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# **uDCV Administrator Guide Documentation**

*Release 3.0.3*

**uinnova**

April 30, 2016



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## Preface

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This documentation provides guidelines to manage and configure uinnova DataCenter Visualizer, or uDCV. uDCV is the data integration and visualization platform, which enables users to visualize the information about the data center facilities.

- **Asset Visualization**
  - Asset location, physical appearance, advance multi-criteria search
  - Large 3D datacenter models library of IT infrastructure and equipment available
  - Integrated asset, configuration and alert information
- **Environment Visualization**
  - 3D Datacenter campus, buildings, floors, rooms and cages views
  - Landscape and drone style fly-over views
- **Cabling Visualization**
  - Electrical wires and conduits
  - Patch panel and cabling
  - Port-to-Port connection path
  - HVAC Utility pipeline
- **Monitoring Visualization**
  - IT equipment performance and alerting
  - Datacenter room temperature and humidity
  - UPS/PDU/Air Conditioning electrical power
- **Presentation Visualization**
  - Self-direct 3D animation
  - Embedded Microsoft PowerPoint presentation in 3D datacenter view



## 2.1 Management Console

uDCV Administrator can manage license, 3D scene, users and privileges through management console.

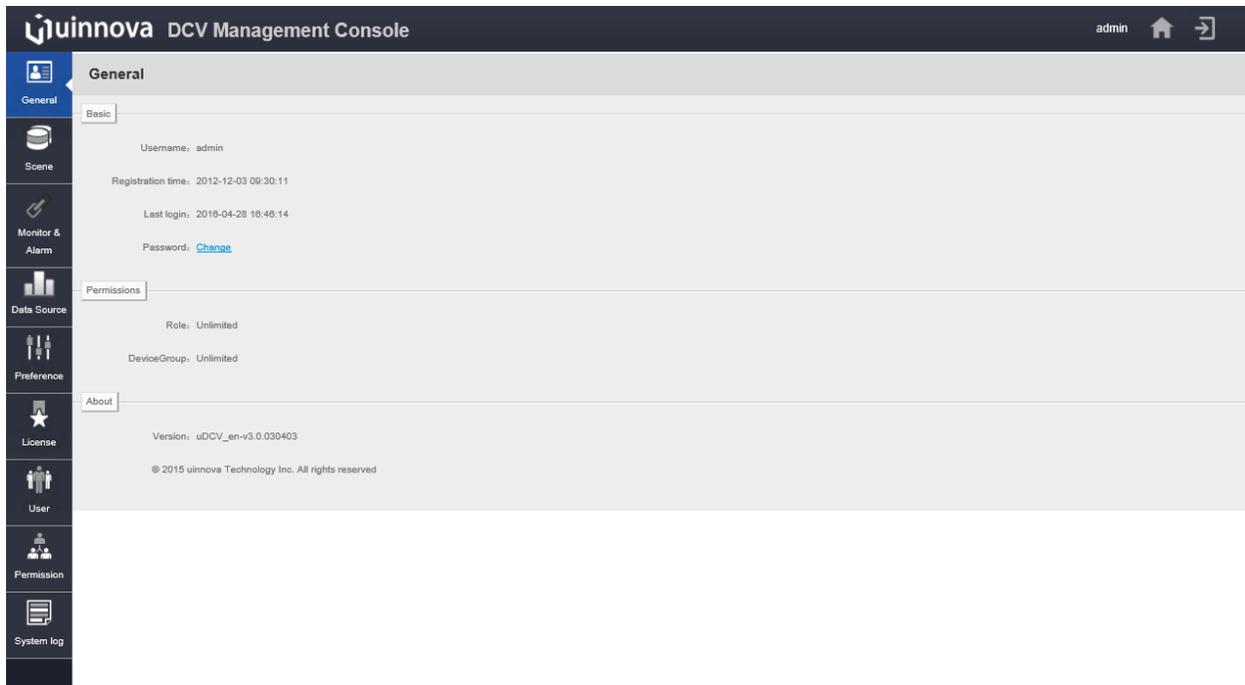
### 2.1.1 Open Management Console

On uDCV homepage, click “Management Console” to enter Administration UI, as shown below:



### 2.1.2 Access Management Functions

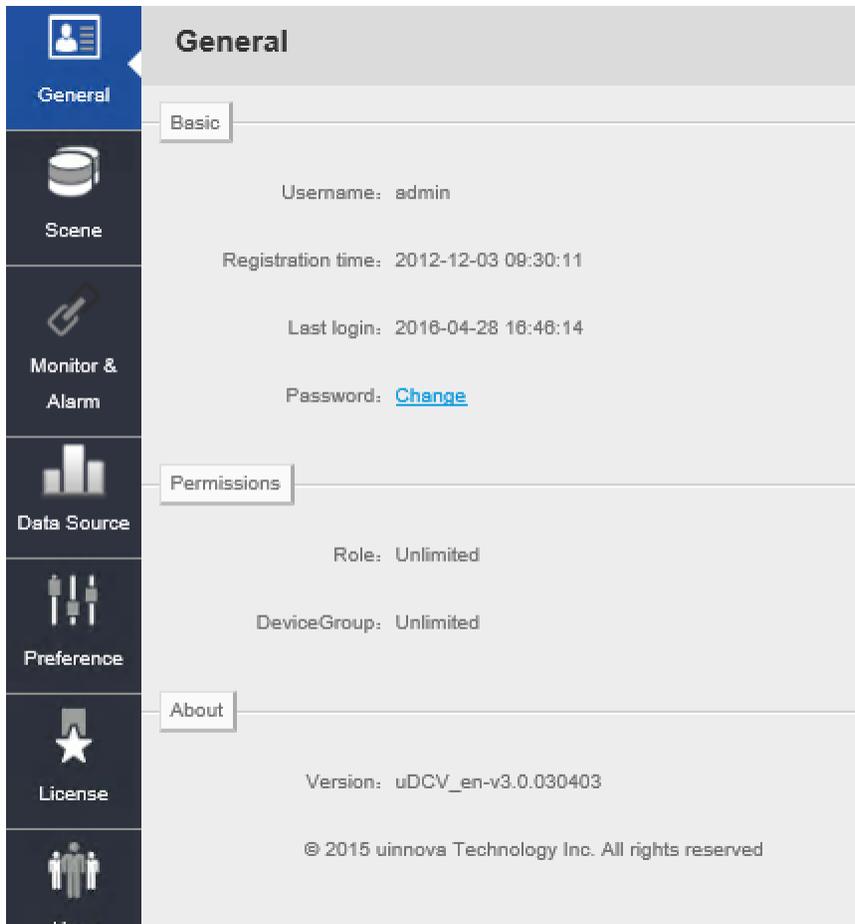
Administration functions can be accessed by navigation bar on the left, as shown below:



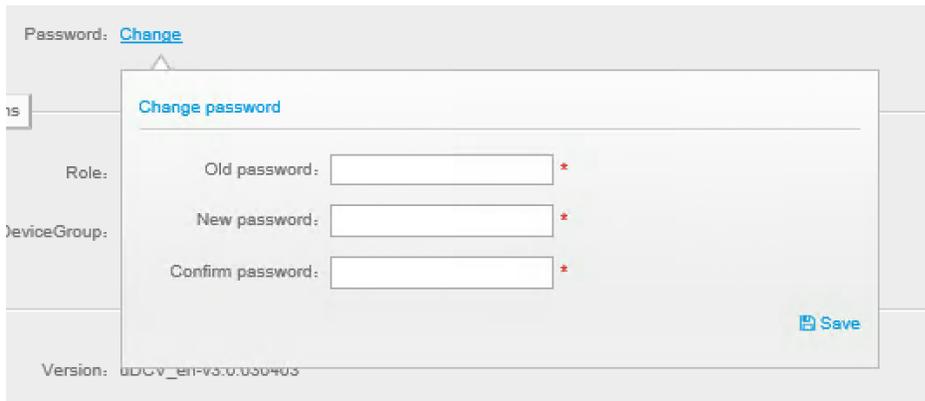
## 2.2 Change Password

User can change her password through management console:

1. Click **Change** link under **General** tag on the left-hand side navigation bar



2. Enter old password as well as new password, then click **Save** button at the lower right corner.



## 2.3 User Management

User Management module has following functions:

- Search, create, modify and delete uDCV user.
- Assign roles to user.
- Assign device group to user.

To access User Management module, click **User** button on the left-hand navigation bar in the **Management Console**

### 2.3.1 Add New User

1. Click **+Add** button on the upper right corner in **User** management UI
2. Input user information on the popup window, as shown below:

**Add user**

Username:  \* 3~16 characters

Password:  \* 3~16 characters

Confirm password:  \* Please enter the password again

Role:

Device Group:

3. Click **Save** button to save new user.

### 2.3.2 Edit Existing User

1. Select user to be edit from user list under **User** management UI, and click edit icon on the right hand side
2. Modify user information on the popup window, as shown below:

**User**

1 loaded, 1 in total

aaa	Registration time: 2015-08-18 15:07:51	Last login: 2015-08-18 15:14:15
	Role: 213213	

**Edit user--aaa**

New password:  *Optional item; 3~16 characters*

Confirm password:   *Please enter the password again*

role:

DeviceGroup:

3. Click **Save** button to save change.

### 2.3.3 Delete User

1. Select user to be deleted from user list under **User** management UI, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

### 2.3.4 Search User

1. Input search criteria in the search box on upper right corner of **User** management UI and click **Search** button.

2. View search results on user list table of **User** management UI

## 2.4 Permission and Role Management

uDCV leverage Role Base Access Control, a.k.a RBAC model to management permissions to access system resource. There are two key component in uDCV's RBAC model:

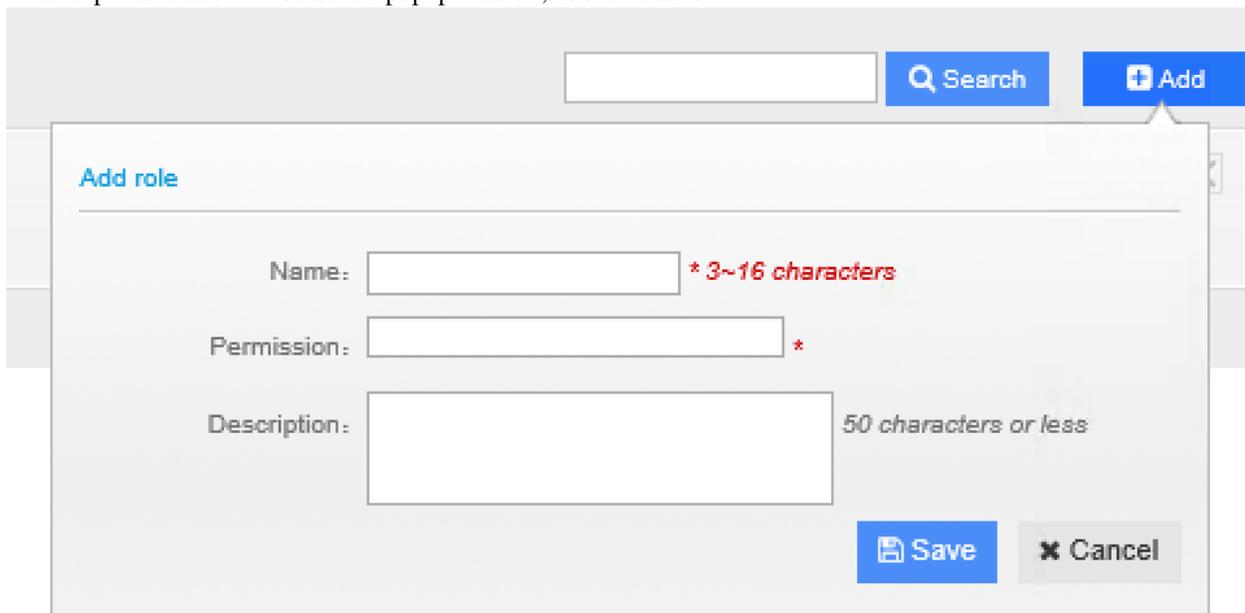
- Role: defines which actions are allowed given a particular role.
- Device Group: defines the *scope* of actions given a particular role.

### 2.4.1 Role Management

Role management functions is located under **Permission** -> **Role** .

#### Create New Role

1. Click **+Add** button on the upper right corner in **Role** management UI
2. Input role information on the popup window, as shown below:



The screenshot shows a 'Role management' interface with a search bar and an '+Add' button. A modal window titled 'Add role' is open, containing the following fields and constraints:

- Name:**  \* 3~16 characters
- Permission:**  \*
- Description:**  50 characters or less

At the bottom right of the modal, there are **Save** and **Cancel** buttons.

3. Click **Save** button to save new role.

#### Edit Existing Role

1. Select role to be edit from role list under **Role** management UI, and click edit icon on the right hand side
2. Modify role information on the popup window, as shown below:

**Permission**

Role Device Group

1 loaded, 1 in total

213213 Creation time: 2015-08-18 15:05:33  
Permission: General User Scene Model library

[Edit role-213213](#)

Name:  \* 3~16 characters

Permission:     \*

Description:  50 characters or less

3. Click **Save** button to save change.

### Delete Role

1. Select role to be deleted from user list under **Role** management UI, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

## 2.4.2 Device Group Management

Device group management functions is located under **Permission** -> **Device Group** .

### Create New Device Group

1. Click **+Add** button on the upper right corner in **Device Group** management UI
2. Input device group information on the popup window, as shown below:

The screenshot shows a web application interface for adding a device group. At the top, there is a search bar and two buttons: 'Search' and 'Add'. Below this is a modal window titled 'Add device group'. The modal contains the following fields:

- Name:** An empty text input field with a red asterisk and the text '\* 3~16 characters' to its right.
- Devices:** A text input field containing 'dcv001'. Below the input is a dashed line and the text 'Click a scene name'.
- Permission:** An empty text input field with a red asterisk to its right.
- Description:** An empty text input field with the text '50 characters or less' to its right.

At the bottom right of the modal, there are two buttons: 'Save' (with a floppy disk icon) and 'Cancel' (with an 'X' icon).

3. Click **Save** button to save new device group.

### Edit Existing Device Group

1. Select device to be edit from device group list under **Device Group** management UI, and click edit icon on the right hand side
2. Modify device group information on the popup window, as shown below:

999	Creation time: 2015-08-18 15:12:31 Description: undefined
123213	Creation time: 2015-08-18 15:07:33 Description: undefined

**Edit device group-123213**

Name:  \* 3~16 characters

Devices:  \*

- productionBuilding
- productionBuilding1
- productionBuilding3
- productionBuilding2
- P207
- P216
- P217
- P215
- P212
- P210
- P2Elevatorb

Permission:    \*

Description:  50 characters or less

3. Click **Save** button to save change.

### Delete Device Group

1. Select device group to be deleted from device list under **Device Group** management UI, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

## 2.5 Scene Management

By scene management UI, administrator can create new scene, upload 3D model of datacenter, product library, asset and wiring data to scene, as well as preview scene thought T3D plug-in.

To access Scene Management module, click **Scene** button on the left-hand navigation bar in the **Management Console**

Below is the major steps to create 3D datacenter scene:

### 2.5.1 Create 3D model in online uDCB

uinnova provides online datacenter modelling tool called uDCB (uinnova DataCenter Builder) for **FREE**. Utilizing the WYSIWYG UI, uDCB enables users to design and build 3D datacenter with great flexibility and freedom.

uDCB is a comprehensive online design platform, where users can simply drag and drop objects into the drawing. CAD and Visio drawings can be easily imported into the uDCB to create a 3D model.

uDCB supports online viewing and community based sharing. Users can share their design with others, which effectively increase the number of available templates for everyone.

Please refer to <http://uinnova.com/dcb.html> for further information.

### 2.5.2 Export uDCB Model to Local Disk

After drawings DataCenter 3D model online in uDCB, click **Export** button to export datacenter model to local disk.

### 2.5.3 Create New Scene

1. Click **+New** button on the upper right corner in **Scene** management UI
2. Input scene information on the popup window, as shown below:

The screenshot shows a 'New Scene' dialog box. At the top right of the dialog's title bar is a blue button with a white plus sign and the text '+ New'. Below the title bar, the dialog has a light gray background. The title 'New Scene' is displayed in blue text at the top left. There are four input fields: 'Name:' with a red asterisk, 'Description:', 'SceneImage' with a 'Browse...' button, and '(Optional):'. At the bottom right, there are two buttons: a blue 'Save' button with a floppy disk icon and a gray 'Cancel' button with an 'X' icon.

3. Click **Save** button to save your change.

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**Note:** Newly created scene by click **New** button are empty, to put 3D modelas, objects and asset data in new scenes, please use **import** function under scene panel.

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## 2.5.4 Import Scene Data

Click **import** button under individual scene panel to enter data import UI. Import data by following order

1. import model library
3. import uDCB model
4. import asset data
5. import wiring data

### Import Model library

Click **Model Library** icon in scene import UI, select model library file from popup file explorer windows, and click **OK** to upload.

The **Model Library** icon will turn to green if upload successfully.

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**Note:** uDCV shipped with default model library named `product_lib.zip` under `DCV_DATA` folder in product tarball.

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### Import uDCB Scene

Click **uDCB** icon in scene import UI, select uDCB exported scene file from popup file explorer windows, and click **OK** to upload.

The **uDCB** icon will turn to green if upload successfully.

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**Note:** For sample datacenter scenes and exported scene files, please visit <http://uinnova.com/app/topic/35/sample-exported-scene-and-asset-data>

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### Import Texture

Click **Texture** icon in scene import UI, select texture file from popup file explorer windows, and click **OK** to upload.

The **Texture** icon will turn to green if upload successfully.

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**Note:** uDCV shipped with default texture file named `unity_pic.zip` under `DCV_DATA` folder in product tarball.

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### Import Asset Data

Click **Asset** icon in scene import UI, select asset file from popup file explorer windows, and click **OK** to upload.

The **Asset** icon will turn to green if upload successfully.

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**Note:** To learn about asset file format and sample asset data, please visit <http://uinnova.com/app/topic/35/sample-exported-scene-and-asset-data>

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## Import Wiring Data

Click **Wiring** icon in scene import UI, select wiring file from popup file explorer windows, and click **OK** to upload. The **Wiring** icon will turn to green if upload successfully.

**Note:** To learn about wiring file format and sample wiring data, please visit <http://uinnova.com/app/topic/35/sample-exported-scene-and-asset-data>

## View Uploaded Scene Data

- View model library of individual scene by click **Model Library** button under scene panel

	Brand: IBM Description:	modelNumberIBM_IBM_xSeries_345	Version: 1
	Brand: H3C Description:	modelNumberH3C_H3C_S5820X-28S	Version: 1
	Brand: CISCO Description:	modelNumberCISCO_CISCO_SECURE PIX 525s	Version: 1

- View asset data of individual scene by click **Configure** button under scene panel

Data Management

Park Building Floor Room Cabinet Distribution RackDevice IndependentDevice Blade Board VirtualMachine

Filter

Add	Copy	Edit	Batch Delete	Remove all	Import	Export						
No.	Responsible	belongTo	site	Brand	MaintainanceStatus	maintainancedepartment	Power	Type				
<input type="checkbox"/>	1	Peng Bo	P311-G1-06	18-19	IBM	Out of Warranty	System Department	300	Server			
<input type="checkbox"/>	2	Peng Bo	P311-G1-06	24-25	IBM	Under Warranty	System Department	300	Server			
<input type="checkbox"/>	3	Jing Gang	P311-G1-06	39-42	SYSTIMAX	Out of Warranty	Combination Department	100	Fiber_Distr			
<input type="checkbox"/>	4	Peng Bo	P311-G1-06	29-31	NetApp	Under Warranty	Combination Department	500	Storage_D			
<input type="checkbox"/>	5	Peng Bo	P311-G1-06	21-22	DELL	Under Warranty	System Department	500	Server			
<input type="checkbox"/>	6	Peng Bo	P311-G1-06	33-35	NetApp	Under Warranty	Combination Department	500	Storage_D			
<input type="checkbox"/>	7	Wang Tao	P311-G1-05	39-42	SYSTIMAX	Under Warranty	Combination Department	100	Fiber_Distr			
<input type="checkbox"/>	8	Jing Gang	P311-G1-05	33-34	HP	Under Warranty	System Department	800	Server			
<input type="checkbox"/>	9	Xie Peng	P311-G1-08	8-9	IBM	Under Warranty	System Department	300	Server			
<input type="checkbox"/>	10	Wang Tao	P311-G1-08	39-42	SYSTIMAX	Out of Warranty	Combination Department	100	Fiber_Distr			
<input type="checkbox"/>	11	Wei Xin Zheng	P311-G1-07	26-27	IBM	Out of Warranty	System Department	300	Server			
<input type="checkbox"/>	12	Jing Gang	P311-G1-07	20-21	IBM	Under Warranty	System Department	300	Server			
<input type="checkbox"/>	13	Wang Tao	P311-G1-07	14-15	IBM	Out of Warranty	System Department	300	Server			
<input type="checkbox"/>	14	Bai Xiao Wei	P311-G1-07	8-9	IBM	Under Warranty	System Department	300	Server			
<input type="checkbox"/>	15	Wei Xin Zheng	P311-G1-07	39-42	SYSTIMAX	Out of Warranty	Combination Department	100	Fiber_Distr			

Home Prev 1 2 3 4 5 ... 48 Next End From 1 To 15 / Total 709 records

## 2.5.5 Preview Scene

Click **Preview** button under individual scene panel to preview scene in 3D.

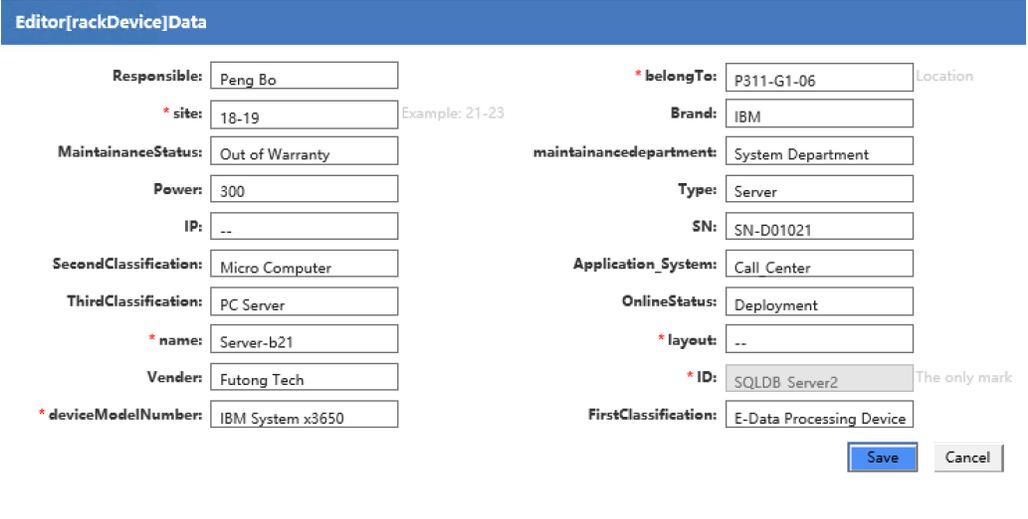
## 2.6 Asset Management

In uDCV, each scene has its own asset dataset, to access asset management UI for a scene, go to scene list, click **configure** button under scene panel, as shown below:



User can perform following operation on alarm data as listed in table below:

Table 2.1: Asset Data Management

Action Name	Description
Add New Asset Data	Add asset data manually  The screenshot shows a web form titled "Editor[rackDevice]Data" with a blue header. It contains two columns of input fields. The left column includes: "Responsible:" (text box with "Peng Bo"), "* site:" (text box with "18-19", note "Example: 21-23"), "MaintenanceStatus:" (text box with "Out of Warranty"), "Power:" (text box with "300"), "IP:" (text box with "--"), "SecondClassification:" (text box with "Micro Computer"), "ThirdClassification:" (text box with "PC Server"), "* name:" (text box with "Server-b21"), "Vender:" (text box with "Futong Tech"), and "* deviceModelNumber:" (text box with "IBM System x3650"). The right column includes: "* belongTo:" (text box with "P311-G1-06", note "Location"), "Brand:" (text box with "IBM"), "maintainancedepartment:" (text box with "System Department"), "Type:" (text box with "Server"), "SN:" (text box with "SN-D01021"), "Application_System:" (text box with "Call Center"), "OnlineStatus:" (text box with "Deployment"), "* layout:" (text box with "--"), "* ID:" (text box with "SQLDB Server2", note "The only mark"), and "FirstClassification:" (text box with "E-Data Processing Device"). At the bottom right are "Save" and "Cancel" buttons.
Copy	Copy one data record to an new one.
Edit	Edit existing data record.
Batch Delete	Delete selected data records.
Remove All	Delete <i>ALL</i> asset records.
Import	Import data from local disk file, in excel format.
Export	Export data to local disk file, in excel format.

## 2.7 Monitor and Alarms

uDCV supports monitoring visualization by receive performance and alarm data from 3-party system via its open API, and show the index in realtime 3D scene. Typical data source could be:

- IT equipment performance and alerting
- Datacenter room temperature and humidity
- UPS/PDU/Air Conditioning electrical power

For more information about send performance and alarm data thought uDCV open API, please refer to uDCV Developer Guide.

### 2.7.1 Performance

Performance data management functions is located under **Monitor and Alarm -> Monitor** :

**Monitor & Alarm**

Monitor Alarm Queue Status Data Generator

Search  Start time  End time  Find

Monitor

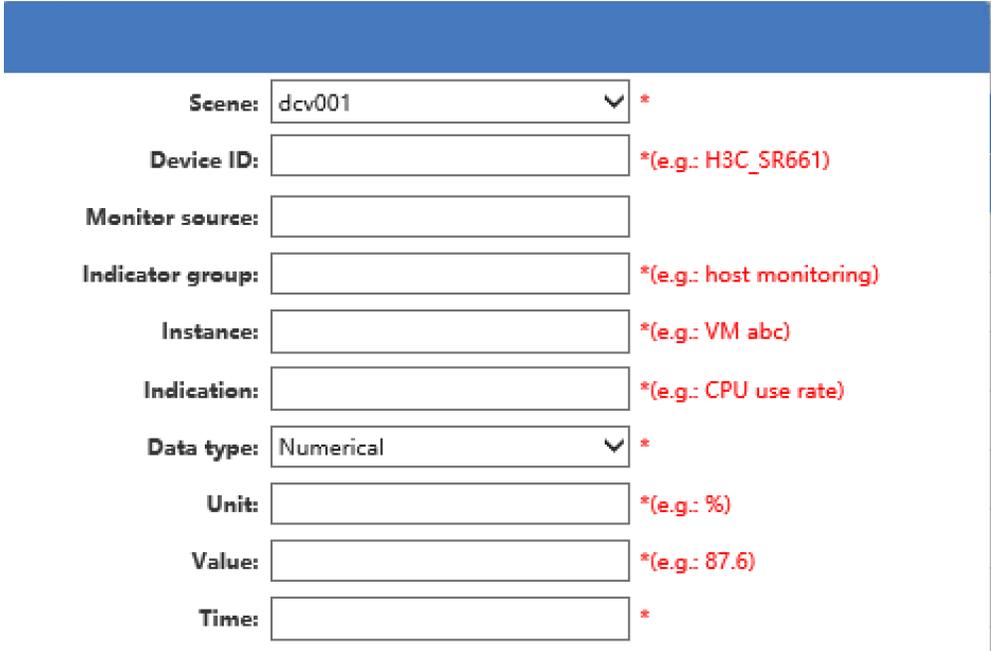
Filter

Add Copy Edit Batch Delete Remove all Import Export

<input type="checkbox"/>	No.	Scene	Device ID	Indicator group	Instance	Indication	Data type	Unit	Value	Time	Operation
<input checked="" type="checkbox"/>	1	dcv001	P311-WSD-013	Temperature	-	Temperature	value_of_number	°C	23.95	--	
<input checked="" type="checkbox"/>	2	dcv001	P311-WSD-013	humidity	-	humidity	value_of_number	%	20.83	--	
<input type="checkbox"/>	3	dcv001	P311-WSD-014	Temperature	-	Temperature	value_of_number	°C	23.88	--	
<input type="checkbox"/>	4	dcv001	P311-WSD-014	humidity	-	humidity	value_of_number	%	21.9	--	
<input type="checkbox"/>	5	dcv001	P311-WSD-017	Temperature	-	Temperature	value_of_number	°C	23.89	--	
<input type="checkbox"/>	6	dcv001	P311-WSD-017	humidity	-	humidity	value_of_number	%	20.26	--	
<input type="checkbox"/>	7	dcv001	P311-WSD-015	Temperature	-	Temperature	value_of_number	°C	23.55	--	
<input type="checkbox"/>	8	dcv001	P311-WSD-015	humidity	-	humidity	value_of_number	%	22.63	--	
<input type="checkbox"/>	9	dcv001	P311-WSD-043	Temperature	-	Temperature	value_of_number	°C	21.98	--	
<input type="checkbox"/>	10	dcv001	P311-WSD-043	humidity	-	humidity	value_of_number	%	22.1	--	
<input type="checkbox"/>	11	dcv001	P311-WSD-036	Temperature	-	Temperature	value_of_number	°C	20.6	--	
<input type="checkbox"/>	12	dcv001	P311-WSD-036	humidity	-	humidity	value_of_number	%	23.53	--	
<input type="checkbox"/>	13	dcv001	P311-WSD-035	Temperature	-	Temperature	value_of_number	°C	23.7	--	

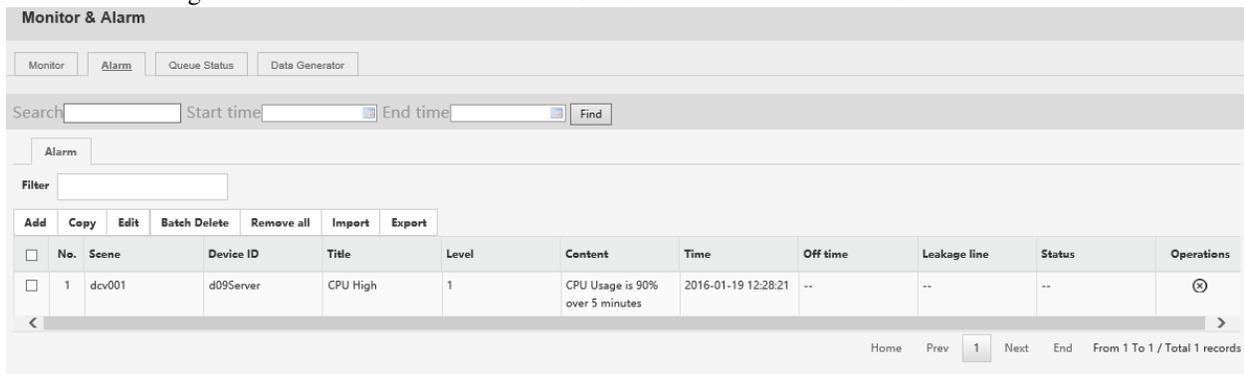
User can perform following operation on performance data as listed in table below:

Table 2.2: Performance Data Management

Action Name	Description
Add New Performance Data	Add performance data manually 
Copy	Copy one data record to an new one.
Edit	Edit existing data record.
Batch Delete	Delete selected data records.
Remove All	Delete <i>ALL</i> performance records.
Import	Import data from local disk file, in excel format.
Export	Export data to local disk file, in excel format.

## 2.7.2 Alarms

Alarm data management functions is located under **Monitor and Alarm -> ALarms** :



The screenshot shows the 'Monitor & Alarm' interface. At the top, there are tabs for 'Monitor', 'Alarm', 'Queue Status', and 'Data Generator'. Below the tabs, there are search fields for 'Search', 'Start time', and 'End time', along with a 'Find' button. A 'Filter' field is also present. Below the search fields, there are buttons for 'Add', 'Copy', 'Edit', 'Batch Delete', 'Remove all', 'Import', and 'Export'. The main part of the interface is a table with the following columns: No., Scene, Device ID, Title, Level, Content, Time, Off time, Leakage line, Status, and Operations. The table contains one record with the following data: No. 1, Scene dcv001, Device ID d09Server, Title CPU High, Level 1, Content CPU Usage is 90% over 5 minutes, Time 2016-01-19 12:28:21, Off time --, Leakage line --, Status --, and Operations with a refresh icon. At the bottom right, there are navigation buttons: Home, Prev, 1, Next, End, and From 1 To 1 / Total 1 records.

User can perform following operation on alarm data as listed in table below:

Table 2.3: Alarm Data Management

Action Name	Description
Add New Alarm Data	Add alarm data manually 
Copy	Copy one data record to an new one.
Edit	Edit existing data record.
Batch Delete	Delete selected data records.
Remove All	Delete <i>ALL</i> alarm records.
Import	Import data from local disk file, in excel format.
Export	Export data to local disk file, in excel format.

### 2.7.3 Queue Status

Status of data processing queue can be view under **Monitor and Alarm -> Queue Status** . it summaries the following information:

- Queue Name
- Number of pending messages
- Number of consumers
- Messages dequeue
- Message enqueue

### 2.7.4 Data Generator

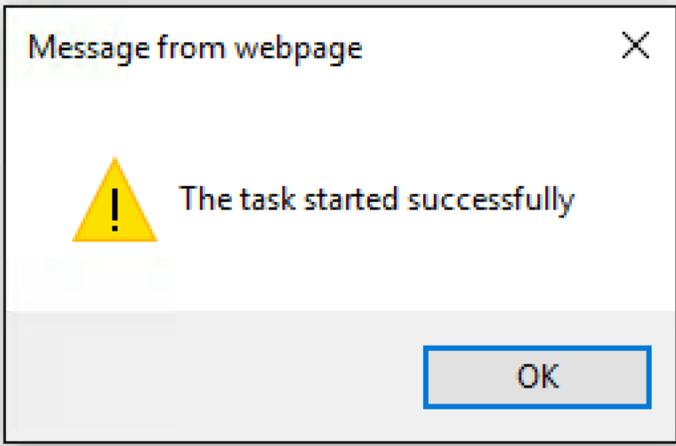
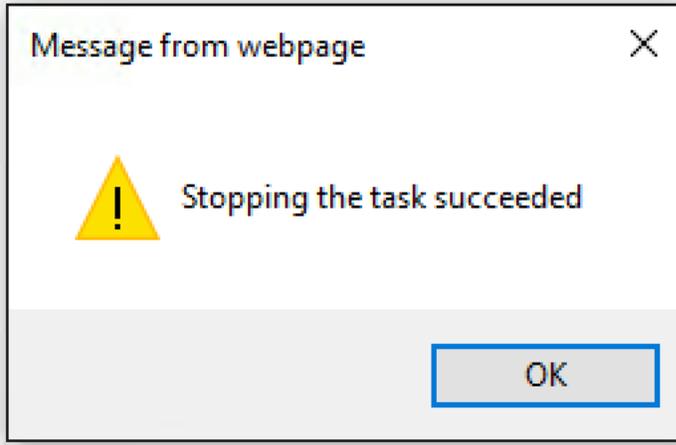
User can generate performance records using **Data Generator** for **demo** purpose. Data Generator function is located at **Monitor and Alarm -> Data Generator**. One of the typical user case is to generate data to build **HeatMap** from

a group of temperature sensors.

To generate sample data, the following fields are required:

- Scene Name
- Category
- Target, either `logic server` or `Temperature and Humidity`, or both

Table 2.4: Data Generator

Action Name	Description
Run	Start the Data Generator 
Stop	Stop the Data Generator 

## 2.8 Datasource and Mapping

uDCV can connect and fetch data from external database using JDBC, to setup database connection, configure field mapping and schedule data fetch job.

## 2.8.1 DataSource Management

To access Datasource Management module, click **Data Source** button on the left-hand navigation bar in the **Management Console**

### Create New Datasource

1. Click **+Add data source** button on the upper right corner in **Data Source** management UI
2. Input data source information, as shown below:

The screenshot shows the 'Data Source' configuration page in the uDCV Management Console. The page has a dark blue header with the 'uinnova DCV Management Console' logo. A left-hand navigation bar contains icons and labels for 'General', 'Scene', 'Monitor & Alarm', 'Data Source' (highlighted), 'Preference', and 'License'. The main content area is titled 'Data Source' and contains the following fields:

- Name:** linkName1
- Database type:** Oracle (dropdown menu)
- Server:** 127.0.0.1
- SID:** orcl
- Port:** 1521
- Login Credentials:**
  - Username:** tigger
  - Password:** \*\*\*

At the bottom right of the form, there are three buttons: 'Test Connection' (blue), 'Save' (blue), and 'Cancel' (grey).

3. Click **Test Connection** button to test database connection.
4. Click **Save** to save new data source.

### Edit Existing Datasource

1. Select user to be edit from datasource list under **Data Source** management UI, and click edit icon on the right hand side.
3. Modify datasource information, as shown below:

### Data Source

Name:

Database type:

Server:  Port:

Login Credentials

Username:

Password:

3. Click **Save** button to save change.

### Delete Datasource

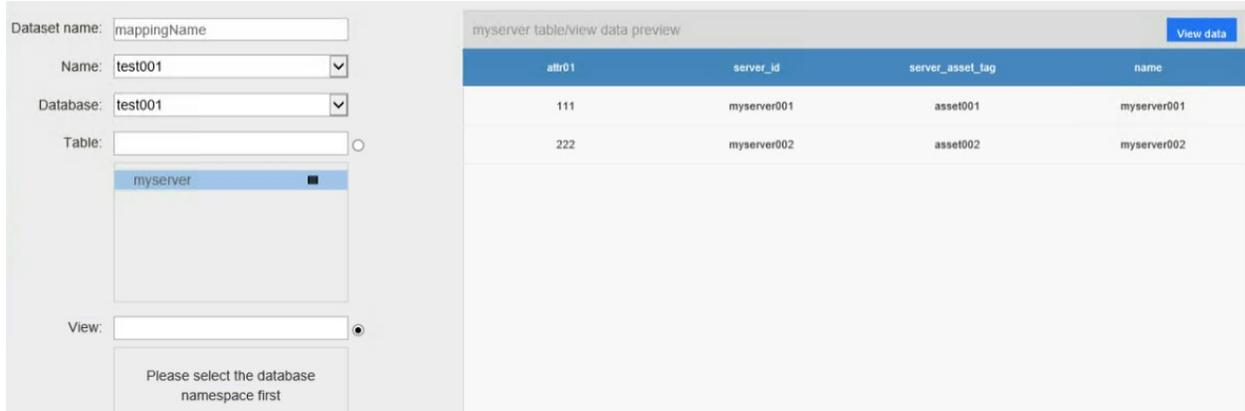
1. Select datasource to be deleted from datasource list under **Data Source** management UI, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

## 2.8.2 Dataset Management

Click **Dataset** tag in **Data Source** management UI to access dataset management functions.

### Create New Dataset

1. Click **+Add dataset** button on the upper right corner.
2. Input data set information, as shown below:



3. Click **Preview** button to preview data from dataset.

---

**Note:** First 20 records are shown in preview mode.

---

4. Click **Save** to save new dataset.

### Edit Existing Dataset

1. Click **+Edit dataset** button on the right hand side.
2. Input data set information.
3. Click **Preview** button to preview data from dataset.

---

**Note:** First 20 records are shown in preview mode.

---

5. Click **Save** to save change.

### Delete Dataset

1. Select dataset to be deleted from dataset list, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

## 2.8.3 Data Mapping

Click **Data Mapping** tag in **Data Source** management UI to access data mapping functions.

### Create New Data Mapping

1. Click **+Add Category Mapping** button on the upper right corner.
2. Input mapping ans scheduler information, as shown below:

Data Field	Alias	Map To
<input checked="" type="checkbox"/> attr01	attr01	site× Add
<input type="checkbox"/> os	os	Add
<input type="checkbox"/> server_id	server_id	ID× Add
<input type="checkbox"/> model	model	deviceModelNumber× Add
<input type="checkbox"/> server_asset_tag	server_asset_tag	Add
<input type="checkbox"/> cabinet_id	cabinet_id	belongTo× Add
<input type="checkbox"/> name	name	name× Add

Scene: ECC Category: rackDevice match

3. Click **Save** to save new data mapping.

**Note:** There are 6 required field which must exist and mapped from dataset, namely:

- ID
- Name
- Belong to
- Site
- Layout
- deviceModelNumber

### Edit Existing Data Mapping

1. Click **+Edit dataset** button on the right hand side.
2. Input mapping information.
3. Click **Save** to save change.

### Delete Data Mapping

1. Select data mapping to be deleted from data mapping list, and click delete icon on the right hand side.
2. Click **OK** to confirm delete. Click **Cancel** to cancel operation.

### Run Data Mapping Job

Data mapping can be run manually or by scheduler.

- Run Once  
Click **Execute once only** to run data import once.

- Run by Scheduler

Click **Start execution** to run data import job by scheduler.

### Stop Scheduler

Click **Stop execution** button under data mapping definition to stop data import scheduler for that particular data mapping.

## 2.9 Misc Management Functions

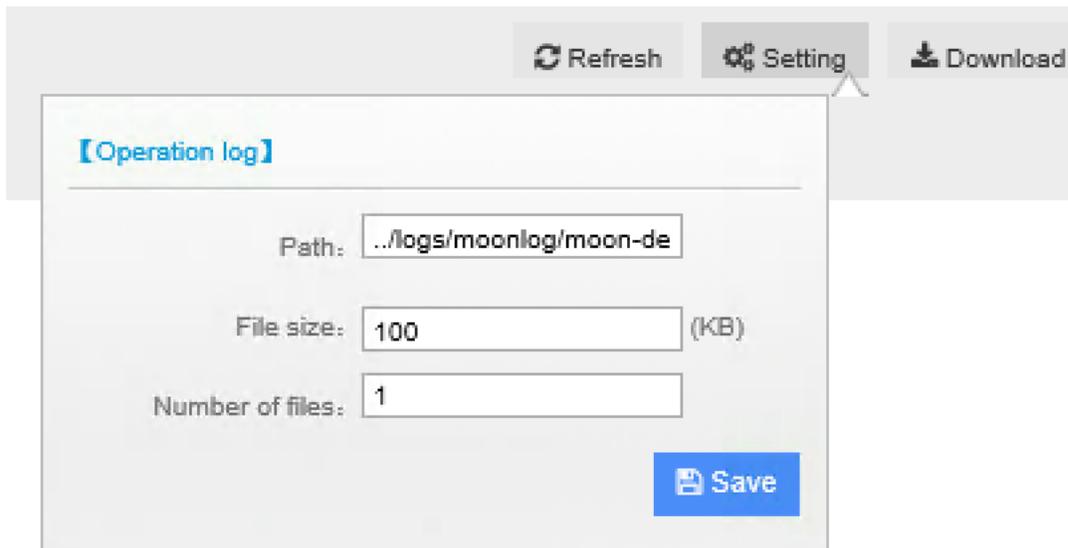
### 2.9.1 License

- View license information by click **License** tag on left navigation bar.
- To renew license, click `relicense` link on license information page.
- Get obtain machine code required to apply new license, click `Click to copy license code` button on the right hand side.

### 2.9.2 System Log

System log, includes operation log and exceptions, can be viewed online under **System log** tab.

- Refresh to refresh log
- Setting to configure the logger



- Download to download log to local disk

### 2.9.3 Advance UI Settings

uDCV 3D scene UI can be customized under **Preference** tab, please contact uinnova or your sale representative for further details.