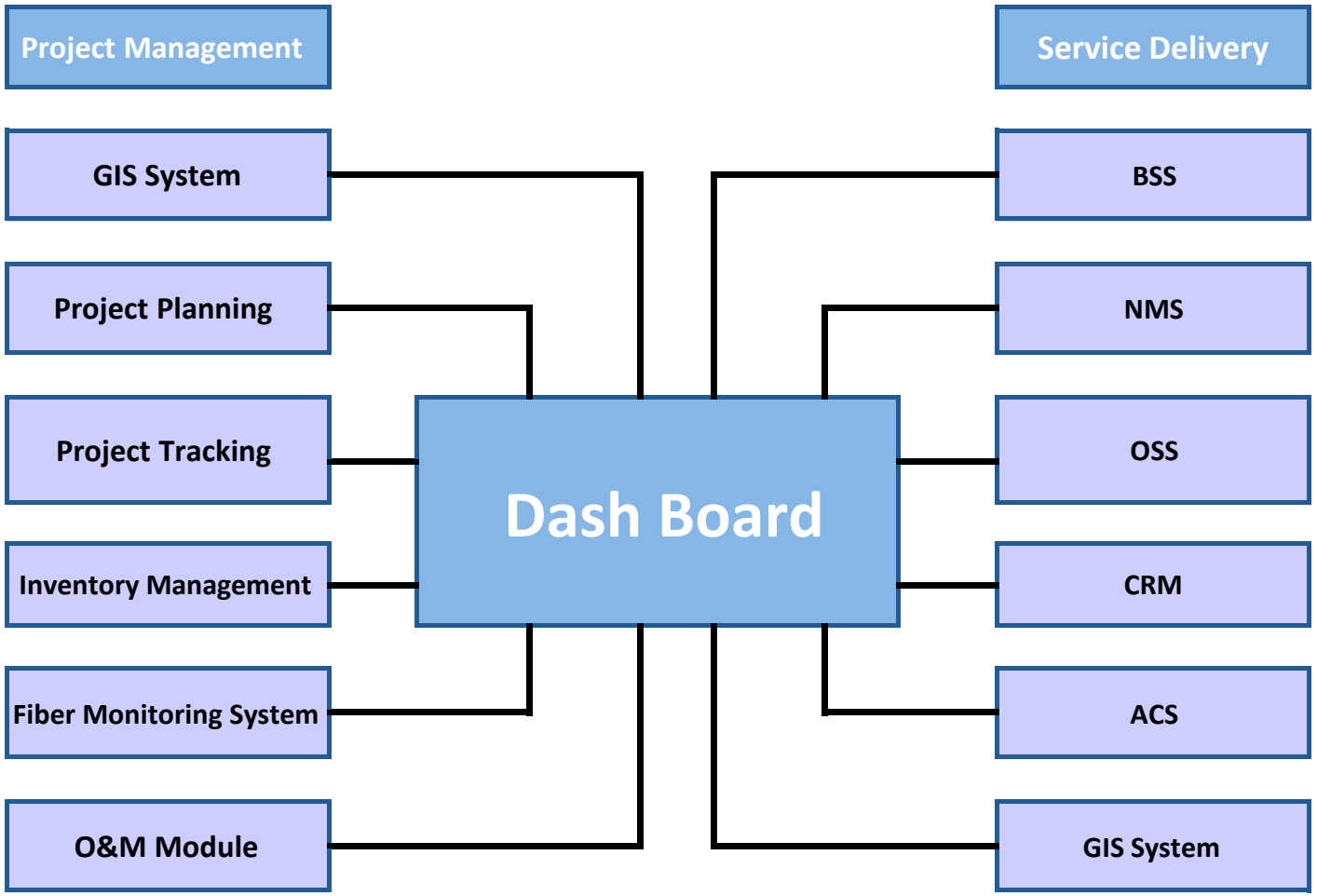
SRIT IPDP

Infra Project Delivery Platform

Solution Brief

SRIT

Integrated Project Management and Service Delivery Platform



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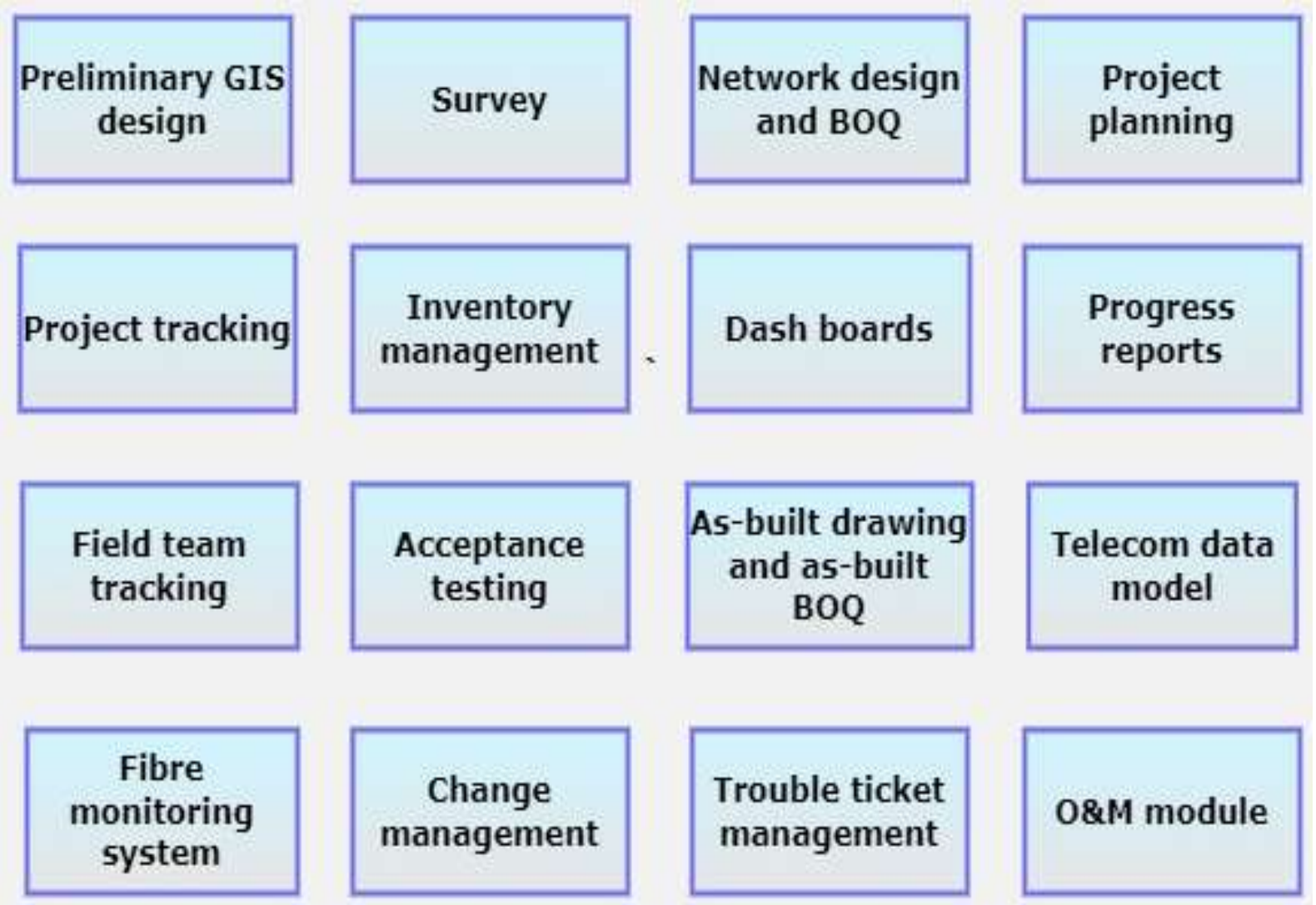
Project Management Modules



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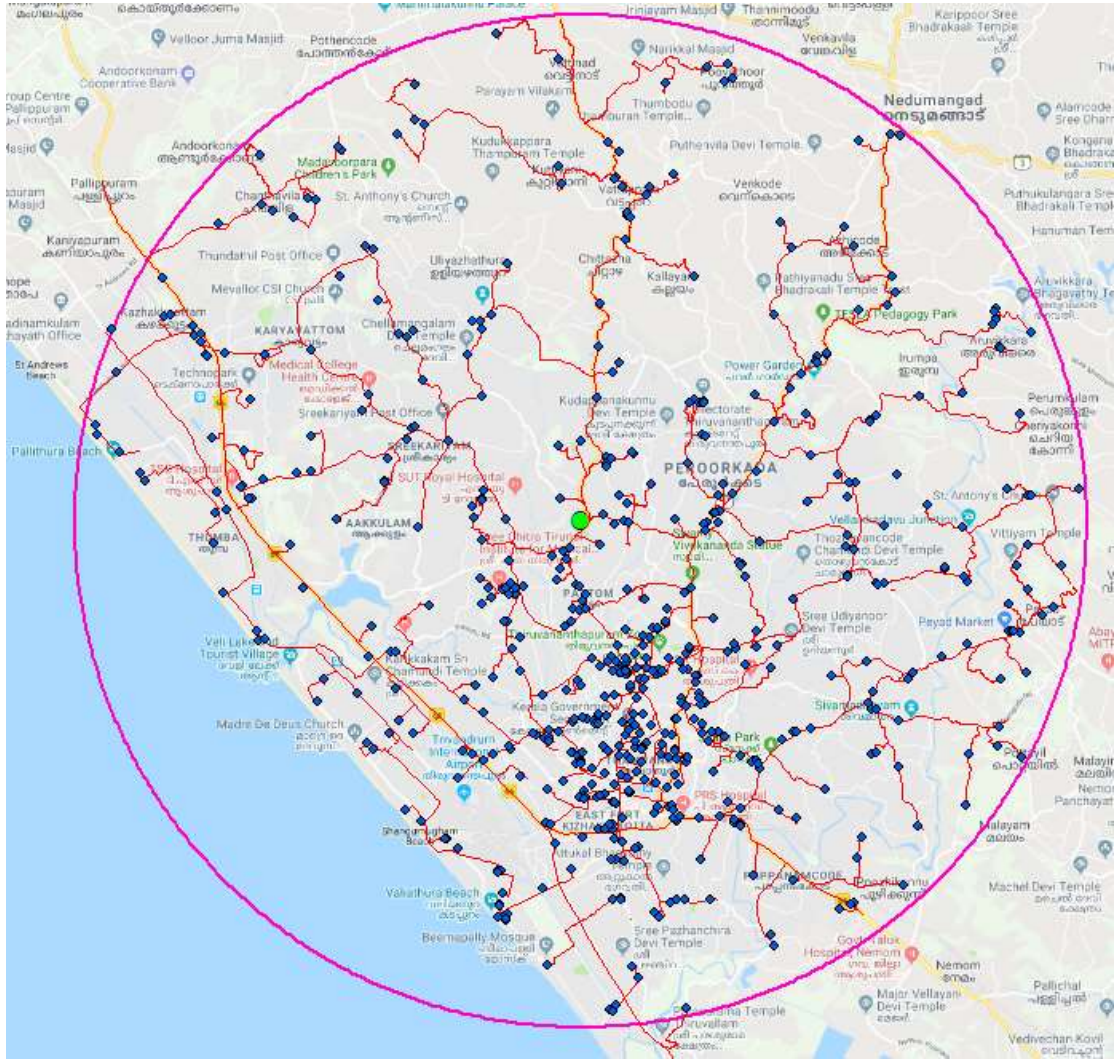
Preparation of Preliminary Design



- The CSV file for Lat/long for POPs & end offices can be uploaded to the system
- With these locations as well as the Road Network data, the preliminary route can be generated

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Route Optimization in GIS

Step I

Primary and secondary data collection

1. End office Location survey

References:

- GPS Survey of end office location
- Google based POI

2. Road network data collection

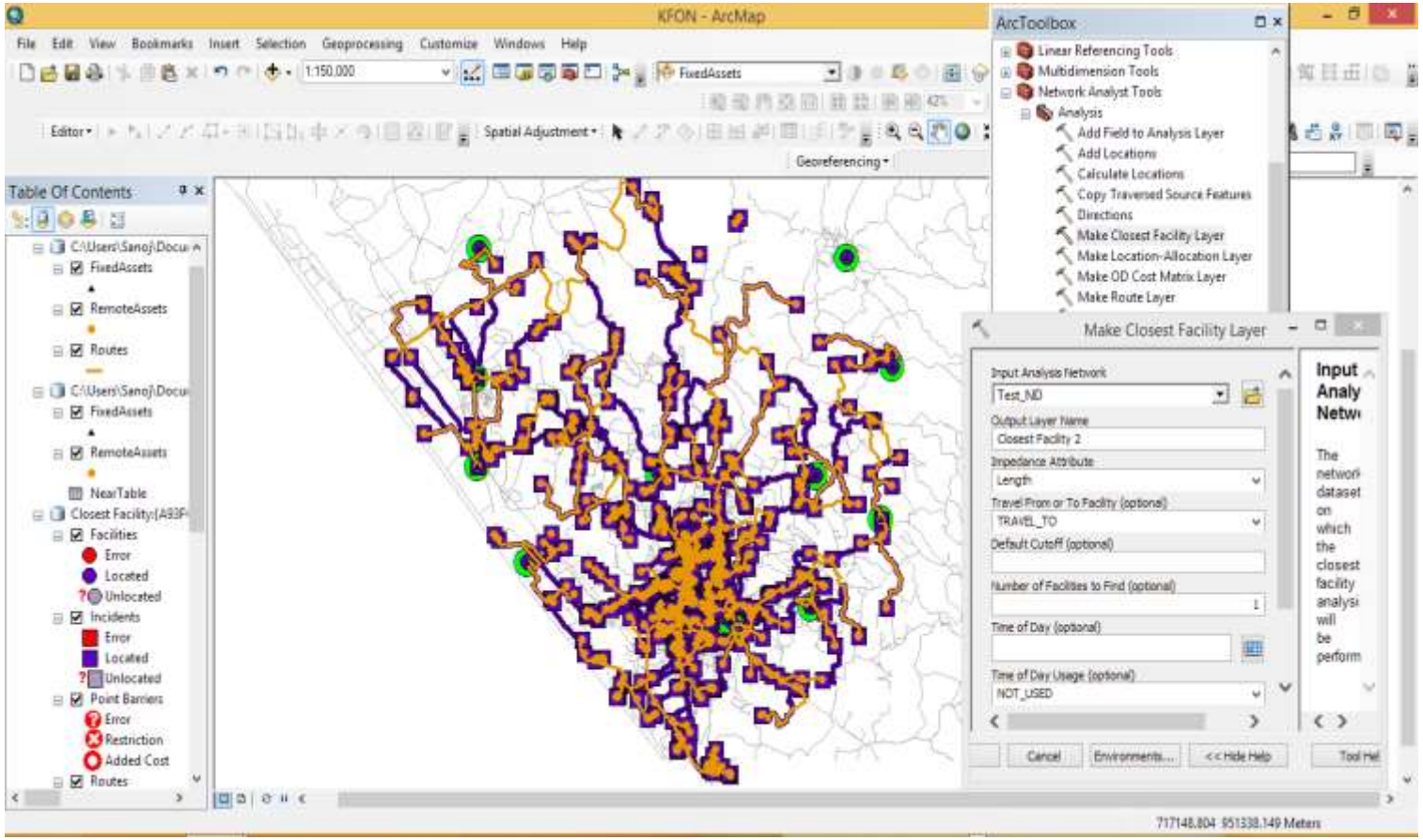
References:

- OSM (Open Series Map) data
- Google based road network

Step II

Survey route optimisation

Methodology – Backhaul Optimisation method



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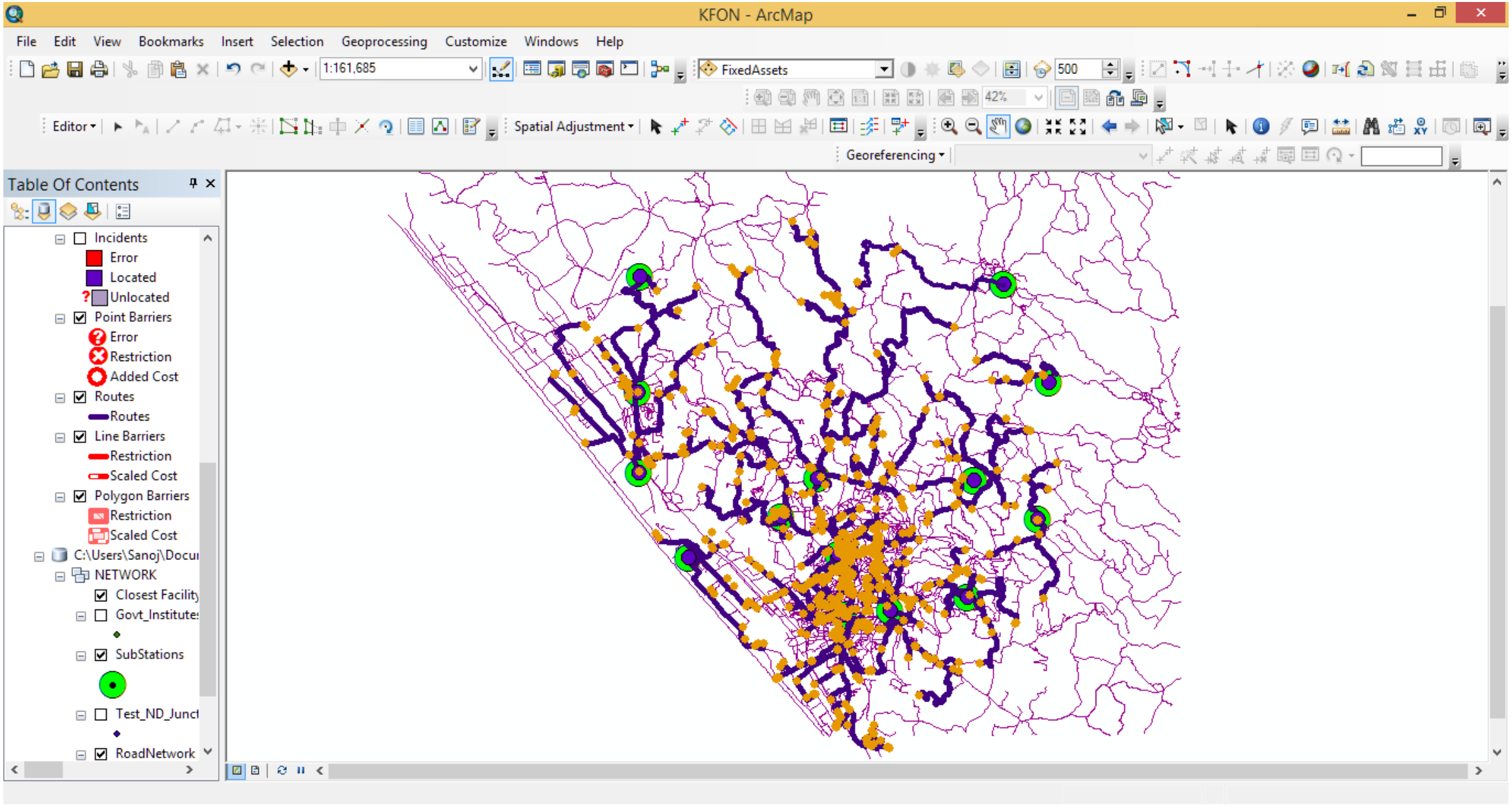
Route Optimization in GIS



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Survey

- GPS Enabled ground survey for capturing the location (latitude/longitude) as well as the attribute details for POP Locations, end offices & the poles on which the fiber is to be laid
- The survey will be done with an in-house developed Mobile Application
- The Mob Application has the Auto Sync capability. So the data captured from the field will be updated on the server
- Once the survey is over, the data will be brought to the GIS platform for further QA/QC

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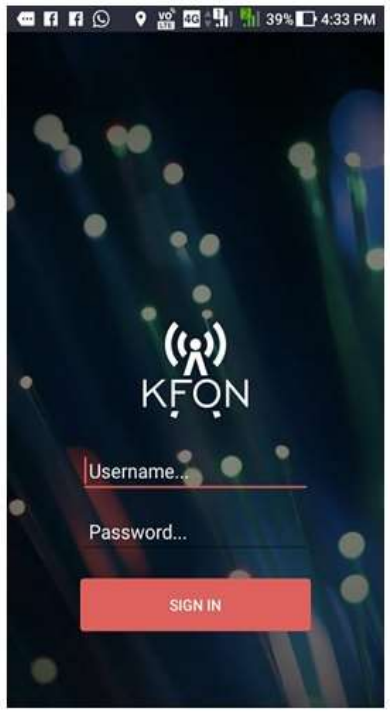
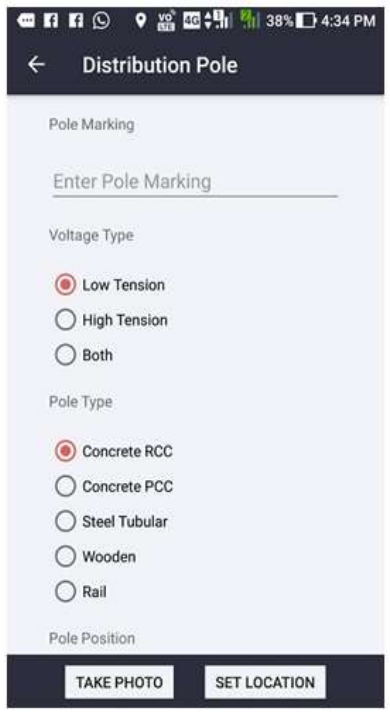
Survey – Mobile Application



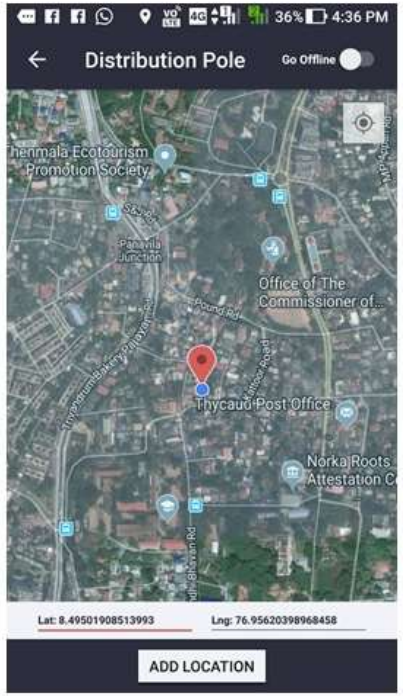
Login Page

Home Screen



Distribution Pole Survey

Take Photo



Capture Location of Interest

Submit-Save

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Survey Data in GIS Platform

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Network Design in GIS

- The network design will be done on the GIS Platform as per the standard GPON Guidelines
- The location data of POP, poles and the end office will be brought to the GIS platform for the network design
- The locations for accessories like street box, splitter, ACSB, tension & suspension clap etc. will be fixed in the network design
- All the designs will be prepared keeping the required signal strength at each OLT
- Once the network design is finalized, the planned BOQ will be derived from the same

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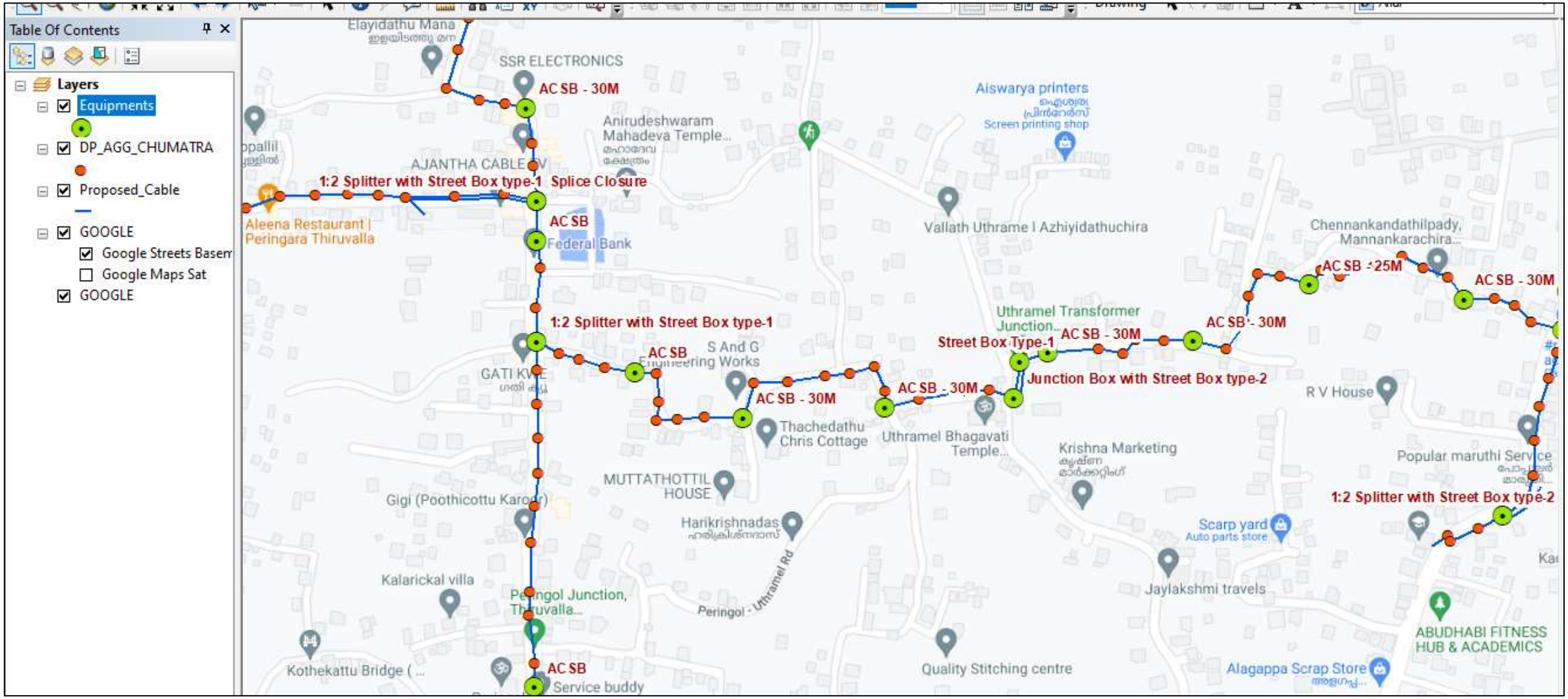
Network Design in GIS



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Planned BoQ

- The planned BOQ will be generated from the network design

- The planned BOQ will have the quantities of fiber and the other network components like Street box, Splitter, ACSB, ONT, OLT etc.

Bill of Quantity			
Sl No.	Item	Unit	Quantity
1	48F ADSS fiber optic cable with 100 Kmph	KM	10.70
3	24F ADSS fiber optic cable	KM	3.20
4	12F ADSS fiber optic cable	KM	26.00
5	PLB HDPE pipe	KM	0.83
6	1:2 Optical Splitter	Nos.	38
7	1:4 Optical splitter	Nos.	10
8	1:8 Optical splitter	Nos.	2
9	Street Box Type I - (Branch Joint Closure)	Nos.	42
10	Street Box Type II - (FTB Type II)	Nos.	16
11	Anchoring / Tensioning clamp assembly for the poles	Nos.	285
12	Suspension clamp assembly	Nos.	660
13	Adjustable Cable Storage Bracket Assembly	Nos.	118
14	Down Lead Clamps Assembly	Nos.	118
16	4F fiber optic drop cable	KM	6.30
17	Anchoring / Tensioning clamp assembly for the poles	Nos.	91
18	Suspension clamp assembly	Nos.	85
19	Anchoring bolt	Nos.	69
20	Cross arm	Nos.	880
21	8 port GPON OLT	Nos.	1
22	GPON ONT	Nos.	69
23	FTB Type I at end office	Nos.	69
24	600 VA UPS with 15 min Battery backup to be supplied along with the enclosure	Nos.	69
25	2x5 way 5 amp PDU	Nos.	69
26	9U Network Rack 19" with provision to mount the ONT	Nos.	69
27	8m support pole insertion	Nos.	3
28	9m to A pole Conversion	Nos.	1

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Project Planning - WBS

Owner Name	MsType	Task Name	Duration	Start	Finish	Predecessors
		KFON Project	1043 days	Thu 18-05-17	Wed 04-11-20	
		Preliminary Works	722 days	Thu 18-05-17	Sat 28-09-19	
		Survey, Design and BoQ Approval	281 days	Tue 12-03-19	Sat 29-02-20	
		NOC	117 days	Wed 01-01-20	Fri 22-05-20	
	CR	Core Ring	397 days	Sat 09-03-19	Thu 16-07-20	
	CR	Material Supply, Inspection, Approval & Payment Release-Pkg A-IT/Non-IT-MS-CR1.1	64 days	Thu 06-02-20	Fri 24-04-20	
	CR	Material Supply-Pkg A-IT/Non-IT-MS-CR1.1	30 days	Thu 06-02-20	Thu 12-03-20	
	CR	Material Supply-Pkg A-IT/Non-IT-MS-CR1.1	31 days	Thu 06-02-20	Thu 12-03-20	40FS+80 days,48FS+95 days
	CR	Material Inspection & Approval-Pkg A-IT/Non-IT-MS-CR1.1	6 days	Fri 13-03-20	Thu 19-03-20	
	CR	Request for Material Inspection Approval to PMU-Pkg A-IT/Non-IT-MS-CR1.1	3 days	Fri 13-03-20	Mon 16-03-20	144
	CR	Approval for Material Inspection by PMU-Pkg A-IT/Non-IT-MS-CR1.1	6 days	Fri 13-03-20	Thu 19-03-20	146FF+3 days
	CR	Release of Payment-Pkg A-IT/Non-IT-MS-CR1.1	28 days	Fri 20-03-20	Fri 24-04-20	
	CR	Submission of Invoice-Pkg A-IT/Non-IT-MS-CR1.1	6 days	Fri 20-03-20	Thu 26-03-20	147
	CR	Acceptance of Invoice-Pkg A-IT/Non-IT-MS-CR1.1	25 days	Fri 27-03-20	Fri 24-04-20	149
	CR	Payment Release-Pkg A-IT/Non-IT-MS-CR1.1	0 days	Fri 24-04-20	Fri 24-04-20	150
	CR	Installation, Testing, Approval & Payment Release-Pkg A-IT/Non-IT-IN-CR1.2	128 days	Thu 13-02-20	Thu 16-07-20	
	CR	Installation-Pkg A-IT/Non-IT-IN-CR1.2	128 days	Thu 13-02-20	Thu 16-07-20	
	CR	CP001TVM-Paruthippara-Pkg A-IT/Non-IT-IN-CR1.2	128 days	Thu 13-02-20	Thu 16-07-20	
DC.TVM	CR	CP001TVM-Paruthippara-Phase I-Installation-IN-CR1.2	24 days	Fri 13-03-20	Thu 30-04-20	144
RLDC.Z1	CR	CP001TVM-Paruthippara-Phase II-Installation-IN-CR1.2	12 days	Sat 02-05-20	Thu 16-07-20	155,66
CTDC.TVM	CR	CP001TVM-Paruthippara-OLT Installation-IN-CR1.2	6 days	Sat 02-05-20	Fri 08-05-20	155,66
CTDC.TVM	CR	CP001TVM-Paruthippara-FO Device Installation-IN-CR1.2	26 days	Thu 12-03-20	Thu 26-03-20	66,144SS+6 days

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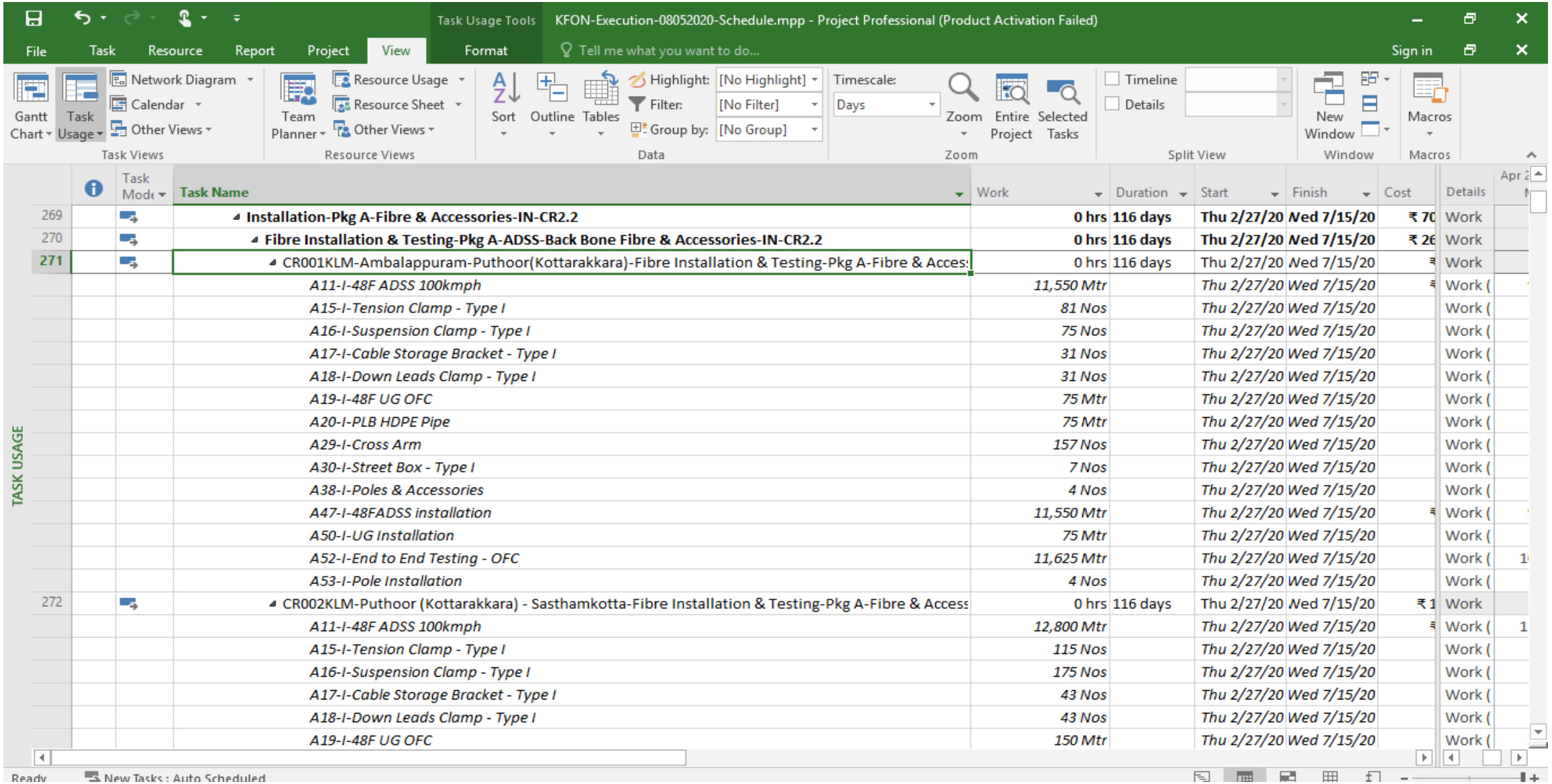
WBS - BOQ & Resource Allocation



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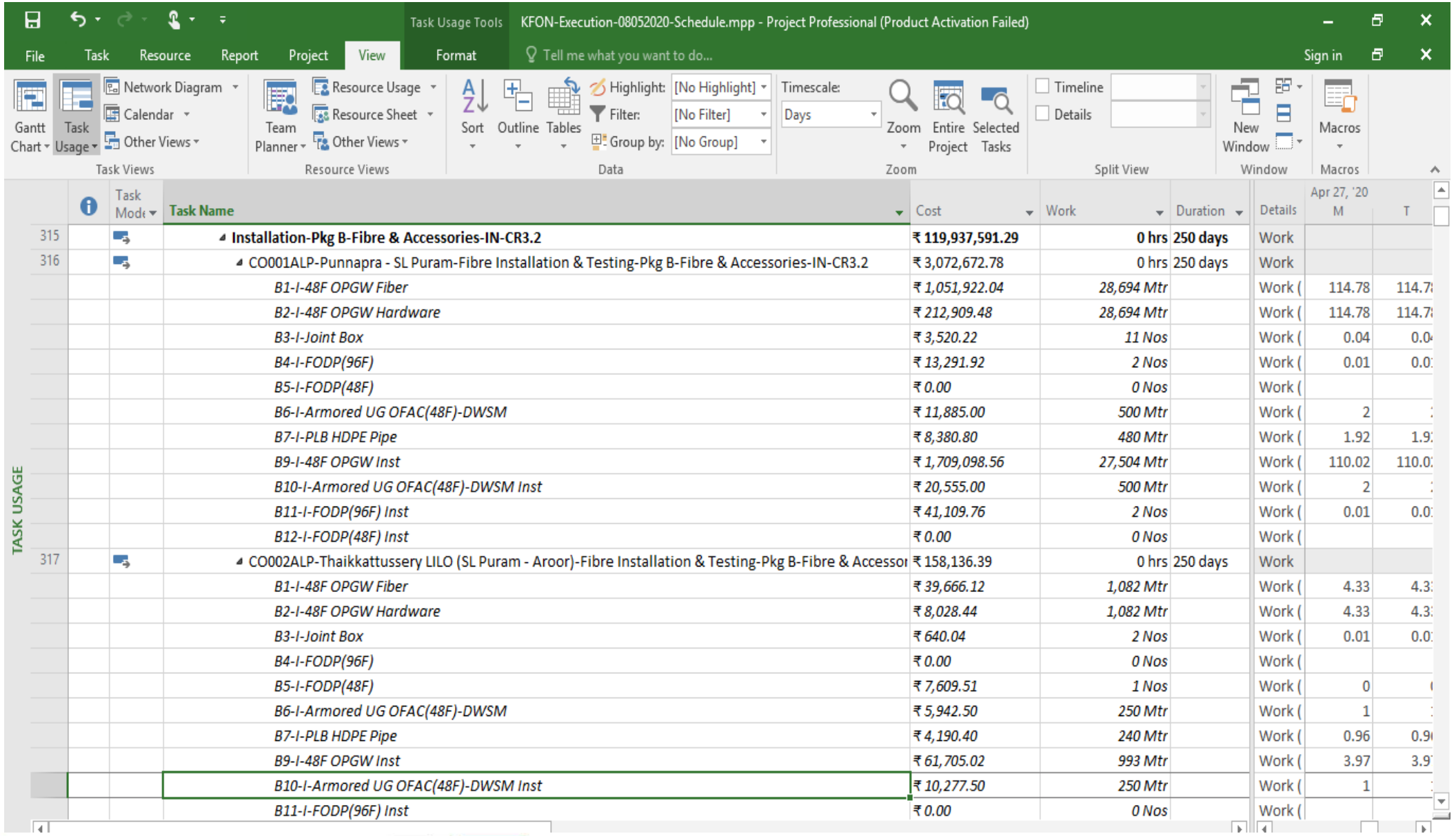
WBS – Cost and Quantity



	Task Mode	Task Name	Cost	Work	Duration	Details	Apr 27, '20 M	T
315		**Installation-Pkg B-Fibre & Accessories-IN-CR3.2**	**₹ 119,937,591.29**	**0 hrs**	**250 days**	Work		
316		CO001ALP-Punnapra - SL Puram-Fibre Installation & Testing-Pkg B-Fibre & Accessories-IN-CR3.2	₹ 3,072,672.78	0 hrs	250 days	Work		
		B1-I-48F OPGW Fiber	*₹ 1,051,922.04*	*28,694 Mtr*		Work (	114.78	114.7
		B2-I-48F OPGW Hardware	*₹ 212,909.48*	*28,694 Mtr*		Work (	114.78	114.7
		B3-I-Joint Box	*₹ 3,520.22*	*11 Nos*		Work (	0.04	0.0
		B4-I-FODP(96F)	*₹ 13,291.92*	*2 Nos*		Work (	0.01	0.0
		B5-I-FODP(48F)	*₹ 0.00*	*0 Nos*		Work (		
		B6-I-Armored UG OFAC(48F)-DWSM	*₹ 11,885.00*	*500 Mtr*		Work (	2	
		B7-I-PLB HDPE Pipe	*₹ 8,380.80*	*480 Mtr*		Work (	1.92	1.9
		B9-I-48F OPGW Inst	*₹ 1,709,098.56*	*27,504 Mtr*		Work (	110.02	110.0
		B10-I-Armored UG OFAC(48F)-DWSM Inst	*₹ 20,555.00*	*500 Mtr*		Work (	2	
		B11-I-FODP(96F) Inst	*₹ 41,109.76*	*2 Nos*		Work (	0.01	0.0
		B12-I-FODP(48F) Inst	*₹ 0.00*	*0 Nos*		Work (		
317		CO002ALP-Thaikkattussery LILO (SL Puram - Aroor)-Fibre Installation & Testing-Pkg B-Fibre & Accesso	₹ 158,136.39	0 hrs	250 days	Work		
		B1-I-48F OPGW Fiber	*₹ 39,666.12*	*1,082 Mtr*		Work (	4.33	4.3
		B2-I-48F OPGW Hardware	*₹ 8,028.44*	*1,082 Mtr*		Work (	4.33	4.3
		B3-I-Joint Box	*₹ 640.04*	*2 Nos*		Work (	0.01	0.0
		B4-I-FODP(96F)	*₹ 0.00*	*0 Nos*		Work (		
		B5-I-FODP(48F)	*₹ 7,609.51*	*1 Nos*		Work (	0	
		B6-I-Armored UG OFAC(48F)-DWSM	*₹ 5,942.50*	*250 Mtr*		Work (	1	
		B7-I-PLB HDPE Pipe	*₹ 4,190.40*	*240 Mtr*		Work (	0.96	0.9
		B9-I-48F OPGW Inst	*₹ 61,705.02*	*993 Mtr*		Work (	3.97	3.9
		B10-I-Armored UG OFAC(48F)-DWSM Inst	*₹ 10,277.50*	*250 Mtr*		Work (	1	
		B11-I-FODP(96F) Inst	*₹ 0.00*	*0 Nos*		Work (		

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Project Tracking

- Once the planned network design and the BOQ are approved by the client, the GIS data for the network design will be published in the GIS server
- The laying team is provided with a mobile application (Construction App), and the network design can be accessed by the laying team using this app
- The construction data updation (As-Built Data) can also be done on the mobile application and it will be synced to the GIS server
- The data updating from the field can be used for tracking the progress of work and for that various dashboards and the provision for report generation are provided

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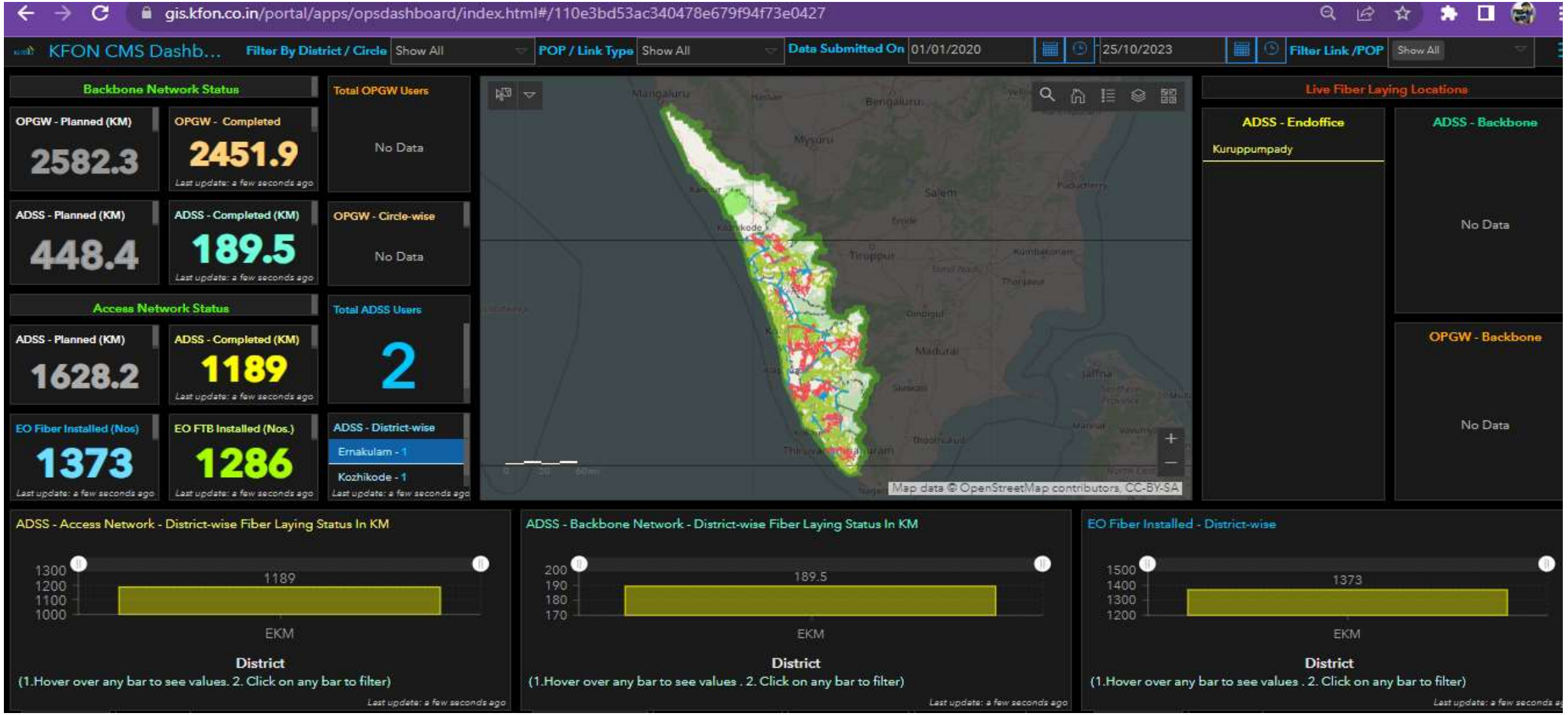
Project Tracking



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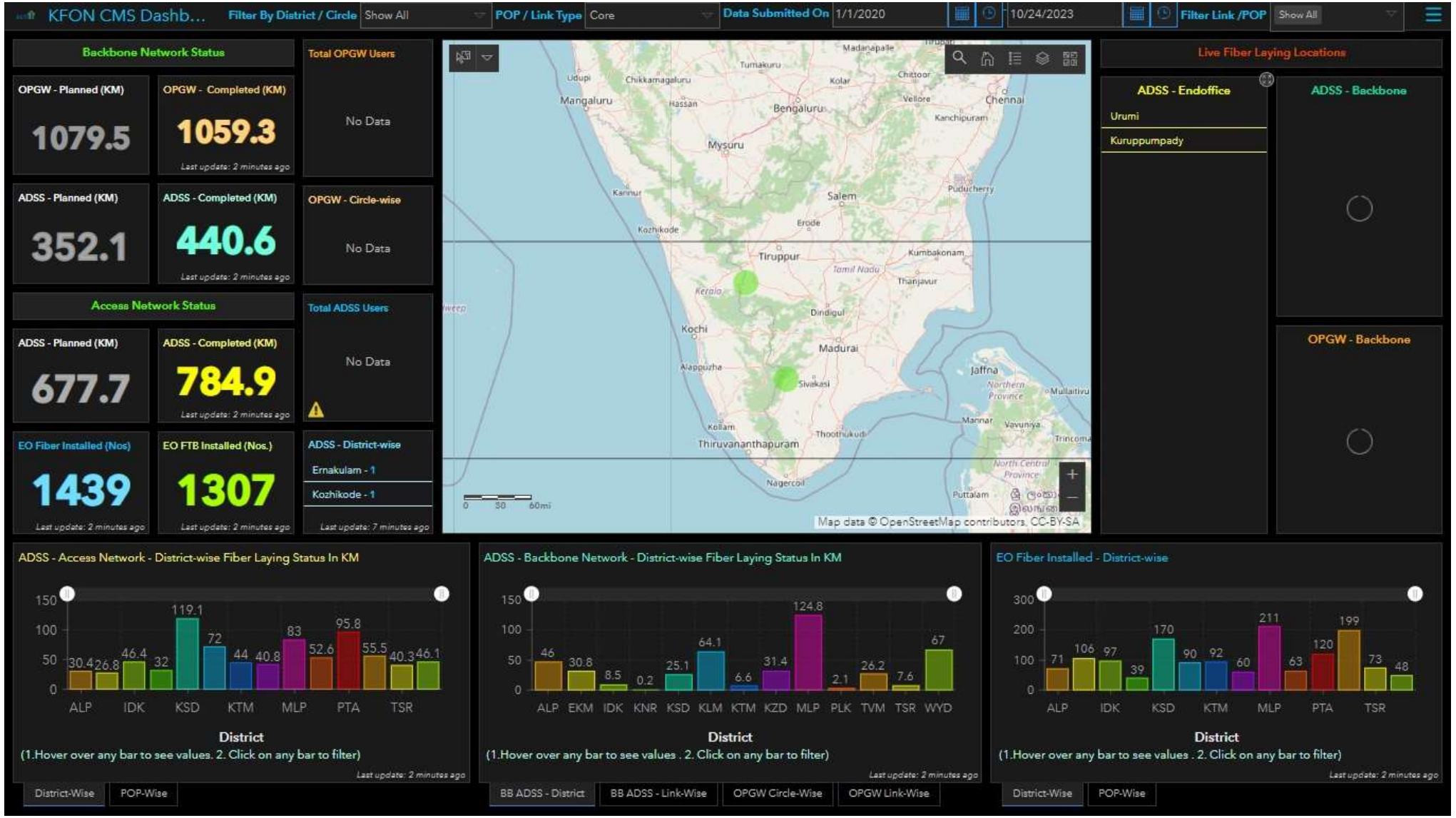

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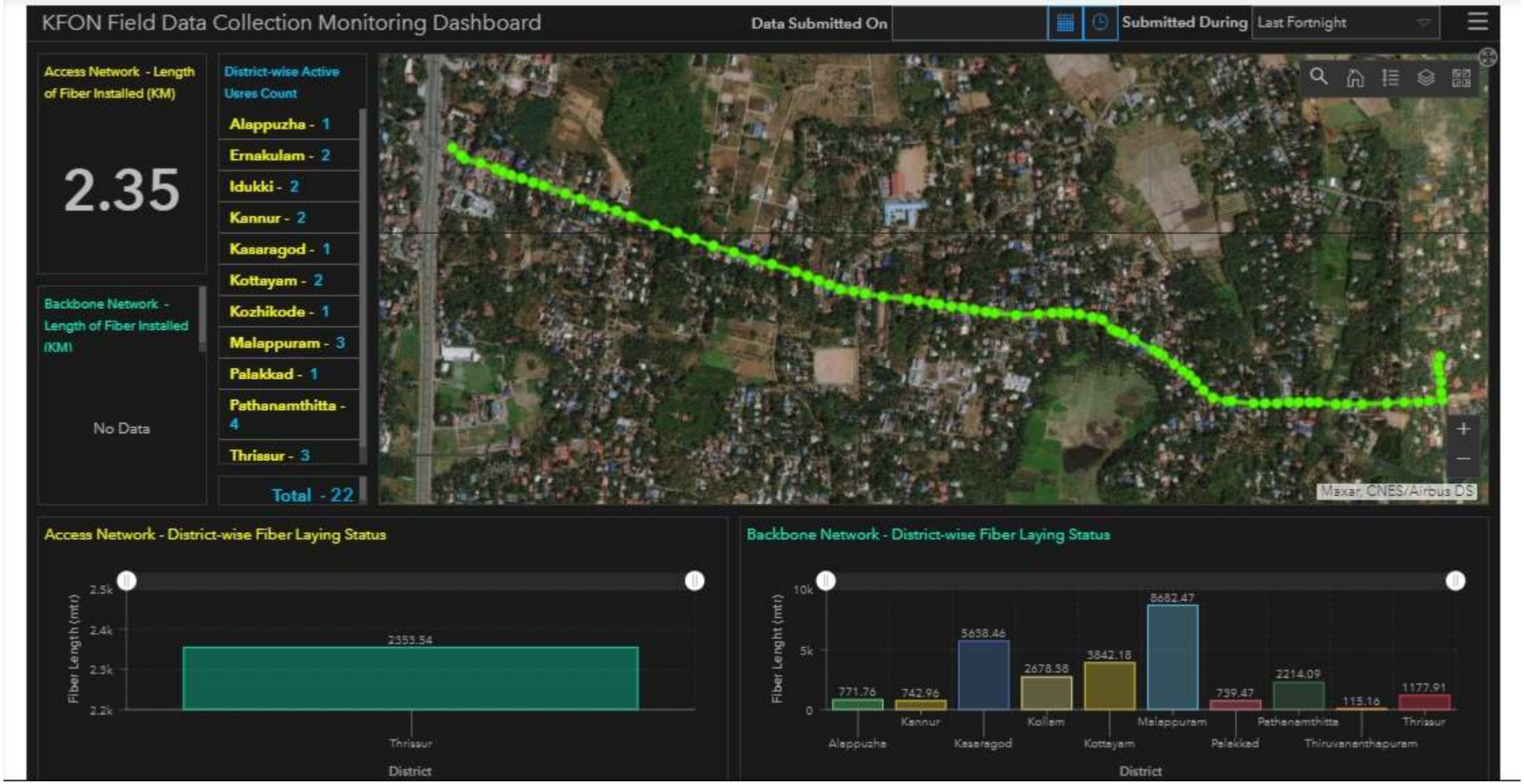

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Construction App

- Multiple level user login
  - Laying Supervisor - Data collection - PoP/Link Level
  - Splicing Team – View unique id's of the devices and underlying splicing information. Update splicing activity status
  - DC/PMA/PMU users – View and verify the network laying status. Insert QA/QC related comments
- Map Centric Data Collection
  - GPON Design map view
- Works Online/Offline
  - Online – With internet/network
  - Offline – Without internet/network
- Map Symbology
  - With different colour code for fiber type, equipment
  - With different style
- ESRI base maps
  - Street map layer
  - Topo Map
- Editing options
  - Attribute editing
  - Feature editing
- Sync capabilities
  - Data Pushing to Server

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Data Collection

- Can view the surveyed data with the poles & end office details
- Can view the GPON design map and equipment locations with label on the mobile (optical splitter, street box, junction box, adjustable cable storage bracket assembly, pole details and type of fiber)
- The laying Team can fix the mechanical items as per the Standard Operating Procedure for Aerial Cabling (cross arm, suspension & tension assembly). No spatial marking in the design map
- The Laying Team can identify the details of each item by clicking the Identification tool
- Any variation from the planned design during the field implementation can be updated.
- The Splicing Team can identify the splicing location with the splice plan
- PMA/PMU/DC can update the comments or remarks based on user credentials. They can be permitted to edit only the comment box. Geo-coded photos can be taken

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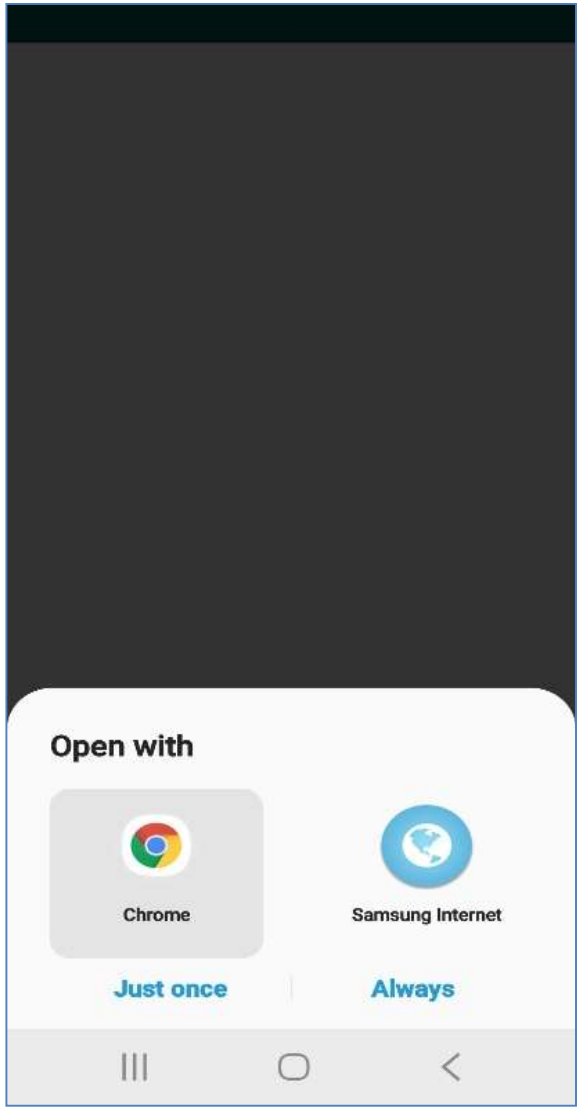
Data Collection



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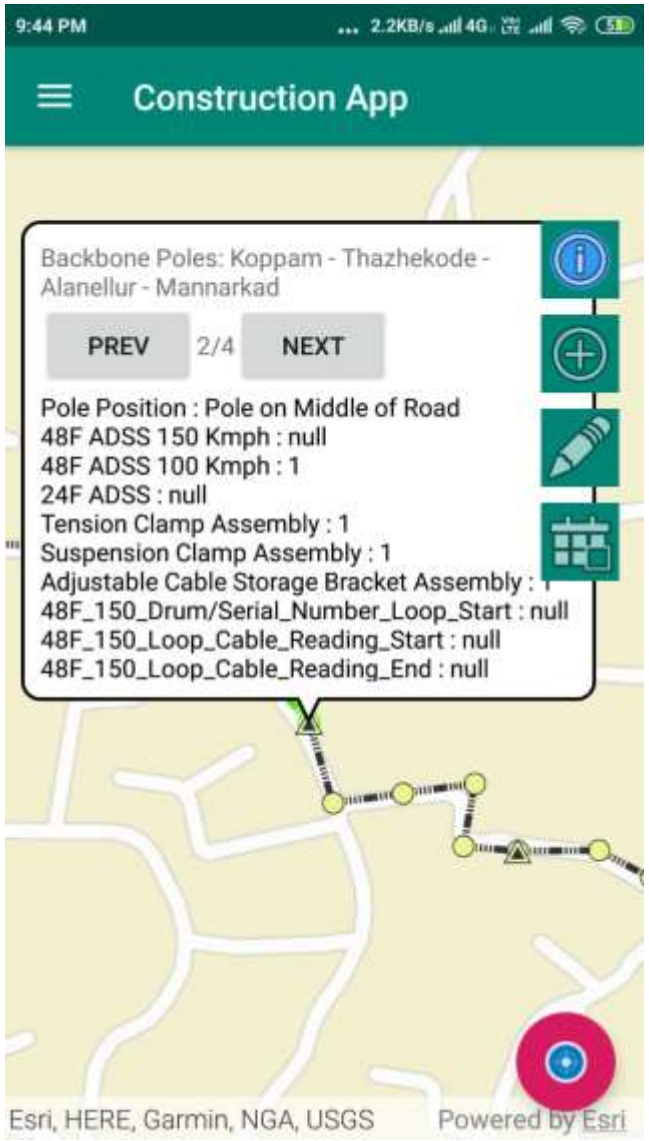

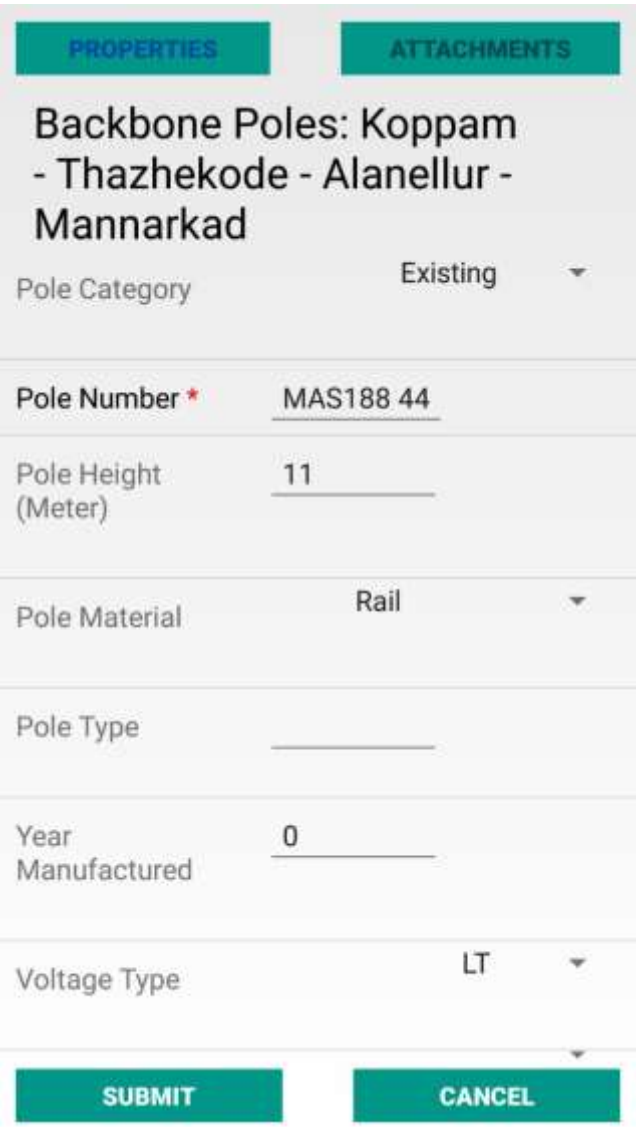

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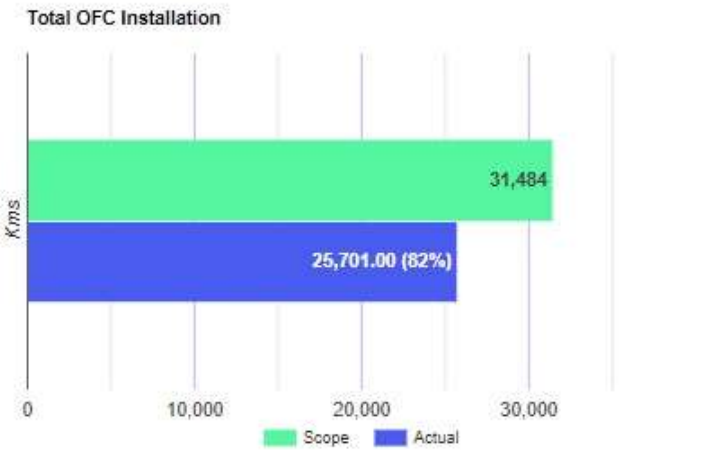
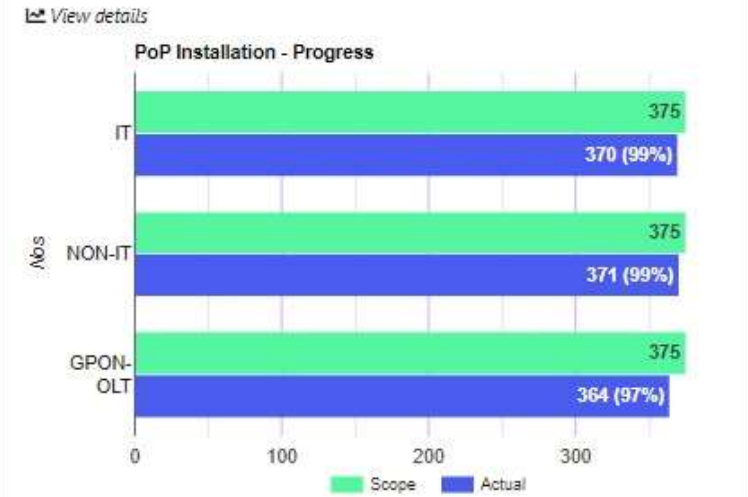
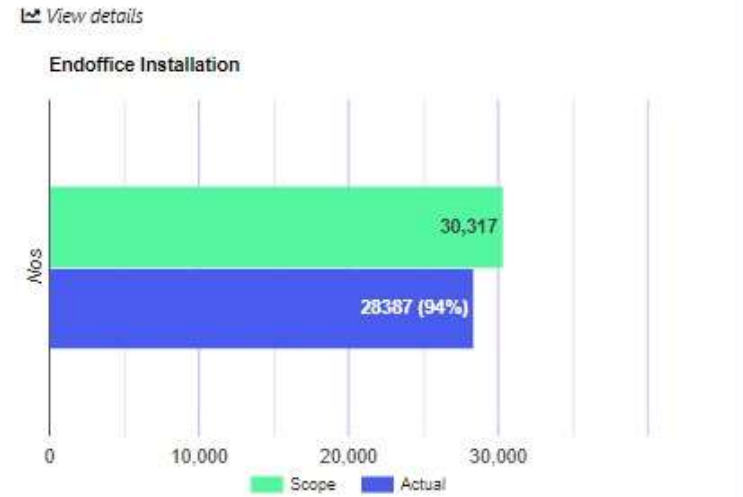
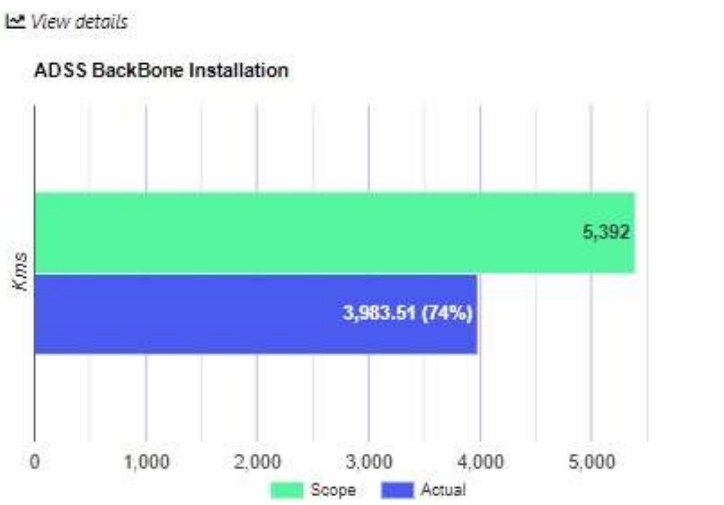
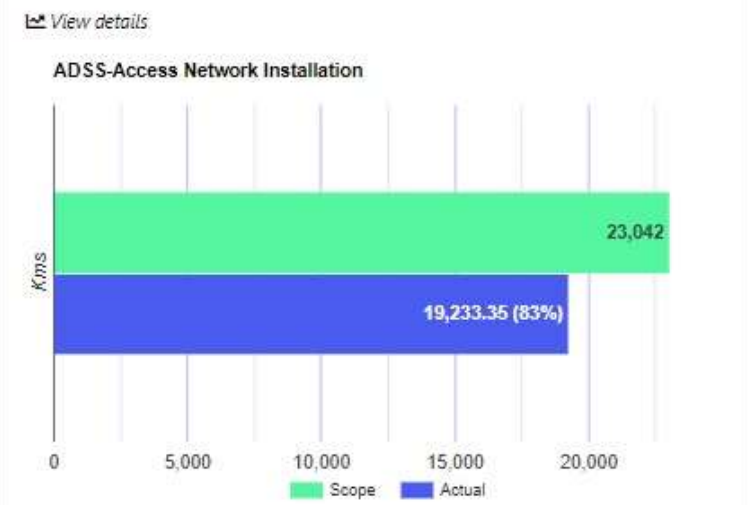
Work Progress Report

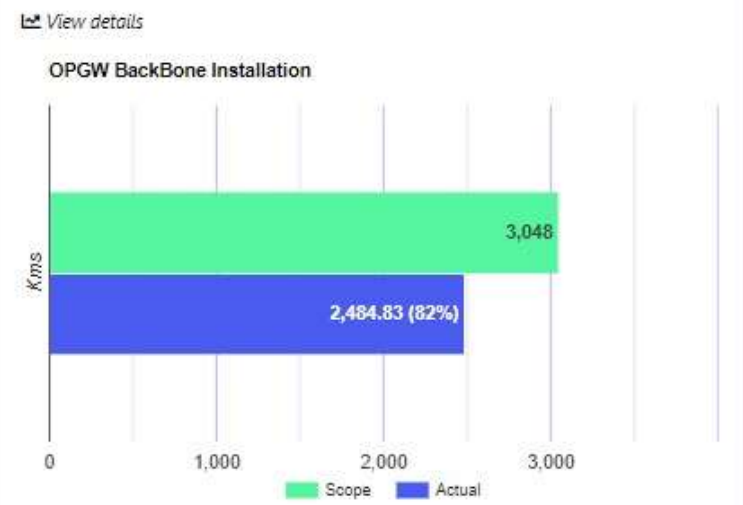












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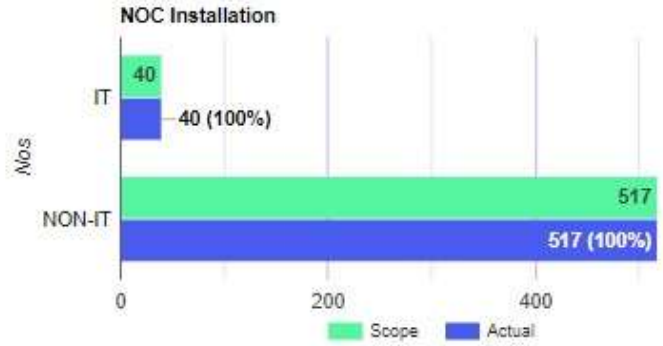
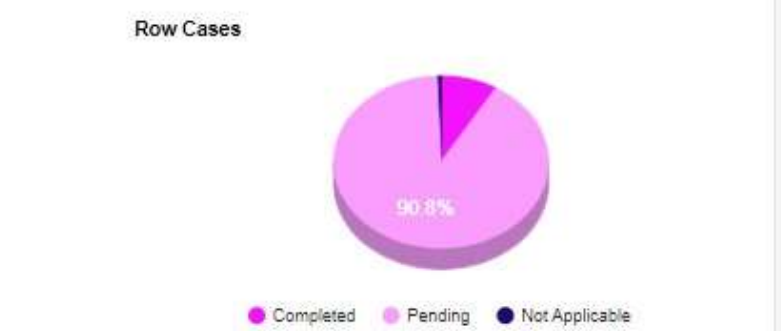
Work Progress Report

View details



View details



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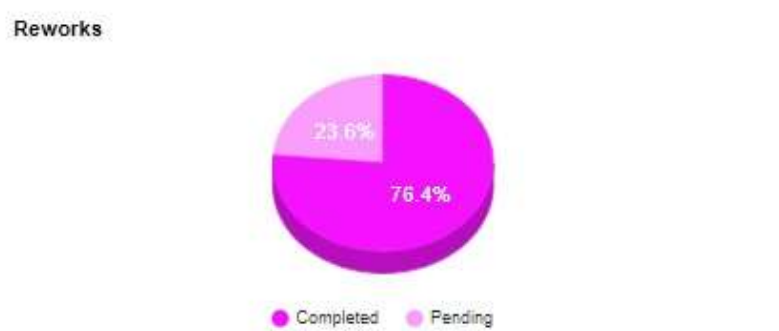
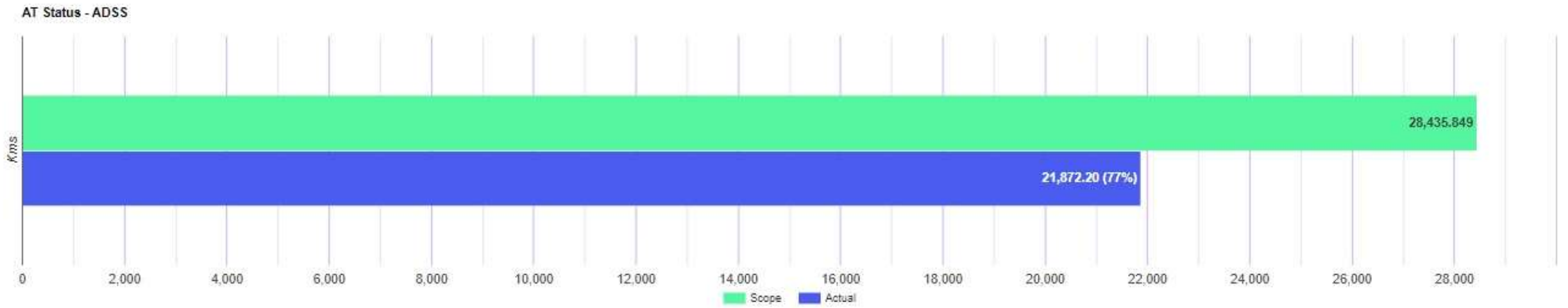


View details



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Work Progress Report

KERALA FIBRE OPTIC NETWORK (KFON)																		
Daily Progress Report of Link / Pop			Koppam-Pulamanthole					23-2-2023 18:57:58					No.Of Use	1				
Sl.No	OFC laying dat	Approved Date	User Name	Pole No	Cross Arm	Suspensic	Suspension Clamp II	Tesnsion assembly	Tesnsion Clamp II	Storage Bracket	Storage Bracket II	Downlea d clamps	StreetBox 1	StreetBox 2	Splitter (1	Splitt		
1	4/4/2022	21-5-2022	adssmlp026															
2	4/4/2022	21-5-2022	adssmlp026															
3	4/4/2022	21-5-2022	adssmlp026															
4	4/4/2022	21-5-2022	adssmlp026															
5		21-5-2022	adssmlp026	2				1										
6		21-5-2022	adssmlp026					1										
7		21-5-2022	adssmlp026					1										
8		21-5-2022	adssmlp026	1				1										
9		21-5-2022	adssmlp026	6				1										
10		21-5-2022	adssmlp026					1										
11		21-5-2022	adssmlp026	4				1										
				7	0	0	0	7	0	0	0	0	0	0	0			

As-Built Summary Data From 4-1-2022 To NaN-NaN-NaN																														
Sl No	Date	Link/POP Name	Total No.of Users	48F150 Consumed	48F150 Loop Length	48F150 Consumed Witho	48F100 Consumed	48F100 Loop Length	48F100 Consumed Witho	24F Consumed	F24 Loop Length	F24 Consumed Without	12F Consumed	F12 Loop Length	F12 Consumed Without	4F Consumed	F4 Loop Length	F4 Consumed Without	No of Poles	Cross Arms(Nos)	Poles &Accessories	Anchoring &Bolt	UPB	Suspension Clamp	Suspension Clamp II	Tension Clamp	Tension Clamp II	Storage Bracket	Storage Bracket II	Downlead Clamp	STB Type 1
1	4/4/2022	Koppam-Pulamanthole	1	0	0	0	336	66	270	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7	0	0	0	0	0
2	11/4/2022	Koppam-Pulamanthole	1	0	0	0	1692	120	1572	0	0	0	0	0	0	0	0	0	27	0	0	0	0	7	0	20	0	2	0	2	0
3	27-4-2022	Koppam-Pulamanthole	1	0	0	0	1135	110	1025	0	0	0	0	0	0	0	0	0	18	14	0	0	0	8	0	10	0	4	0	4	1
4	28-4-2022	Koppam-Pulamanthole	1	0	0	0	883	110	773	0	0	0	0	0	0	0	0	0	27	0	0	0	0	4	0	23	0	3	0	3	1
5	6/5/2022	Koppam-Pulamanthole	1	0	0	0	1375	130	1245	0	0	0	0	0	0	0	0	0	36	0	0	0	0	8	0	28	0	3	0	3	0
		TOTAL	5	0	0	0	5421	536	4885	0	0	0	0	0	0	0	0	0	115	14	0	0	0	27	0	88	0	12	0	12	2

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Work Progress Report

Installation Of SubTasks Daily Progress Report For 01/10/2020 - 23/10/2020

Filter | Excel

Show entries 10 Search:

Previous 1 2 3 4 5 ... 84 Next

District	Link/TaskName	SubTaskName	MileStone Category	MileStone Type	Estd Qty	Comp Qty	UOM	% Cc
Alappuzha	AE030ALP-Chumatra-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	12F ADSS fiber optic cable	AR	ADSS-EO	13400.00	1633	Mtr	
Alappuzha	AR386ALP-Karuvatta-Thakazhy-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	48F ADSS fiber optic cable with 150 Kmph	AR	ADSS-BB	6690.00	786	Mtr	
Alappuzha	AE036ALP-Thiruvalla-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	24F ADSS fiber optic cable	AR	ADSS-EO	19900.00	1361	Mtr	
Alappuzha	AE036ALP-Thiruvalla-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	Down Lead Clamps Assembly-Type I	AR	ADSS-EO	346.00	4	Nos	
Alappuzha	AE031ALP-Edathua-Fibre Installation &	Anchoring / Tensioning clamp assembly for	AR	ADSS-EO	1285.00	114	Nos	

Showing 1 to 10 of 839 entries

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Drill Down Dashboards

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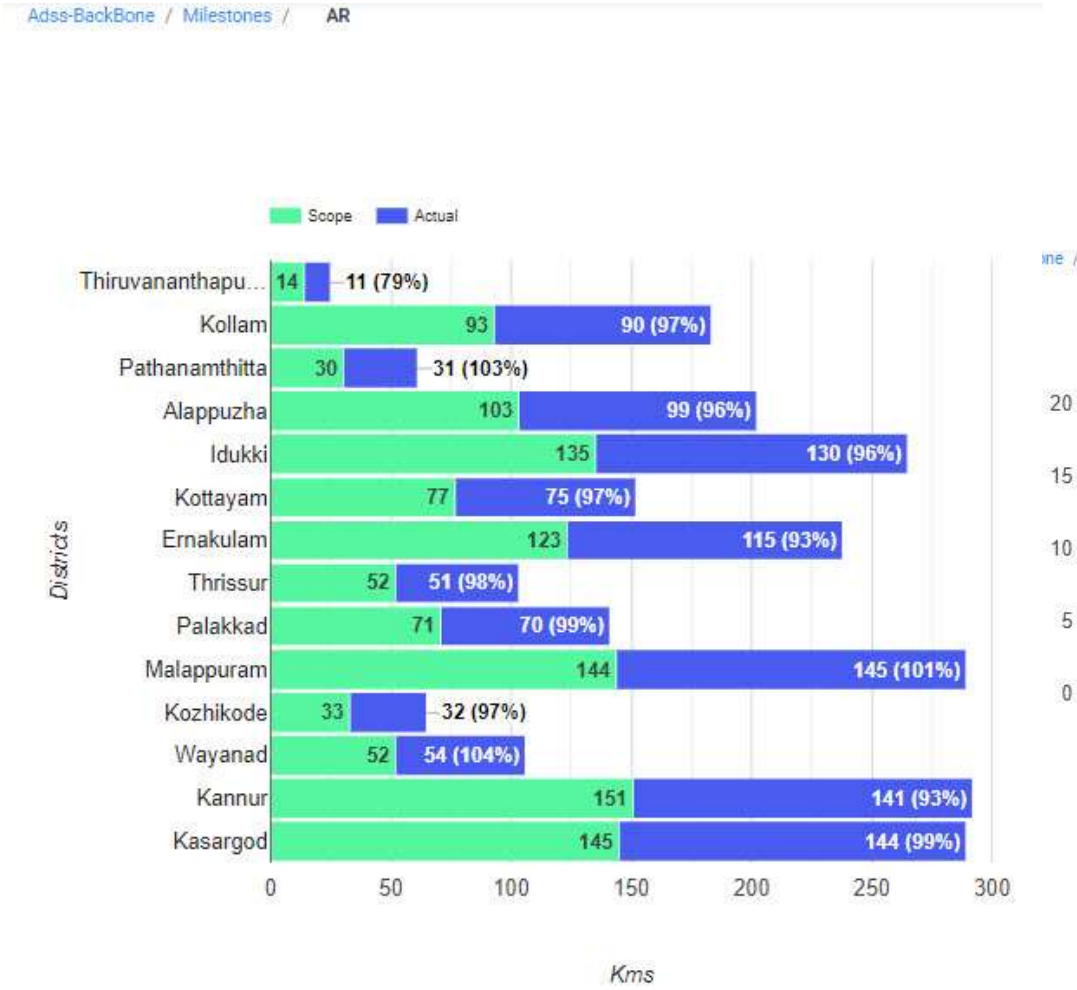
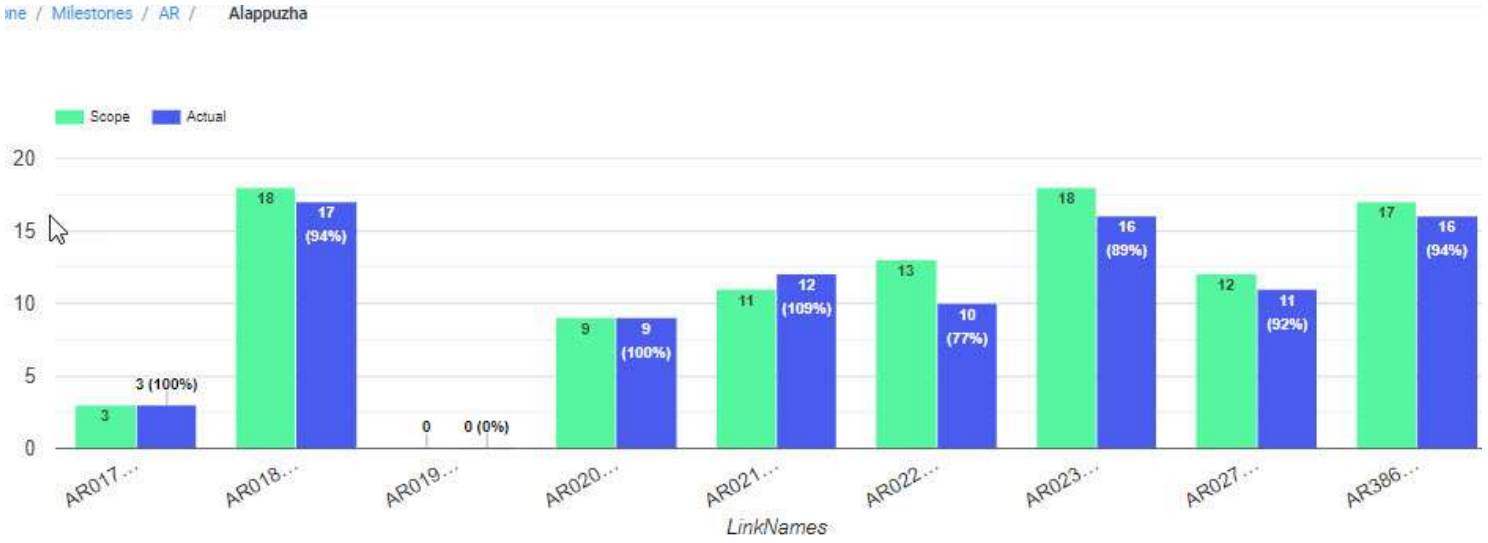
Drill Down Dashboards





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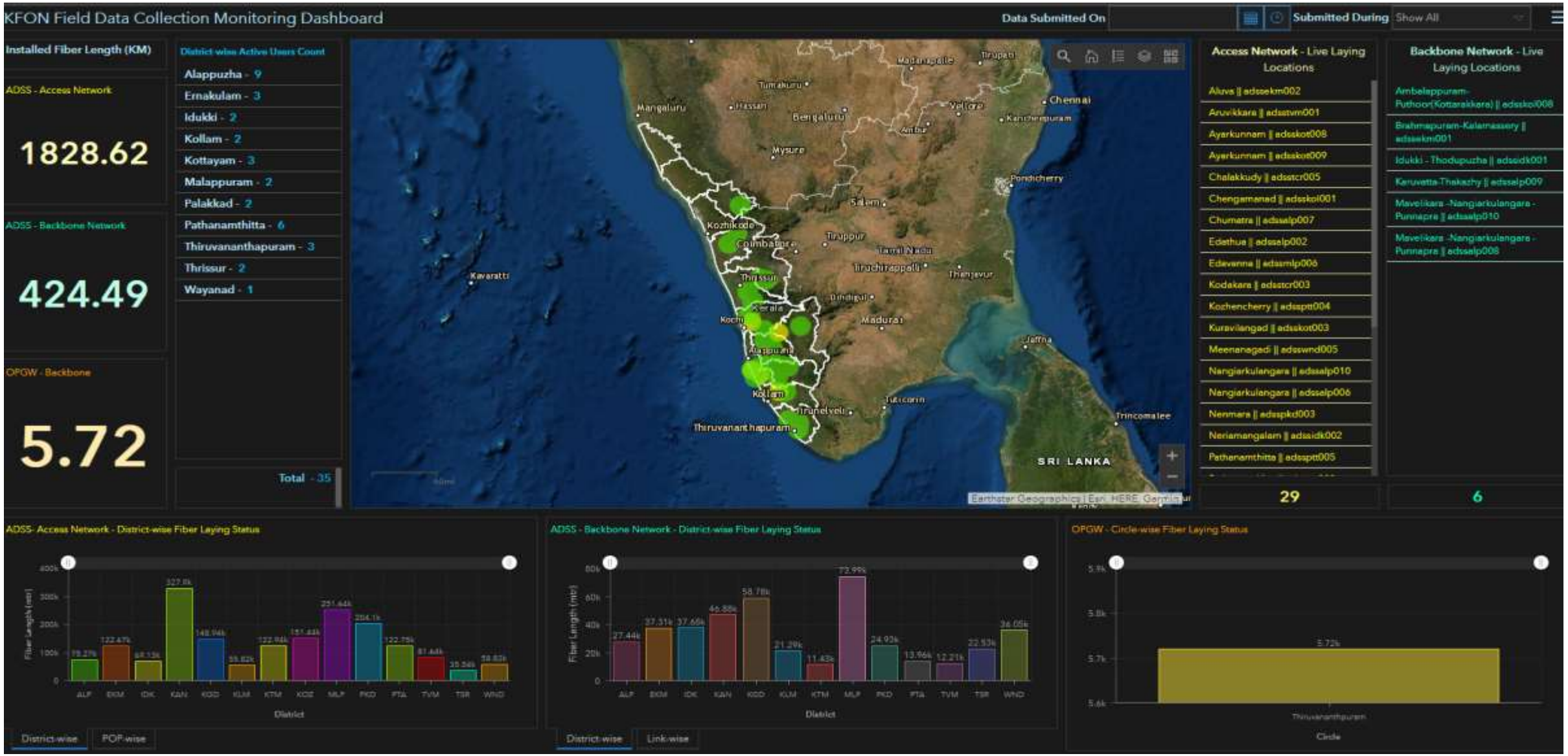
Drill Down Dashboards



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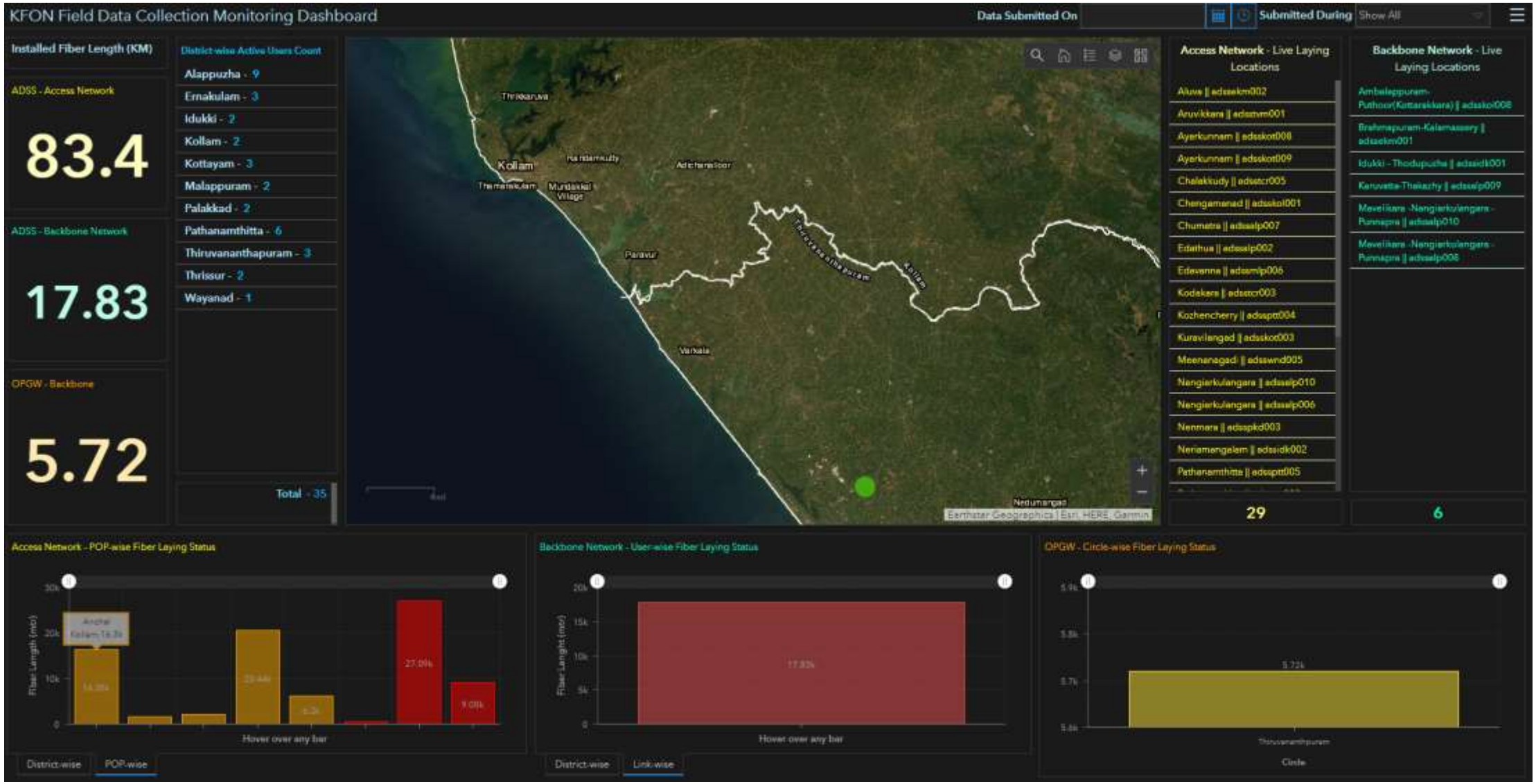
Drill Down Dashboards



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Drill Down Dashboards

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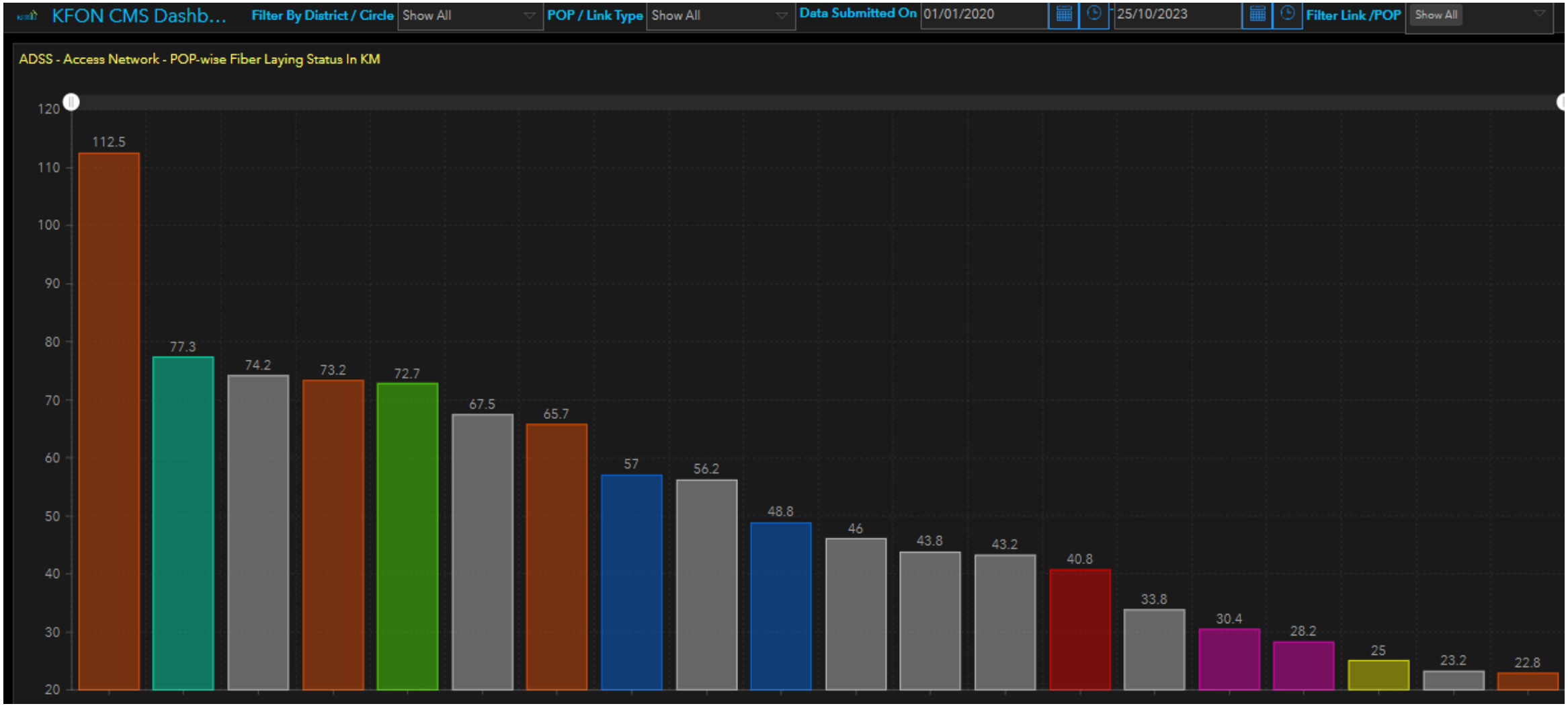
Drill Down Dashboards



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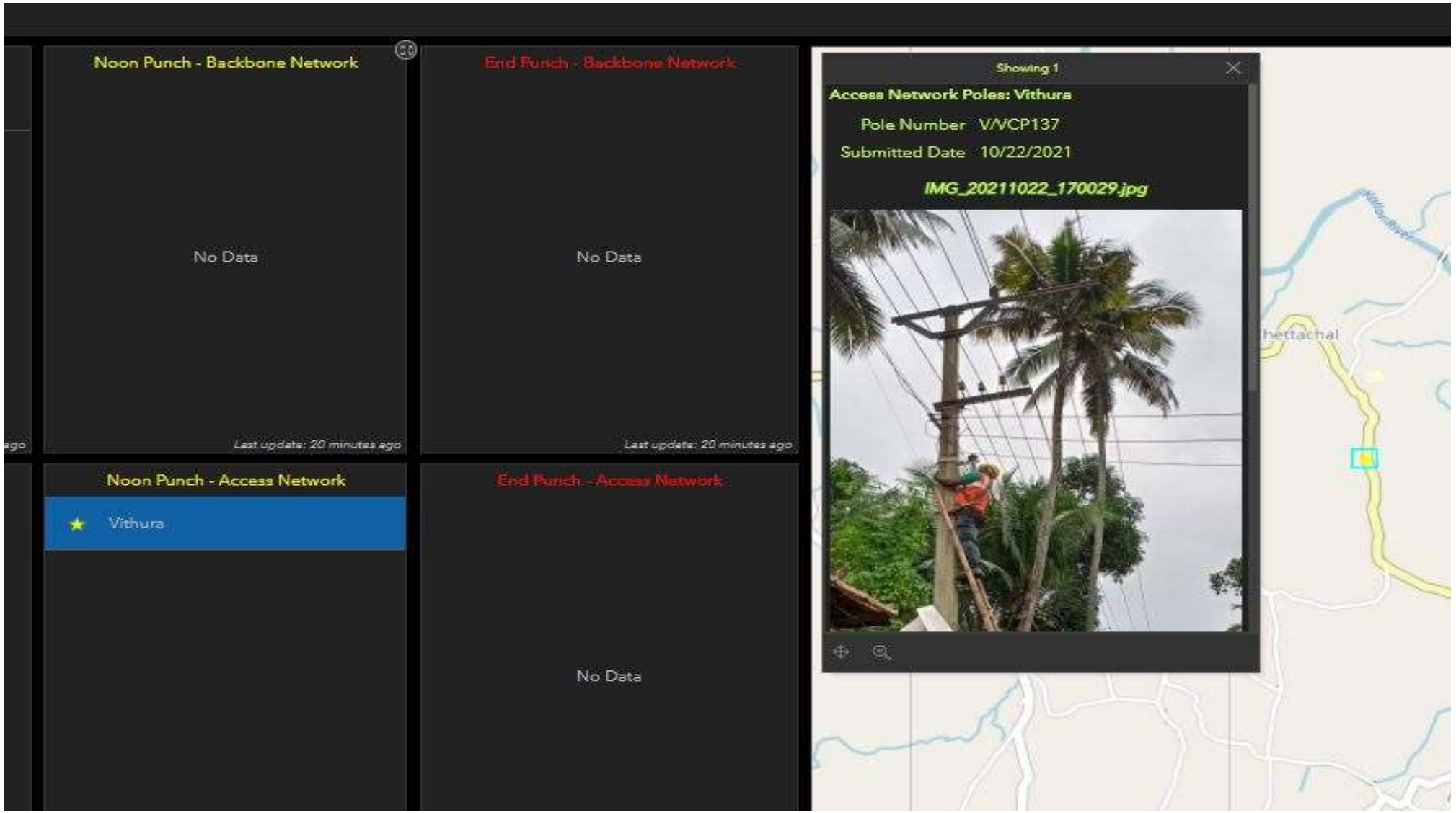
Online Team Deployment Report



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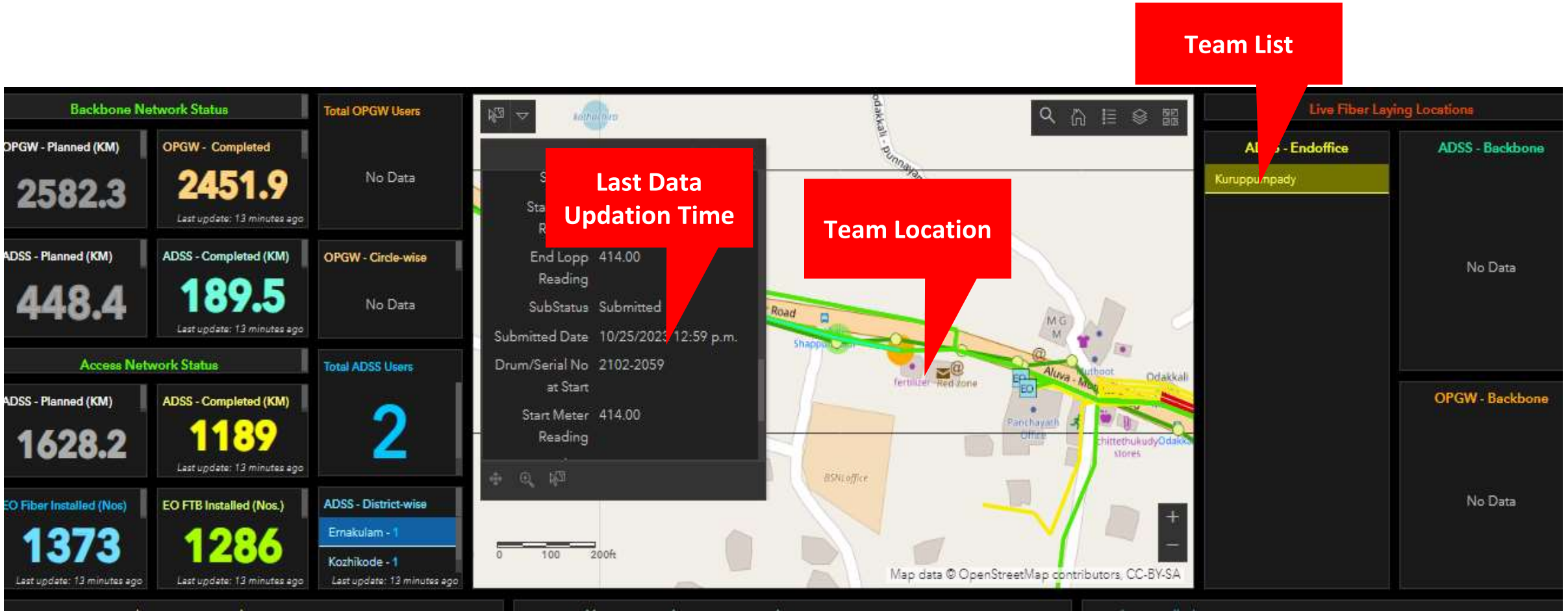
Online Team Deployment Report



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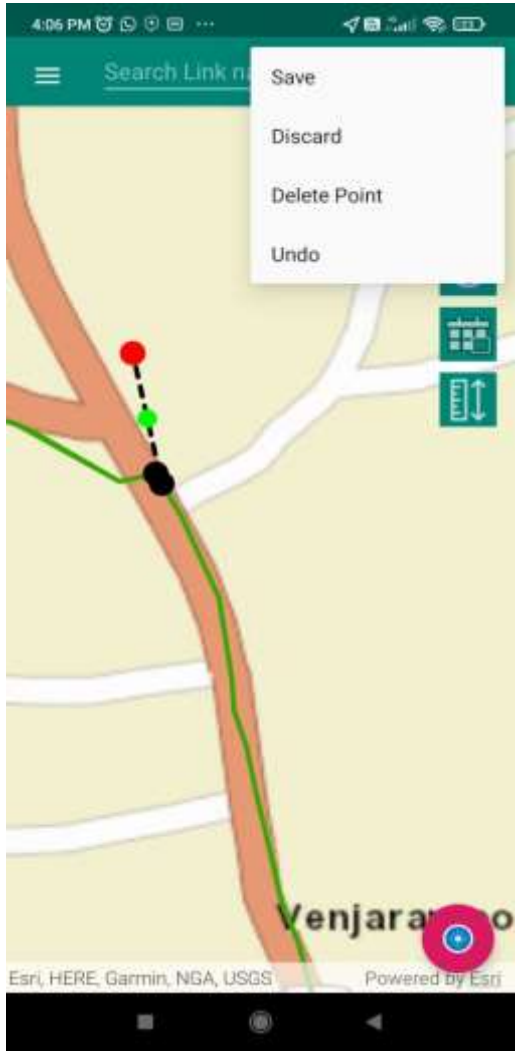
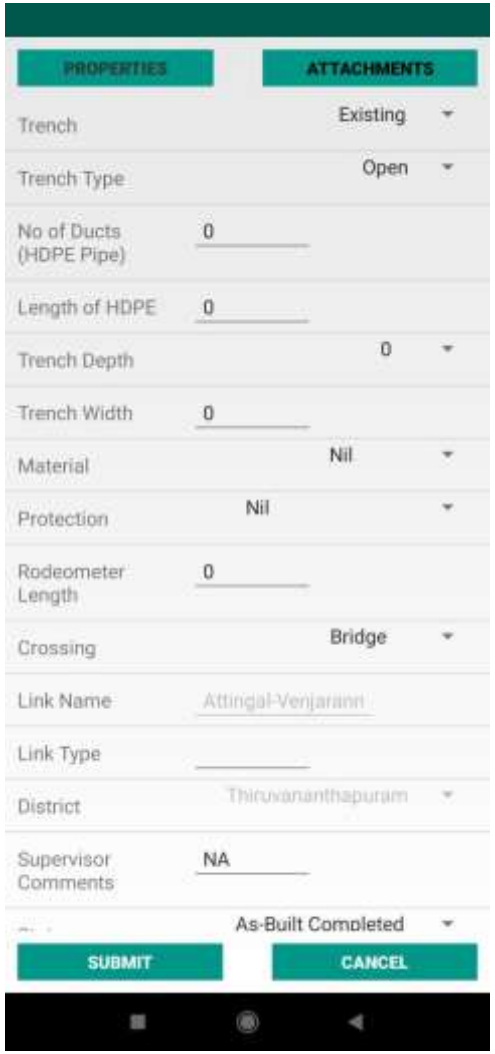
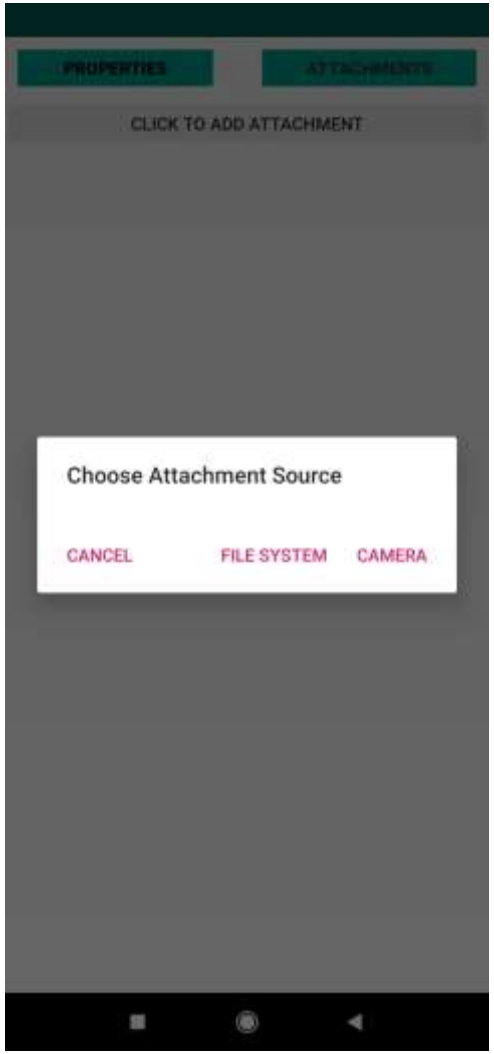
Facility to check the depth of Trench.







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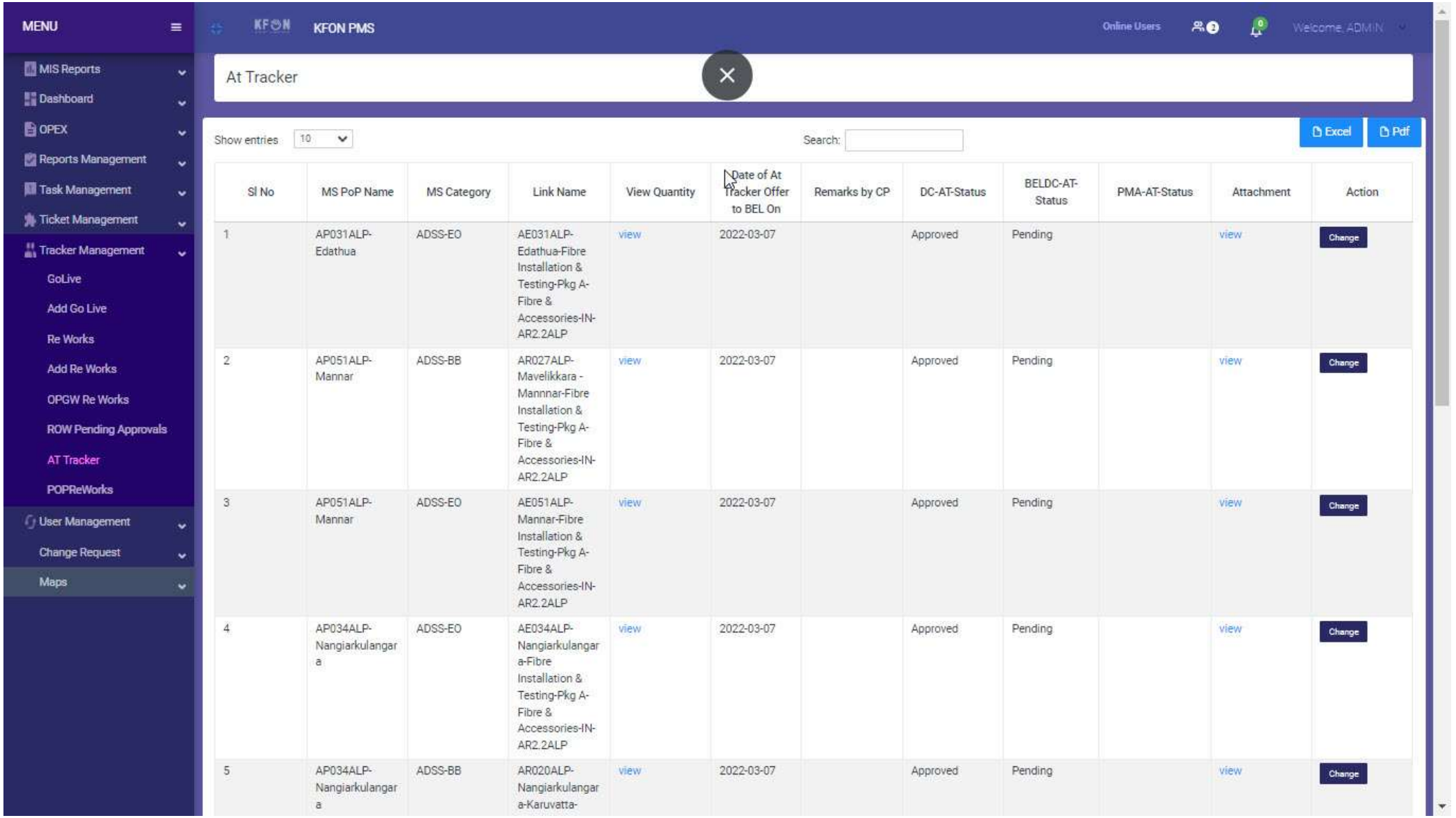
Acceptance Testing by Project Monitoring Agency



Sl No	MS PoP Name	MS Category	Link Name	View Quantity	Date of At Tracker Offer to BEL On	Remarks by CP	DC-AT-Status	BELDC-AT-Status	PMA-AT-Status	Attachment	Action
1	AP031ALP-Edathua	ADSS-EO	AE031ALP-Edathua-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	view	2022-03-07		Approved	Pending		view	Change
2	AP051ALP-Mannar	ADSS-BB	AR027ALP-Mavelikkara - Mannnar-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	view	2022-03-07		Approved	Pending		view	Change
3	AP051ALP-Mannar	ADSS-EO	AE051ALP-Mannar-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	view	2022-03-07		Approved	Pending		view	Change
4	AP034ALP-Nangiarkulangara	ADSS-EO	AE034ALP-Nangiarkulangara-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2ALP	view	2022-03-07		Approved	Pending		view	Change
5	AP034ALP-Nangiarkulangara	ADSS-BB	AR020ALP-Nangiarkulangara-Karuvatta-	view	2022-03-07		Approved	Pending		view	Change

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As Built Drawing

- The data captured on the Construction Mobile Application during the network construction will get updated on the GIS Server
- An As-Built Data/ As-Built Diagram will be prepared from the data updated on the server
- The required QA & QC will be done before finalizing the ABD
- The as-built BOQ can be generated from the web portal provided and the same can be checked & verified against the final as-built drawing

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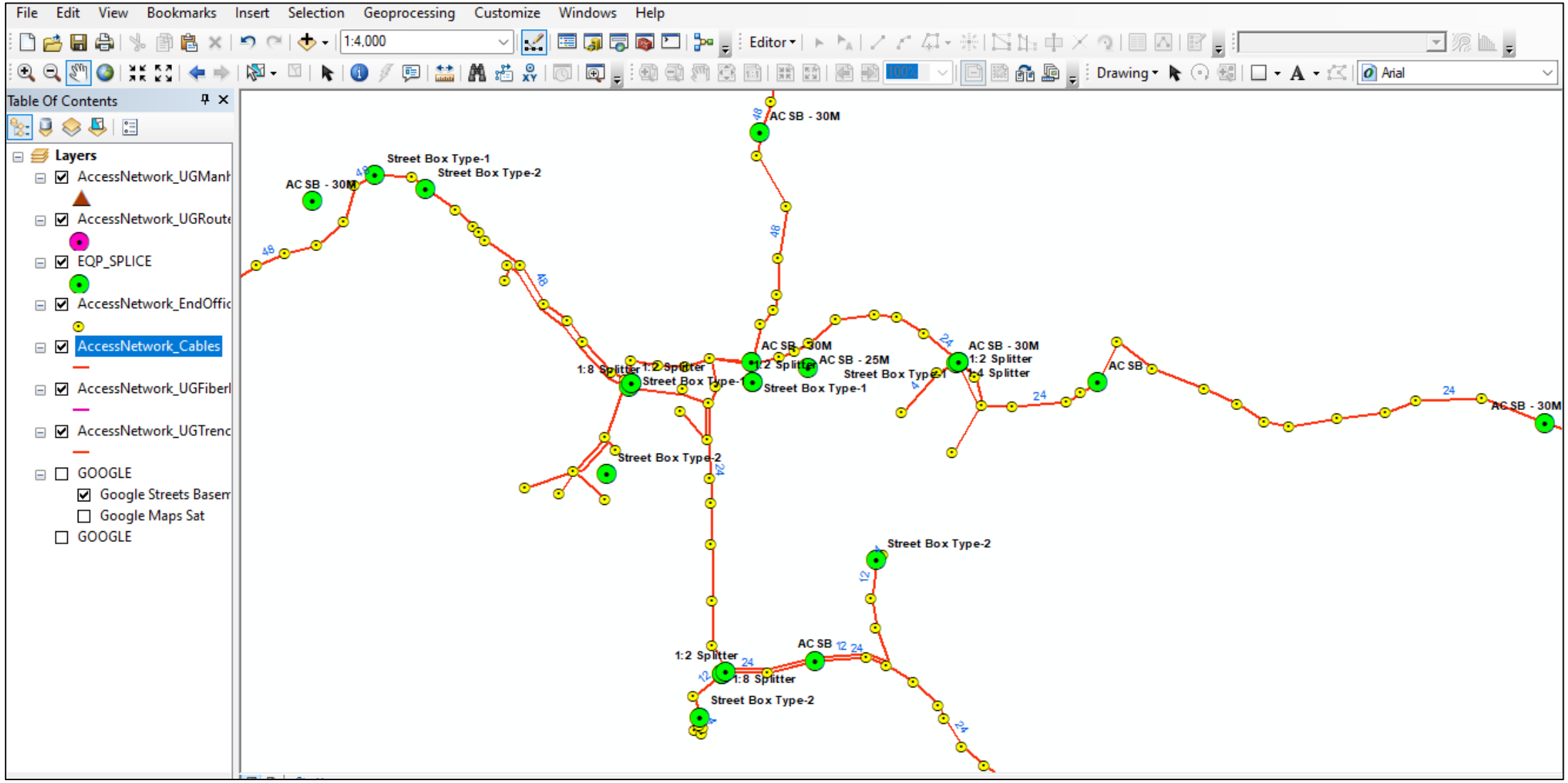
As Built Drawing



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As Built BoQ

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	As-Built Summary Data From 9-1-2023 To 9-1-2023														
2	SI No	Date	Link/POP Name	48F100 Consumed	48F100 Loop Length	48F100 Consumed Without Loop	24F Consumed	F24 Loop Length	F24 Consumed Without Loop	12F Consumed	F12 Loop Length	F12 Consumed Without Loop	4F Consumed	F4 Loop Length	F4 Consume Without Loop
3	1	1/2/2022	Adimaly	963	90	873	0	0	0	0	0	0	0	0	
4	2	2/2/2022	Adimaly	1670.9	192	1478.9	0	0	0	0	0	0	0	0	
5	3	3/2/2022	Adimaly	0	0	0	0	0	0	1412	165	1247	0	0	
6	4	4/2/2022	Adimaly	0	0	0	0	0	0	1023	135	888	0	0	
7	5	5/2/2022	Adimaly	1919.9	332	1587.9	0	0	0	0	0	0	0	0	
8	6	7/2/2022	Adimaly	0	0	0	0	0	0	986.9	105	881.9	0	0	
9	7	8/2/2022	Adimaly	0	0	0	0	0	0	1907	220	1687	0	0	
10	8	9/2/2022	Adimaly	745	80	665	0	0	0	0	0	0	0	0	

Cross Arms(Nos)	Poles&Accessories	Anchoring&Bolt	UPB	Suspension Clamp	Suspension Clamp II	Tension Clamp	Tension Clamp II	Storage Bracket	Storage Bracket II	Downlead Clamp	STB Type 1	STB Type 2	Splitter 1: 2	Splitter 1: 4	Splitte 1: 8
28	0	0	0	1	0	25	0	3	0	4	0	0	0	0	
46	0	0	0	9	0	37	0	7	0	8	1	0	0	0	
42	0	0	0	3	0	36	0	6	0	6	0	0	0	0	
32	0	0	0	2	0	30	0	6	0	6	0	0	0	0	
61	0	0	0	11	0	67	0	11	0	17	5	0	3	1	
24	0	0	0	0	0	24	0	4	0	4	1	0	0	0	
50	0	0	0	0	0	52	0	7	0	7	0	0	0	0	
22	0	0	0	2	0	21	0	2	0	3	1	0	1	1	
32	2	0	0	4	0	27	0	6	0	6	1	0	0	0	
38	0	0	0	8	0	28	0	4	0	4	1	0	0	0	

86	28-11-202	Adimaly	0	0	0	0	0	0	287	37	250	0	0	
		TOTAL	12573.3	1870	10703.3	34060.5	4511	29549.5	47608.9	5816	41792.9	7532.9	780	

Activate Win
Go to Settings to

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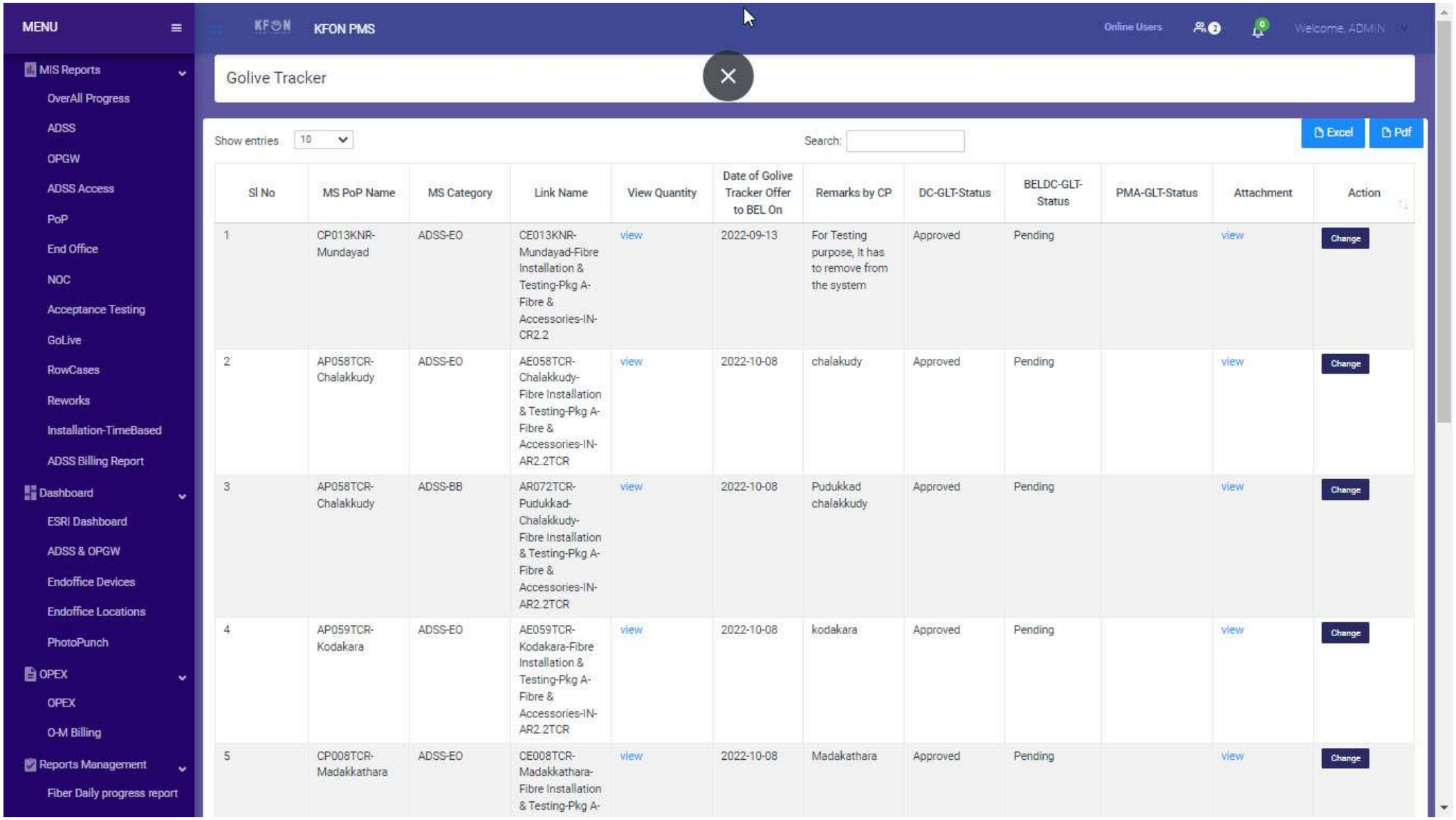
Generation of Go-Live quantities from the System



Sl No	MS PoP Name	MS Category	Link Name	View Quantity	Date of Golive Tracker Offer to BEL On	Remarks by CP	DC-GLT-Status	BELDC-GLT-Status	PMA-GLT-Status	Attachment	Action
1	CP013KNR-Mundayad	ADSS-EO	CE013KNR-Mundayad-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-CR2.2	view	2022-09-13	For Testing purpose, It has to remove from the system	Approved	Pending		view	Change
2	AP058TCR-Chalakkudy	ADSS-EO	AE058TCR-Chalakkudy-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2TCR	view	2022-10-08	chalakudy	Approved	Pending		view	Change
3	AP058TCR-Chalakkudy	ADSS-BB	AR072TCR-Pudukkad-Chalakkudy-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2TCR	view	2022-10-08	Pudukkad chalakkudy	Approved	Pending		view	Change
4	AP059TCR-Kodakara	ADSS-EO	AE059TCR-Kodakara-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-AR2.2TCR	view	2022-10-08	kodakara	Approved	Pending		view	Change
5	CP008TCR-Madakkathara	ADSS-EO	CE008TCR-Madakkathara-Fibre Installation & Testing-Pkg A-	view	2022-10-08	Madakathara	Approved	Pending		view	Change

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Creation of Telecom Data Model

- The Utility Network Data Model, lets users to create, manage, and share utility asset data
- It is a framework for organizing your electric, water, gas and telecommunications asset data
- ArcGIS Telecom Data Model contains a geodatabase model that can be configured and customized to meet the needs of any organization to maintain telecommunications networks and associated infrastructure.
- The model supports mapping of network infrastructure for fixed line (copper and fiber optic) cable networks and associated equipment.
- The model also supports network tracing at a copper and fiber level

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Creation of Telecom Data Model

- The Fiber Manager delivers your fiber optic network information in a seamless data fabric for mapping, planning, designing and managing.

- One can get an accurate inventory of underground structure networks, their capacity and utilization, along with robust productivity tools for managing your assets.

- This solution seamlessly organizes and analyzes the volume of data produced by your network, helps you better understand and manage your network, and helps you accurately anticipate and plan for future needs.

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Creation of Telecom Data Model

Detailed representation of Network

Mapping Fiber – Buffer Tube – Fiber strand level

Micro level connectivity

Integration of POP/NOC/EOs Equipment's and their connectivity

OTDR length integration and Fiber Tracing with OTDR lengths

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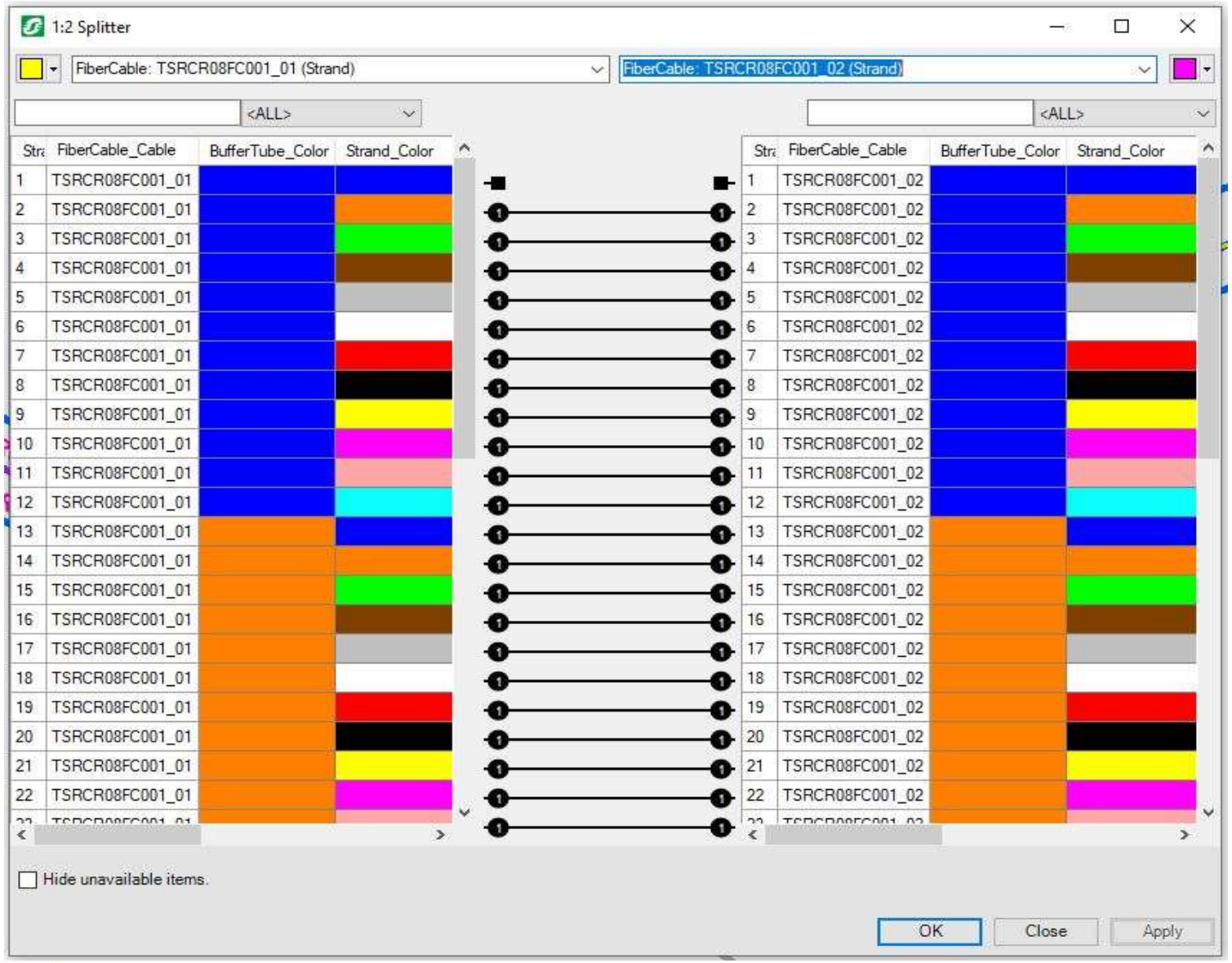
Creation of Telecom Data Model

Fiber to Fiber Connectivity



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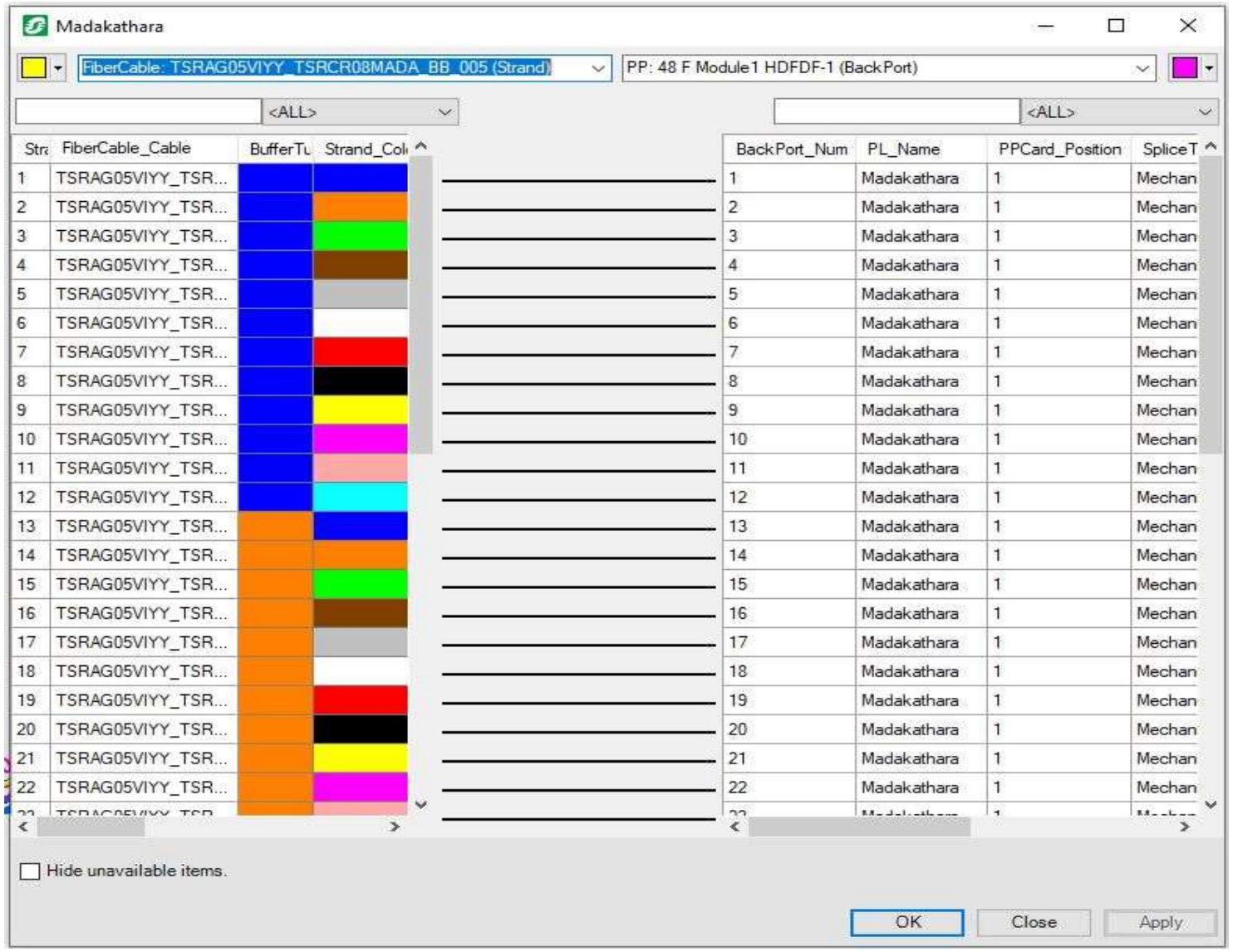
Creation of Telecom Data Model

Fiber to FDMS Connectivity



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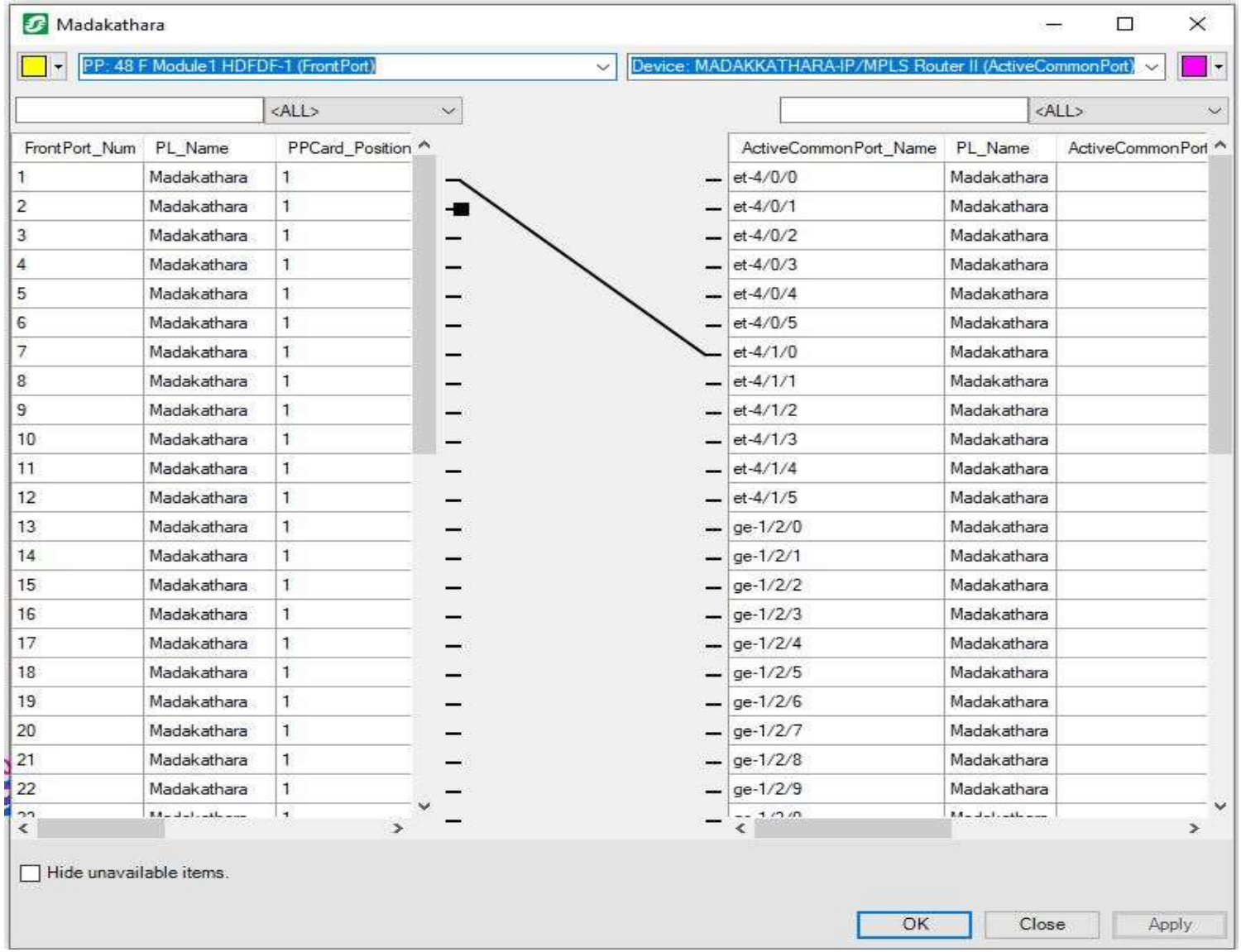
Creation of Telecom Data Model

FDMS to Router Connectivity



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Facility to Identify the Fiber Cut Monitoring in GIS platform

- The GIS System will be integrated with the RFMS & NMS Systems through the Rest API. Once the Telecom Data Model migration is done, the OUT Device in the POP location will identity the optical distance from the OUT port to the fiber cut location
- This optical distance information will be pushed to NMS and then to GIS
- GIS will Identify the Latitude/Longitude of the fiber cut location & the physical distance to the location
- GIS will also identify the impacted devices
- The identified details will be pushed to NMS and then tickets will be generated in NMS and further to the O & M Mobile Application of the GIS system

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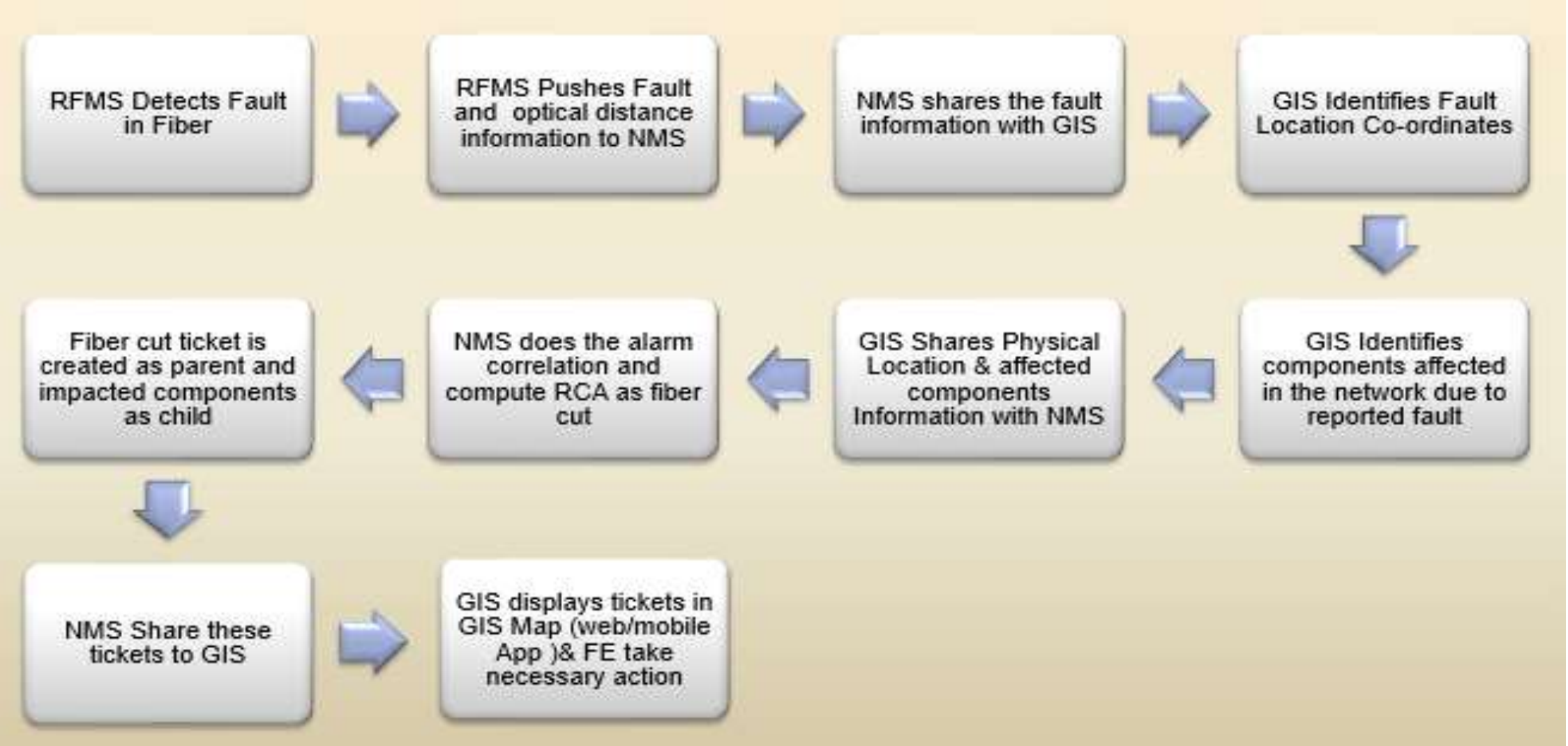
Facility to Identify the Fiber Cut Monitoring in GIS platform – Work Flow



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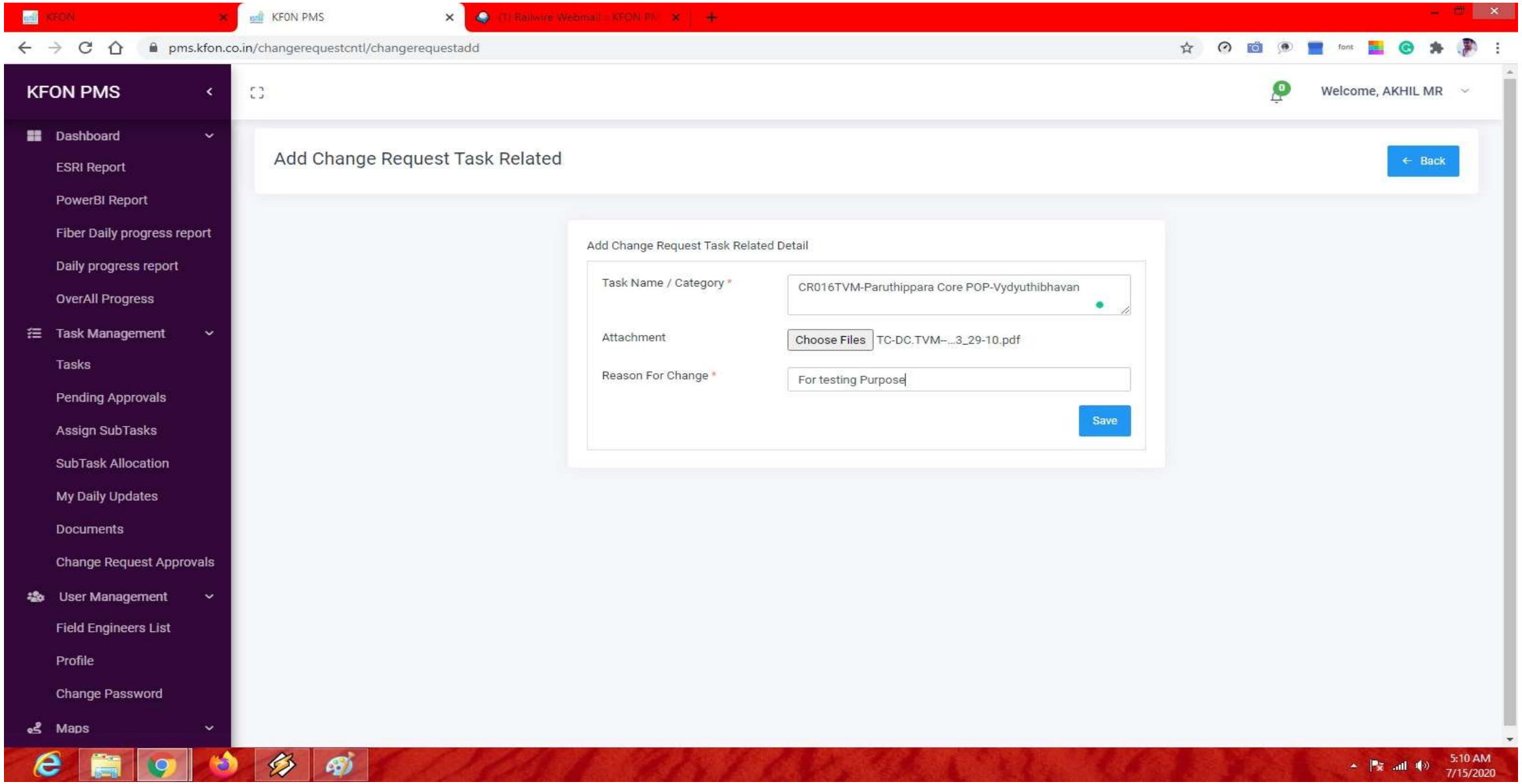
Change Request Management – Adding Change request



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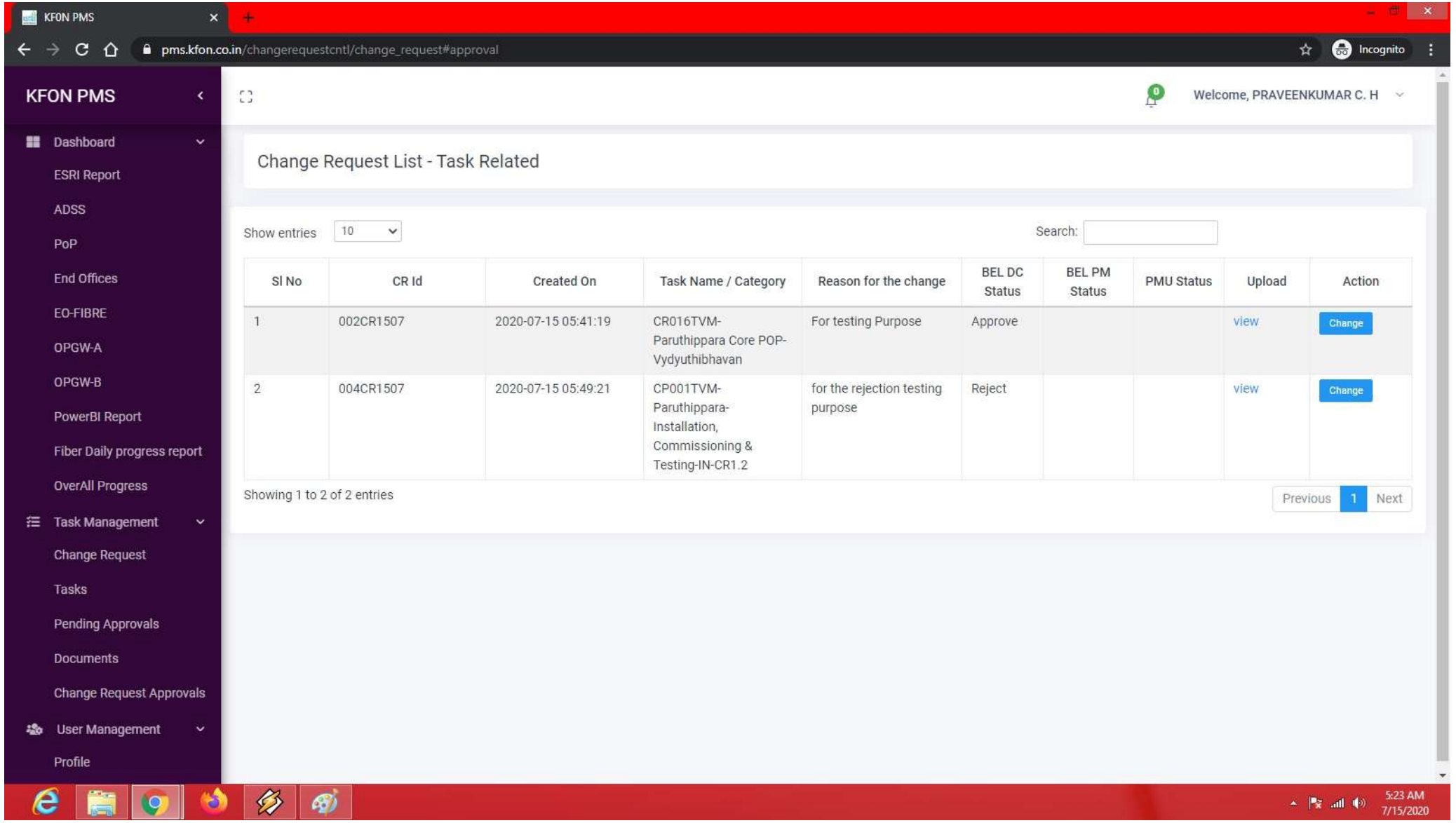
Change Request Management – Task level



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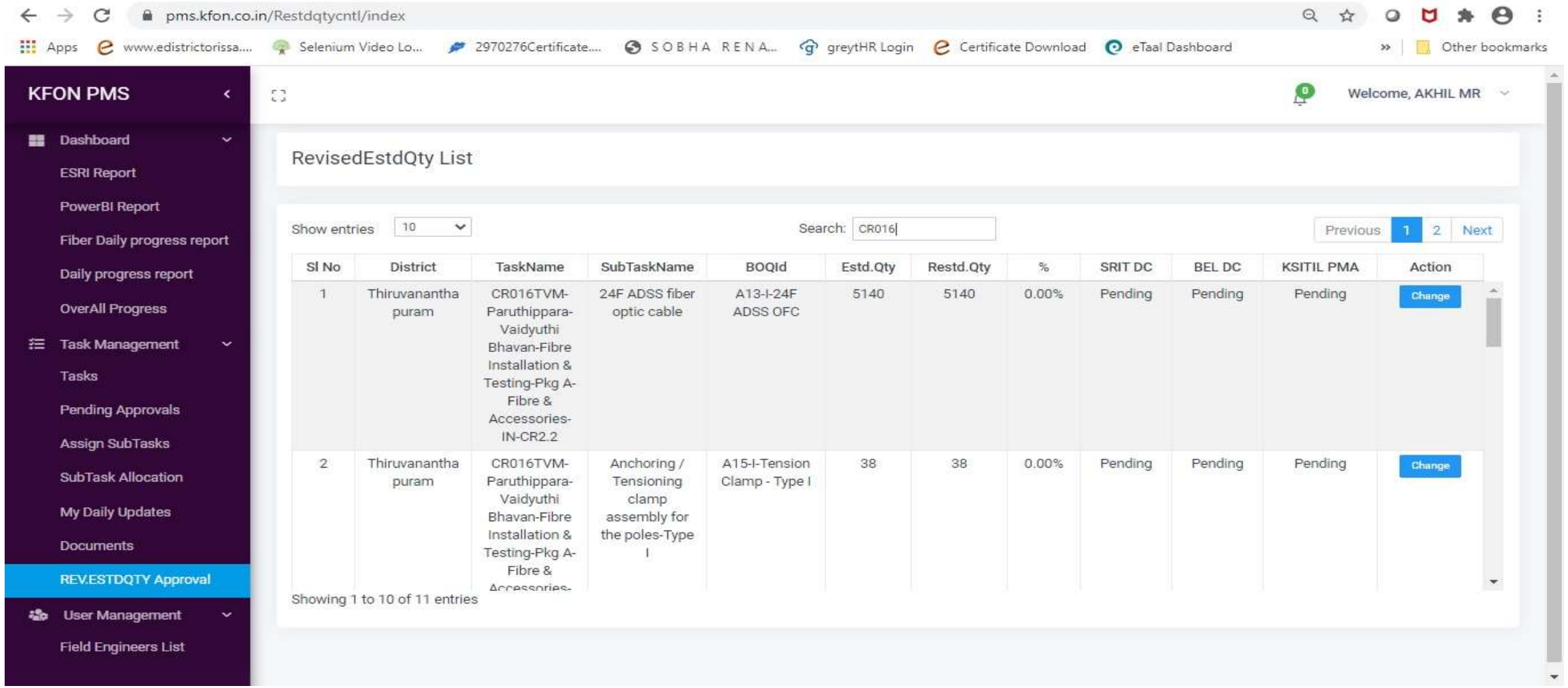
Change Request Management

- Changing the quantities at the Subtask level



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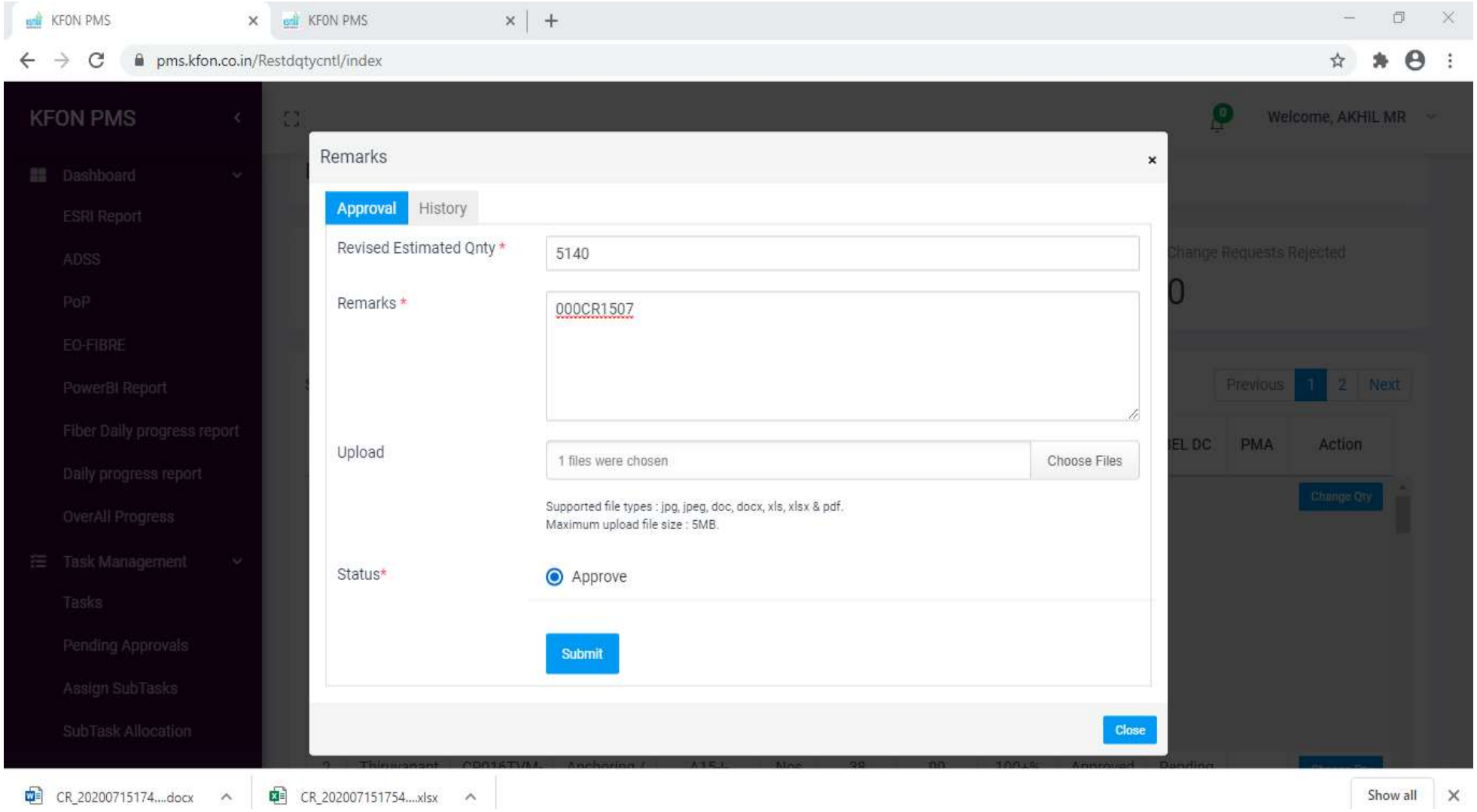
Change Request Management

- Approval by authority



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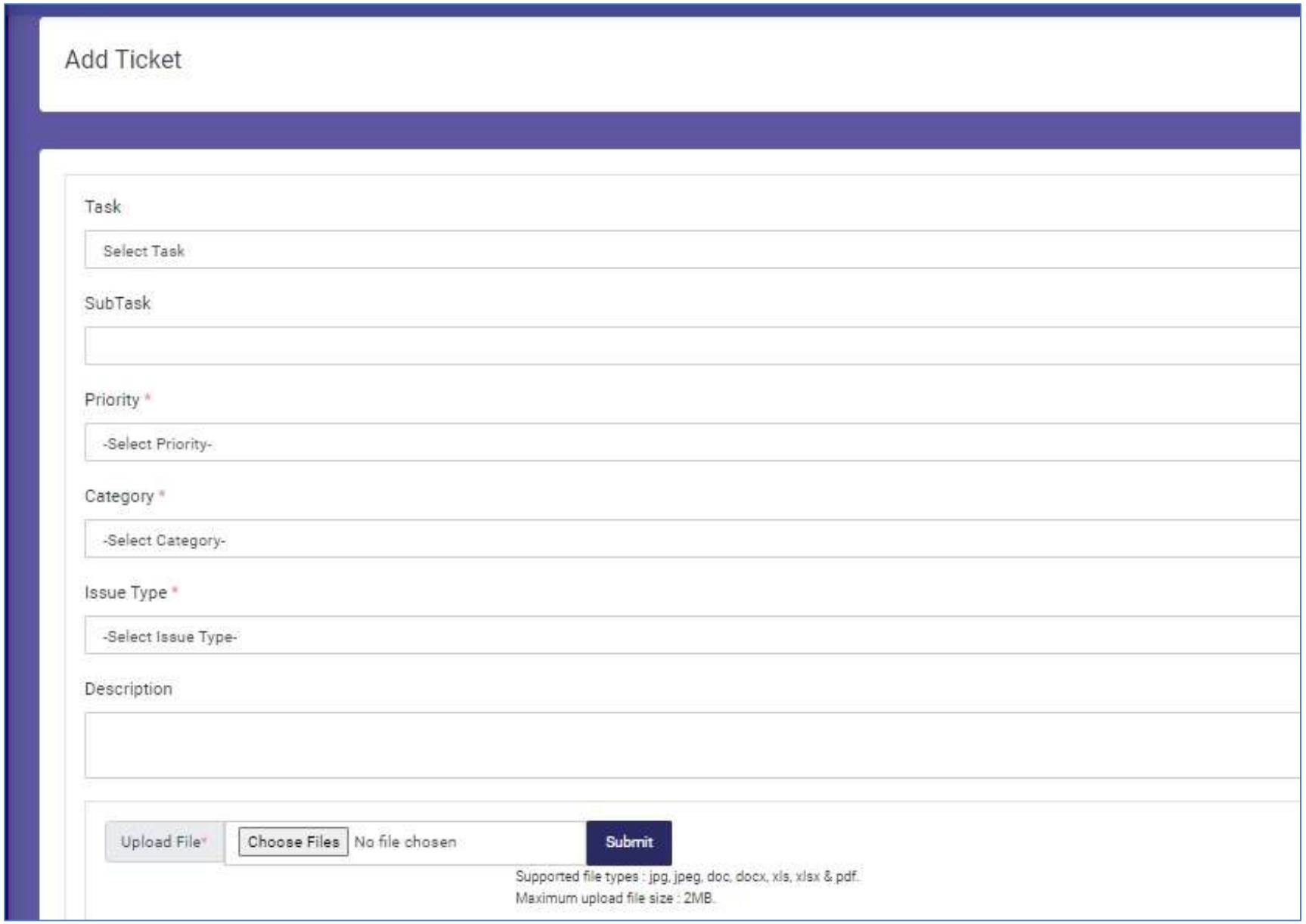
Support Ticket Management



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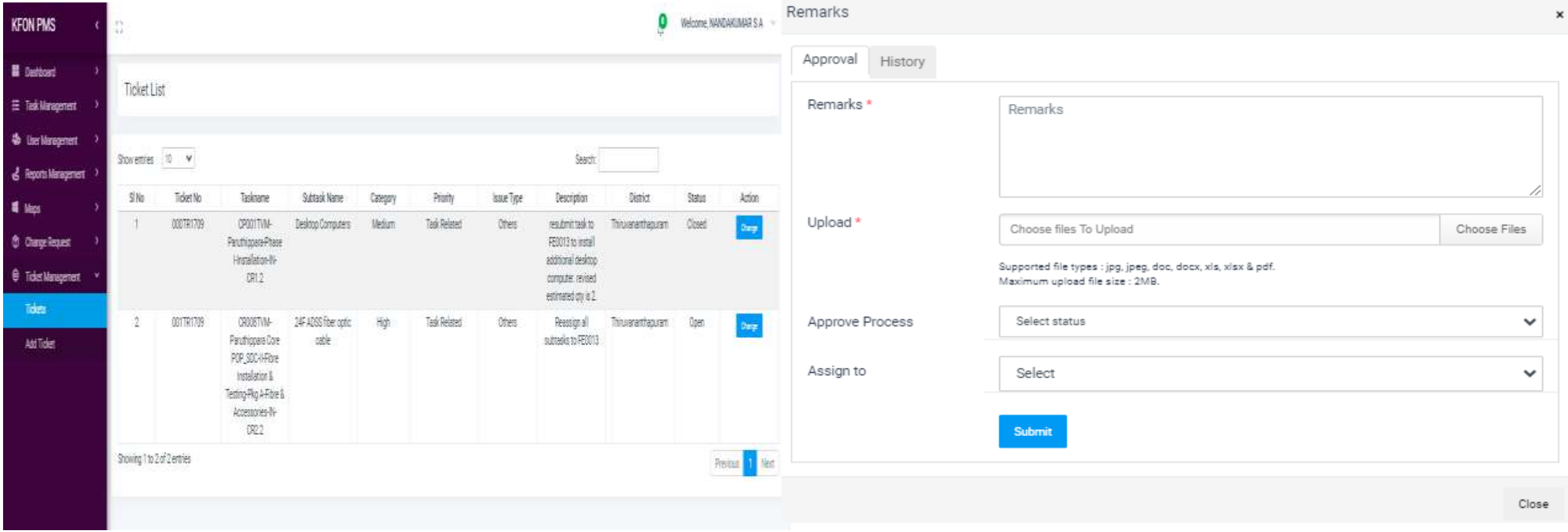
Support Ticket Management – Assigning Tickets

- To assign the ticket to the peer / next level user, the user needs to click on Change Button



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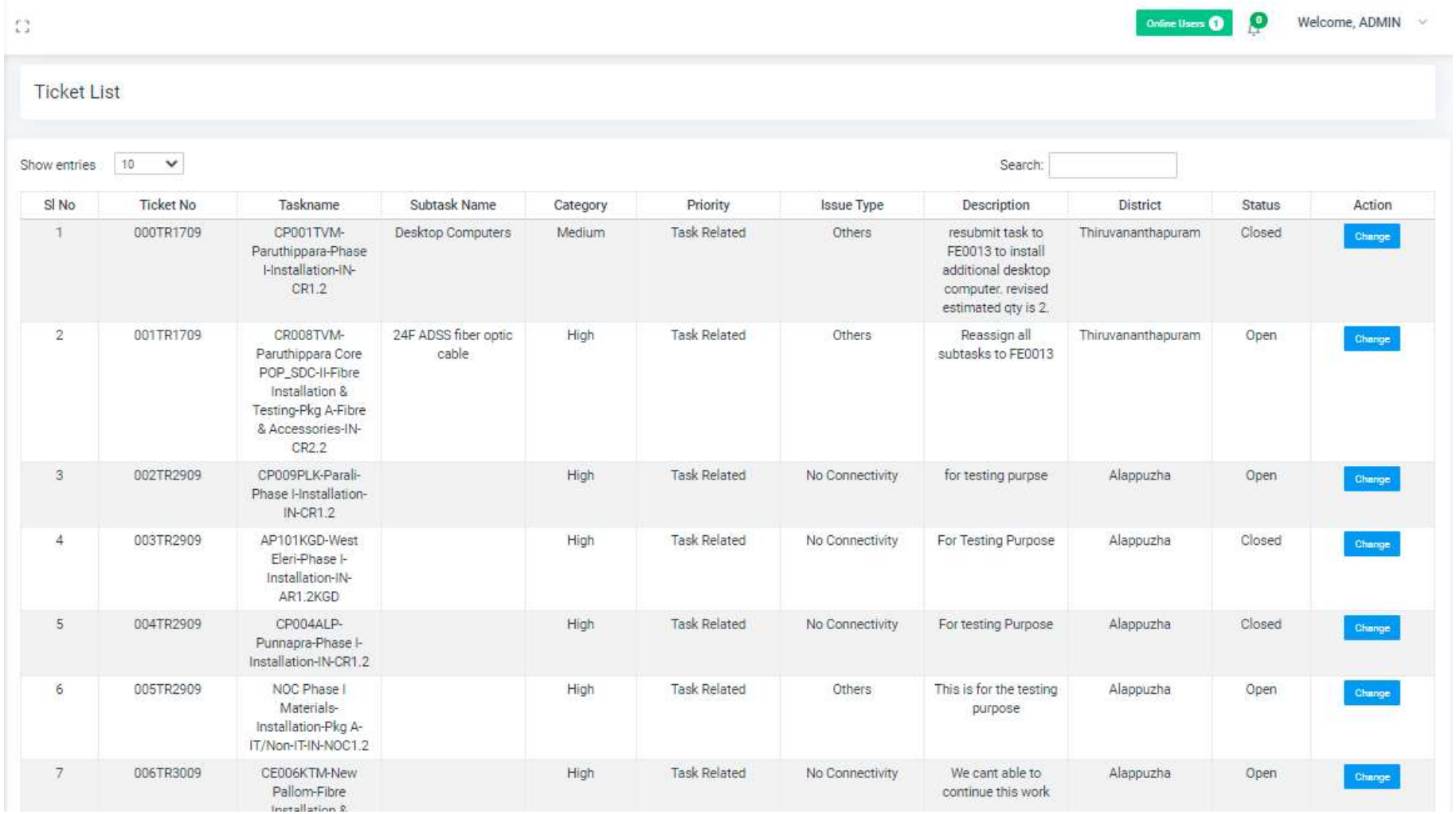
Support Ticket Management – Tracking Tickets

The Users can track the Tickets raised and it's current status



Sl No	Ticket No	Taskname	Subtask Name	Category	Priority	Issue Type	Description	District	Status	Action
1	000TR1709	CP001TVM-Paruthippara-Phase I-Installation-IN-CR1.2	Desktop Computers	Medium	Task Related	Others	resubmit task to FE0013 to install additional desktop computer. revised estimated qty is 2.	Thiruvananthapuram	Closed	Change
2	001TR1709	CR008TVM-Paruthippara Core POP_SDC-II-Fibre Installation & Testing-Pkg A-Fibre & Accessories-IN-CR2.2	24F ADSS fiber optic cable	High	Task Related	Others	Reassign all subtasks to FE0013	Thiruvananthapuram	Open	Change
3	002TR2909	CP009PLK-Parali-Phase I-Installation-IN-CR1.2		High	Task Related	No Connectivity	for testing purpse	Alappuzha	Open	Change
4	003TR2909	AP101KGD-West Eleri-Phase I-Installation-IN-AR1.2KGD		High	Task Related	No Connectivity	For Testing Purpose	Alappuzha	Closed	Change
5	004TR2909	CP004ALP-Punnapra-Phase I-Installation-IN-CR1.2		High	Task Related	No Connectivity	For testing Purpose	Alappuzha	Closed	Change
6	005TR2909	NOC Phase I Materials-Installation-Pkg A-IT/Non-IT-IN-NOC1.2		High	Task Related	Others	This is for the testing purpose	Alappuzha	Open	Change
7	006TR3009	CE006KTM-New Pallom-Fibre Installation &		High	Task Related	No Connectivity	We cant able to continue this work	Alappuzha	Open	Change

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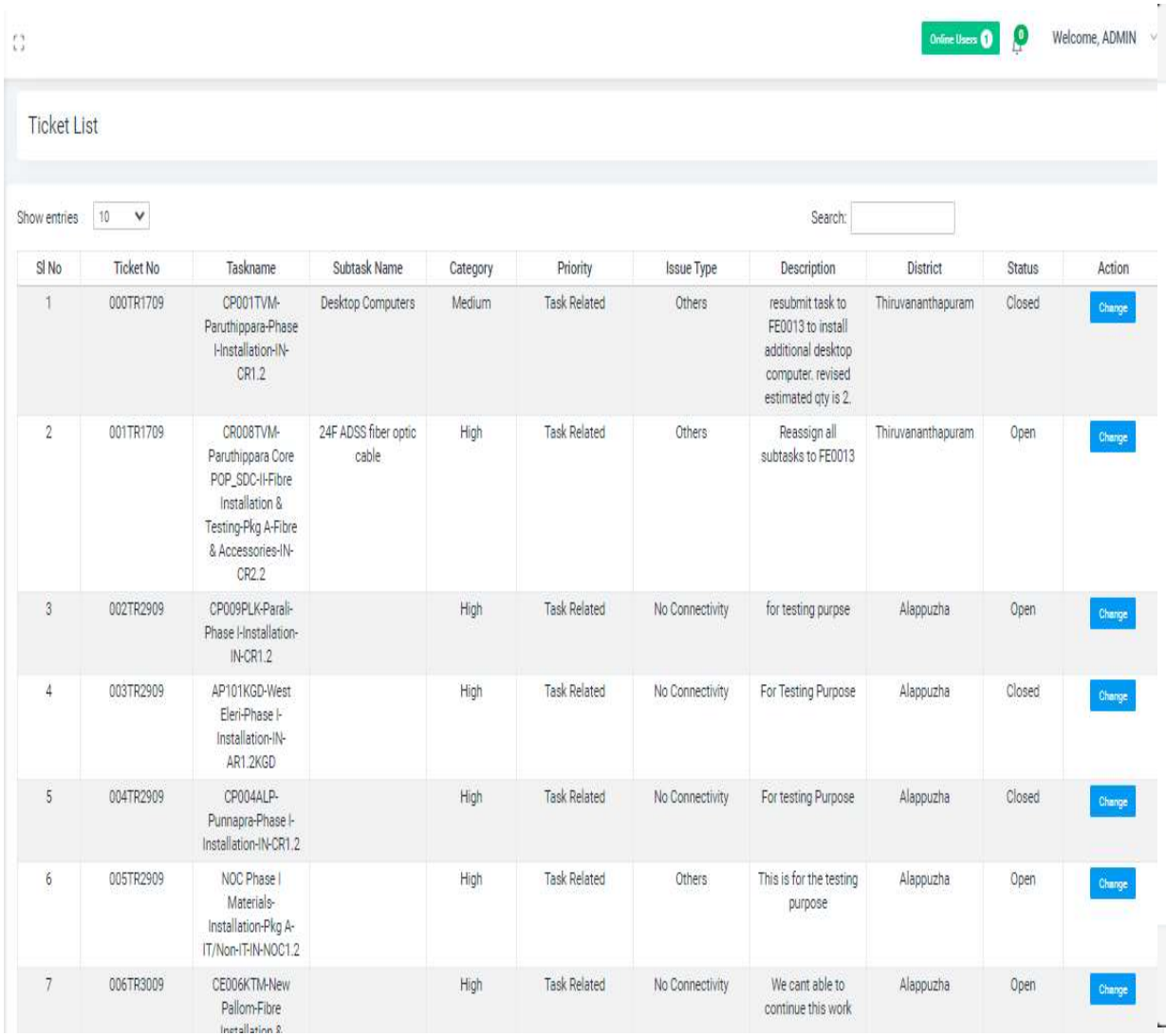
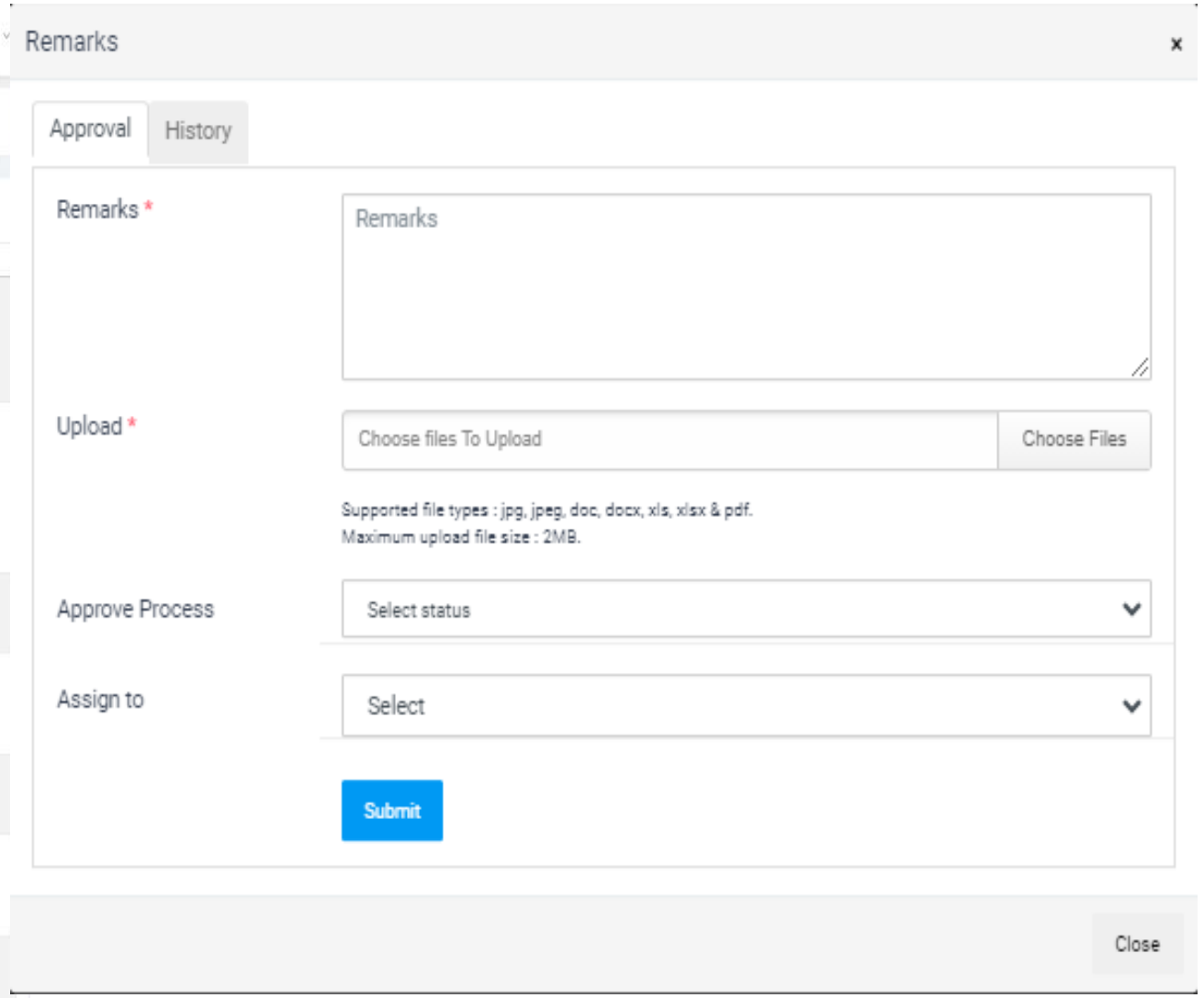
Support Ticket Management – Closing Tickets

Once the Assignee of the ticket has taken appropriate action against the issue raised, he can close the Ticket





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Operations and Maintenance Application

- A dedicated O & M Application is provided for receiving the fiber cut tickets and then resolving it
- Any data updation in the Network during the O & M can also be done with the mobile application

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Inventory Management

Back

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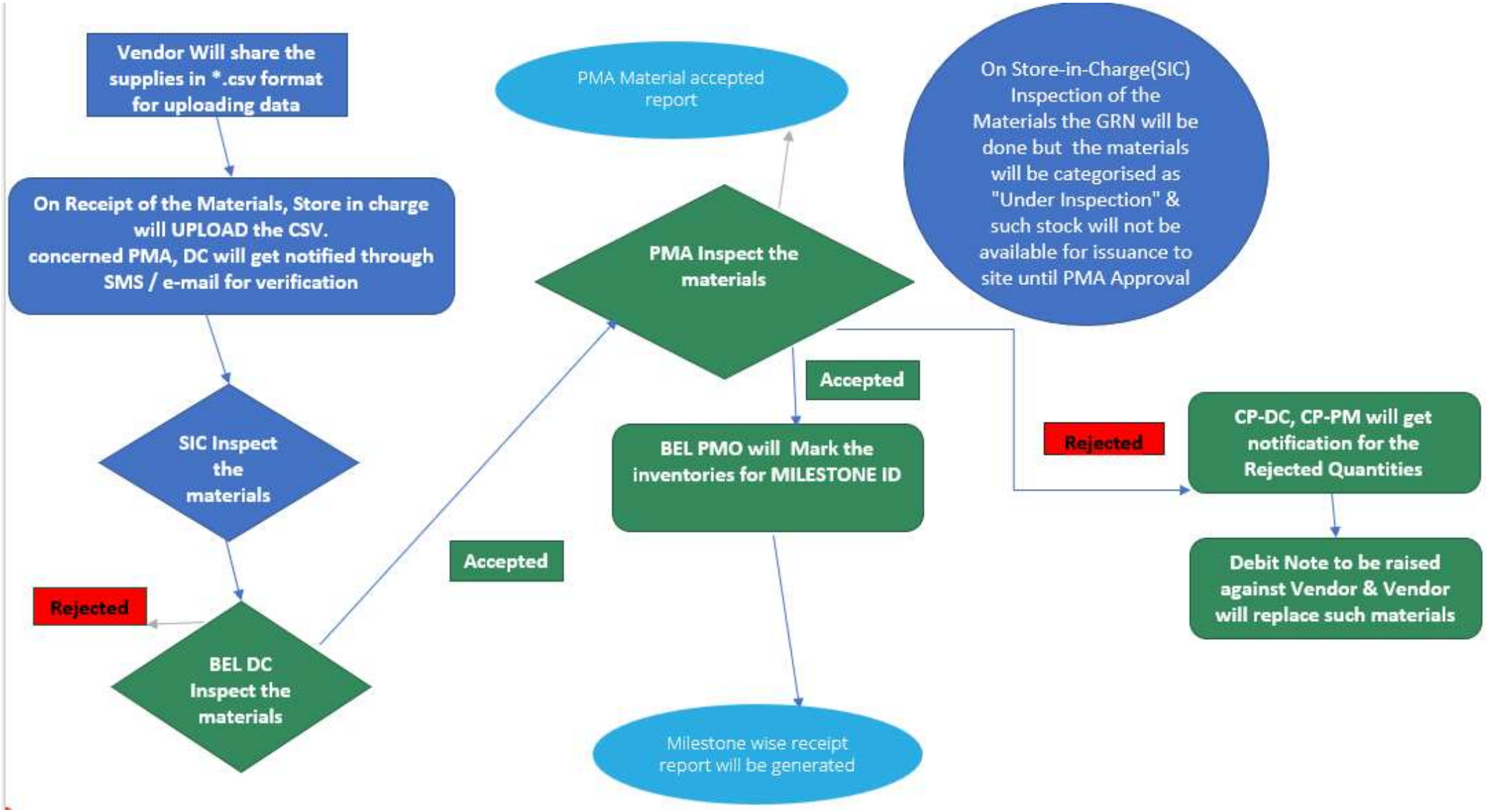
Material Request and Inspection Process



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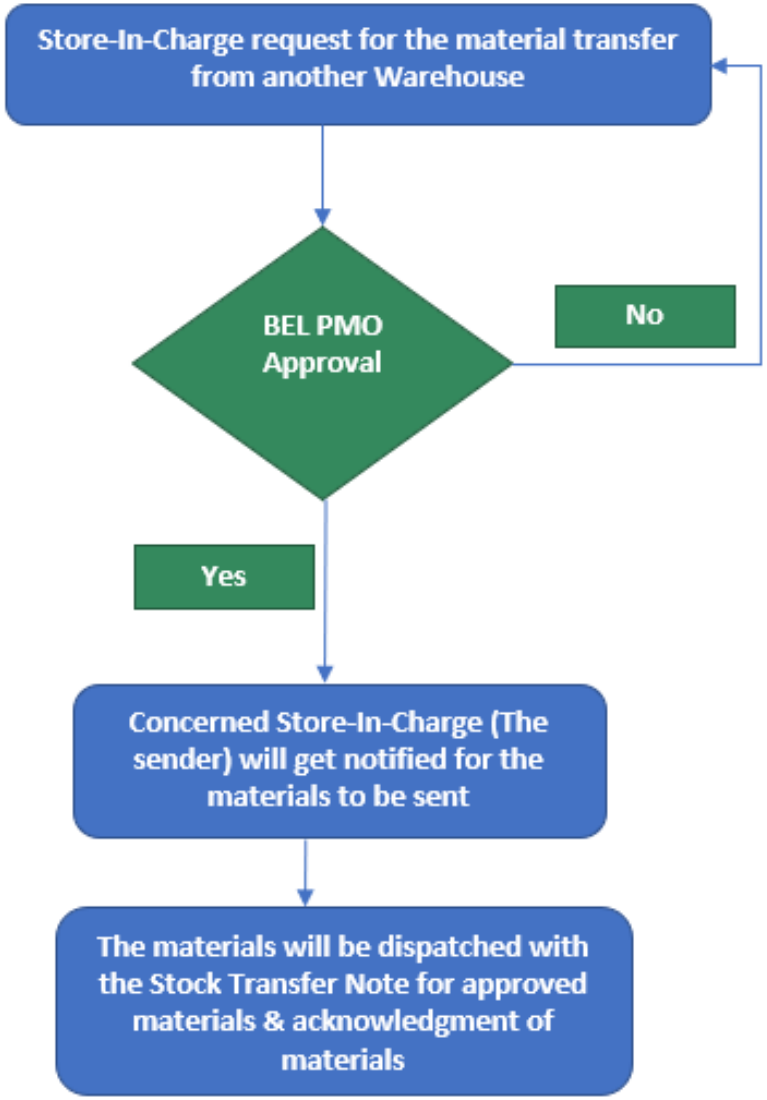
Material Transfer Process (between warehouses)



Reflection of materials quantities at respective warehouses

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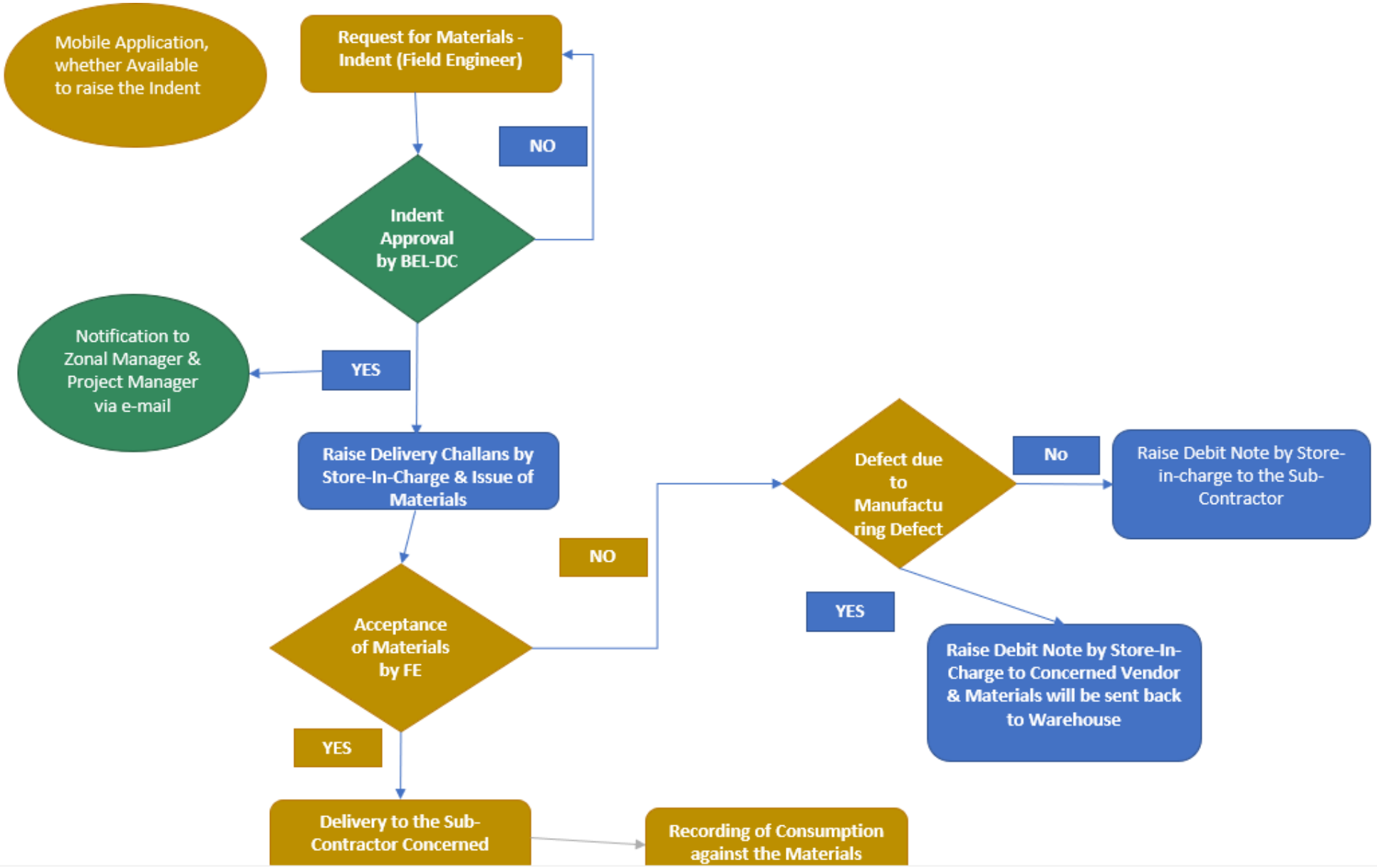
Material Indent Process



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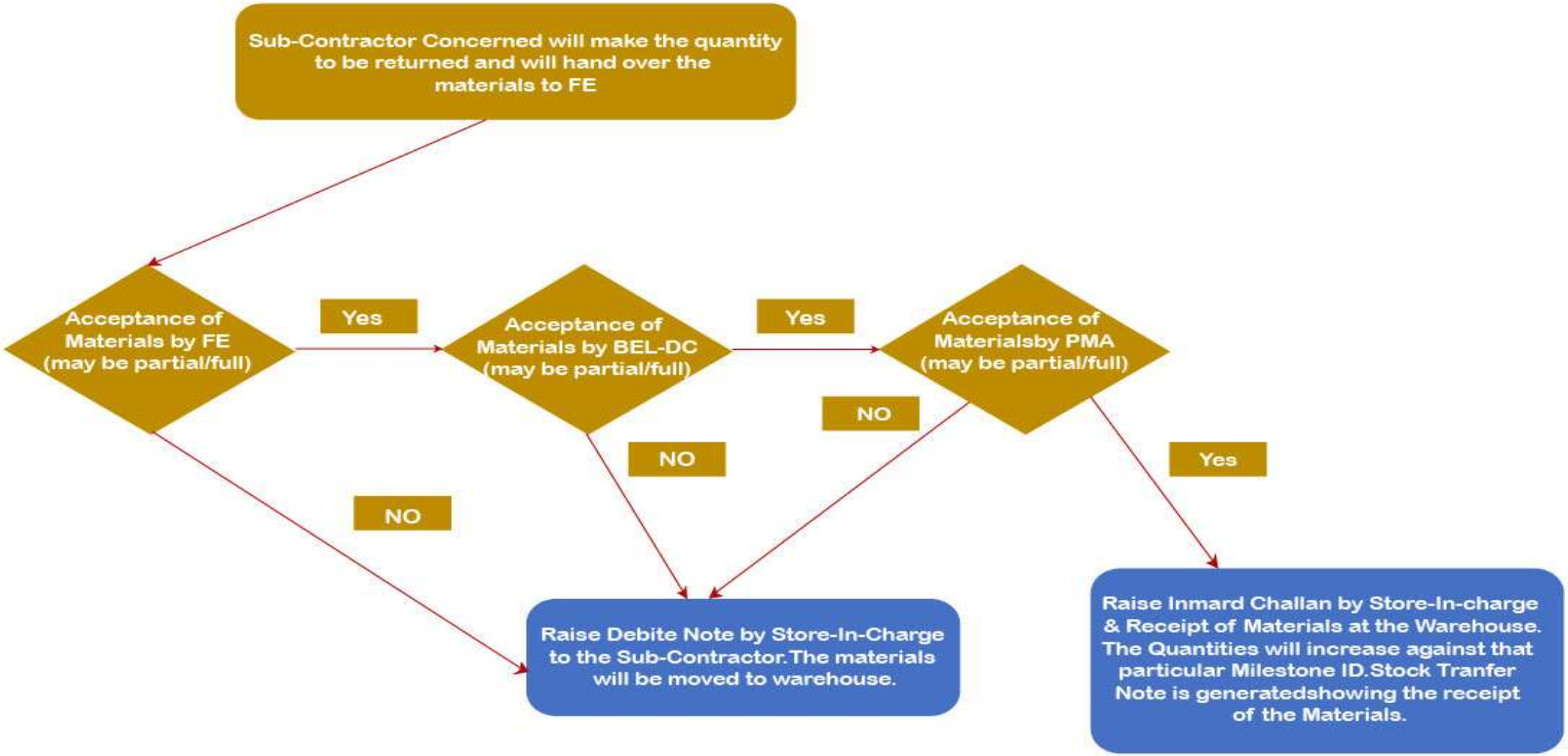
Reverse Logistics Process



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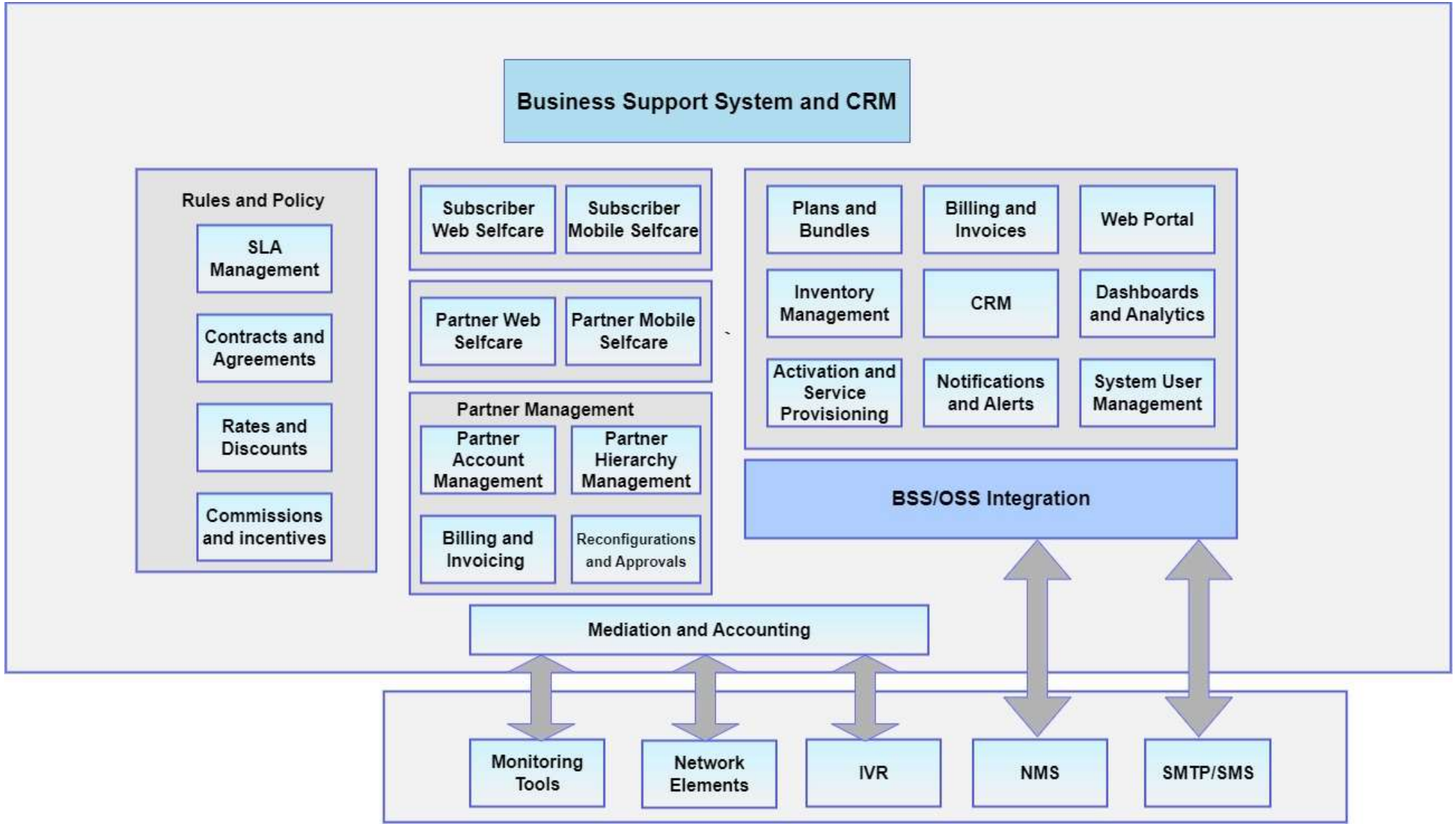
Business Support System and CRM



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Products and Solutions

OSS/BSS

- Analytical Dashboards & Reporting
- Enterprise Management Web Portal
- Billing and Invoicing
- Customer Relationship Management (CRM)
- Inventory/Device Management
- Product Management
- Provisioning
- Revenue/Reconciliation Management
- Subscriber Data Management
- Subscriber Web Portals (Self Care)
- Subscriber Self Care Mobile App
- Partner Management
- Partner Web Portals (Self Care)
- Partner Self Care Mobile App
- Trouble Ticketing
- Automated Usage Alerts and Notifications

AAA & Policy Management

- High Performance Radius Services
- Central & Distributed Deployment
- Multi-Vendor Network Element Support
- Scripting and REST interface
- Web interface for Monitoring & Support
- Analytical Dashboards & Reporting
- Policy Management interface for BSS

Technologies & Services

- Robust Solution to Manage entire life cycle of BSS/OSS
- Multitenancy
- Support Cloud and On-Premises Deployments
- Development & Implementation
- Customization & Training
- 27/7/365 Support & Insourcing
- Monitoring Tools
- MySQL/HTML/JS/PHP/Python
- Highly Scalable Architecture Framework

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Integrations

Module	Endpoint	Interface	Description
Billing	EMS	Rest API, FTP	Fetch Billing Records/CDRs/Analytical Data/Logs
CRM	Network and Service Management	Rest API	Service Profile & Provisioning
AAA	BRAS/BNG/Networking Devices	Radius	Authentication/ Authorization/ Accounting
CRM/Self Care	Payment Gateway	Rest API, Vendor PGI API	Fetching customer information and services
Mobile Self Care	EMS, Payment Gateway	Rest API, Vendor PGI API	Fully functional Selfcare and Customer Services
Issue Management	Alarms/Ticketing	Rest API	Manual and Autogenerated Tickets
BSS & Network Services	SMS/Email Server	SMTP/Vendor SMS APIs	Sending Notifications

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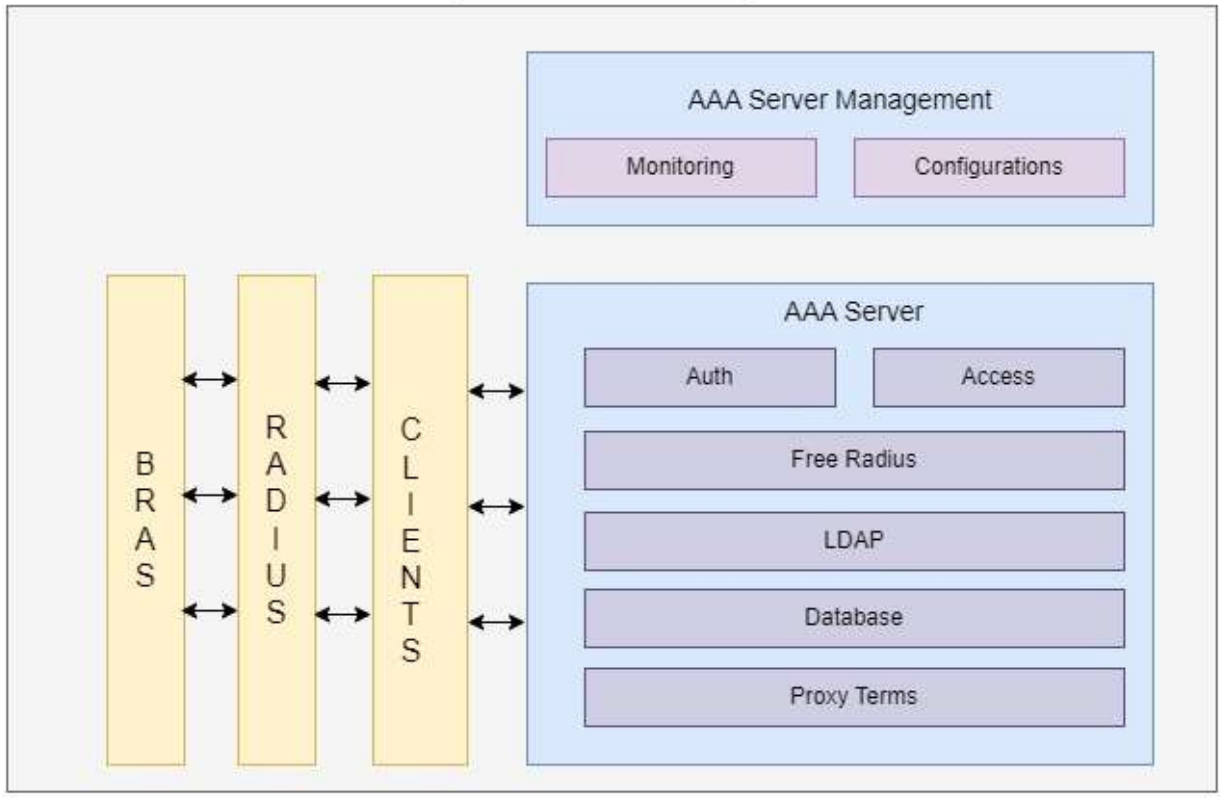
Architecture and Use Cases

AAA Architecture



AAA Standard Use Cases

- IP Address Management
- Period/Data Control
- IPV6 Control
- Dynamic Profile Update
- Multi-Vendor Radius Clients
- Automated Session Termination Policy
- Captive Portal Authentication Ready
- Data-Usage Monitoring
- Accounting Archival Policy

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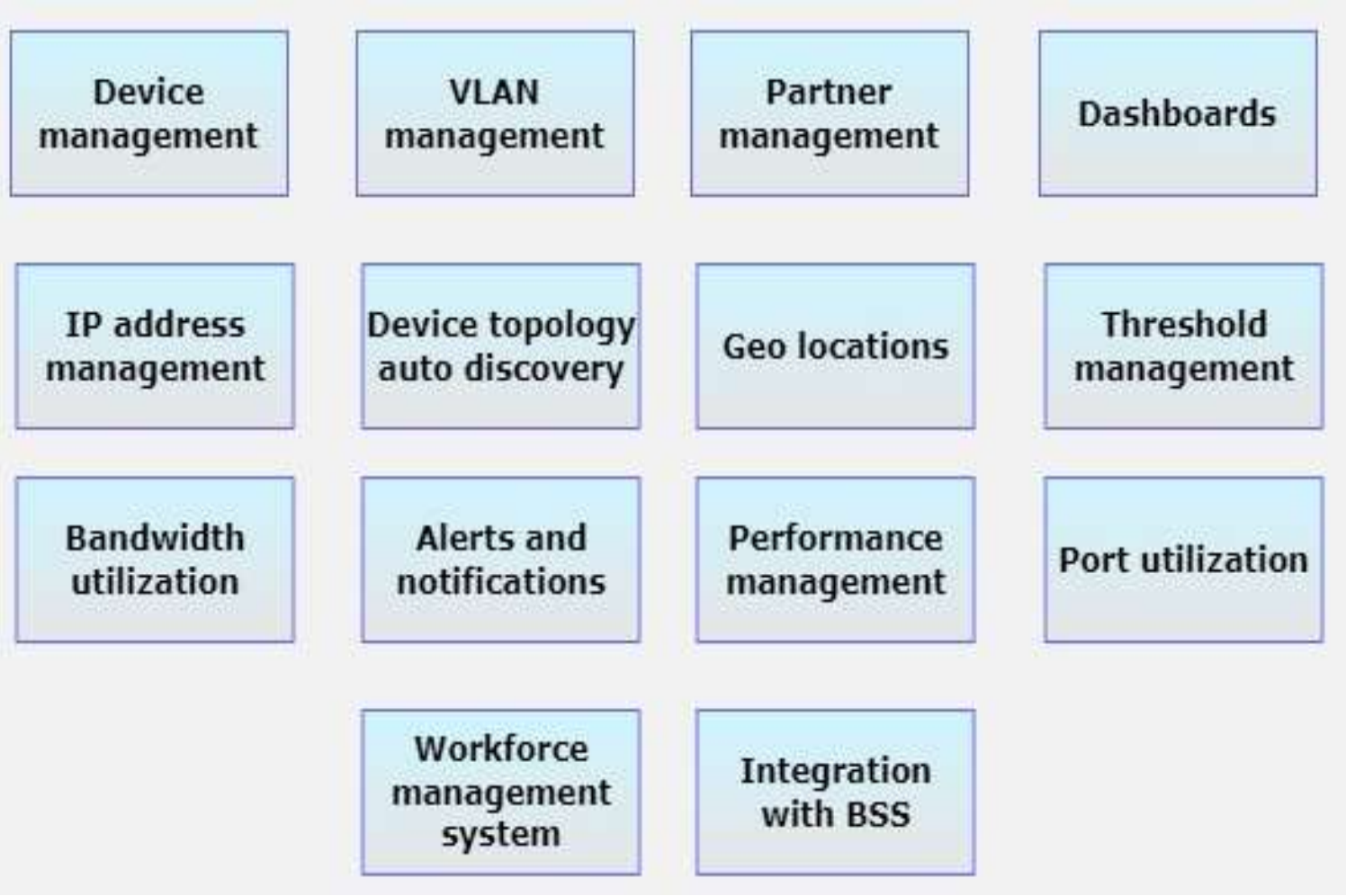
Operations Support System



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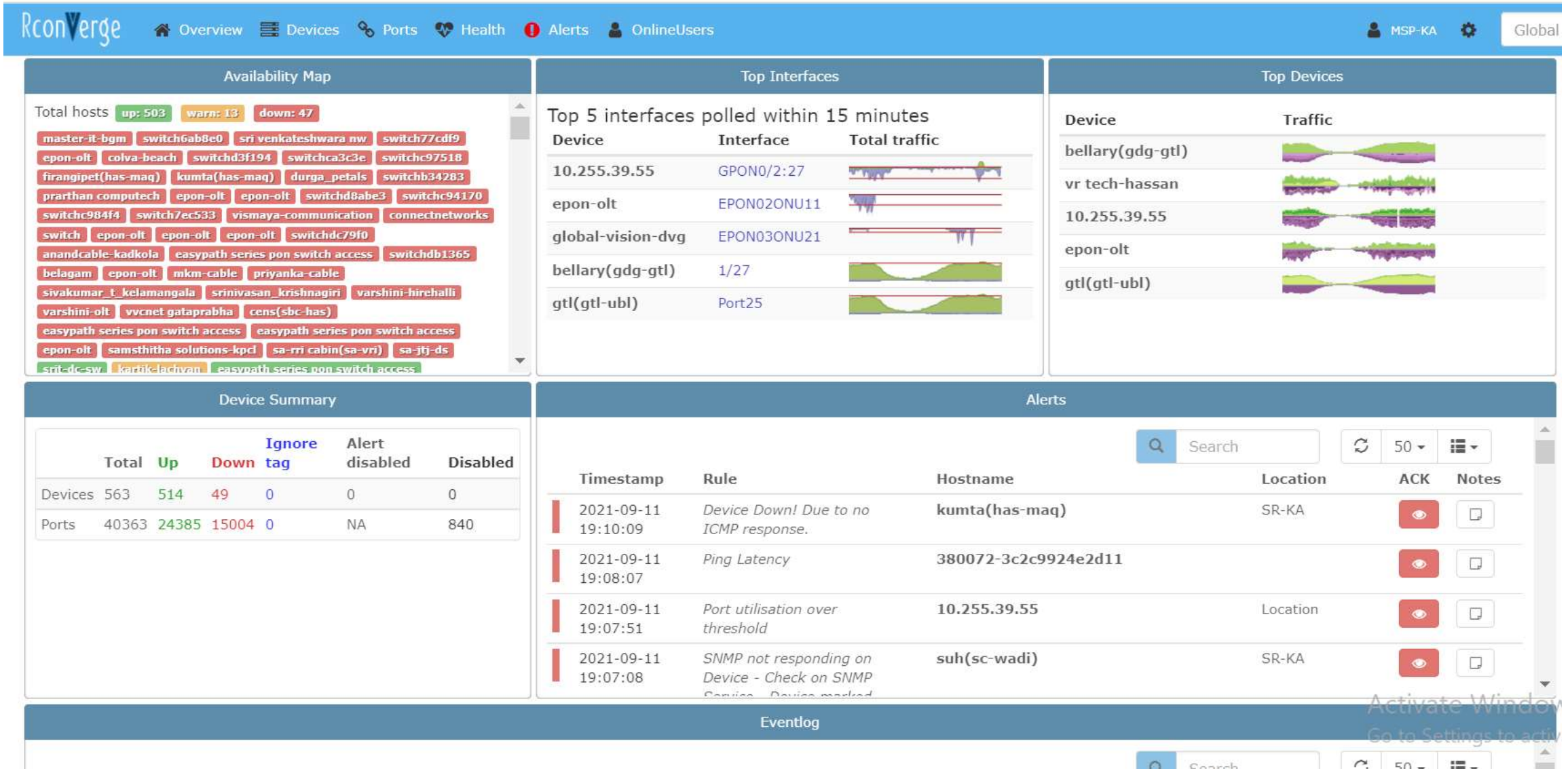
NMS Dashboard



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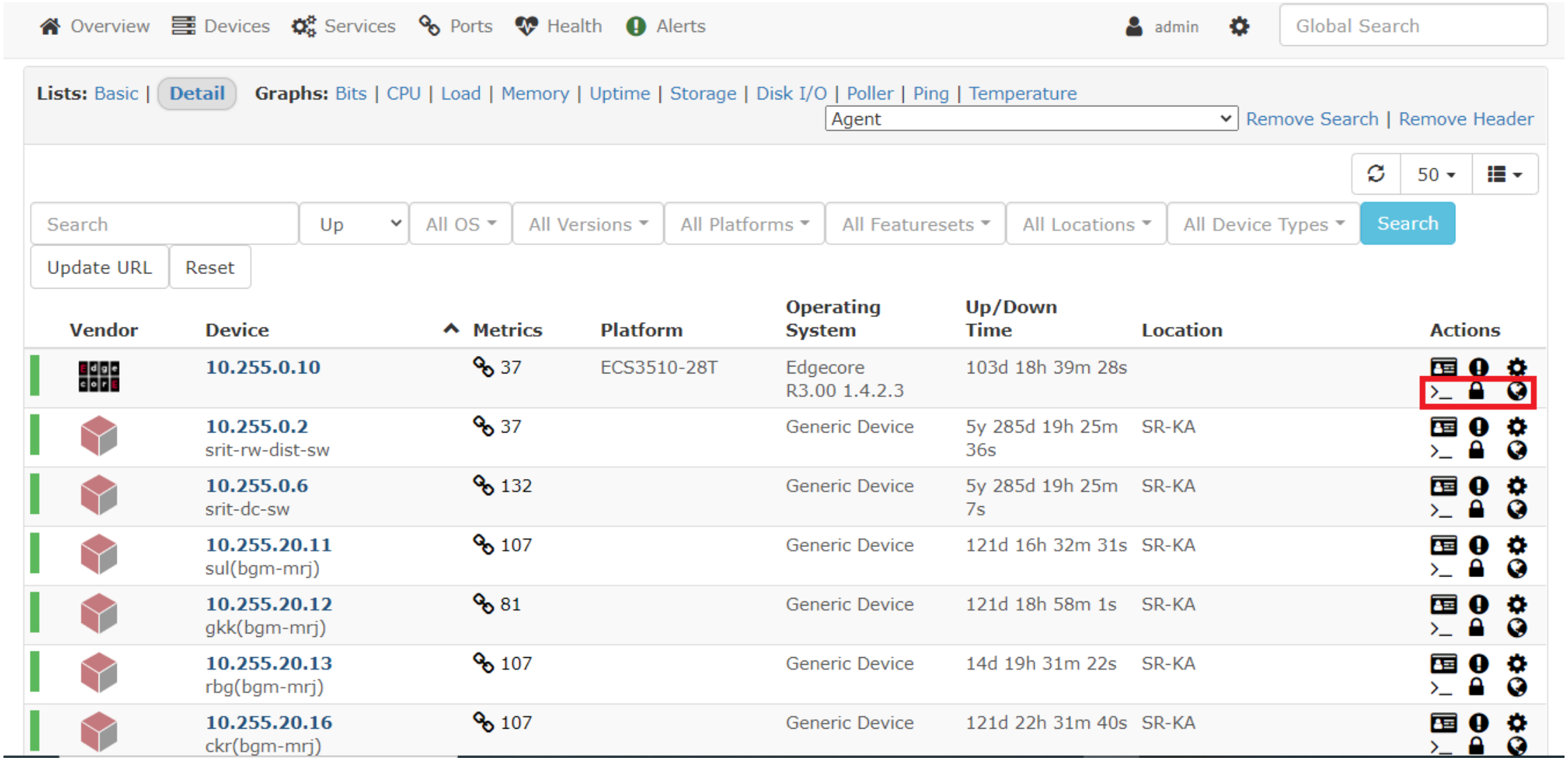
Device – wise Details



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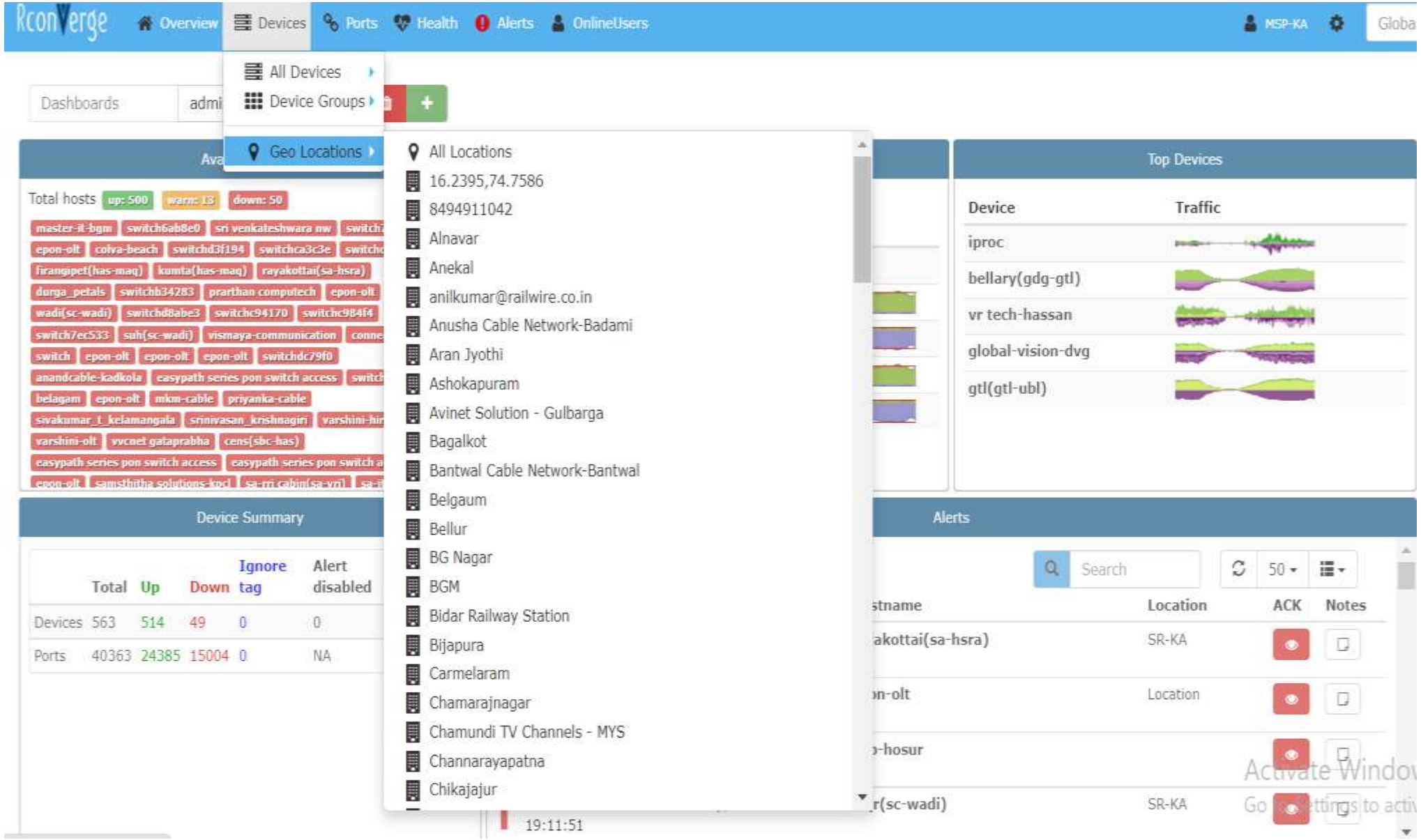
Devices Geolocation - wise



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Bandwidth utilization Dashboard

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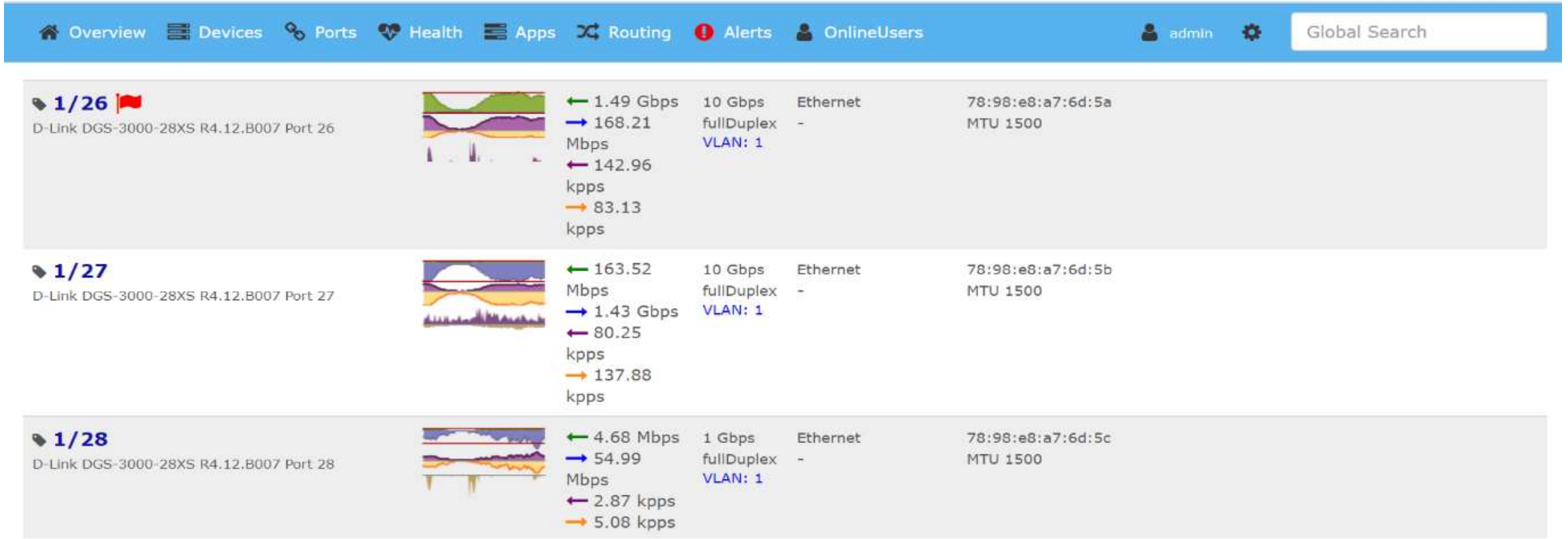
Device Port Details



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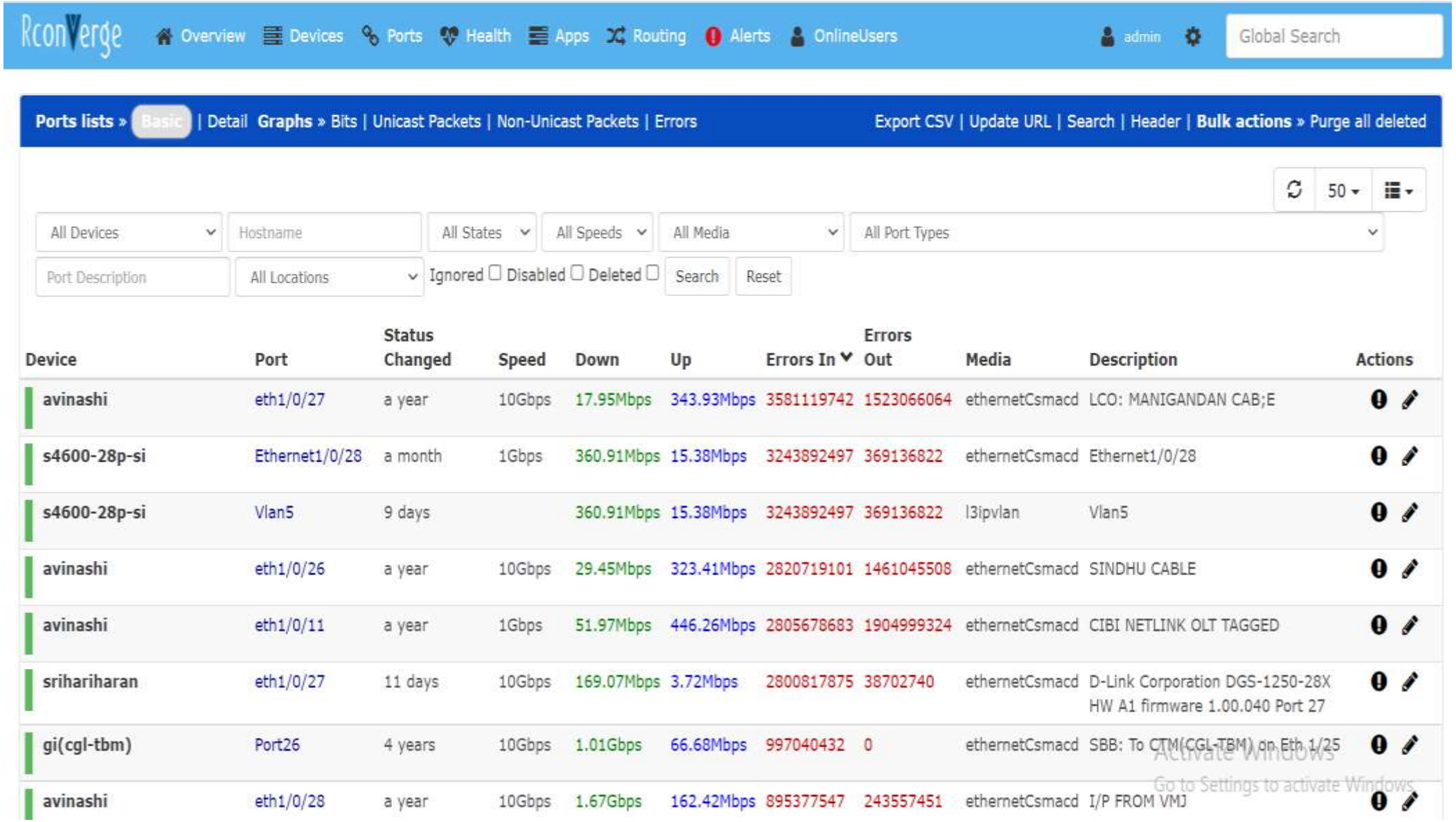
Alerts



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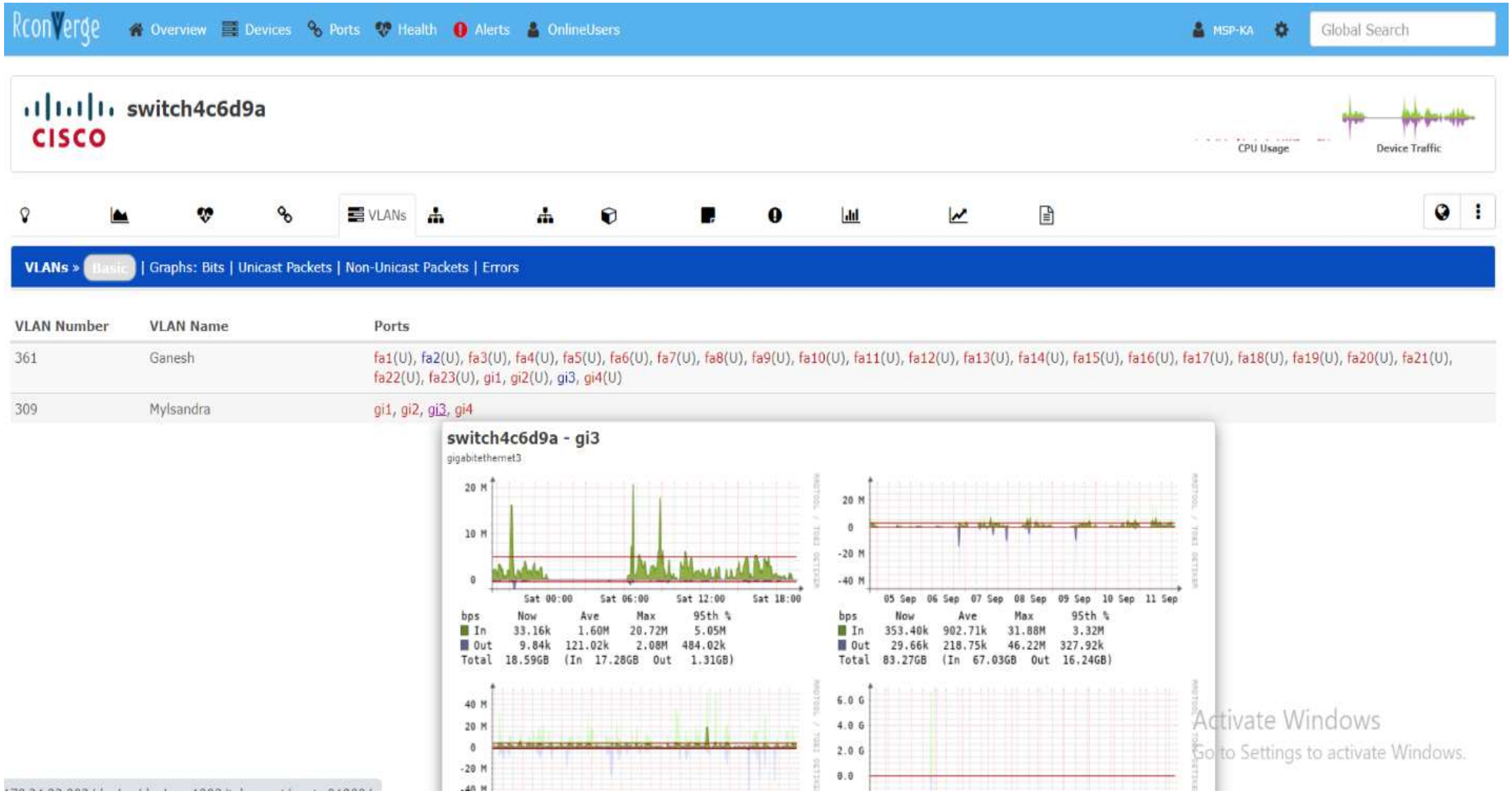
VLAN Details



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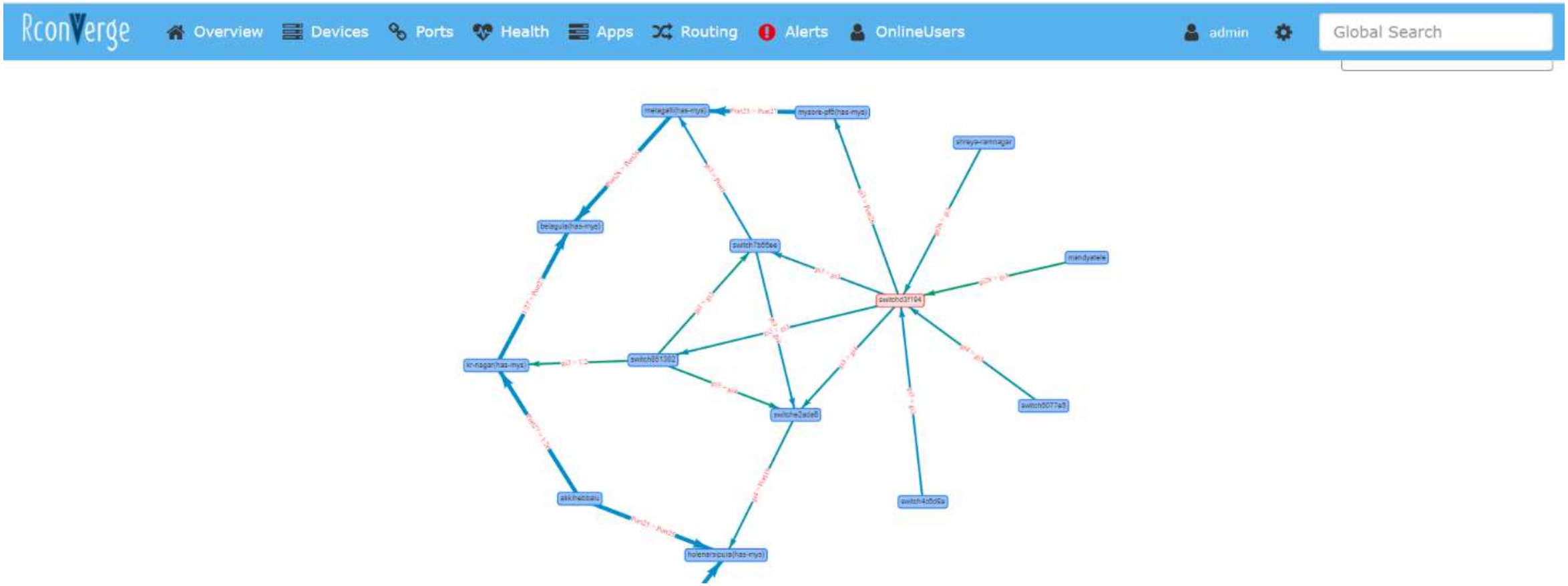
Auto Discovery of Devices



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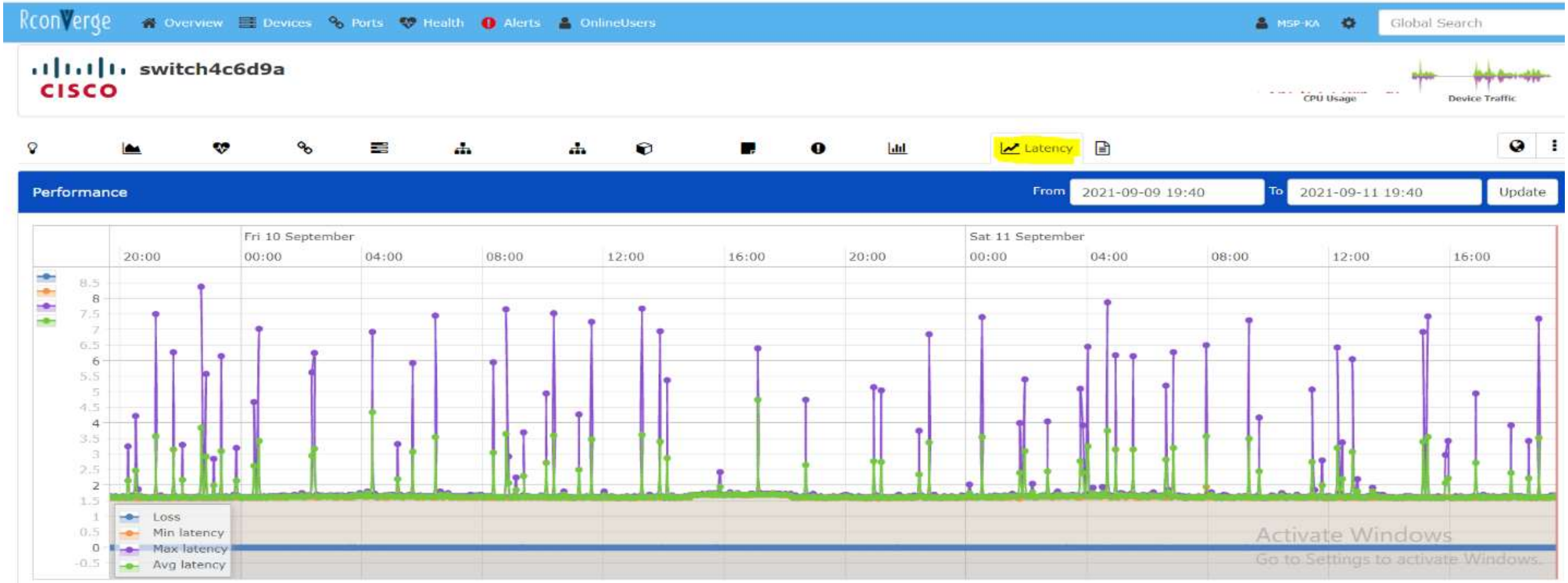
Latency & Loss



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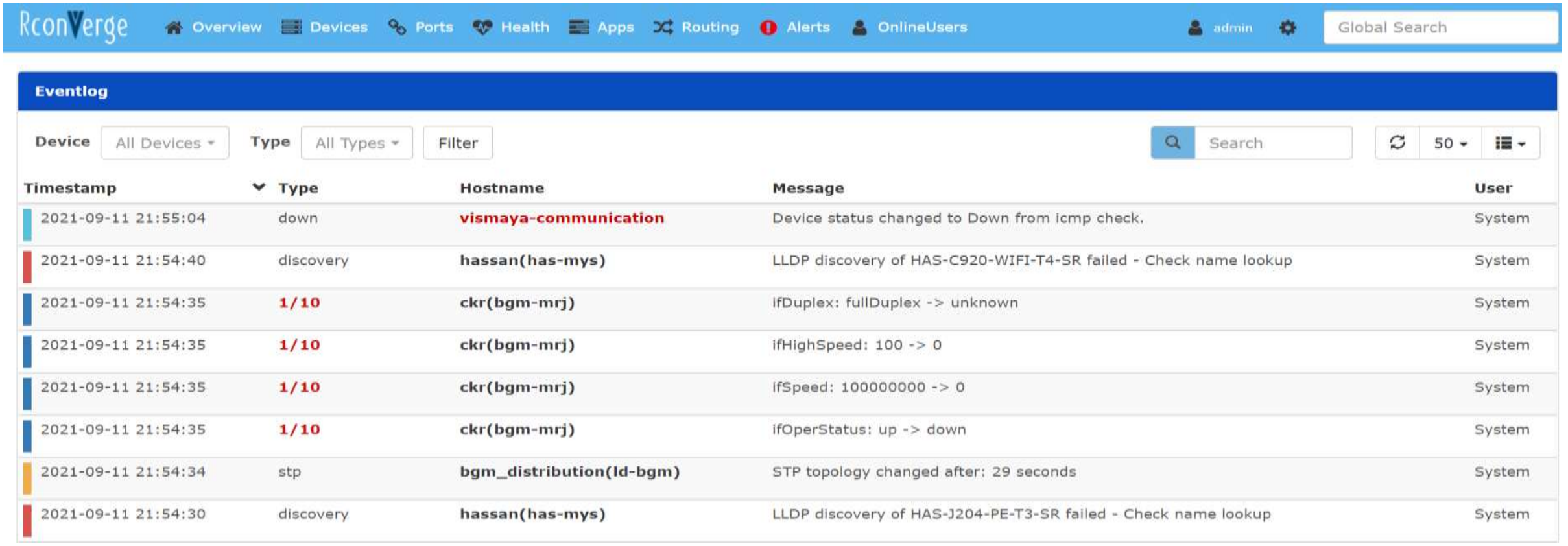
Event Logs



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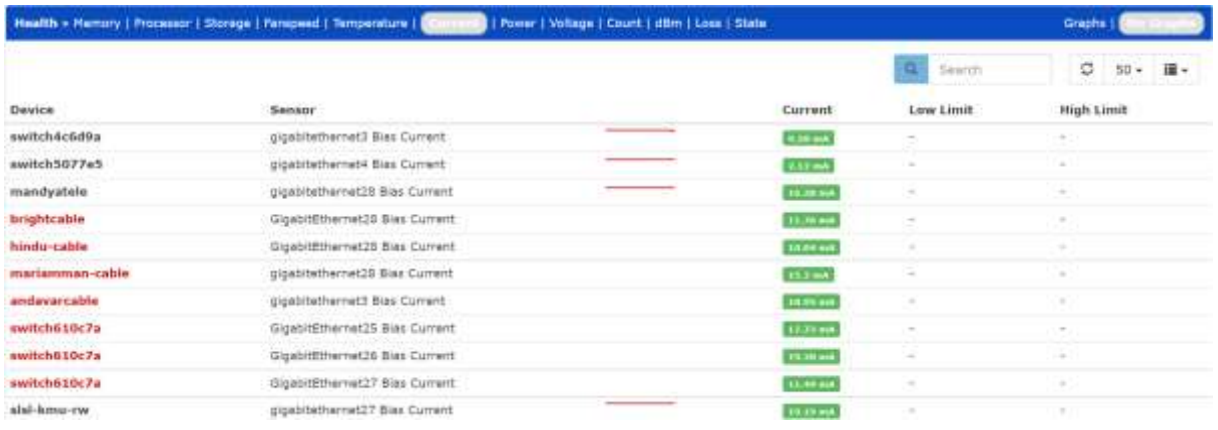
Device Health



Device	Sensor	Current	Low Limit	High Limit
switch4c6d9a	gigabitethernet3 Bias Current		-	-
switch5077e5	gigabitethernet4 Bias Current		-	-
mandyatele	gigabitethernet28 Bias Current		-	-
brightcable	GigabitEthernet28 Bias Current		-	-
hindu-cable	GigabitEthernet28 Bias Current		-	-
mariamman-cable	gigabitethernet28 Bias Current		-	-
andavarcable	gigabitethernet3 Bias Current		-	-
switch610c7a	GigabitEthernet25 Bias Current		-	-
switch610c7a	GigabitEthernet26 Bias Current		-	-
switch610c7a	GigabitEthernet27 Bias Current		-	-
slsl-kmu-rw	gigabitethernet27 Bias Current		-	-

Device	Processor	Usage
poopl2	Processor	15%
10.255.0.10	Processor	13%
railwire switch 10g	Processor	31%
durga_petals	Processor	12%
10.255.0.150	Processor	10%
t1600g-28ts	Proc #1	9%
railwirehub'	Processor	10%
railwire_distribution_switch-srit_tower	Processor	9%
10.255.0.8	Processor	10%
switch4c6d9a	CPU	1%
shreya-ramnagar	CPU	2%

Device	Memory	Used	Usage
tarsa	Memory	65 B / 100 B	65%
tptn(tpj-tdpr-vri)	Memory	65 B / 100 B	65%
xrgm(tpj-tdpr)	Memory	65 B / 100 B	65%
vldi(tpj-tdpr)	Memory	65 B / 100 B	65%
lli(tpj-tdpr)	Memory	65 B / 100 B	65%
kttr(tpj-tdpr)	Memory	65 B / 100 B	65%
pmb(tpj-tdpr)	Memory	65 B / 100 B	65%
kkpm(tpj-tdpr)	Memory	65 B / 100 B	65%
zeb-church	Memory	88 B / 100 B	88%
per(nns-ajj)	Memory	247.98 MB / 512 MB	48%
gventerprises	Memory	88 B / 100 B	88%

Device	Storage	Used	Usage
tbm_cgl-tbm-rw-sw	/dev/da0s1a, mounted on: /	111.78 MB / 182.79 MB	61%
tbm_cgl-tbm-rw-sw	/dev/da0s3d, mounted on: /var/tmp	190.67 MB / 368.86 MB	0%
tbm_cgl-tbm-rw-sw	/dev/da0s3e, mounted on: /var	5.66 MB / 122.86 MB	5%
tbm_cgl-tbm-rw-sw	/dev/da0s4d, mounted on: /config	202 kB / 61.73 MB	0%
tbm_cgl-tbm-rw-sw	/dev/md17, mounted on: /tmp	12 kB / 253.84 MB	0%
tbm_cgl-tbm-rw-sw	/dev/md18, mounted on: /var/rundb	19.97 MB / 117.08 MB	17%
lbhk_cgl_tbm_via_voda	/dev/da0s2a, mounted on: /	111.06 MB / 183.79 MB	60%
lbhk_cgl_tbm_via_voda	/dev/da0s3d, mounted on: /var/tmp	119.17 MB / 368.86 MB	32%
lbhk_cgl_tbm_via_voda	/dev/da0s3e, mounted on: /var	4.18 MB / 122.86 MB	3%
lbhk_cgl_tbm_via_voda	/dev/da0s4d, mounted on: /config	184 kB / 61.73 MB	0%
lbhk_cgl_tbm_via_voda	/dev/md17, mounted on: /tmp	12 kB / 253.84 MB	0%
lbhk_cgl_tbm_via_voda	/dev/md18, mounted on: /var/rundb	19.95 MB / 117.08 MB	17%

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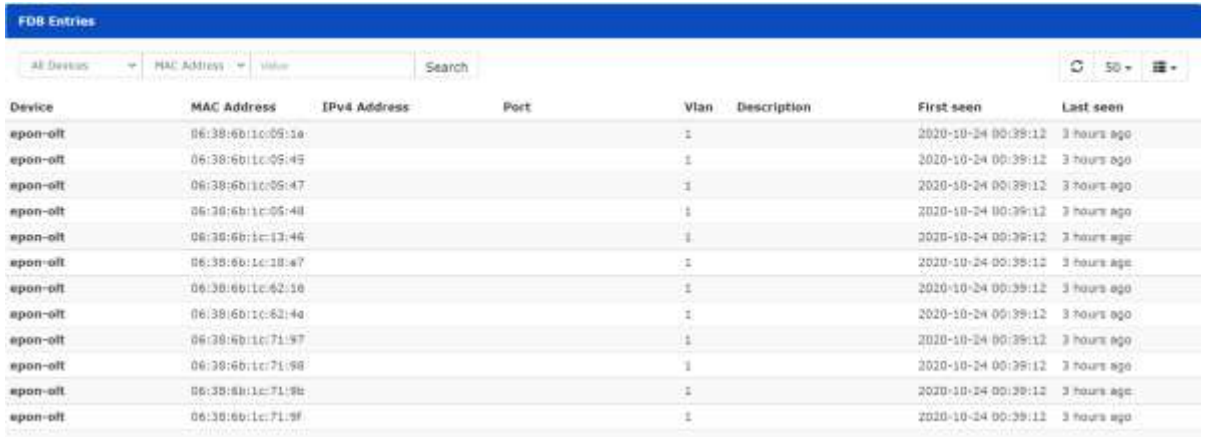
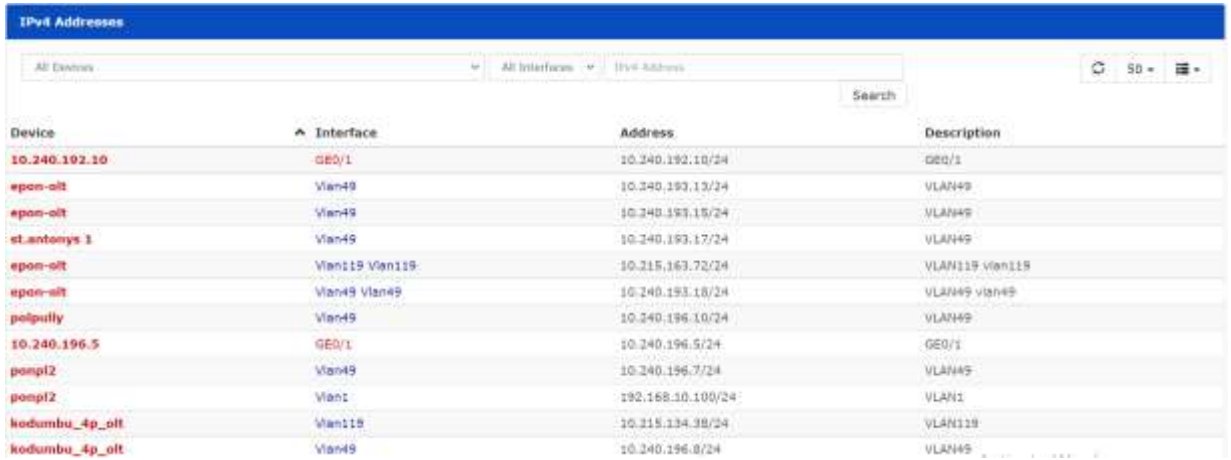
MAC, IP and FDB Tables





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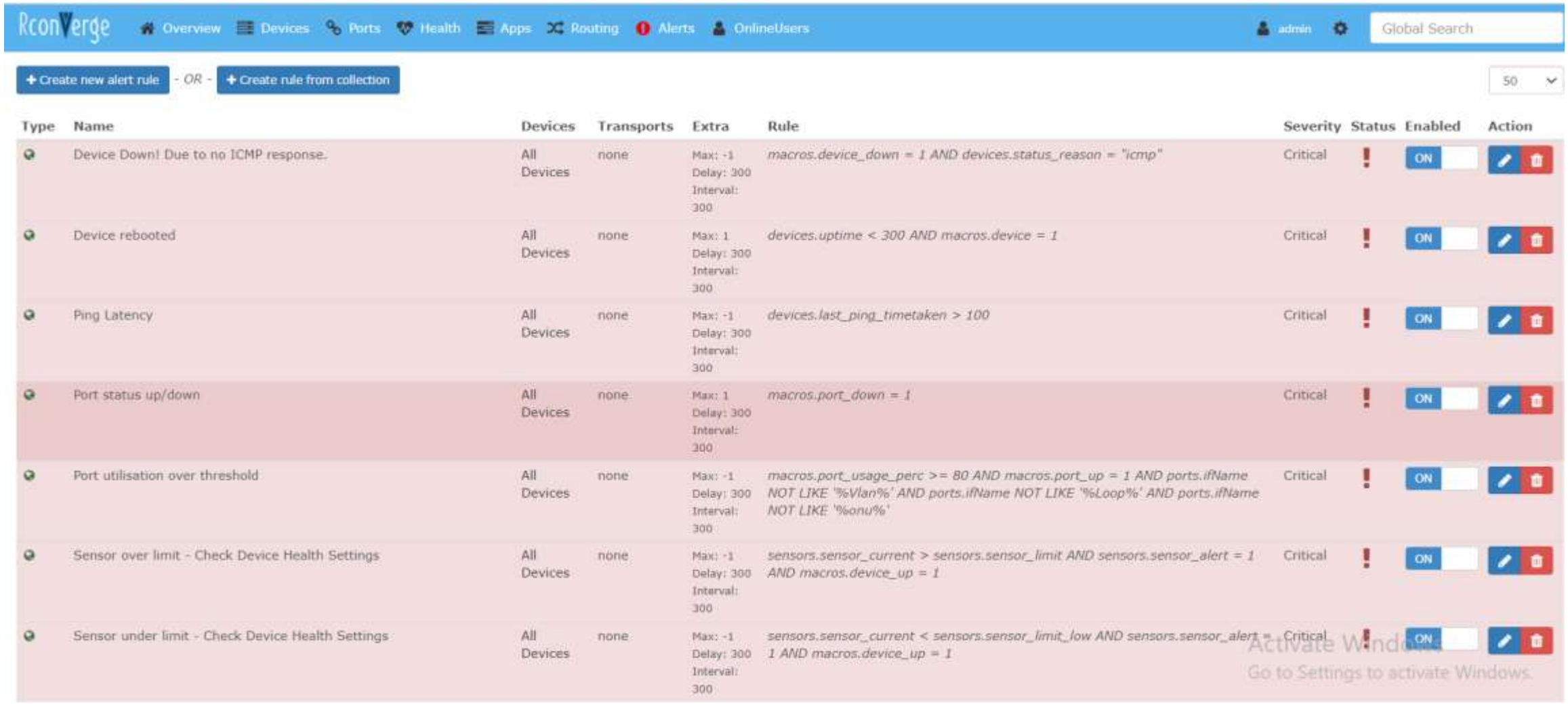
Threshold Alerts



Type	Name	Devices	Transports	Extra	Rule	Severity	Status	Enabled	Action
	Device Down! Due to no ICMP response.	All Devices	none	Max: -1 Delay: 300 Interval: 300	*macros.device_down = 1 AND devices.status_reason = "icmp"*	Critical		ON	
	Device rebooted	All Devices	none	Max: 1 Delay: 300 Interval: 300	*devices.uptime < 300 AND macros.device = 1*	Critical		ON	
	Ping Latency	All Devices	none	Max: -1 Delay: 300 Interval: 300	*devices.last_ping_timetaken > 100*	Critical		ON	
	Port status up/down	All Devices	none	Max: 1 Delay: 300 Interval: 300	*macros.port_down = 1*	Critical		ON	
	Port utilisation over threshold	All Devices	none	Max: -1 Delay: 300 Interval: 300	*macros.port_usage_perc >= 80 AND macros.port_up = 1 AND ports.ifName NOT LIKE '%Vlan%' AND ports.ifName NOT LIKE '%Loop%' AND ports.ifName NOT LIKE '%onu%'*	Critical		ON	
	Sensor over limit - Check Device Health Settings	All Devices	none	Max: -1 Delay: 300 Interval: 300	*sensors.sensor_current > sensors.sensor_limit AND sensors.sensor_alert = 1 AND macros.device_up = 1*	Critical		ON	
	Sensor under limit - Check Device Health Settings	All Devices	none	Max: -1 Delay: 300 Interval: 300	*sensors.sensor_current < sensors.sensor_limit_low AND sensors.sensor_alert = 1 AND macros.device_up = 1*	Critical		ON	

Activate Windows
Go to Settings to activate Windows.

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Auto Configuration Server

Active status of CPE	Details of CPE	WAN interface configuration
Connected devices from CPE	Customer analytics	Wi-Fi interface configuration
Remote speed test	Remote ping test	Trace route

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Devices Details

Devices

Advanced Search Open/Close

Status: Online | Serial No | Username | PON Rx - Low | Reported Time - From | Registered Time - From

MAC Address | Manufacturer | Model Name | PON Rx - High | Reported Time - To | Registered Time - To

Clear Search

Show 100 entries

Showing 1 to 28 of 28 entries Previous 1 Next

ID	Model name	Mac Address	Username	PON Rx dbm	Status	Wan Type	Last Reported	Registered	Last Reset	Last Reboot
80071B-DG%2DGR6821AC-000000000002	DG-GR6821AC	80:07:1b:eb:12:c1	ka.dr.mohan	285		PPPoE	2023-09-29 12:03:59	2023-09-23 14:16:41	2023-09-23 17:53:57	2023-09-28 21:30:49
70B64F-DG%2DGR1321-F324270B64F1436C8	DG-GR1321	70:b6:4f:14:36:cd	ka.suvasish.23	-30		PPPoE	2023-09-29 12:03:54	2023-09-23 18:14:31	2023-09-23 18:14:31	2023-09-29 10:31:37
230306-XPON%20ONU-FT23F1A00136	XPON ONU	B4:28:75:03:9D:52		60		Static	2023-09-29 12:03:52	2023-03-31 11:23:46	2023-03-31 11:23:46	2023-09-26 22:38:50
70B64F-DG%2DGR1321-F324270B64F14667A	DG-GR1321	70:b6:4f:14:66:7f	ka.chethan.20	-19		PPPoE	2023-09-29 12:03:50	2023-09-25 11:27:08	2023-09-25 11:27:08	2023-09-25 18:49:54

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Active Devices Status

ID	Model name	Mac Address	Username	PON Rx dbm	Status	Wan Type	Last Reported	Registered	Last Reset	Last Reboot	Actions
70B64F-DG%2DGR1321-F324270B64F146690	DG-GR1321	70:b6:4f:14:66:95	ka.ramesh.23	-26	●	PPPoE	2023-09-25 12:03:16	2023-09-23 18:09:46	2023-09-23 18:09:46	2023-09-25 10:51:18	
70B64F-DG%2DGR1321-F324270B64F1436A7	DG-GR1321	70:b6:4f:14:36:ac	ka.ka.rashmi.23	-25	●	PPPoE	2023-09-25 12:03:06	2023-09-23 18:33:27	2023-09-23 18:33:27	2023-09-23 18:33:27	
906717-ASEE%2D1444-000000000002	Subscriber End Equipment	90:67:17:48:4d:b7	ka.rakesh.kr	Unspecified	●	PPPoE	2023-09-25 12:03:01	2023-06-28 15:08:46	2023-09-23 13:13:59	2023-09-23 18:34:31	
70B64F-DG%2DGR1321-F324270B64F14FA8C	DG-GR1321	70:b6:4f:14:fa:91	ka.ramya.d	-28	●	PPPoE	2023-09-25 12:03:00	2023-09-23 16:31:59	2023-09-23 16:31:59	2023-09-25 07:21:17	

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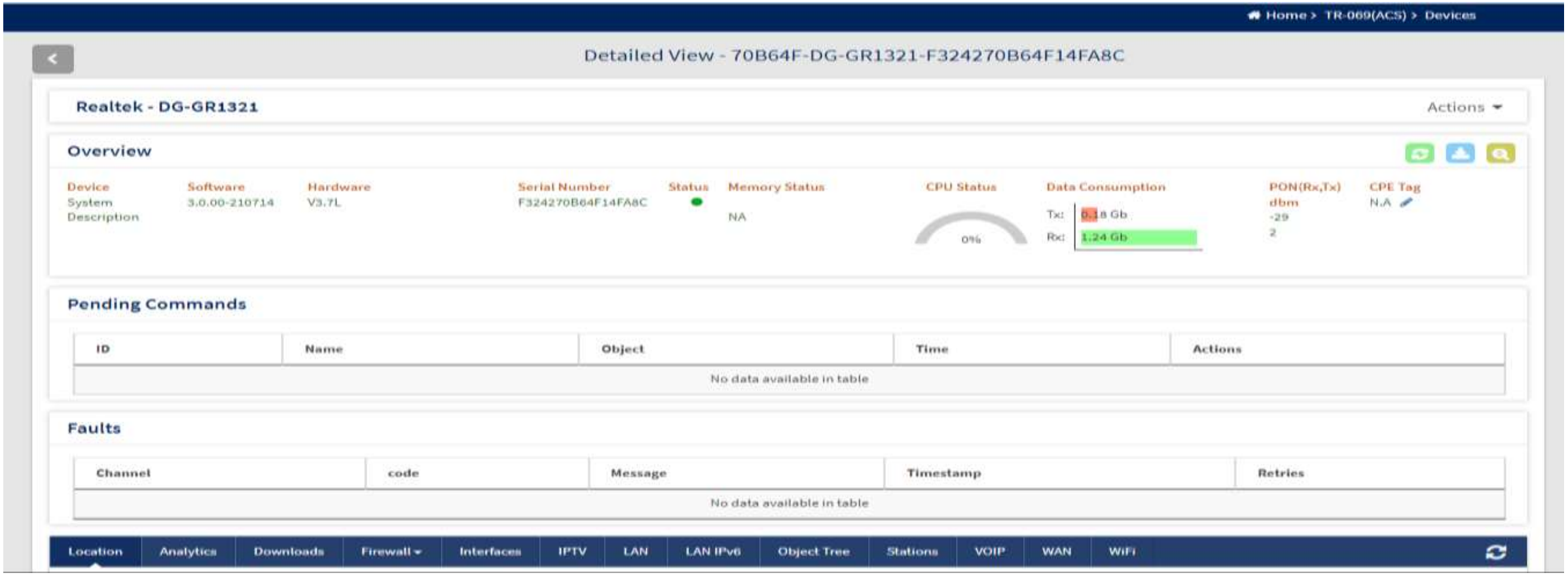
Detailed View of Customer



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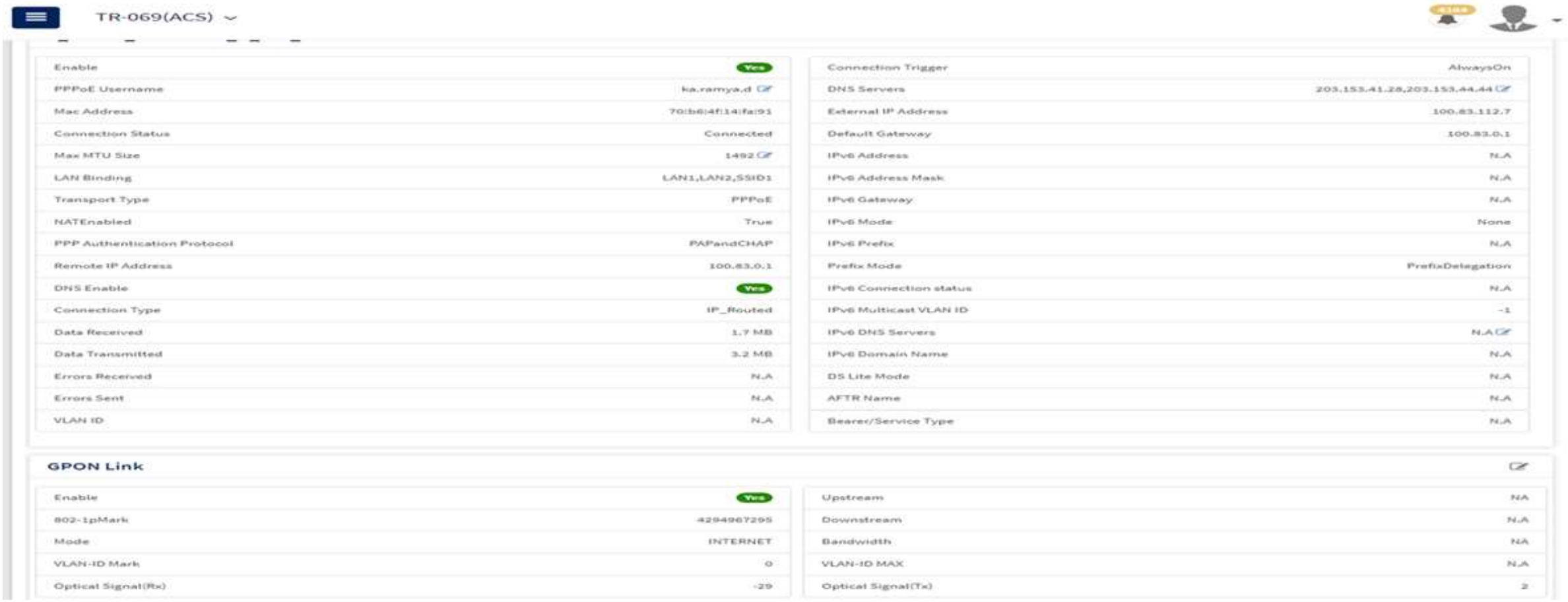
Customer WAN Interface Configuration



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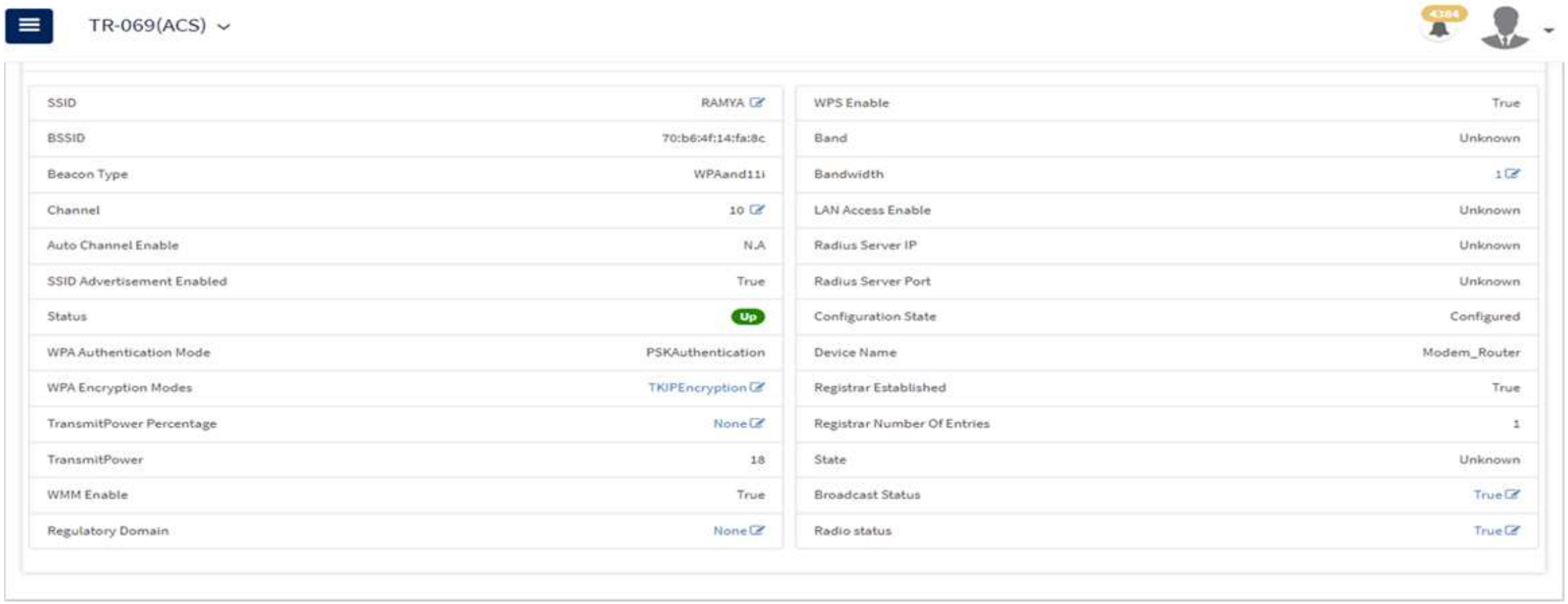
Wi-Fi Interface and Configuration



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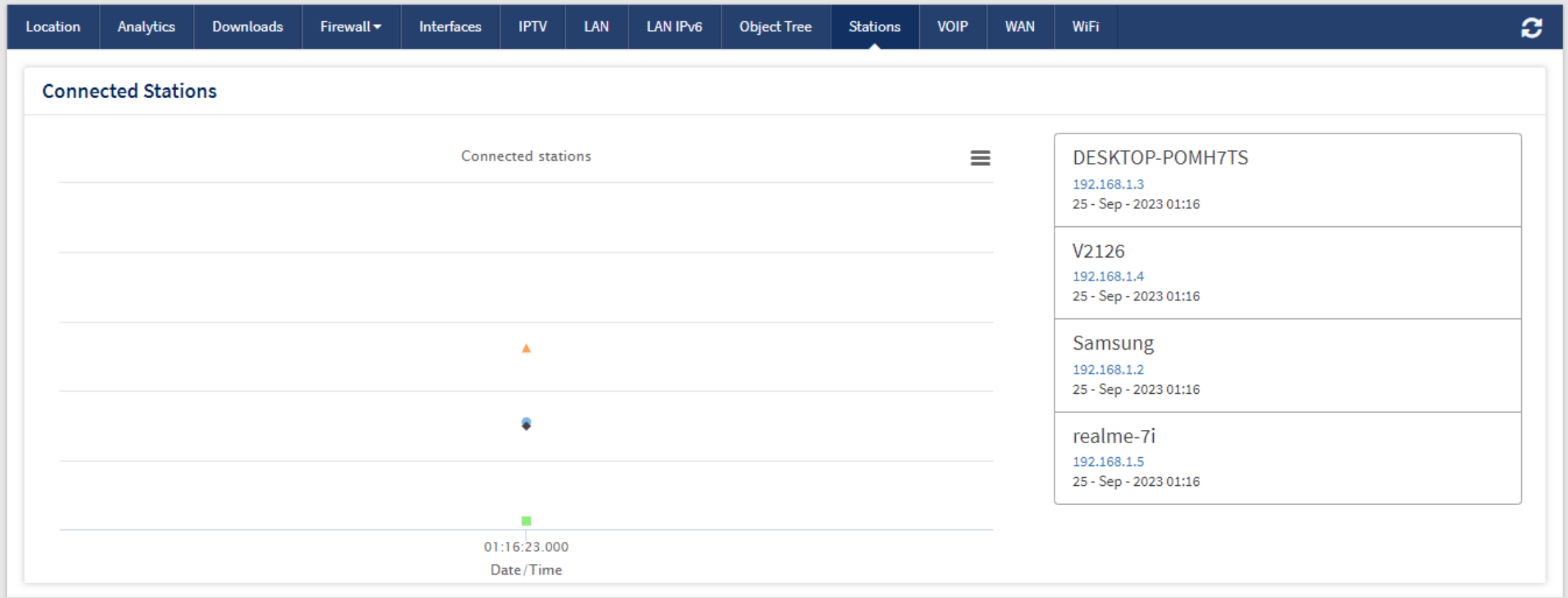
Connected Devices In Customer Premises Equipment



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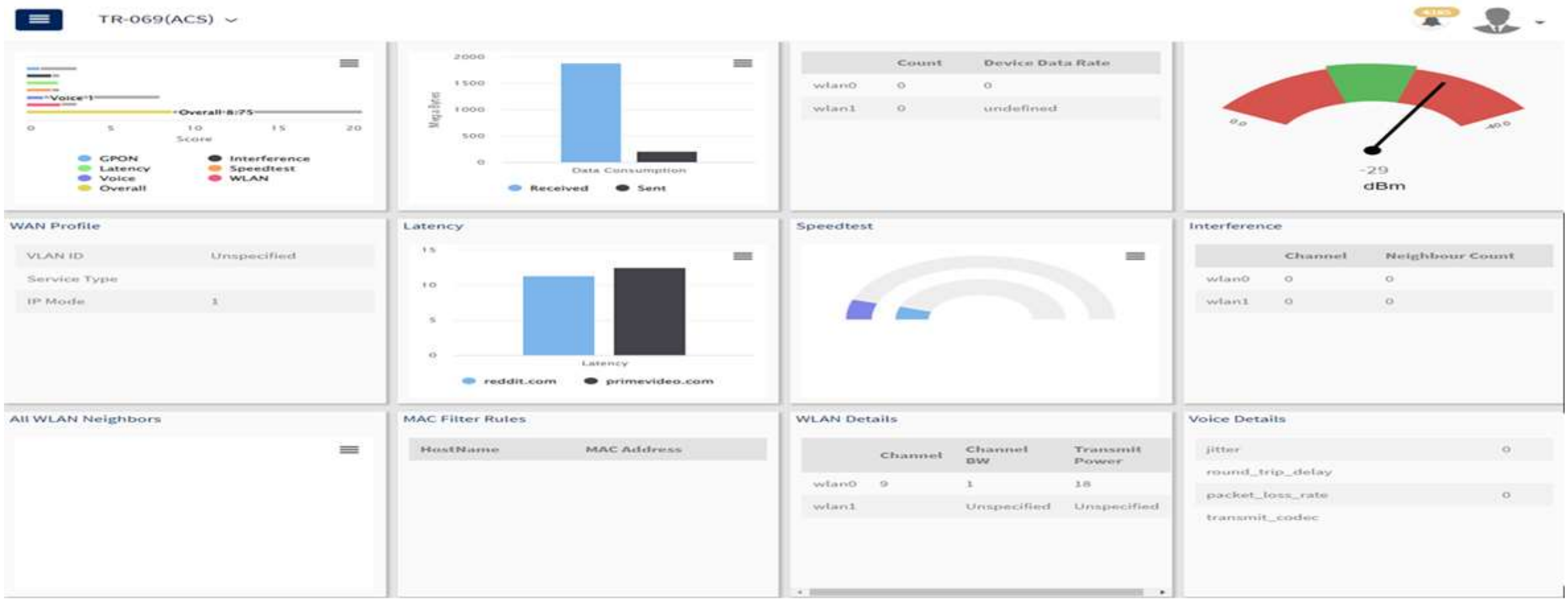
Customer Analytics



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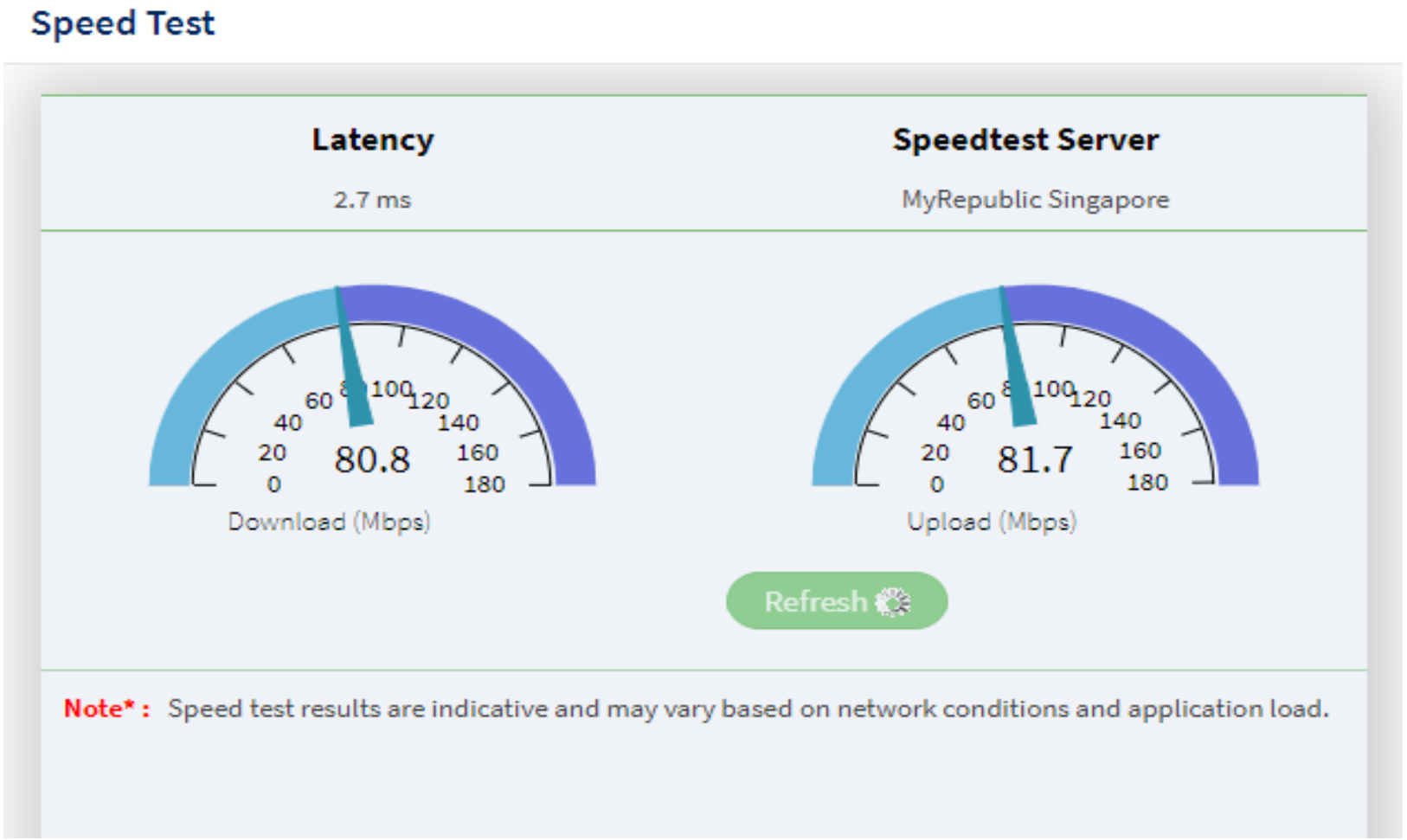
Speed Test



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Ping Test

Ping Result

```
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=115 time=9.04 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=115 time=9.37 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=115 time=14.09 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=115 time=11.19 ms

--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss,
Ping RTT Description = 0
count 4.0
mean 10.9
std 2.3
min 9.0
25% 9.3
50% 10.3
75% 11.9
max 14.1 ms
```

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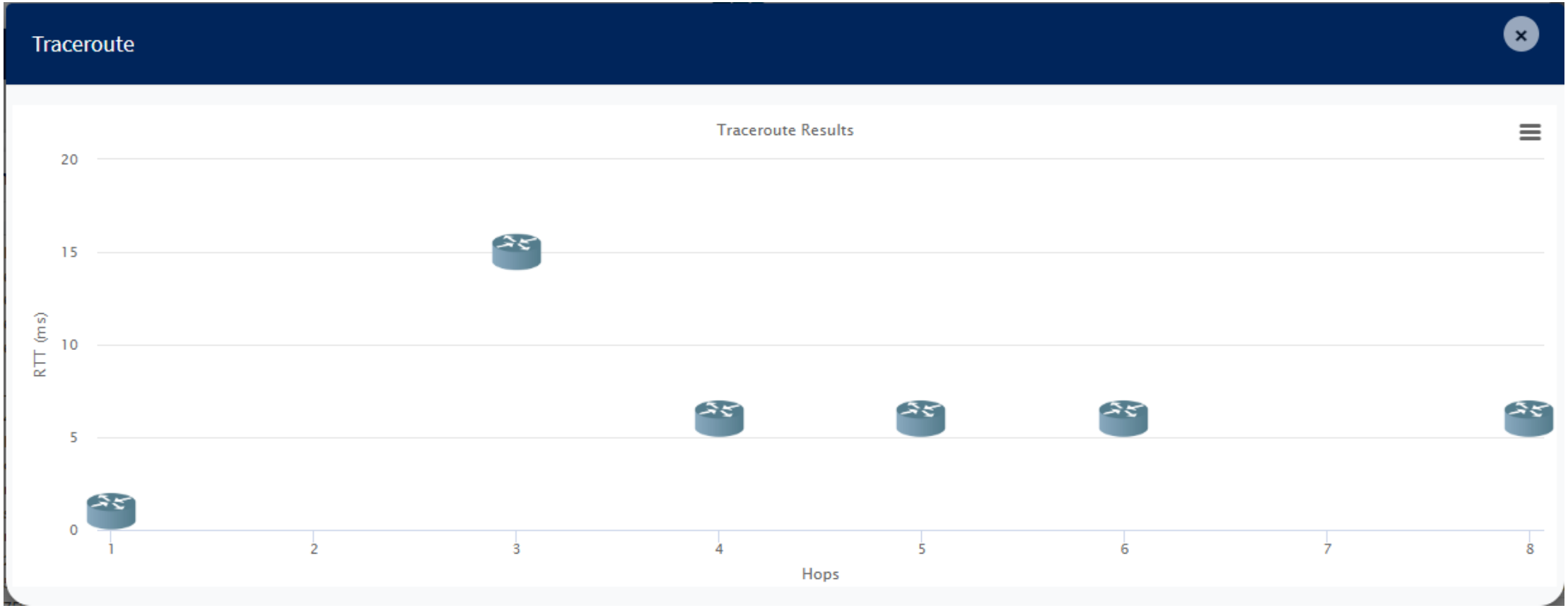
Traceroute



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SRIT IPDP

info@sritindia.com

Solution Brief

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