

Figure-9

Each state can be drilled down by clicking on State name to get the eTransaction count of all Standard Services of that particular State. (Figure-10).

rd Service -Jan-2018 To	f e-Transactions: 7,16,781 earch	
sl #	Standard Services	No. of e-Transactions
1	e-Procurement	172
2	Health	4,77,498
3	Rural Development	4
4	Transport	2,165
5	Utility Services and Bill Payment	2,36,942
	Total e-Transactions	7,16,781
From [	Date : 01-Jan-2018 To Date : 01-Aug-2018 Submit Display Type : Tabu	lar Data ▼

Figure-10

• Each Standard Service can be further drilled down to view specific services under that Standard Service.(Figure-11)

	-	Search :	Search	
sl #	Service Name	No. of e-Transactions	Last Updated On	
1	DL Endorsement	2,015	17 Jul 2018	
2	DL Issued	263	17 Jul 2018	
	Total e-Transactions	2,278		
From D	ate : 01-Jan-2018 To Date : 01-Aug-2018 Submi	Display Type : Tab	ular Data 🔻	

Figure-11

- Standard Services can be drilled down to view specific services under that category. E.g. when user clicks on "Education", all services under this category are displayed.
- Same data can be viewed in bar chart as well as pie chart, by selecting appropriate option from Display Type drop-down located below the chart.

### c. Standard Services

For ease of classification, grouping and presentation in a uniform manner, the services have been categorized into various Standard Services. It shows eTransactions count for both Central and State projects. The user can further drill down to see State wise details of the selected Standard Service (Figure-12).

USER & TECHNICAL MANUAL FOR								
indard Services								
Central Govt Projects State Govt Projects Standard Services Mission Mode Project AcrossTheCounter NOFN Categories								
andard Ser	vice(s)	D 2019	otal no. of e-Transactions: 32 13 88 84 845					
om: 01-01-201	10 10: 19	Dec-2010	Search : Search					
sl #		Standard Service Name	No. of e-Transactions					
1	1	Certificates	12,53,28,780					
2	2	Public Distribution System	41,23,82,620					
3	3	Agriculture & Allied	1,87,67,97,448					
4	4	Court and Judiciary	83,82,01,148					
5	5	Election	18,42,01,935					
6	5	Police	36,41,132					
7	7	Personnel and Admin	3,49,24,244					
8	8	Grievance	2,76,08,776					
9	9	RTI	38,462					
1	0	Property Registration & House Tax	4,13,21,046					
1	1	Licenses and Permits	1,44,39,728					
1	2	Health	16,33,92,705					
1	3	Rural Development	88,70,50,249					

Figure-12

• User can change time period for displaying data by changing 'From Date' and 'To Date' and clicking on 'Submit' button

Standard Services can be drilled down to get the State view. Figure-13 shows drilled-down Service Classification of the service 'RTI'. It shows eTransaction count for all States for RTI eService.

01-01-2018 To	03-Aug-2018 Total no Search : S	. of e-Transactions: 22,79 Search
SI #	State A	No. of e-Transactions
1	Assam	99
2	Central Projects	22,391
3	Kerala	12
4	Punjab	177
5	Tripura	1
6	West Bengal	116
	Total e-Transactions	22,796
From I	Date : 01-01-2018 To Date : 03-Aug-2018 Display Type : Tabul	ar Data 🔻

Figure-13

The State/UT can further be drilled down to get the Service view of that State for the selected Standard Service. Figure-14 shows Services of Assam under RTI.

ndard S	Services > RTI	> Assam		
Ce	entral Govt Proj	ects State Govt Projects Standard Services Mission Mode Project	AcrossTheCounter	NOFN Categories
ervice	(s) of Assam	under RTI	Tot	al no. of e-Transactions: 99
rom: 01-	-01-2018 Io: 03	-Aug-2018	Search :	Search
1	SI #	Service Name	No. of e-Transactions	Last Updated On
	1	APPLICATION FOR FIRST APPEAL (District Administration Officer)	3	16 Jul 2018
	2	APPLICATION FOR INFORMATION UNDER RTI	96	17 Jul 2018
			99	
		Total e-Transactions		
	2	APPLICATION FOR INFORMATION UNDER RTI	96 <b>99</b>	17 Jul 2018

Figure-14

• Same data can be viewed in bar chart and pie chart, by selecting appropriate option from the Display-type drop down located below the chart.

### d. Mission Mode Projects

This option enables the user to view the eTransactions count for various Central and State MMPs across the nation. Figure-15 shows eTransaction count of all Mission Mode Projects integrated with eTaal in tabular form.

ntral Govt I	Projects State Govt Projects Standard Services Mission	Mode Project AcrossTheCounter	NOFN Categ
1 Mode P -Jan-2018 1	rojects ro: 19-Dec-2018	Total no. of e-Tra Search : S	ansactions: 3,71,80,69,9 earch
sl #	Mission Mode Project	No. of e-Transactions	No. of e-Services
1	Agriculture	1,82,60,82,778	2
2	Commercial Taxes	1,58,68,876	11
3	csc	2,02,34,231	8
4	DGFT	2,25,593	
5	e-District	15,01,06,231	42
6	e-Courts	83,34,32,198	1
7	Employment Exchange	42,42,846	
8	e-Panchayats	1,271	1
9	e-Procurement	62,24,017	1
10	Immigration, Visa and Foreigners Registration & Tracking (IVFRT)	2,39,86,624	7
11	Income Tax (IT)	7,84,89,350	
12	Land Records	27,72,65,741	3
12	MCA21	41 28 910	5

Figure-15

- Same data can be viewed in bar chart and pie chart, by choosing appropriate option from Displaytype drop-down located below the chart.
- User can change time period for displaying data by changing 'From Date' and 'To Date' and clicking on Submit button.

• A Mission Mode Project can be drilled down to get the status of that project across various States. Figure-16 shows drilled-down view of e-Panchayats Mission Mode Project.

tate u om: 0	under e-Pau 1-Jan-2018 To	ıchayats Project : 03-Aug-2018	Total no. of e-Transactions: 1,103 Search : Search
	SI #	State	No. of e-Transactions
	1	Kerala	629
	2	Maharashtra	274
	3	Odisha	200
		Total e-Transactions	1,103

Figure-16

A State can further be drilled down to get the Service view of that State for the selected Mission Mode Project. Figure-17 shows Standard Services of Kerala State under e-Panchayats MMP.

	Central Govt Proje	ects State Govt Projects Standard Services Mission Mode Project Ac	rossTheC	ounter NOFN	Categories
nd 1: (	ard Service(s) 01-Jan-2018 To: 03	3-Aug-2018		Total no. of e-Transactions Search : Search	s: 629
	SI #	Standard Service Name	4	No. of e-Transactions	-
	1	Licenses and Permits			629
		Total e-Trar	sactions		629
	From Date :	01-Jan-2018 To Date : 03-Aug-2018 Submit D	isplay Typ	e : Tabular Data 🔻	

Figure-17

### e. Across The Counter

"In several instances, the relevant information is proactively, collected, digitized, verified and stored in digital repository. These services are delivered across the counter as and when requested by citizen. E.g. Record of Right (ROR)"Figure-18 shows the states providing across the counter services.

	<b>USER &amp; TECHNICAL MANUAL FOR</b>
TheCounter	
Central Govt Projects State Govt Projects Standard Services Mission Mode I	Project AcrossTheCounter NOFN Categories
s) providing Across the Counter Services 1-Jan-2018 To: 19-Dec-2018	Total no. of e-Transactions: 4,57,39,25,725
	Search : Search
Sl# State Name	<ul> <li>No. of e-Transactions</li> </ul>
1 Andhra Pradesh	1,12,34,56,693
2 Arunachal Pradesh	57
3 Assam	3,41,453
4 Chandigarh	21,99,326
5 Chhattisgarh	10,62,49,699
6 Dadra and Nagar Haveli	17,392
7 Daman and Diu	25,686
8 Delhi	2,04,95,371
9 Goa	9,29,980
10 Gujarat	39,20,06,421
11 Haryana	3,13,31,784
12 Himachal Pradesh	3,83,62,284
13 Jammu and Kashmir	2,74,851

Figure-18

- Same data can be viewed in bar chart and pie chart, by selecting appropriate option from the Display-type drop-down located below the chart.
- User can change time period for displaying data by changing 'From Date' and 'To Date' and clicking on 'Submit' button.

A State can be drilled down to view all Across the Counter Services provided by that particular State. Figure-19 shows all such services for Daman and Diu State.

		Search :	Search
sl#	Service Name	No. of e-Transactions	Last Updated On
1	e-CST	15,658	02 Aug 2018
2	e-Deregistration	48	30 Jun 2018
3	E-Payment	1,034	02 Aug 2018
4	E-Return	2,696	02 Aug 2018
5	e-TDS	16	28 Apr 2018
6	ONLINE POWER APPLICATION	1,758	02 Aug 2018
7	VAT Registration	17	31 Jul 2018
	Total e-Transactions	21,227	
From	Date : 01-Jan-2018 To Date : 03-Aug-2018 Submit	Display Type : Tabu	lar Data 🔻

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### f. NOFN

This option includes all services under National Optical Fiber Network (NOFN). It provides State wise, District wise, Block wise and services wise transaction count. Figure-20 shows State wise transaction count.

ate	(s) providing	e-Services through NOFN	I			Total	no of a Transa	tions: 4.915
om:	01-Jan-2018 Io	: 02-Aug-2018			S	Search :	Search	
	SI#	State Name				<b>\</b>	No. of e-Trans	actions
	1	Andhra Pradesh						4,815
					Total e-Tran	sactions		4,815
	From D	Date : 01-Jan-2018	To Date : 02-Aug-2018	Submit	Display Type :	Tabu	ılar Data 🔻	

Figure-20

- User can change time period for displaying data by changing 'From Date' and 'To Date' and clicking on 'Submi't button.
- User can drill down States providing eServices through NOFN to view District wise eTransaction count. This is shown in Figure-21

t(s) of Andh 1-Jan-2018 To: (	a Pradesh State providing e-Services through NOFN 13-Aug-2018	Total n	o. of e-Transactions: 4,815
		Search :	Search
Sl#	District Name	<u>م</u>	No. of e-Transactions
1	Visakhapatnam		4,815
		Total e-Transactions	4,815
From Da	te : 01-Jan-2018 To Date : 03-Aug-2018 Submit	Display Type : Tabul	lar Data 🔻

Figure-21

User can further drill down Districts providing eServices through NOFN to view Block wise transactions. This is illustrated in Figure-22.

NOFN Ser	vices > And	hra Pradesh > Visakhapatna rojects State Govt Proje	am ects Standard Services M	lission Mode Project	AcrossTheCounter		NOFN	Categories
Block(s	5) of Visakh	iapatnam District in And	dhra Pradesh State providing	a-Services through N	NOFN	Total	no of e-Transactions:	4 915
From: UT	-Jan-2018 To	: 03-Aug-2018					no. of c- fransactions.	4,015
From: UT	-Jan-2018 To	: 03-Aug-2018			s	Search :	Search	4,015
From: 01	-Jan-2018 To Sl#	Block Name			s	Search :	Search	5
From: 01	-Jan-2018 To Sl# 1	83-Aug-2018 Block Name Paravada			S	Gearch :	No. of e-Transactions	4,815
From: 01	-Jan-2018 To SI# 1	83-Aug-2018 Block Name Paravada			S Total e-Tran	Search :	No. of e-Transactions	4,815 4,815
From: 01	-Jan-2018 To SI# 1	Block Name Paravada			S Total e-Tran	Search :	No. of e-Transactions	4,815 4,815

Figure-22

A Block can further be selected to view all eServices of that Block through NOFN (Figure-23).

1-Jan-2018 To	: 03-Aug-2018	Total r Search :	no. of e-Transactions: 4,81
Sl#	Service Name	No. of e-Transactions	Last Updated On
1	DTH E-Recharge	- 19	11 Jul 2018
2	Meeseva Application Sale	4,727	03 Aug 2018
3	Oxigen Mobile Recharge	69	11 Jul 2018
	Total e-Transactions	4,815	
From [	ate : 01-Jan-2018 To Date : 03-Aug-2018 Submit	Display Type : Tabu	ilar Data ▼

Figure-23

# g. Categories

To facilitate better analysis & more effective decision making services have been classified into six categories: A, B, C, D, E and F:

- 1. A-Statutory and Non Statutory Services
- 2. **B**-Utility Bill payments
- 3. C-Business to Citizen (B2C) Services
- 4. **D**-Information Services
- 5. E-Social Benefits
- 6. F-Mobile Governance

Figure-24 shows eTransaction count for all six categories for the selected period in tabular form.

atego	Central Govt Pr	ojects State Govt Projects Standard Services Mission Mode Project AcrossTheC	ounter NOFN Categories
Cate From	<b>:gory(ies)</b> : 01-Jan-2018 To:	02-Aug-2018 To	tal no. of e-Transactions: 19,07,56,47,833 Search : Search
	SI #	Category A	No. of e-Transactions
	1	Statutory and Non Statutory Services	10,12,81,21,529
	2	Utility Bill payments	20,97,47,236
	3	Business to Citizen (B2C) Services	5,69,79,12,410
	4	Informational Services	82,16,80,040
	5	Social Benefits	90,43,04,160
	6	Mobile Governance	1,31,38,82,458
		Total o Transactions	10 07 56 47 922

Figure-24

If a Service Category is selected, user can view eTransaction count for all States under this particular category. Figure-25 shows drilled-down view of category B service "Utility Bill payments".

n <b>te(s) under Ca</b> m: 01-Jan-2019 To	tegory B (Utility Bill payments) o: 22-Feb-2019	Total no. of e-Transactions: 5,56,86,687 Search : Search
SI #	State Name	<ul> <li>No. of e-Transactions</li> </ul>
1	Andhra Pradesh	2,00,29,662
2	Chhattisgarh	3,71,126
3	Chandigarh	3,11,032
4	Delhi	11,26,023
5	Gujarat	74,58,528
6	Himachal Pradesh	1,70,426
7	Kerala	5,53,589
8	Lakshadweep	67,240
9	Madhya Pradesh	44,32,943
10	Nagaland	1,62,420
11	Odisha	122

Figure-25

User can further select a State to view all Services under the Category selected for this particular State. Figure-26 shows drilled-down view of all services under Category 'B' for Chandigarh State.

ategori	es > B (Utility B Central Govt Pro	ill payments) > Chandigarh ects State Govt Projects Standard Services Mission Mode Project	AcrossTheCounter	NOFN Categories
Servic From: 0	e <b>(s) under Ca</b> 11-Jan-2018 To: 0	tegory B (Utility Bill payments) of Chandigarh 3-Aug-2018	Total no. o Search :	f e-Transactions: 12,08,276 Search
	SI #	Service Name	No. of e-Transactions	Last Updated On
	1	HFCL Telephone Bill	22,181	02 Aug 2018
	2	Payment Of Electricity Bill	6,72,992	03 Aug 2018
	3	BSNL Payment	69,143	03 Aug 2018
		Water Bill Payment	4,43,960	03 Aug 2018
	4			
	4	Total e-Transactions	12,08,276	

Figure-26

Same data can be viewed in bar chart as well as pie chart, by choosing appropriate option from Display-type drop-down located below the chart.

### II. Report

The Report tab on Left Menu Bar lists various reports generated on the basis of the services eTransaction count (Figure-1).

When user clicks on report option, a pop up comes with lists of all reports mentioned below:

- State wise Transaction Per 1000 Population
- Central/State Wise Transaction Per Services
- Central/State Category Wise.

### a. State Wise Transaction per 1000 Population Report

This report provides details of eTransactions captured for per 1000 population of each of the 36 States/UTs. The user needs to select the date range for the period for which the report needs to be generated, and then click on 'Generate Report' Button.

On the selected date range, the report is generated as displayed in Figure-27. It shows population for all States/UTs, total eTransaction count for the period selected and average eTransaction per 1000 population.

t	Electronic Transaction Aggregation & Analysis Laye	ec	Ministry of Electronic	s & Information Technology Government of India
e-Trans	actions View Analysis Report Se	rvice Directory State Portal	FAQs Accolades Contact Us	G Select Language V Back To Main Site
t > State V	lise Transaction Par 1000 Population			
L > State W	nse mansaction rei 1000 ropulation.	State Wise Transactio	on Per 1000 Population	
S1#	From Date 01-01-2019	Generat	To Date 25	e-Transaction Per 1000 Population
SI#	From Date 01-01-2019 State Name	Cenerat Population 3,79,944	To Date 25	e-Transaction Per 1000 Population 665.80
SI# 1 2	From Date 01-01-2019 State Name Andaman and Nicobar Andhra Pradesh	Population           3,79,944           4,94,71,555	To Date 22 e Report No of e-Transactions 2,52,953 21,30,62,708	-02-2019 e-Transaction Per 1000 Population 665.80 4306.80
SI# 1 2 3	From Date 01-01-2019 State Name Andaman and Nicobar Andhra Pradesh Arunachal Pradesh	Population           3,79,944           4,94,71,555           13,82,611	To Date 22 e Report 2,52,953 21,30,62,708 1,75,635	-02-2019 e-Transaction Per 1000 Population 665.80 4306.80 127.00
SI# 1 2 3 4	From Date 01-01-2019           State Name         •           Andaman and Nicobar         •           Andhra Pradesh         •           Arunachal Pradesh         •           Assam         •	Population           3,79,944           4,94,71,555           13,82,611           3,11,69,272	To Date 25 e Report No of e-Transactions 2,52,953 21,30,62,708 1,75,635 49,74,542	-02-2019  e-Transaction Per 1000 Population 665.80 4306.80 127.00 159.60

Figure-27

# b. Central/State Wise Transaction per Services

This report provides average number of eTransactions under an eService for a particular Central project/ State/UT. It also gives % share of eTransactions for different Central projects/State/UT. User can select and generate the report under following two categories:

- 1. Central Wise Report
- 2. State Wise Report

User needs to select the date range for the period for which the report needs to be generated. Figure-28 provides view of Central wise report generated for a selected period. The report lists count of eServices for all Central projects for the selected time period along with count of eTransactions.

	Aggregation & A	action nalysis Layer	iviiiii3	ary of Electronics & in	Government of India
Transac	tions View Analysis Re	port Service Directo	ry State Portal FAQs A	ccolades Contact Us G Sele	ct Language 🔻 Back To Main S
entral/S	tate Wise Transaction Per Se	rvices			
		Centr	al/State Wise Transaction	n Per Services	
		Centro Centro	al Wise Report ©State Wise	Report	
SL#	Project	© Centr	Al Wise Report State Wise Generate Report	e-Transaction Per Services	e-Transaction % Share
SL #	Project - AGMARKNET	© Centr No. of Services 1	Al Wise Report State Wise Generate Report No. of Transactions 53,156	e-Transaction Per Services 53156.00	e-Transaction % Share 0.00
SL # 1 2	Project AGMARKNET Central Public Works Department (CPWD)	© Centr No. of Services 1 1	Al Wise Report State Wise Generate Report No. of Transactions 53,156 1,61,141	e-Transaction Per Services 53156.00 161141.00	e-Transaction % Share 0.00 0.01
SL # 1 2 3	AGMARKNET Central Public Works Department (CPWD) Centralised Visa Issuance System	© Centro No. of Services 1 1 29	A Wise Report State Wise Generate Report No. of Transactions 53,156 1,61,141 3,56,474	e-Transaction Per Services 53156.00 161141.00 12292.21	e-Transaction % Share 0.00 0.01 0.01

### c. Central/State Category Wise Report

This report provides the details of number of eTransactions captured under various Categories of eServices (A, B, C, D, E, and F) for the Central and State Projects.

The User has the option to select and generate the report under following two Categories:

- I. Central Wise Report
- II. State Wise Report

Figure-29 provides the search parameters available to Users for the generation of report for Category Wise Transaction for Central and State Projects. Figure -29 shows the Central wise Report.

	Ager	egation & Analysis Lay	ver				(	Government of Inc
Trai	nsactions View An	alysis Report Se	ervice Directory	V State Portal FAC	as Accolades (	Contact Us	G Select Language	Back To Mai
entr	ral/State Category Wi	se.		<u>Category Wise Tr</u>	ansaction		<u>View CSC-Service</u>	Wise Transaction
	From	Date 01-01-2019	@ca	entral Wise Report I Generate Re	State Wise Report	To Date 22-	-02-2019	
~~								
SL #	Projects	Category A	Category B	Category C	Category D	Category E	Category F	Tota
SL # 1	Projects AGMARKNET	Category A 0	Category B 0	Category C	Category D 50,442	Category E	Category F 0	Tota 50,442
1 2	AGMARKNET Central Public Works Department (CPWD)	Category A 0	Category B 0	Category C 0	Category D 50,442 1,56,561	Category E 0	Category F 0	Tota 50,442 1,56,561
sL # 1 2 3	Projects AGMARKNET Central Public Works Department (CPWD) Centralised Visa Issuance System	Category A 0 0 3,51,494	Category B 0	Category C 0 0	Category D 50,442 1,56,561	Category E 0	Category F 0 0	Tota 50,442 1,56,562 3,51,494
# 1 2 3	Projects - AGMARKNET Central Public Works Department (CPWD) Centralised Visa Issuance System Centralized Public Grievance Redress And Monitoring System (CPGRAMS)	Category A 0 3,51,494 12,91,700	Category B 0 0	Саtедоту С 0 0 0	Category D 50,442 1,56,561 0	Category E 0 0 0	Cstegory F 0 0 0	Tota 50,442 1,56,563 3,51,494 12,91,700
st. # 1 2 3 4	Projects AGMARKNET Central Public Works Department (CPWD) Centralised Visa Issuance System Centralized Public Grievance Redress And Monitoring System (CPGRAMS) CONFONET	Category A 0 3,51,494 12,91,700 42,265	Category B 0 0	Саtедоту С 0 0 0 0	Category D 50,442 1,56,561 0 0 7,70,354	Category E 0 0 0 0 0	Cstegory F 0 0 0	Tota 50,442 1,56,563 3,51,494 12,91,700 8,12,619

Figure-29

There is a provision for users to sort the report in ascending or descending order to view the ranking of the Central Projects on the basis of the total count of eTransactions inclusive of all the Categories.

### **III. Service Directory**

The 'Service Directory' option is located on the left menu Bar as shown in Figure-1.

It provides list of eServices being delivered across the country. Users can search for relevant services on the basis of following search parameters-Type i.e. State/Ministry, State, Category, Standard Service, and Service Name. (Figure-30)

ype State 🔻 State A	II	Category All •	Standard Service All	T	Service Name	
			Search			

### **IV. State Portal**

The 'State Portal' tab is located on left menu Bar as shown in Figure-1. The link "State Portal" on the eTaal dashboard, allows the users of different states to view their eTransaction counts, by clicking on a Particular state. When the user clicks on State Portal option, a pop up comes which shows eTransaction count for all States as shown in Figure-31.



Figure-31

Once user clicks on a particular State, the portal for that state opens in another window. "State Portal" of Madhya Pradesh shown in Figure-32.



Figure-32

### a) Top 5 Projects

The State Portal of eTaal displays names of "**Top 5 Projects**" of particular State on the basis of the monthly transactions count. Figure-32 shows eTransaction count of Top 5 Projects of Madhya Pradesh state. By clicking on "**View More**" Tab, user can view "**eTransaction-Project Analysis State wise**" integrated with eTaal. This is displayed in Figure-33



Figure-33

# b) Top 5 Services

The State Portal of eTaal displays **Top 5 Services** of particular State. Figure-32 shows Top 5 Services of Madhya Pradesh state. By clicking on "**View More**" Tab, user can view "**eTransaction-Services by State wise**" integrated with eTaal. This is displayed in Figure-34



Figure-34

By clicking on "Analysis" Tab, user can view "Project and Service wise State Analysis" integrated with eTaal.

### c). Yearly Analysis

The State Portal of eTaal displays **"Yearly Analysis"** of particular State. Figure-32 shows Yearly Analysis of Madhya Pradesh state. By clicking on **"View More"** Tab, user can view **"eTransaction Year wise"** integrated with eTaal. This is displayed in Figure-35



Figure-35

By clicking on "Analysis" Tab, user can view "State Wise Analysis" integrated with eTaal.

### d). Service Classification (figures in Cr.)

The State Portal of eTaal displays **"Service Classification"** of particular State. Figure-32 shows Services Classification (in Cr.) of Madhya Pradesh state. By clicking on **"View More"** Tab, user can view **"eTransaction of Standard Services"** integrated with eTaal. This is displayed in Figure-36



Figure-36

### V. Frequently Asked Questions

The 'FAQ' tab is located on the left menu Bar on eTaal Homepage as shown in Figure-1.

This section "Frequently Asked Questions" provides users with answers to some of the general queries pertaining to eTaal application.

### 8.1.2 Right Menu Bar

"Right Menu Bar" Consists of-

- I. Login
- II. Signup
- III. BI Analysis
- IV. Connect your Services
- V. Contact Us

### I. Login

The 'Login' tab is located on the Right menu Bar as shown in Figure-1. In order to Login, user needs to click on this option. The login page will open where user will need to enter his/her 'Username', 'Password', and 'CAPTCHA' as shown in Figure-37.

eTaal Login	×
Username	
Registered Email ID	
Password	
·	
Enter below code	
XHL3K	
Login	
Figure-37	

### II. Signup

The 'Signup' tab is located on the Right menu Bar as shown in Figure-1.

User needs to sign up first in case he/she is logging in first time on eTaal portal to create the login details. The signup page is displayed in Figure-38.

Taal Si	ignup	
		State O Ministry O Other
	StateSelect	
	Name	Designation
	Email ID	Contact No
	Captcha Code	993 NK Sign Up
	Note: All fields are mandatory.	

Figure-38

A new user can sign up as **'State'**, **'Ministry'**, or **'Other'**. For example if user selects the 'state' radio button, he/she will need to enter 'State', 'Name', 'Email Id', 'Captcha Code', 'Designation', 'Contact No' and click on 'Signup' Button. Once the user clicks on Signup button, the login details are shared with the user on his email id and phone number.

### III. BI Analysis

The 'BI Analysis' tab is located on the Right menu Bar as shown in Figure 1. There are four kinds of analysis dashboards available to the user:

- 1. Yearly Analysis
- 2. Service Analysis
- 3. MMP Analysis
- 4. State wise Analysis

### IV. Connect your services

The 'Connect Your Services' tab is located on Right menu Bar as shown in Figure-1. This option pops up an information window for a new user. A new user who wants to integrate eServices with eTaal need to sign up in order to create his/her login details. Once the user has his/her login credentials, he/she can login and begin integration of their eServices with the portal.

### V. Contact Us

The 'Contact Us' tab is located on the Right menu Bar as shown in Figure-1, it will show the following details – (Figure-39)



It provides user with helpdesk information incase the user needs to inquire while integrating their eServices.

### 8.2 National e Transaction Count

This section of the eTaal Home page provides integrated, near real-time aggregated view of eTransaction statistics:

- 1. Since beginning of current year
- 2. Since beginning of current month
- 3. Total number of eServices integrated

The counter provides eTransaction count, consolidated on near real-time basis, for all the eServices integrated with eTaal.

The counter also provides the total number of eServices integrated, count of which gets updated every time when a new service is approved and integrated on eTaal. The counter is displayed in Figure-40



Figure-40

### 8.3 eTaal Description

This section of homepage provides description of eTaal as shown in Figure-41

**Qiocl** is a web portal for dissemination of e-Transactions statistics of National and State level e-Governance Projects including Mission Mode Projects. It receives transaction statistics from web based applications periodically on near real time basis. eTaal presents quick analysis of transaction counts in tabular and graphical form to give quick view of transactions done by various e-Governance projects.

Figure-41

### 8.4 Top 10 Mission Mode Projects (MMP)

The homepage of eTaal displays names of **Top 10 Mission Mode Projects (MMP)** on the basis of the monthly transaction count. Figure-42 shows eTransaction count of top 10 Mission Mode Projects since 1<sup>st</sup> Jan 2013 to 31<sup>st</sup> Dec. 2018.



Figure-42

By clicking on "**View More**" Tab, user can view year wise analysis of MMPs integrated with eTaal. This is displayed in Figure-43



Figure-43

### 8.5 eTransaction Growth

The homepage of eTaal displays the "eTransaction Growth" on the basis of the yearly eTransaction count. This is shown in Figure-44



Figure-44

By clicking on **View More** Tab, user can view year wise analysis of eTransaction as illustrated inFigure-45 and Figure-46.

Figure-45

- Shows year/ month wise distribution of eTransaction
- Shows Avg. Transaction Distribution Month/Year Wise





• Shows yearly Time line analysis on the basis of No. of eTransaction and average transaction per day

			03		
Inat	Electronic Transaction Aggregation & Analysis Layer			/ 🔼	
		Year wi	se Analysis		
through most of th	e projects have been integrated	with eTaal, if you find your service is not	here, then please let us know b	oy mailing at etaal@nic.in	
					51
Fime line A	Analysis				
Year	2016	August Transation and day	2017	August Transation and day	2018
	No. of e-Transactions	Average Transaction per day	No. of e-Iransactions	Average Transaction per day	No. of e-fransactions
January	879874465	28,383,047.00	1352608174	43,632,521.00	2797256273
February	736247222	25,387,835.00	1111008432	39,678,872.00	2492848078
March	674329327	21,752,558.00	1278385140	41,238,230.00	2958344320
April	760844236	25,361,474.00	2537534343	84,584,478.00	2686538458
May	1154745972	37,249,870.00	2898524917	93,500,803.00	2999673652
June	1176360651	39,212,021.00	3105141266	103,504,708.00	2265565418
July	830791253	26,799,717.00	3396739322	109,572,236.00	49284045
	746194305	24,070,784.00	3408614866	109,955,318.00	
August					
August September	808409533	26,946,984.00	3619523046	120,650,768.00	
August September October	808409533 1001308893	26,946,984.00 32,300,286.00	3619523046 3068126706	120,650,768.00 98,971,829.00	
August September October November	808409533 1001308893 958297543	26,946,984.00 32,300,286.00 31,943,251.00	3619523046 3068126706 2808257624	120,650,768.00 98,971,829.00 93,608,587.00	

### 8.6 Service Classification

The homepage of eTaal displays eTransaction count since 1<sup>st</sup> Jan 2013 for various Standard Services like Commercial Tax, PDS, Utility Services, Rural Development, Agriculture and other services under "Service Classification (Figures in cr.)". This is shown in Figure-47



Figure-47

By clicking on "**View More**" Tab, user can view "**Service Classification Analysis**" dashboard. The dashboard allows user to see eTransaction count by selecting respective service Category and name from Service Classification filter and Services filter. This is displayed in Figure-48



### 8.7 Top 5 States

The home page of eTaal displays "**Top 5 States**" on basis of the eTransaction count since 1<sup>st</sup> Jan 2013 as shown in Figure-49.



Figure-49

By clicking on "**View More**" Tab, user can view "**State project Analysis**" dashboard as illustrated in Figure-50.1 and figure 50.2.

Figure-50.1 (Service category and classification)

- Select date from 'Duration filter' the User can click on any visual for further filtration.
- Analysis shows Top 10 Standard Services, Top 10 States and distribution of Service Category.



Figure-50.2 (State wise eTransaction distribution)

- Analysis shows Total Transactions
- Top 10 States
- States wise Transaction Distribution



### 8.8 Top 10 Central Projects

The home page of eTaal displays "**Top 10 central Projects**" since 1<sup>st</sup> Jan 2013 on basis of total eTransaction count as shown in Figure-51



Figure-51

By clicking on "**View More**" Tab, user can view "**Central Govt. project Analysis**" dashboard which contains the following- Total eTransactions, Quarter and month wise distribution of eTransaction, Distribution of Central Government projects, Top 10 services, Service classification (Top 10) v/s projects

This is shown in Figure-52. Select year from '**Year filter'.** Then you can click on any visual for further filtration.



Figure-52

### 8.9 State Wise MMP Analysis

The home page of eTaal displays "**States wise MMP Analysis**" on the basis of total eTransaction count since 1<sup>st</sup> Jan 2013 as shown in Figure-53.



Figure-53

By clicking on "**View More**" Tab, user can view "**State wise MMP Analysis**" dashboard. This dashboard allows user to see eTransaction count for the selected duration for various Mission Mode Projects under various States. This is shown in Figure-54



# 9. Service Enrollment

Service Enrollment is reserved for administrator for approving the Project entry, Service entry and Enrollment of web services by owner of the project. This option could be invoked only after login through eTaal Login. The 'Service Enrollment' tab is located on the Left menu Bar as shown in Figure-55.

≣	Qtool Electronic Transaction Aggregation & Analysis Layer	Awards 🛱 I	News	Language 🔻 Switch to eTaal 1.0	AL ATICS	
e- Transactions	eTransaction Statistics Report(Monthly &	Yearly)		Change Password Logout	BI Analysis	
View Report	eGovernance Services	National     eGovernance Services Delivered     eGoverna				
Service Directory	Today: 14,99,8	HI M	Since 1 Jan 20	18:11,30,55,32,921	Contact	
State Portal		É				
Service	Total eGovernance Services Delivered From Central Govt. Since 1st Jan 2018	Recen Servic	tly Added es on eTaal Delhi	Total Number of e-Services Integrated		
Approval	858,82,F8,55,8E	Transport-Pollu Certifi	ution Under Control cate(PUCC)	3,553		

Figure-55

After click on "Service Enrollment" Tab popup will open including -

- Sector/Project Entry
- Service Entry
- Modify Service
- Web Service Enrollment

### 9.1 Sector/Project Entry

Entry of the project is done by the owner of the project. The owner needs to specify the Project name along with the person who has requested for the entry of it. Once all the details of the person along with the Project name are entered, it can be saved by clicking on the Save Button. Complete list of the projects can be viewed by clicking on the 'Show List' Button. Clear Button is used to clear the details already entered in the current screen. The Approve Button is used to approve the list and save it permanently in the database. Screenshot of the project entry page is shown in below Figure-56.

= <b>O</b> t	COOL Electronic Transaction Aggregation & Analysis Layer	Awards 🛱	News	Switch to eTaal 1.0
	E Sector/Project Entry			Logout
ons		🖲 State 🔍 Central Projects 🔍 Others		
	State * -	-Select	Sector/Project Name *	
	Contact Person Name *	Project Admin	Designation *	Admin
	Email ID * [	rojadmin@nic.in	Contact No *	9999888811
	negativna ran opening e	SAVE SHOW LIST	CLEAR	
	incla.gov.in		Addic services closer home	
e				
ıt	eTaal User Manual V1.0	eTaal User Manual V2.0	eTaal Brochure	Android App

Figure-56

### 9.2 Service Entry

Entry of Service is done by the owner of the project. He/she needs to specify the Service name along with the person who has requested for the creation of it. Screenshot of the Service creation page is shown in Figure-57 below

Service Details				Logout
Name *	Project Admin	Designation *	Admin	
Contact No. *	9999888811	Email ID *	projadmin@nic.in	
Sector/Project *	Select	Add New Category *	Select v	
Standard Service Name *	Select	Minor Service Name *	Select v	Add New
Local/Regional Service Name *		Brief Description (Please indicate how this service is meeting all the four benchmarks or 'Across Counter')		
Is Across Counter			Note:Brief description should	be between 100 to 25
Service type	●G2C ●G2B ●B2C		charaters.	
Mission Mode Project				
ransaction Benchmark				
Service is requested through elec	stronic means including mobile de	vices. 🔲 Workflow/appro	oval process is electronic.	
Database is electronic/digitised.		Service delivery	is electronic.	
	I, hereby, declare that	information provided above is correct to the best of my	knowledge.	
		SAVE SHOW LIST CLEAR		

Figure-57

Service creation consists of two sub-sections:

1. 'Service Reported By and Service Details' Section: In this section, a detail of the person who is reporting the service is entered. The name, designation, contact no. and email id is captured.

Also, details of services are entered in following format:

- a. Select Project, Category (A, B, C, D, E, F), Major Service (Standard Service), Minor Service (Sub Standard Service).
- b. Enter local name of service to be added and brief description of the Service.
- c. Check whether the service is across counter or mission mode project.
- 2. 'eTransaction Benchmark' Section: All the benchmark are required to be fulfilled by the eService to participate in eTaal which are as follows:
  - a. Service is requested through electronic means including mobile devices.
  - b. Workflow/approval process is electronic.
  - c. Database is electronic/ digitized.
  - d. Service delivery is electronic.

### 9.3 Modify Service

After the successful creation of service by the owner under the "Service Entry" link as explained above, if required, the owner can modify the service details under the "Modify Service" link of Service Enrollment. The screenshot of the Modify Service screen is shown in Figure-58 below

E Service Details			Logout				
	Service Code	SUBMIT					
Sector/Project • ( Standard Service Name • ( Local/Regional Service Name •	Select	Category *Select					
Brief Description (Please indicate how this service is meeting all the four benchmarks or 'Across Counter') * c Mission Mode Project 🛙	Note:Brief description should contain at least 100 haraters.	Is Across Counter					
e-Transaction Benchmark							
<ul> <li>Service is requested through</li> <li>Database is electronic/digitise</li> </ul>	electronic means including mobile devices. id.	<ul><li>Workflow/approval process is electronic.</li><li>Service delivery is electronic.</li></ul>					
	I, hereby, declare that information provid	led above is correct to the best of my knowledge.					
	UPDATE						

Figure-58

### 9.4 Web Service Enrollment

Web service can be registered by owner of the project. He/she needs to register the Web Service along with the details. This module is smart enough to identify and verify the correctness of the input parameter and output parameter. Web service Enrollment page is shown in Figure-59 below

ster Web Service			
●Add Web Re	ference OAdd Web URL OAdd WCF Reference	● State  ◎ Centra	Projects Others
State*	Select	¥	
Sector/Project Name*		•	Note S
Web Service URL*			Note
Web Service Name*			Please open the port of web service from IP:164.100.128.132
URL of Application*			to your server a
Keywords			
Pulling Frequency *	Select	T	
	INVOKE SERV	ICE	

Figure-59

Data exchange in eTaal is based on web service. This page is used to add new web services/URLs in following steps:

- 1. Select type of web service: Whether it is Web Reference Based or Web URL based.
- 2. Select State and Project Name.
- 3. Enter the complete URL of web service.
- 4. Enter 'Web Service Name' (Name of the class used in web service) and press 'Invoke Service'.
- 5. System will show all the methods available under selected web service.
- 6. Select the desired method name, system will show all the input parameters available under that selected web method. At the same time, it shows Return type of the method.
- 7. It provides Test Area which accepts the value of the input parameter and tests the output of the service using 'Get Data' button.
- 8. Click on 'Save URL' button to save the web service in eTaal application.

Once the entire process as stated above is complete, the service is ready for integration with eTaal. Before integration, the eService is subject to validation and approval by the National Level Project Management Committee (PMC). Similar Committees exist at the level of States and UTs.

# **10.** Approval

### Steps for Service Approval by State Project Management Committee

For the Approval/Rejection/Modification of the Service as enrolled by the User, the State Admin needs to login to eTaal using its login credentials. Once logged in, the State Admin is required to click on the Approval tab in the menu bar as shown in Figure-55.

The State Admin needs to review the service details and accordingly click on Approve/Reject/Modify by clicking on Radio Button as shown in the below Figure 60 - wherein;

- A Approve
- R Reject
- M Modify

SI #	Ministry/ Dept./ State	Standard Service	Service Name	Brief Description	Cate gory	Bench mark	ACS	Applied On	App- roved By	Rejected By	Action	Remarks
1	Assam [eDistrict Assam]	Agriculture & Allied	APPLICATION FOR SOIL FERTILITY REPORT	To know about the fertility of ones land a report can be asked from the competent authority. The final report includes the chemical analysis of the soil along with lime and fertilizer recommendations for the crop specified	A	ŶŶŶŶŶ	Y	21.01.15	HR Admin, Dept. Head	N/A	● ○ ○ A R M	Change the c ▼
2	Assam [eDistrict Assam]	Employment	SURRENDER OF EM PLOYMENT EXCHANGE CARD	when a citizen no longer requires the assistance from Employment Exchange in getting a job they surrender their Employment Exchange cards	A	χχχ	Y	21.01.16	N/A	N/A	A R M	Change the c ▼
3	Gujarat [eGujCop]	Police	Arrest Form	This application captures the Arrest Memo and Chehra Nishan Patrak Details. Details like arrest date/time place of arrest relative details Descriptive Roll etc.	A	N,Y,YY	Y	22.02.16	N/A	N/A	A R M	Select V
4	Gujarat [eGujCop]	Police	Property Search/Siezure Form	This application captures seize property details with Panchanama. Details like property nametype value quantity estimated amount etc. are captured in this application.	A	N,Y,Y,Y	Y	22.02.16	N/A	N/A	A R M	Select V
5	Gujarat [eGujCop]	Police	Final Report/Form	There is two different entry form for Charge Sheet and Final Report. These applications capture charge sheet/final report details - accused sent for trial accused not sent for trial to court details charge sheet type	A	N,YXY	Y	22.02.16	N/A	N/A	A R M	Select V

Figure-60

The State Admin can review the services and accordingly "Accept", "Reject" or "Modify" the service. In case of Approval of service by the State Committee, the State Admin needs to select the radio button "A" and on clicking the "Submit" button; this service is forwarded to National eTaal Committee for approval.

For the approval of Service, the Service needs to be approved by at least two State Committee members.

The State Admin needs to enter Remarks in case if "Reject" or "Modify" is selected, highlighting reason for rejection or modification of the service requested.

The Service needs to be rejected / approved by at least two out of three State committee members while it can be requested for modification by any one member.

# **11.** Technical specification of eTaal

Technical Specifications	Description		
Technology	Microsoft Technologies with WCF, ASP.NET Framework 4.5, C#.Net		
Operating System	Windows Server 2016 R2 Enterprise Edition		
Database	SQL Server 2017 R2		
Analytical Tool	Power Bl		
Browser Supported	Mozilla Firefox 60 or above, Chrome 60 or above, IE 11 or above		
Reporting	HTML Reporting		
Minimum System Specification	Any desktop, laptop, tablet and mobile phones (Android/Windows/iOS, etc.) with internet Access		
Unicode Compliant	Yes		

# 12. Architecture

eTaal is broadly categorized into the following three components:

1. **Dashboard Server Connector (DSC)** - Dashboard Server Connector (DSC) runs as a service on Central Server and acts as watchdog to pull the eTransaction count from various servers located at State and Centre.

2. **Dashboard Client Connector (DCC)** - Dashboard Client Connector (DCC) runs as a service on the Servers which are providing the eTransaction count details.

3. **eTaal Portal** - eTaal Portal is a web portal to give view of dashboard.

Architecture of eTaal as shown in following Figure-61



Figure-61

In the architecture of eTaal drawn above, one DSC and multiple DCCs exists. One DCC is for each application.

# 13. Guidelines

This section provides guidelines for application administrator / developer to create Client Connector and deploy on their servers.

### 13.1 Prerequisites for participation in eTaal

- 1. Server on which the data that needs to be integrated with eTaal resides on the Internet.
- 2. The application whose data needs to be integrated with eTaal may be on any operating environment (Windows/Linux; SQL Server/Oracle/MySQL/PostgreSQL; .Net /Java/PHP etc.)

# 13.2 Steps for creation of Client Connector

Client Connector may be Web Service, WCF service or URL based data sharing application. Client Connector may be written in any language(C#, VB.Net, Java, PHP etc.). Creation of Client Connector will consist of following steps:

- 1. Creation of Web Service or WCF service or URL based data sharing application.
- 2. Creation of 'Stored Procedure' in the database which will give count of eTransaction to web connector.
- 3. Writing of the code to access stored procedure created to get the eTransaction count.



Figure-62

### **13.3 Specifications of Client Connector**

### The specifications of Client Connector are given below:

### Web Method Name: eTransaction Count

Input Parameters: The web method created for the purpose will have following parameters:

S.No.	Parameter Name	Format	Example
1	Transaction Date	DD/MM/YYYY	23/11/2012
2	User Name	String	MeitY
3	Password	String	xYz#\$36F

Response Type: The web method will return either XML or dataset.

### Format of XML:

### Format of dataset:

This will have following set of data: ServiceCode, ServiceCount, Location Code

### **Error Code Returned by Service**

S.No.	Error Code	Error Description
1	-1	Transaction Date parameter is missing
2	-2	Wrong credentials
3	-3	Data is not available on this date

### 13.4 Development and hosting environment

- 1. Client Connector can be created in any of the programming language i.e. Java, C#, VB.Net, PHP etc.
- 2. It can be hosted on any web server i.e. IIS, Apache Tomcat etc.

### 13.5 Post deployment steps

- 1. The port on which the service is running is required to be opened for eTaal Server Connector.
- 2. Share the URL of Web Service with Username and Password to eTaal Administrator.

### 13.6 Data pulling mechanism and assumptions

### Enrollment of web service by user

1. Web service is created by user and hosted on server where project (State/Central) related data resides.

- 2. Port opening request is made to provide communication between servers (i.e. from Project server to eTaal server).
- 3. Enrollment of web service is done from Enrollment page (in Admin Corner) of eTaal.

### eTaal Process of data pulling from a project

- 1. Port opening request is made to provide communication between servers (i.e. from eTaal server to the project server).
- 2. Approval of registration by Project Management Committee (PMC).
- 3. eTaal fetches data on daily basis by invoking web service with current date as parameter and following data is obtained:
  - a. List of services provided by project on given date.
  - b. Transaction count.
  - c. Date of transaction.
  - d. Location Code as per census (if any).
- 4. The Process of invoking web service is done as per schedule determined by the user during Enrollment and data is updated (in case of zero transaction of service, no data is updated) in eTaal.
- 5. For projects having irregular data updating services, web service is invoked by eTaal, it will check for last update (date/time) and pull data from that date.
- 6. Reconciliation of data between eTaal and project server to be combined once a week.

### Assumptions

- 1. The web service could be hosted on live server or on intermediate server, as defined during Enrollment.
- 2. Data updated on the project server is accumulative during the day and is reset to zero at 00:00 hrs.

### 13.7 Sample Codes

### Sample Code in .Net

### Interface

```
[ServiceContract]
public interface IeTaalService
{
    [OperationContract]
    [FaultContract(typeof(InvalidCodeFault))]
    int eTransactionCount(DateTime TransactionDate,String UserName,String Password);
```

### Implementation of Interface

public class eTaalService : IetaalServic

```
{
    #region Call StoreProcedure and Fetch Transaction
    string ConnectionString = System.Configuration.ConfigurationSettings.AppSettings["connectionstring"];
    public DataSet eTransactionCount(DateTime TransactionDate, String UserName, String Password)
    {
        try
        {
            var parms = new SqlParameter[3];
            parms[0] = new SqlParameter("@TransactionDate ", TransactionDate);
            parms[1] = new SqlParameter("@UserName", UserName);
            parms[2] = new SqlParameter("@Password", Password);
            return (SqlHelper.ExecuteDataset(ConnectionString, CommandType.StoredProcedure, "SP_eTransactionCount", parms));
        }
        catch (Exception ex)
        {
            throw new FaultException<InvalidCodeFault>(new InvalidCodeFault(ex.Message), new FaultReason(ex.Message));
        }
    }
}
```

### Sample Code in Java

```
package in.nic.exchange.action;
import in.nic.exchange.db.DBConnection;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import java.util.HashMap;
public class ExchangeWebService {
public ArrayList<HashMap<String, Float>> countRegistrationsActivityWise(Date date) {
                       Connection con = null;
                       PreparedStatement pstmt = null;
ResultSet rs = null;
System.out.println("date = " + date);
String query = "select name, sum(transactions) as total_trns from refactivity ra left join
(select * from dashboard where trndate = ?) db on db.activity=ra.code group by ra.code,ra.name order by
ra.code;";
                       SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
                      String d = formatter.format(date);
                     ArrayList<HashMap<String, Float>> result = new ArrayList<HashMap<String, Float>>();
HashMap<String, Float> map = null;
                      try (
                                 con = DBConnection.getConnection("","");
con = Dsconnection.getconnection(, ', ')
pstmt = con.prepareStatement(query,
ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CONCUR_UPDATABLE);
pstmt.setString(1, d);
rs = pstmt.executeQuery(query);
System.out.println("query = " + query);
ubile(re_nevt());
                                 while(rs.next()) {
                                          map = new HashMap<String, Float>();
map.put(rs.getString("name"), rs.getFloat("total_trns"));
result.add(map);
                     ] catch(SQLException sqle) (
                                 sqle.printStackTrace();
                     } catch(Exception e) {
    e.printStackTrace();
                      ) finally
                                 try (
                                           rs.close();
                                           pstmt.close();
                                            con.close();
                                 } catch (SQLException e) {
                                            // TODO Auto-generated catch block
                                           e.printStackTrace();
                                 ¥.
                          map = new HashMap<String, Float>();
map.put{rs.getString("name"), rs.getFloat("total_trns"));
                                 result.add(map);
          ) catch (SQLException sqle)
                      sqle.printStackTrace();
          ] catch(Exception e)
                      e.printStackTrace();
          ) finally (
                      try (
                                 rs.close();
                                 pstmt.close()/
                                 con.close();
                     } catch (SQLException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
                      1
          3
          return null;
¥.
          public float countRegistrations(Date date) (
                     Connection con = null:
```

```
Statement stmt = null;
                       Statement stmt = null;
ResultSet rs = null;
System.out.println("date = " + date);
String query = "select sum(transactions) as trns from dashboard where trndate='";
SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
                       String d = formatter.format(date);
System.out.println("date = " + date
                                                               + date);
                       try {
                                  con = DBConnection.getConnection("", "");
                                  stmt =
 return rs.getFloat("trns");
} else {
                                             `return 0;
                                  }
                       } catch(SQLException sqle) {
                       sqle.printStackTrace();
} catch(Exception e) {
                      e.printStackTrace();
finally (
                                try (
                                          rs.close();
                                          stmt.close();
con.close();
                                } catch (SQLException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
                                ł
                    F.
                    return 0;
           Ŧ
1
```

# 14. Awards

The "Awards" section on Homepage highlights details of the awards won by eTaal project since its inception. The Award icon and page is displayed in Figure-63

≣	Electronic Transaction Aggregation & Analysis Layer	Awards 🖗 News 📃 🕒 G Selec	t Language V Switch to eTaal 1.0	
	<b>Q</b> Awards			
e- Transactions View				
	(Mini-	crosc Nati Am		Signup
Report	E CONTRACTOR OF			BI Analysis
Service Directory	transa and data are rie verm			?
3	Gems of Digital India Award for eTaal Portal	Microsoft - Data Heroes Award 2017 for eTaal Portal	ICEGOV Best Poster Paper Award 2017 for eTaal Portal	Connect Your Services
State Portal	Image: select		Ευστηματική στηματική στημα Επιστηματική στηματική στημα Επιστηματική στηματική στηματική στηματική στηματική στηματική στηματική στηματική στηματική στηματική στηματική Επιστηματική στηματική στηματική στηματική στηματική στηματική στημα στηματική στηματική στηματική στηματική στη Επιστηματ	Contact Us
	Digital India Knowledge Exchange Award 2016	einibia Awards 2014	SKUCH Platinum Award 2013	
		Figure-63		

# 15. Workshop of eTaal 2.0

- eTaal 2.0 workshop at Vijayawada, Andhra Pradesh on 27.11. 2018.
- eTaal 2.0 workshop at Hyderabad, Telangana on 28.11.2018



eTaal 2.0 workshop at Vijayawada



eTaal 2.0 workshop at Hyderabad

# 16. eTaal Testimonial



### Shri J Satyanarayana IT Advisor to CM & Chairman, UIDAI

eTaal has brought several benefits like measurability leading to better management, visibility, ranking and healthy competition. eTaal has become a trendsetter in establishing similar real-time dashboards. It has the potential to take a great leap by incorporating the quality parameters of the Digital Service Standard. Compliments to the eTaal team for implementing such a useful and sustainable initiative.



### Shri Yashwant A. Goswami Member (Project Management) eCommittee Supreme Court of India

Among first few things I do after coming to office is to visit etaal.nic.in. eTaal is a great platform developed for people who wish to see updated information every day. Analytical information provided on the web site is a step advance.

