
uDCV Administrator Guide Documentation

Release 3.0.3

uinnova

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1	Preface	1
2	Contents	3
2.1	Management Console	3
2.2	Change Password	4
2.3	User Management	5
2.4	Permission and Role Management	8
2.5	Scene Management	11
2.6	Asset Management	15
2.7	Monitor and Alarms	16
2.8	Datasource and Mapping	20
2.9	Misc Management Functions	25

Preface

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.

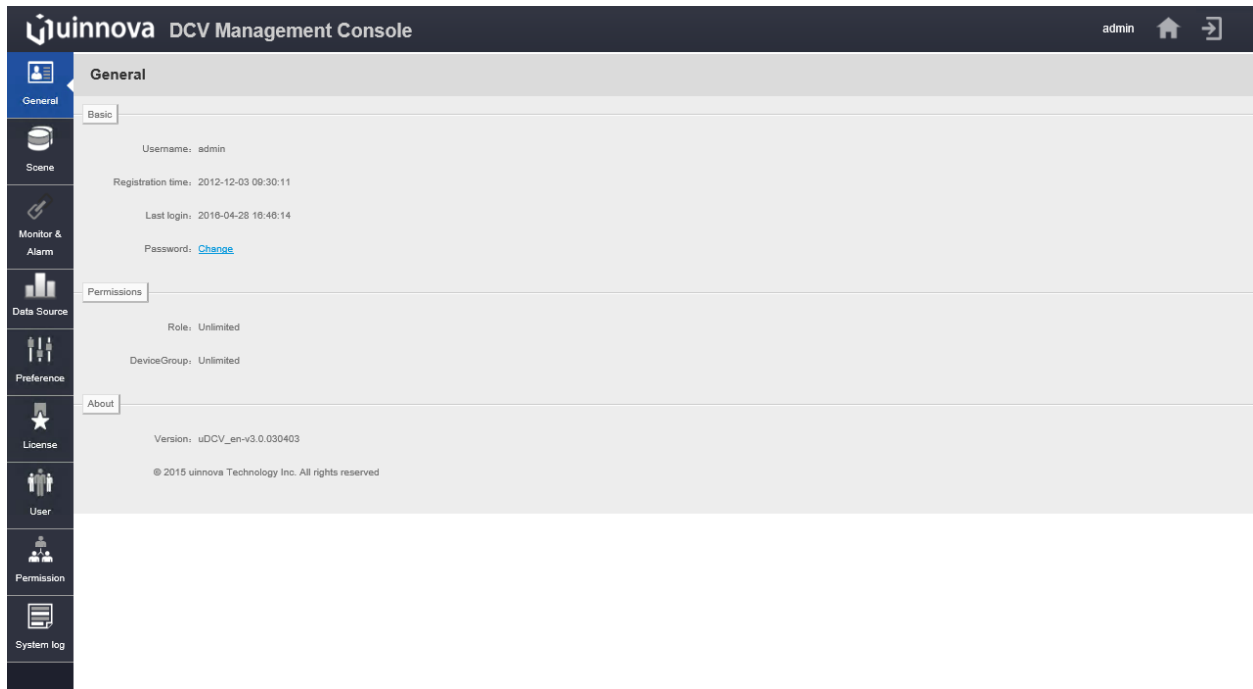
2.1.1 Open Management Console

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



2.1.2 Access Management Functions

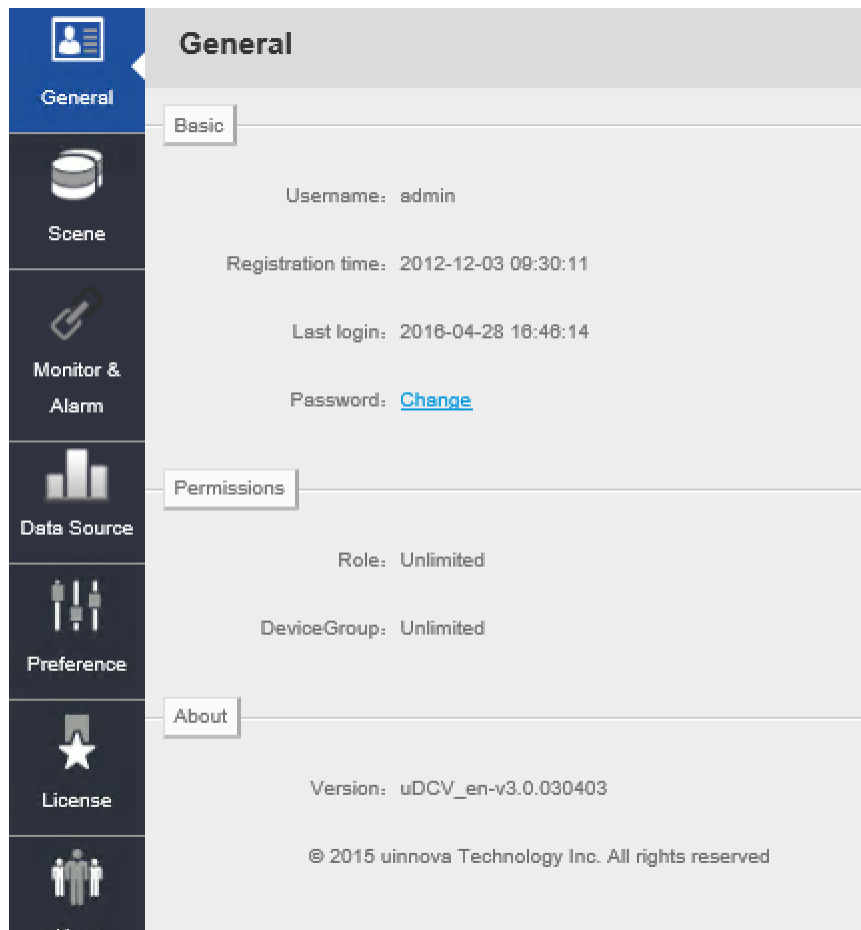
Administration functions can be accessed by the navigation bar on the left, as shown below:



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



General

Basic

Username: admin

Registration time: 2012-12-03 09:30:11

Last login: 2016-04-28 16:46:14

Password: [Change](#)

Permissions

Role: Unlimited

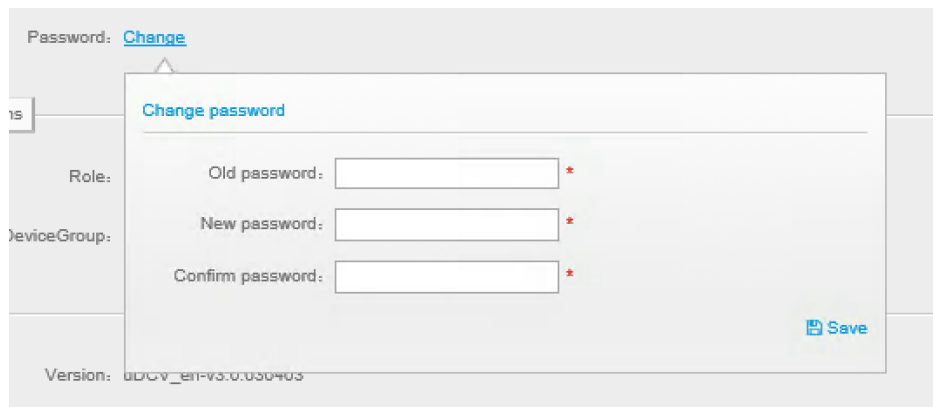
DeviceGroup: Unlimited

About

Version: uDCV_en-v3.0.030403

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



Change password

Old password: *

New password: *

Confirm password: *

[Save](#)

2.3 User Management

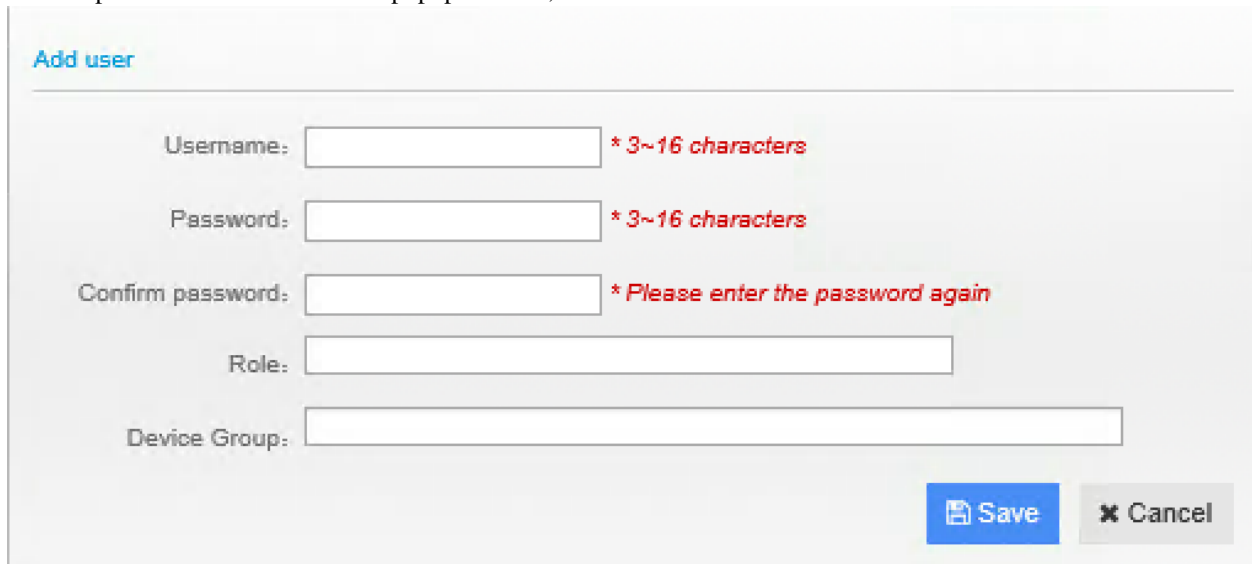
User Management module has following functions:

- 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:



The screenshot shows a light gray popup window titled "Add user" in blue text. It contains five input fields with labels to their left: "Username:", "Password:", "Confirm password:", "Role:", and "Device Group:". Each field has a red asterisk and a note to its right: "* 3~16 characters" for Username and Password, "* Please enter the password again" for Confirm password, and no note for Role and Device Group. 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 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 web interface for role management. At the top, there is a search bar and a blue '+Add' button. Below this, a modal window titled 'Add role' is open. Inside the modal, there are three input fields: 'Name' (with a red asterisk and the text '* 3~16 characters'), 'Permission' (with a red asterisk), and 'Description' (with the text '50 characters or less'). At the bottom right of the modal are two buttons: a blue 'Save' button and a grey 'Cancel' button.

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:

The screenshot shows the 'Permission' management interface. At the top, there are tabs for 'Role' and 'Device Group'. Below the tabs, it indicates '1 loaded, 1 in total'. The main content area shows a role with ID '213213', creation time '2015-08-18 15:05:33', and permission 'General User Scene Model library'. A popup window titled 'Edit role-213213' is open, showing the role's details for editing. The 'Name' field contains '213213' with a red asterisk and the text '* 3~16 characters'. The 'Permission' field shows four selected permissions: 'General', 'User', 'Scene', and 'Model library', each with a delete icon (X). The 'Description' field contains '213213' with a red asterisk and the text '* 50 characters or less'. At the bottom right of the popup are 'Save' and 'Cancel' buttons.

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:

Add device group

Name: * 3~16 characters

Devices: Click a scene name

Permission: *

Description: 50 characters or less

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

uinova provides online datacenter modelling tool called uDCB (uinova 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.

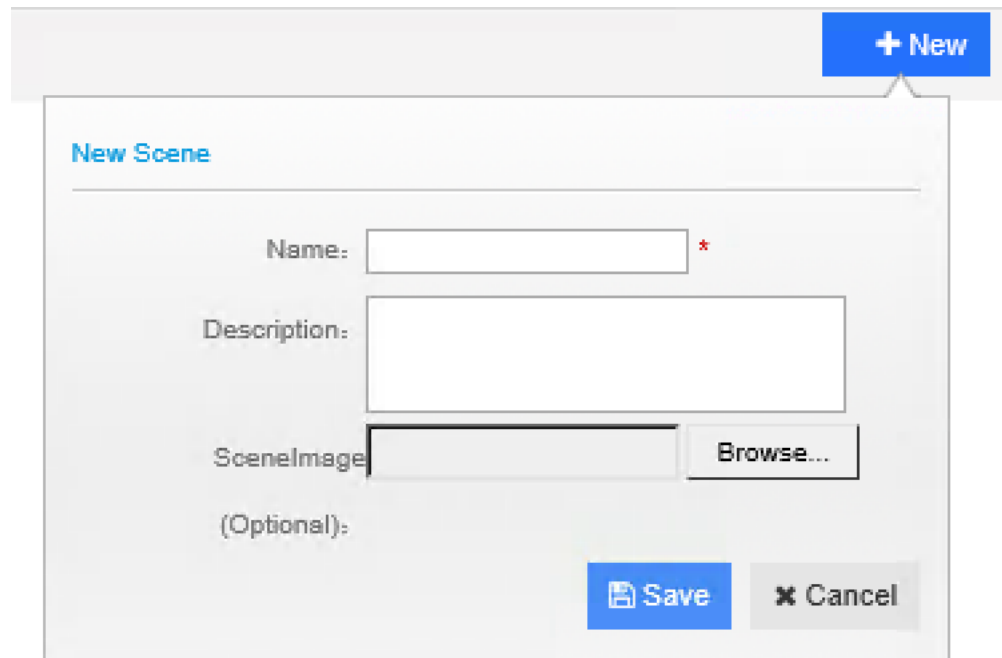
Please refer to <http://uinova.com/dcb.html> for further information.

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. It has a title bar with a blue '+ New' button. The dialog contains the following fields and controls:

- Name:** A text input field with a red asterisk indicating it is required.
- Description:** A larger text area for entering a description.
- SceneImage:** A text input field next to a 'Browse...' button.
- (Optional):** A label for an optional field.
- Buttons:** 'Save' (blue) and 'Cancel' (grey) buttons at the bottom right.

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

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.

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.

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

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.

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

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.

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

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.

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>


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

<input type="checkbox"/>	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.

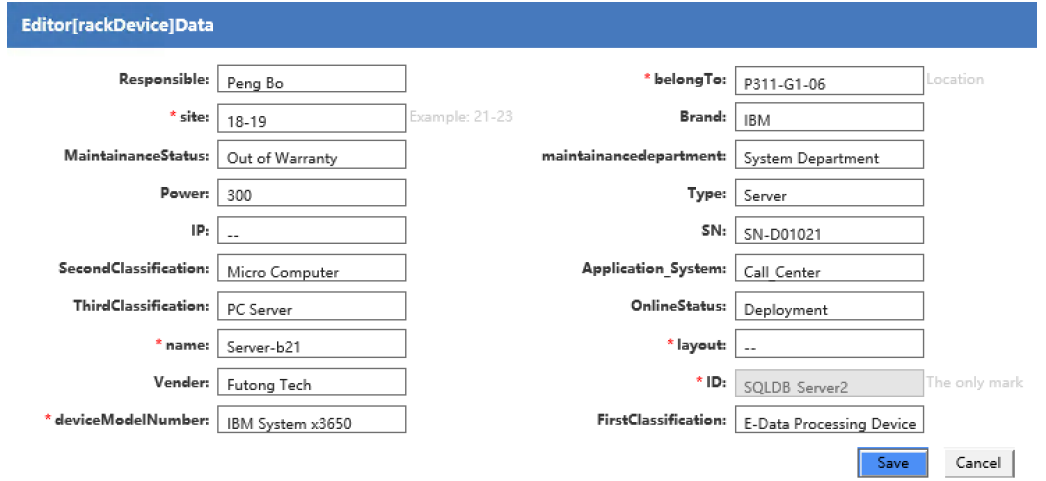
2.6 Asset Management

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	<p>Add asset data manually</p> 
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.

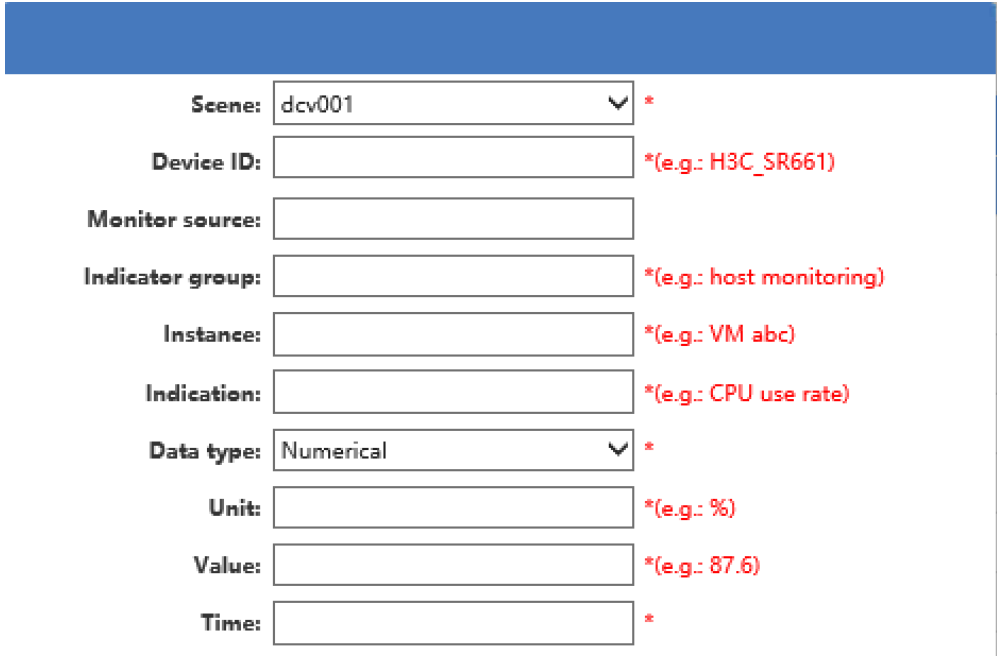
2.7.1 Performance

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

Monitor & Alarm											
<div>Monitor Alarm Queue Status Data Generator</div>											
Search <input type="text"/> Start time <input type="text"/> End time <input type="text"/> Find											
<div>Monitor</div>											
Filter <input type="text"/>											
<div>Add Copy Edit Batch Delete Remove all Import Export</div>											
<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	<p>Add performance data manually</p> 
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** :

Monitor & Alarm

Monitor Alarm Queue Status Data Generator

Search Start time End time Find

Alarm

Filter

Add Copy Edit Batch Delete Remove all Import Export

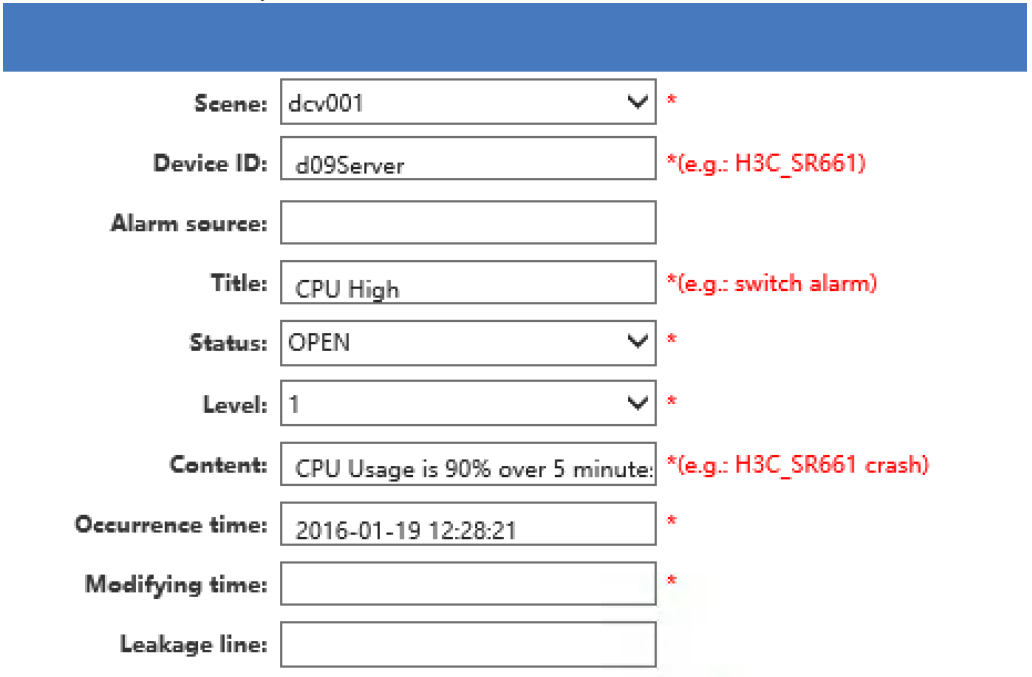
	No.	Scene	Device ID	Title	Level	Content	Time	Off time	Leakage line	Status	Operations
<input type="checkbox"/>	1	dcv001	d09Server	CPU High	1	CPU Usage is 90% over 5 minutes	2016-01-19 12:28:21	--	--	--	

< >

Home Prev 1 Next End 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	<p>Add alarm data manually</p> 
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

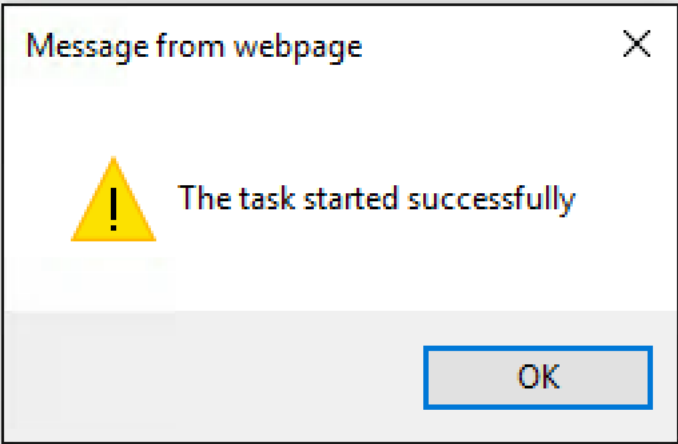
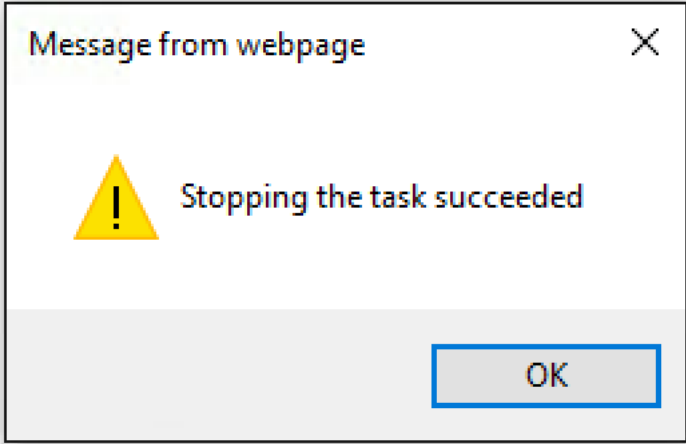
User can generate performance records using **Data Generator** for **demo** purpose. Data Generator function is located at **Monitor and Alarm -> Data Generator**. One of the typical user case is to generate data to build **HeatMap** from

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	<div>Start the Data Generator</div> <div></div>
Stop	<div>Stop the Data Generator</div> <div></div>

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 form in the uinnova DCV Management Console. The form is titled 'Data Source' and is located in the 'Data Source' section of the left-hand navigation bar. The form contains the following fields and buttons:

- Name:** linkName1
- Database type:** Oracle (dropdown menu)
- Server:** 127.0.0.1
- SID:** orcl
- Port:** 1521
- Login Credentials:**
 - Username:** tigger
 - Password:** ***
- Buttons:** Test Connection, Save, Cancel


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:

Test Connection

Save

Cancel

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:

The screenshot shows the 'Dataset configuration' panel on the left and the 'Data preview' panel on the right.

Dataset configuration panel:

- Dataset name: mappingName
- Name: test001
- Database: test001
- Table: myserver
- View: (radio button selected)
- Please select the database namespace first

Data preview panel:

myserver table/view data preview

attr01	server_id	server_asset_tag	name
111	myserver001	asset001	myserver001
222	myserver002	asset002	myserver002

View data

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:

Mapping configuration

Mapping name:

Dataset:

Search:

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

Scene: Category:

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

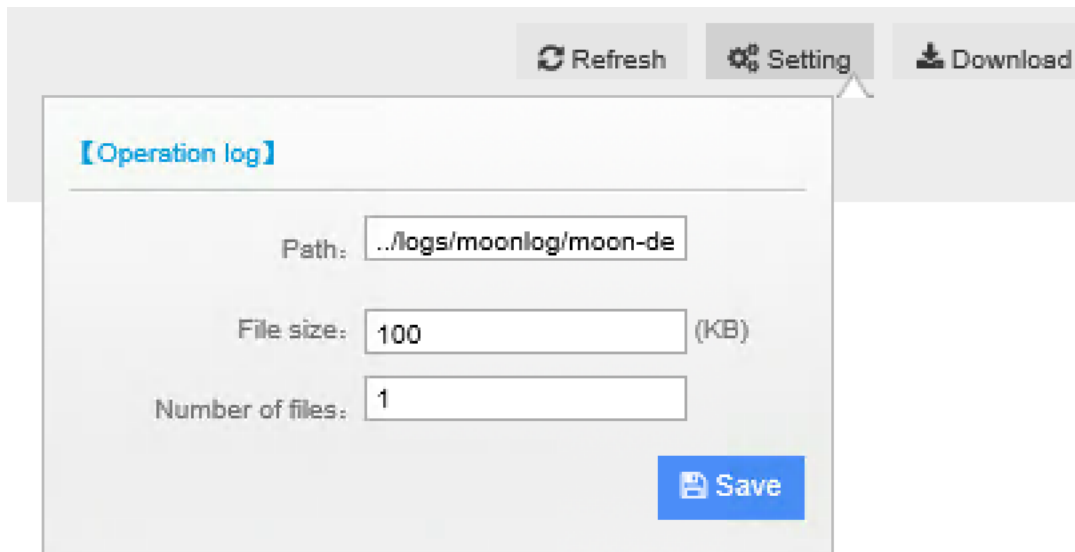
2.9.1 License

- 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



The screenshot shows a web interface for system logs. At the top, there are three buttons: 'Refresh' (with a circular arrow icon), 'Setting' (with a gear icon), and 'Download' (with a download icon). Below these buttons, a modal dialog box titled '【Operation log】' is open. Inside the dialog, there are three input fields: 'Path:' with the value '../logs/moonlog/moon-de', 'File size:' with the value '100' and '(KB)' next to it, and 'Number of files:' with the value '1'. A blue 'Save' button with a floppy disk icon is located at the bottom right of the dialog.

- 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.