# iNAV DCIM Solution-The Best Utilization of Data Center Resources in One Portal



**Cutting-edge DCIM Technology to Maximize Your Critical Resources** 

Keep Track in One Click



### **End-to-end Solution for Imperative Infrastructure Management**

Seeking ways to save budget and manpower on managing data centers? Today, data center infrastructure is a critical environment for evolving IT development. Managing it in a unified approach can fully address the need for availability, security, efficiency, and integration.

Conceptually, iNAV DCIM is a turnkey solution for data center implementation, monitoring, and management. This intelligent solution specializes in providing flexible platforms, automatic reporting systems and effective communication channels with 3D visualization of assets, facilities, and the environment.

Based on the eight modules, iNAV is an integrated software application to oversee both IT and physical infrastructure management. With iNAV's help, the data center manager can run a flexible, well balanced, optimized and efficient data center in one click.





## How can iNAV DCIM meet today's challenge in Data Center Management?

iNAV DCIM tools monitor, measure, manage and/or control data center resources and energy consumption of both IT-related equipment and facilities infrastructure components. Rather than the general building management system (BMS) tools, it is data-center-specific.



### Facilitate Critical Equipment Control

To optimize data center power, cooling and physical space, solutions have to be designed to accommodate real-time power, temperature, and environmental monitoring. The solutions must also support resource management, including the location and inter-relationships between assets.



### Strengthen Analytical Management

Additionally, iNAV DCIM tools have reporting and visualization capabilities. These are necessary to analyze the data collected for data center operators, facility, and operation managers. iNAV DCIM solution also include functions such as performance analysis, environmental monitoring, workflow management, IT asset monitoring, and resources control.

## **Newtech-The Pioneer Builder of Critical Environments**

Since 1992, Newtech has been one of the market leaders in facility management and IT infrastructure for critical environments with consultancy services, design, implementation and project/system management.

Headquartered in Hong Kong, Newtech has developed across Greater China and the Asia Pacific region, including Beijing, Shanghai, Guangzhou, Shenzhen, Singapore, Malaysia, and Vietnam.

#### **Our Objective**

Newtech strives to provide state-of-the-art technology, innovative design and build, and IT management platform for data centers. We aim at providing flexible modular design, zero latency, and significant energy efficiency, giving our customers peace-of-mind in managing all critical environments.



### **Peace-of-mind iNAV DCIM Solution**

Enable continuous optimization of data center power, cooling, and physical space usage. This can help defer

Integrates IT and facility management of a data center. This helps bridge the gap between the IT and facility

Achieves greater energy efficiency. Energy cost savings alone are often enough to justify the purchase of

## **iNAV DCIM Solution Architecture**

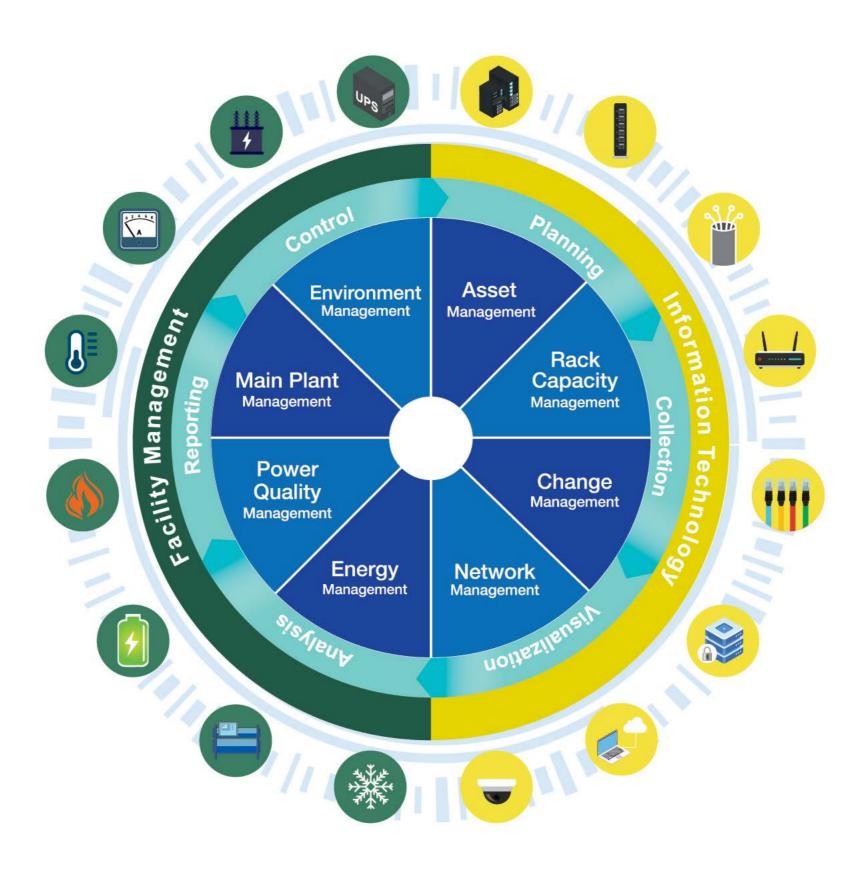


Newtech's proprietary iNAV DCIM solution architecture is composed of eight modules. Each module has a particular architecture in the DCIM domain.

The eight modules work together seamlessly to support the required equipment provisioning, resources optimization, asset remediation, and workflow documentation of the data center.

iNAV DCIM solution coordinates and consolidates both IT and facility management constantly to maintain a delicate balance of computing supply with the ever-changing demand. Thus, data center infrastructure management is predictable to IT service management, business intelligence, and financing sectors.



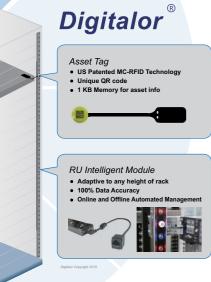






A Data Center Infrastructure Management Syst

### Asset Management



U Level Real-time Asset Management-The Management Revolution

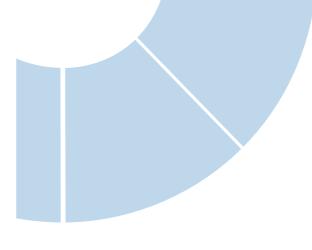
- Real-time Physical Asset Monitoring
- Maximizes RU Utilization Rate Increased by 10-20%
- Increases Asset Audit Efficiency by 1,000 times+

#### An overall asset/inventory management of data center operations, this module contains a high fidelity 3D visual of every device's location and placement. It can easily search and reserve space, power, and network connectivity for all IT assets.

Also, you can quickly locate server details, network, asset attributes, and storage equipment across the entire infrastructure, equipped with Digitalor, it delivers real-time and automatic physical asset monitoring on IT equipment.

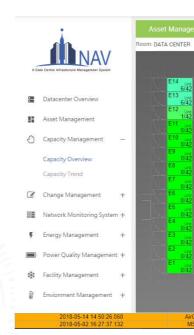
- Exclusive 3D view of data center and IT equipment
- Equipment allocation and utilization
- Highly visible with brand, model, hostname and operation system
- Simplify online inventory stock taking
- Intelligent Smart Rack Tag
- Monitoring U-level asset inventory and unauthorized changes

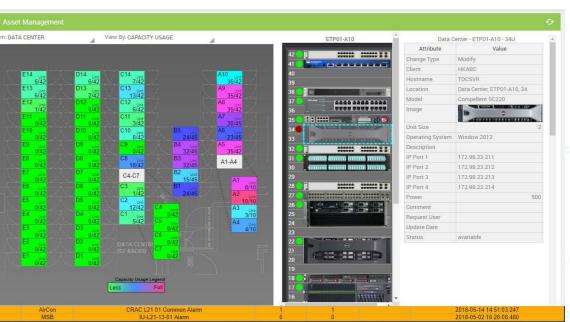
Rack Capacity Management



usage supports









Planning and optimization of infrastructure capacities to fully utilize the data center is the best solution for cost-saving.

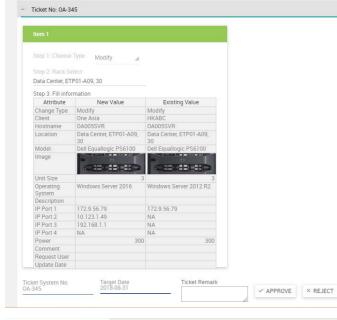
This is an overview of capacity availability within an organizational context, providing instant information of actual space, cooling consumption, power, network, and weight availability against data center capacity constraints.

It can also provide instant server placement recommendation through a real-time analysis of available data center capacity.

• Top viewing of each rack power and space usage including historical

### Change Management

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To avoid schedule conflicts, this interactive interface shows the past, future, and pending changes to assist with resource and workload balancing.

It can reduce human error, save time, and extend the life cycle of data center operation.

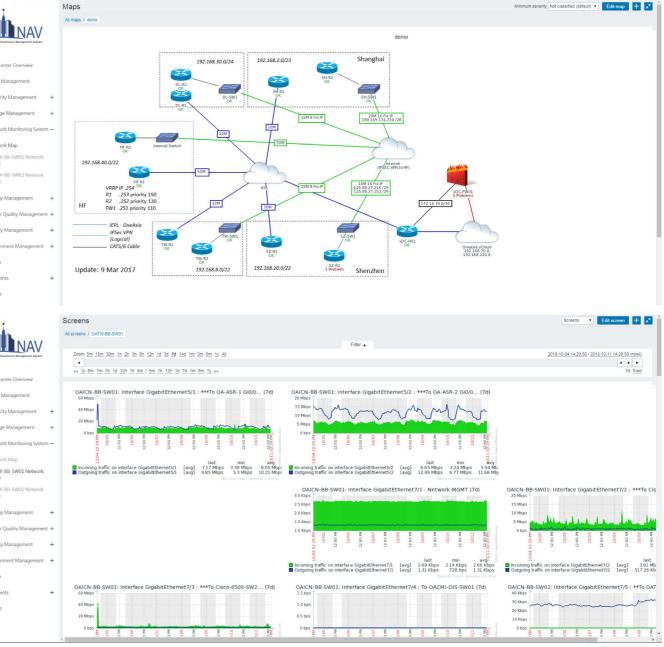
In addition, it can create work orders and automatically generate tasks to move, add or change IT and infrastructure equipment.

It also provides documentary reports on the working process and tasks procedures in real-time visuals.

- Built-in Change Management process for handling equipment move-in or move-out
- Automated action in updating the asset inventory record
- Documentation on add/move/change cycles to provide audit function

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An overview of the data center network paths and their interconnections. It provides guided input to avoid human error.

Live configured web dashboard displays customizable management level information. It can enhance the transparency of data center key performance indicators.

It generates specific activities to fulfill the needs of an individual work order, ensuring organizational policies as projects are easily applied to move, add, and change.

• Comprehensive dashboard with network topology sitemap • Monitoring network traffic utilization, packet loss, and latency This intelligent energy classification and management mechanism can perform energy measurement, PUE calculation, historical data analysis, and electricity tariff assessment.

It provides analysis of energy loss and cost, which helps develop greater agility to reduce the OPEX thus increases cost efficiency within the data center.

It provides both internal and external reports on current and historical PUE values, showing the effect of changing seasons.

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

PDU-L21 B02

- Consumed power allocation
- Integration with third-party enterprise and building management systems
- Data gathering and customization, and integration of PUE calculations

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Asset Manager Capacity Manac

△ Alarm

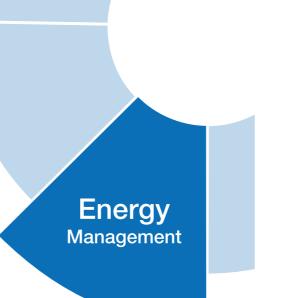
III Setpoints About

I	Change Management	+	ETP01-D08	134
			ETP01-D09	134
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ę	Energy Management	-	ETP01-D14	13/
	BCM		ETP01-E02	13/
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	Power Quality Management	+	ETP01-E08	13/
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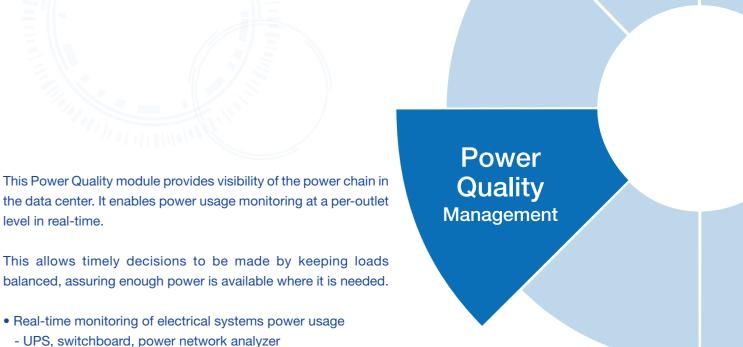
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\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>ETP01-D03         I 3A         90%         I 1.7A         3.70A         352135kWh         IZ         1           ETP01-D04         I 3A         90%         I 1.7A         0.00A         0kWh         I 3           ETP01-D04         I 3A         90%         I 1.7A         0.00A         0kWh         I 3           ETP01-D08         I 3A         90%         I 1.7A         0.00A         0kWh         I 1           ETP01-D09         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D20         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A</td>	ETP01-D03         13A         90%         11.7A         3.70A         352135kWh           ETP01-D04         13A         90%         11.7A         0.00A         0kWh           ETP01-D08         13A         90%         11.7A         0.00A         0kWh           ETP01-D08         13A         90%         11.7A         0.00A         0kWh           ETP01-D09         13A         90%         11.7A         0.00A         0kWh           ETP01-D10         13A         90%         11.7A         1.00A         0kWh           ETP01-D14         13A         90%         11.7A         1.20A         124214kwh           ETP01-E02         13A         90%         11.7A         0.00A         0kWh           ETP01-E02         13A         90%         11.7A         0.00A         0kWh           ETP01-E03         13A         90%         11.7A         0.00A         0kWh           ETP01-E03         13A         90%         11.7A         0.00A         0kWh           ETP01-E04         13A         90%         11.7A         2.10A         3255kWh           ETP01-E03         13A         90%         11.7A         0.00A         0kWh	ETP01-003         13A         90%         11.7A         3.70A         352135kWh         12           ETP01-004         13A         90%         11.7A         0.00A         0kWh         13           ETP01-008         13A         90%         11.7A         0.00A         0kWh         13           ETP01-008         13A         90%         11.7A         0.00A         0kWh         13           ETP01-009         13A         90%         11.7A         0.00A         0kWh         13           ETP01-010         13A         90%         11.7A         0.20A         0kWh         13           ETP01-010         13A         90%         11.7A         0.20A         0kWh         13           ETP01-020         13A         90%         11.7A         0.20A         0kWh         13           ETP01-020         13A         90%         11.7A         0.00A         0kWh         13           ETP01-620         13A         90%         11.7A         0.00A         0kWh         13           ETP01-620         13A         90%         11.7A         0.00A         0kWh         13           ETP01-620         13A         90%         11.7A	ETP01-D03         13A         90%         11.7A         3.70A         352135kWh         L2         1           ETP01-D04         13A         90%         11.7A         0.00A         0kWh         L3           ETP01-D04         13A         90%         11.7A         0.00A         0kWh         L3           ETP01-D08         13A         90%         11.7A         0.00A         0kWh         L1           ETP01-009         13A         90%         11.7A         5.10A         93843kWh         L2         3           ETP01-014         13A         90%         11.7A         1.20A         124214kWh         L1           ETP01-602         13A         90%         11.7A         0.00A         0kWh         L2           ETP01-602         13A         90%         11.7A         0.00A         0kWh         L3           ETP01-602         13A         90%         11.7A         0.00A         0kWh         L3           ETP01-602         13A         90%         11.7A         0.00A         0kWh         L3           ETP01-603         13A         90%         11.7A         2.00A         255559kWh         L3           ETP01-E14         13A	ETP01-D03       13A       90%       11 TA       3.70A       352135kWh       12       1         ETP01-D04       13A       90%       11.7A       0.00A       0kWh       13       1         ETP01-D08       13A       90%       11.7A       0.00A       0kWh       13       3         ETP01-D08       13A       90%       11.7A       0.00A       0kWh       13       3         ETP01-D09       13A       90%       11.7A       0.00A       0kWh       13       3         ETP01-D10       13A       90%       11.7A       0.00A       0kWh       13       5         ETP01-D14       13A       90%       11.7A       0.00A       0kWh       12       5         ETP01-E02       13A       90%       11.7A       0.00A       0kWh       12       5         ETP01-E02       13A       90%       11.7A       0.00A       0kWh       13       5         ETP01-E02       13A       90%       11.7A       0.00A       0kWh       13       7         ETP01-E03       13A       90%       11.7A       2.00A       25559kWh       13       7         ETP01-E14       13A	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ETP01-003       13A       90%       11.7A       3.70A       352135kWh       12       1         ETP01-004       13A       90%       11.7A       0.00A       0kWh       L3       1         ETP01-008       13A       90%       11.7A       0.00A       0kWh       L3       1         ETP01-008       13A       90%       11.7A       0.00A       0kWh       L3       1         ETP01-009       13A       90%       11.7A       0.00A       0kWh       L3       1         ETP01-010       13A       90%       11.7A       0.00A       0kWh       L3       12515kWh         ETP01-010       13A       90%       11.7A       0.00A       0kWh       L3       12515kWh         ETP01-602       13A       90%       11.7A       0.00A       0kWh       L3       12515kWh         ETP01-602       13A       90%       11.7A       0.00A       0kWh       L3       12       0kWh         ETP01-602       13A       90%       11.7A       0.00A       0kWh       L3       13       0kWh       L3       0kWh         ETP01-603       13A       90%       11.7A       2.00A       25559kWhL	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ETP01-D03         I 3A         90%         I 1.7A         3.70A         352135kWh         IZ         1           ETP01-D04         I 3A         90%         I 1.7A         0.00A         0kWh         I 3           ETP01-D04         I 3A         90%         I 1.7A         0.00A         0kWh         I 3           ETP01-D08         I 3A         90%         I 1.7A         0.00A         0kWh         I 1           ETP01-D09         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D10         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-D20         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A         90%         I 1.7A         0.00A         0kWh         I 2           ETP01-E03         I 3A

 Rack
 Trip Enable
 Max(A)
 Overload(%)
 Limit(A)
 Reading(A)
 kWh
 Phase
 Way
 Phase
 kWh





e Rack



level in real-time.

- Generating an environmentally friendly power management







Provides clear visibility of all the components within the chiller plant system to manage the healthiness and effectiveness of the cooling system.

It aggregates, stores and correlates numerous static and dynamic data.

It demonstrates an easy to comprehend visual representation of the system status at any point in time.

• E&M facility's monitoring

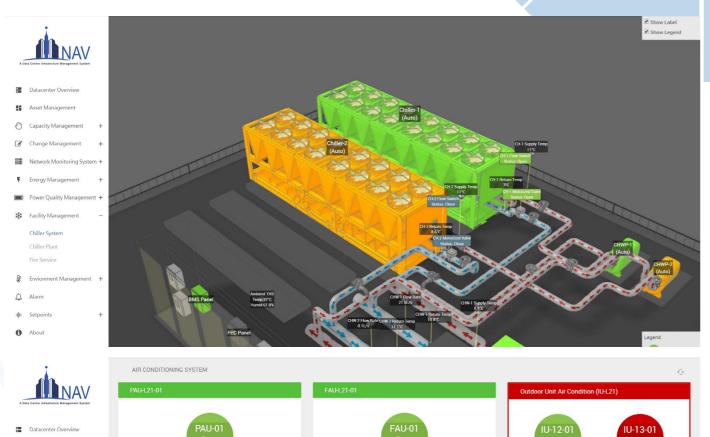
Asset Management

B Network Monitoring System

Power Quality Management

F Energy Management

- 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



**Main Plant** 

Management

Provides the detailed reports and values for environmental monitoring. Any out-of-range variables inside the data center could lead to early failure of the equipment and poor utilization of resources.

Thus, having a fine grained analysis of the key variables in the data center environment can easily track and execute necessary changes.

- Real-time monitoring of the data center environment - Room temperature, humidity and CRAC status
- Centralizes environmental condition's data and delivers temperature and humidity status alerts



#### **Environment** Management

### **Newtech-Your Trusted Solution Provider**

Riding on over 27 years' experience with worldwide customers' acclaim, Newtech has harnessed the latest technology to provide services that exceed customers' satisfaction.

#### **Resilient Reporting Functions**

Within the iNAV DCIM system, all dashboards displayed on the monitoring panel can be modified. Combining 3D editable visuals, we guarantee there is no latency on all modules management and modifications.

#### Enhancing Data Center Infrastructure Effectiveness

iNAV DCIM solution facilitates planning and control. It integrates relevant IT and Facility Management real-time information into useful analysis reports, whereby management level can further utilize for checking, comparison, and long-term assessment.

#### All-inclusive Turnkey Solution

Customers can be rest assured upon the system set up. Our experienced specialists provide simplified onboarding set up, data collection, and migration. If you are not familiar with iNAV DCIM, we will provide configuration guidance, comprehensive after-sales service, and system navigation.

#### **Customized DCIM Service**

Upon our professional assessment, a built-to-suit solution that is flexible and scalable will be proposed. Our system managers will provide proactive 7x24 monitoring while supporting up to a total of 500 racks round-the-clock issue solving service.



#### **Contact Us**

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