

iNAV-Data Center Infrastructure Management Solution

End-to-end Solution for Imperative Infrastructure Management

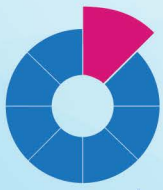


Today, data center infrastructure is the critical environment for evolving IT development. Managing these infrastructures in a unified approach can fully address the need for availability, security, efficiency, and integration.

iNAV-Newtech DCIM solution specializes in providing flexible platforms, automatic reporting systems and effective communication channels with 3D visualization of assets, facilities, and environment.

Based on the iNAV Eight-function Module overseeing both IT and physical infrastructure management, the data center manager can run a flexible, well balanced, optimized and efficient data center.

Overcome the strict demands and complexities, manage your data center life cycle in one click!



Asset Management

- Exclusive 3D view of data center and IT equipment
- Equipment allocation and utilization
 - Highly visible with brand, model, hostname and operation system
- Simplify online inventory stock taking
- Intelligent Smart Rack Tag
 - Monitoring U-level asset inventory and unauthorized changes

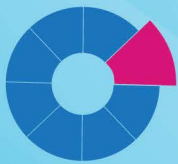


U Level Real-time Assets Management

— The Management Revolution

- RU Intelligent Module**
 - Adaptive to any height of rack
 - 100% Data Accuracy
 - On line and Offline Automated Management
- Asset Tag**
 - US Patented MC-RFID Technology
 - Unique QR code
 - 1 KB Memory for asset info

- ▶ Real-time Physical Asset Monitoring
- ▶ Maximizes RU Utilization Rate Increased by 10-20%
- ▶ Increases Asset Audit Efficiency by 1,000 times+



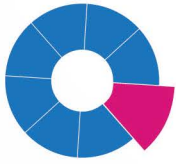
Rack Capacity Management

- Top viewing of each rack power usage and space usage including historical usage supports

Asset Management

Room: DATA CENTER View By: CAPACITY USAGE

Attribute	Value
Change Type	Modify
Client	OA Cloud for ETP
Hostname	OASVR
Location	Data Center: ETP01-A10, 5
Model	Compellent SC8000
Image	
Unit Size	4
Operating System	Windows Server 2012 R2
Description	
IP Port 1	172.23.5.72
IP Port 2	172.23.5.74
IP Port 3	172.23.5.75
IP Port 4	172.23.5.78
Power	220
Comment	
Request User	
Update Date	
Status	available



Change Management

- Built-in Change Management process for handline equipment move-in or move-out
- Automated action in updating asset inventory record

Submit

Approve

Action

NEW TICKET

Item 1

Step 1: Choose Type: **Modify**

Step 2: Rack Select:

Data Center: ETP01-A10, 34

Step 3: Fill information

Attribute	New Value	Existing Value
Change Type	Modify	Modify
Client	HKABC	HKABC
Hostname	TDCSVR	TDCSVR
Location	Data Center: ETP01-A10, 34	Data Center: ETP01-A10, 34
Model	Compaq SC220	Compaq SC220
Image		
Unit Size	2	2
Operating System	Window 2012	Window 2012
Description		
IP Port 1	172.98.23.211	172.98.23.211
IP Port 2	172.98.23.212	172.98.23.212
IP Port 3	172.98.23.213	172.98.23.213
IP Port 4	172.98.23.214	172.98.23.214
Power	500	500
Comment		
Request User		
Update Date		

Item 2

Step 1: Choose Type: **Move Out**

Step 2: Rack Select:

Data Center: ETP01-ET14, 39

Step 3: Fill information

Attribute	Value
Change Type	Move In
Client	HKCAD
Hostname	
Location	Data Center: ETP01-ET14, 39
Model	Dell C
Image	
Unit Size	3
Operating System	
Description	
IP Port 1	
IP Port 2	
IP Port 3	
IP Port 4	
Power	
Comment	
Request User	
Update Date	

Item 3

Step 1: Choose Type: **Move In**

Step 2: Rack Select:

Step 3: Fill information

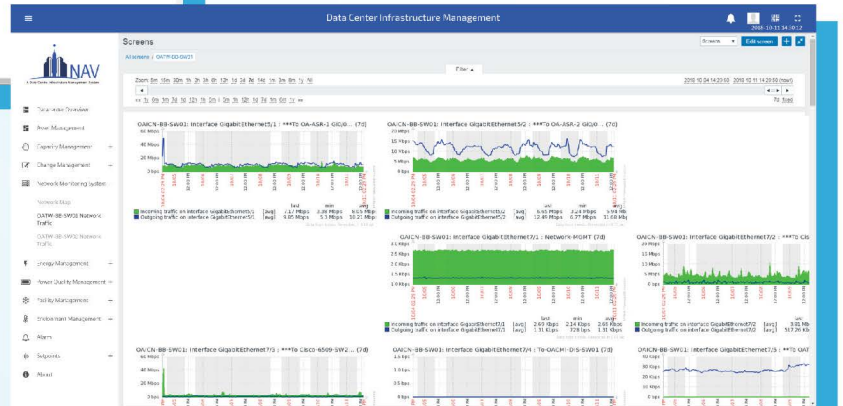
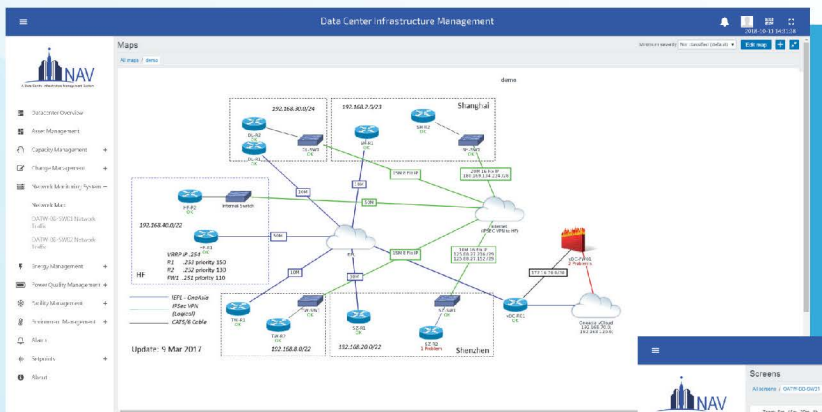
Attribute	Value
Change Type	Move In
Client	
Hostname	
Location	Data Center: ETP01-ET15, 39
Model	Check Point 4200
Image	
Unit Size	1
Operating System	
Description	
IP Port 1	
IP Port 2	
IP Port 3	
IP Port 4	
Power	
Comment	
Request User	
Update Date	

Ticket System No. _____ Target Date _____ Ticket Remark _____



Network Management

- Comprehensive dashboard with network topology sitemap
- Monitoring network traffic utilization, packet loss, and latency





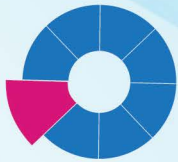
Energy Management

- Verifiable real-time monitoring
- Branch Circuit Monitoring system (BCM)
 - Identifying problems, avoid branch circuit overloading
- Power Usage Effectiveness (PUE)
 - Consumed power allocation

Data Center Infrastructure Management

PPC-D1 BCM-B, 15L1 ~ 28L3

Rack	Trip Enable	Max(A)	Overload(%)	Limit(A)	Reading(A)	kWh	Phase	Way	Way	Phase	kWh	Reading(A)	Limit(A)	Overload(%)	Max(A)	Trip Enable	Rack
ETP01-D02	<input type="checkbox"/>	13A	90%	11.7A	1.50A	124124kWh	L1		2	L1	124124kWh	4.20A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D05
ETP01-D03	<input type="checkbox"/>	13A	90%	11.7A	3.70A	352135kWh	L2	1		L2	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D06
ETP01-D04	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L3			L3	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D07
ETP01-D08	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L1			L1	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D11
ETP01-D09	<input type="checkbox"/>	13A	90%	11.7A	5.16A	93843kWh	L2	3	4	L2	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D12
ETP01-D10	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L3			L3	1251512kWh	1.40A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D13
ETP01-D14	<input type="checkbox"/>	13A	90%	11.7A	1.20A	124214kWh	L1		6	L1	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E04
ETP01-E02	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L2	5		L2	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E05
ETP01-E03	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L3			L3	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E08
ETP01-E07	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L1		8	L1	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E10
ETP01-E08	<input type="checkbox"/>	13A	90%	11.7A	2.16A	3255kWh	L2	7		L2	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E11
ETP01-E09	<input type="checkbox"/>	13A	90%	11.7A	2.30A	255559kWh	L3			L3	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E12
ETP01-E13	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L1		10	L1	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-E01
ETP01-E14	<input type="checkbox"/>	13A	90%	11.7A	0.00A	0kWh	L2	9		L2	0kWh	0.00A	11.7A	90%	13A	<input type="checkbox"/>	ETP01-D01
	<input type="checkbox"/>	13A	90%	11.7A	5.40A	124124kWh	L1									<input type="checkbox"/>	
	<input type="checkbox"/>	13A	90%	11.7A	5.10A	742kWh	L2	11								<input type="checkbox"/>	
	<input type="checkbox"/>	13A	90%	11.7A	4.70A	124125kWh	L3									<input type="checkbox"/>	



Power Quality Management

- Electrical systems real-time monitoring of power usage
 - UPS, switchboard, power network analyzer
- Generating an environmentally friendly power management

Data Center Infrastructure Management

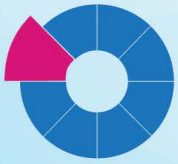
UNINTERRUPTIBLE POWER SUPPLY (UPS)

UPS L21-01

Common Alarm	Input Voltage L1	222.5 V
Main Power Failure Alarm	Input Voltage L2	223.1 V
Battery Discharge Alarm	Input Voltage L3	222.2 V
Battery Status Low Alarm	Output Voltage L1	220.5 V
Bypass Output Alarm	Output Voltage L2	220.1 V
	Output Voltage L3	220.2 V
	Output Current L1	14.5 A
	Output Current L2	17 A
	Output Current L3	18.2 A
	Output Frequency	50.01 HZ

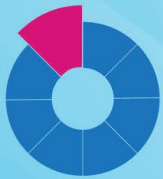
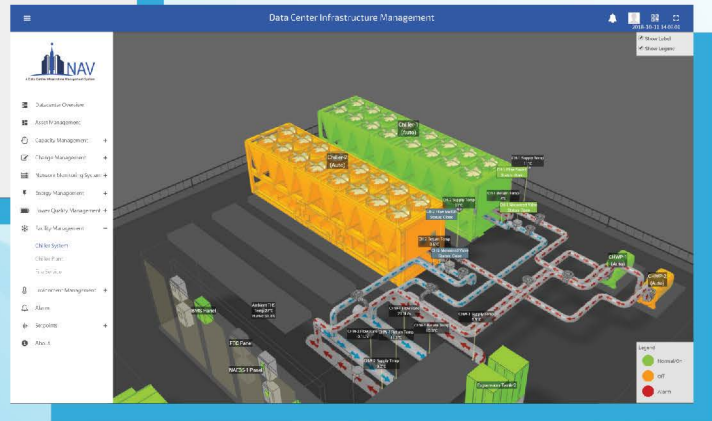
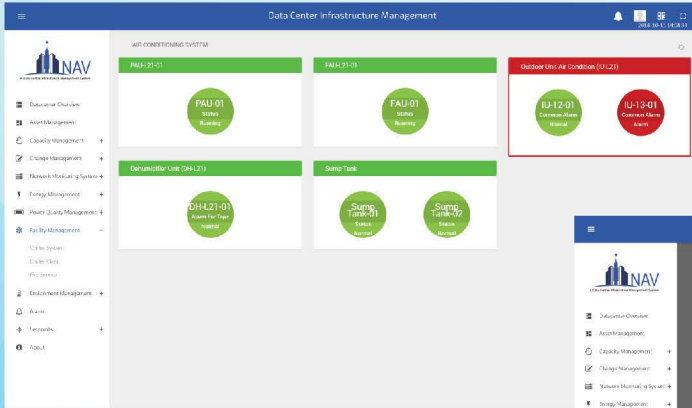
UPS

- UPS-01 Common Alarm Normal
- UPS-02 Common Alarm Normal
- UPS-03 Common Alarm Normal



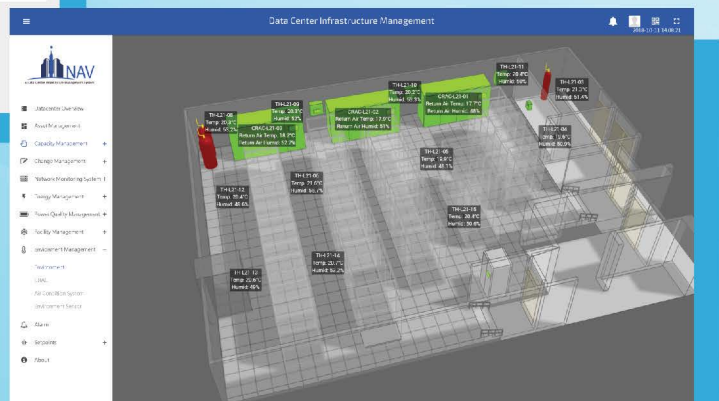
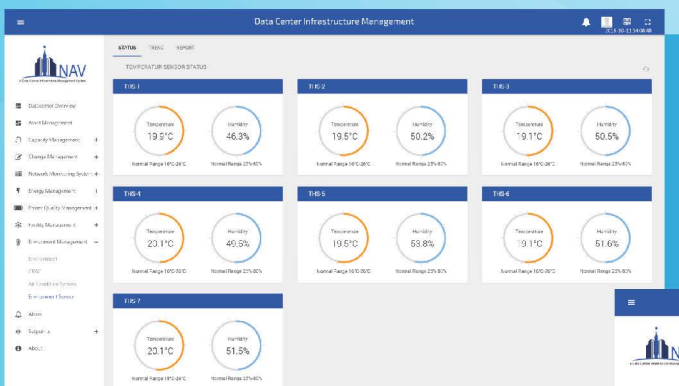
Main Plant Management

- E&M facility's monitoring
 - Chiller operating status with alerts
- Centralized facility healthiness and alerts in a dashboard
 - Handling the chiller system and flow switch, CRAC, PAU and AHU status



Environment Management

- Real-time monitoring of the data center environment
 - Room temperature, humidity and CRAC status
- Centralized the environment healthiness and alerts with temperature and humidity status





**Keep Track
in One Click**



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