MagicINFO Analytics Rule Manager User Guide v1.0

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Preface

Users of this guide

This guideline is intended for rule operators who will create and manage rules.

Conventions

This document uses the following conventions:

Boldface	Boldface indicates graphical user interface elements, menus, navigation trees and directories within the main text, yet use quotation marks for portal, window, wizard among graphical user interface elements.	
Italics	Italics indicates parameter names and values, and titles of other printed references.	
Monospace	Monospace font indicates commands and codes. Use bold monospaced font for names of commands, parameters, registries, scripts, and process. Also use italic monospaced font for variables and parameter values.	

Notes and notices

Notes provide additional information to users such as tips, recommendations, exceptions, and restrictions.

(sample) Make sure to install the 64-bit version of the driver to use the 64-bit version of the ABC statistics software. The 32-bit version of the driver is not compatible with the software.

Revision History

Manual Version	Revised Date	Revised Details
1.0	2019. 04. 26	Created

1. Getting Started

To play the appropriate content for the surrounding conditions of the display device, you can manage by registering the playback conditions.

"How to use Rule Manager" explains the following topics:

• Checking the list of rules

Explain how to search the rule from rule list

Creating rules

Explain how to create rules and to set Target/Condition details

Executing rules

Explain how to execute rules

• Uploading sales data

Explain how to upload and mange sales data for creating sales analysis based rules and analyzing sales effectiveness

Viewing sales performance report

Explain the report that shows how the ad content triggered by the rule influences sales

Chrome Browser is required. Click the Analytics icon on the left menu bar to get started.

* Analytics icon will be shown when Analytics license is purchased.

2. User Role Definition

The role to use Analytics is as follows:

Role	Description
Rule Author	The role of creating and managing rules. Users with this role must have the Content Manager and Device Manager role.

3. How to use Rule Manager

3.1 Checking List of Rules

To check registered rules, complete the following steps:

- 1. Click **Analytics** on the left menu bar
- 2. On the search area above the list of schedules, select the search criteria to search for the rule item you want to look up. The list of rules falling under the search conditions will appear. The search criteria include rule name, period and rule status.

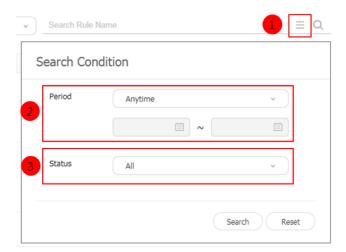


Figure 3-1 Rule Search Conditions

No.	Item	Description
1	Search Condition popup button	Click the button to see the popup for search condition setting.
2	Period	Set the period of rule application as the search condition. The period option includes Today, Last 7 days, Last 30 days, Custom setting and All.
3	Status	Set the rule status as the search condition. The status option includes Active, Inactive and All.

Table 3-1 Rule Search Conditions Description



Figure 3-2 Screen For Rule List

No.	Item	Description
1	Default Content	Set default content on the device group for the case when no rule is triggered.
2	Add	Create a new rule.
3	Device Group	Search the rule list based on the device group where the rule is applied.
4	Period Sort arrow	Arrange in descending/ascending order based on the period to applying the rule.
5	Active/Inactive	Activate/inactivate the rule.

Table 3-2 Items In Rule List Features

On the "Rule list" window, you can perform the following tasks:

- The thumbnail image of rule's main content is displayed at the very left of the rule list.
- Double-click the rule from the list to view detailed information on the rule.
- Right-click the rule to show the menu. See below for the features of the menu on the right.

Item	Description
Make a copy	Copy the selected rule to create a new rule.
Rename	Change the selected rule name.
Delete	Delete the selected rule.

Table 3-3 Right-Click Menu On The Rule List

Default Content Setting

Default content to play should be set for the case when any rule isn't created or triggered.

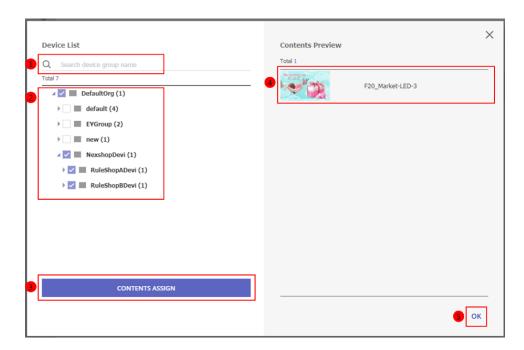


Figure 3-3 Setting Default Content

No.	Item	Description
1	Device Group Name	Search by name from the list of child device groups
2	Device Group Select	Select the device group to apply default content
3	Contents Assign	Open the content selection pop-up for selecting the content to assign to the device group
4	Contents Preview	Preview the list of assigned content to the selected device group
5	ОК	Save the setting

Table 3-4 Default Content Setting Description

3.2 Creating Rules

Dragging Target/Condition

A rule can be created only by a user who has the Rule Author permission. To create a rule, complete the following steps:

- 1. Click **Add** button on the top of the screen.
- 2. On the pop-up window, enter rule name and description and do not use duplicated rule names.

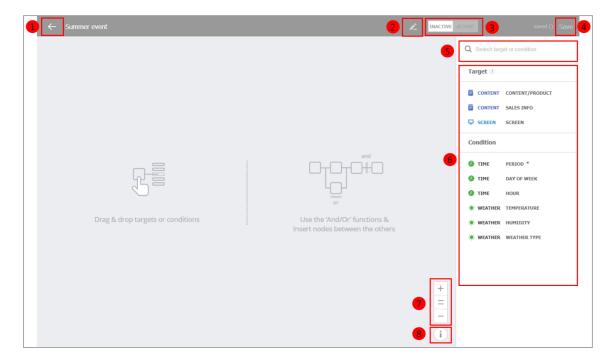


Figure 3-4 Screen for Rule Design

No.	Item	Description
1	←	Click to exit the screen and move to the rule list.
2	2	Click to see a memo editing screen.

No.	Item	Description
3	INACTIVE/ACTIVE	A toggle button to Active or Inactive selected rule. When creating the rule, this button is disabled and the status cannot be changed. Once the rule is created, the button is enabled and you can change the status.
4	SAVE	Save the rule. The screen moves to the rule list after saving.
5	Search	Search Target or Condition by the name.
6	Target, Condition	A Target or Condition to be used in the rule. Create a rule by dragging the list and dropping it on the canvas.
7	+/=/-	On the canvas listing row conditions, click (+) to expand, (=) restore to original, and (-) to reduce.
8	!	Tooltip pop-up to explain how to create a rule

Table 3-5 Rule Design Item Description

- 3. Drag one from the list of **Target/Condition** on the right and place on above the left canvas.
- 4. The Target/Condition dragged and dropped on the canvas is displayed as rectangular icon shape and the Target/Condition area on the right shows the detailed settings screen of the dragged and dropped Target/Condition.

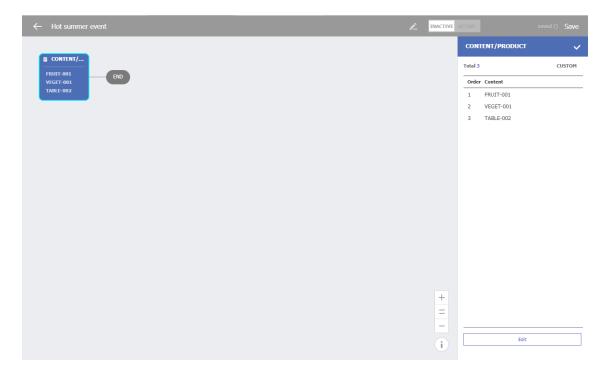


Figure 3-5 Rule Canvas

- 5. If one rectangular icon is created, an **END** icon is additionally created at the end and the two icons are connected by a line.
- 6. Then you can place a **Target/Condition** above the connected line or below the **Condition** icon.
- 7. **Target** and **Condition** have the following types:

Target Name	Description
SCREEN	Set the display device to apply the rule.
CONTENT	Set the content to play under a set condition.
SALES INFO.	Set the condition for the content based on sales data analysis.

Table 3-6 Target Description

Condition Name	Description
PERIOD	Set the period to apply the rule.
DAY OF WEEK	Set the day of week to apply the rule.
HOUR	Set the hour to apply the rule.
HUMIDITY	Set the humidity conditions.
TEMPERATURE	Set the temperature conditions.
WEATHER TYPE	Set the weather type conditions. (Sunny, Cloudy, Rainy, Snowy)

Table 3-7 Condition Description

Note:

The **Target Content** and the **Device** are mandatory and duplicated use is not possible.

Also, the list indicated with an asterisk (*) in the Condition area is mandatory.

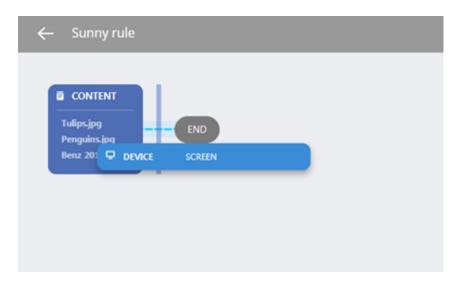


Figure 3-6 Dragging the Target/Condition

8. A **Condition** can be placed in between or at the bottom of the conditions as shown in the area indicated in the figure below. Placing it to the side sets it as an AND condition and placing at the bottom sets it as an OR condition.

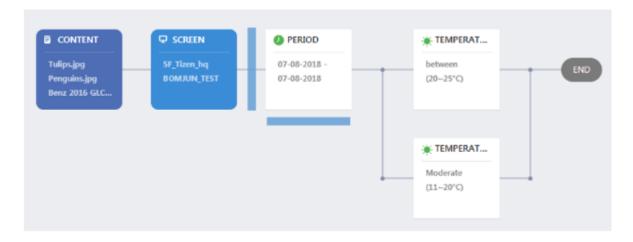


Figure 3-7 Placing Conditions

9. If you click **Target/Condition**, a detailed setup screen appears on the right.

Detailed Settings by Target/Condition

If you drag and drop the conditions to the canvas, a screen to set up detailed information by each condition

appears on the right. If you enter a detailed value by each condition and click above the canvas or check the button, the set details are displayed on the Condition icon above the canvas.

Target: Setting the display device group

Select the display device group to apply the rule to. The processes to set the detailed screen (device group) information are as follows:

1. If you drag and drop a **SCREEN**, a screen for detailed settings will appear on the right..

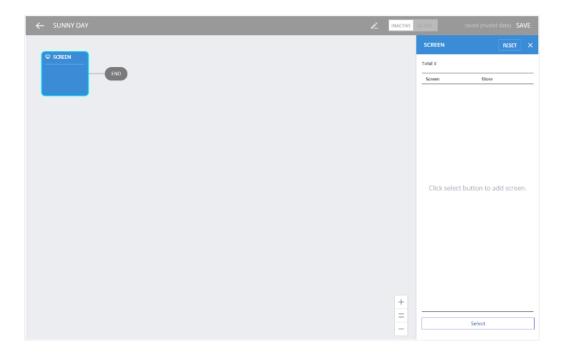


Figure 3-8 SCREEN Details

1. Click the **SELECT** button and a screen for device group selection will be displayed.

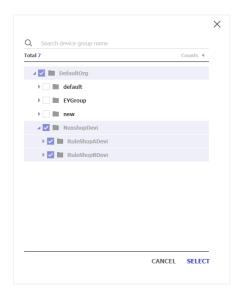


Figure 3-9 Device Group Selection Pop-up

- 2. You can view the list in the device group tree and also can search by name.
- 3. Select a display device to apply rules to and click the **SELECT** button. Then the pop-up window will close.



Figure 3-10 Screen (Device group) List

- 4. Selected display device is added.
- 5. Once the selection is complete, click the (V) button or click the canvas area to finish.

Target: Setting content

 If you drag and drop a CONTENT, a screen for detailed settings will appear on the right. If you click the SELECT button just like SCREEN, the screen to select content will be displayed. Image type or Video type content from MagicINFO Server that content is uploaded using **MagicINFO Content** menu, is displayed in the content list.

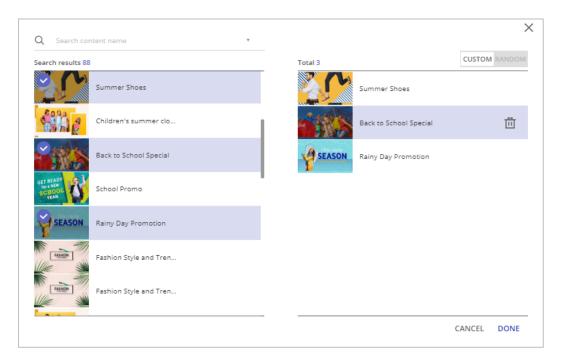


Figure 3-11 Selecting CONTENT Pop-up

- 2. You can search by content name or tag.
- 3. Click **CONTENT** on the left list to add it to the list in the right selection area. Hover over the added list and the Delete button will appear.
- 4. Set the play order of the content. Choose from either **CUSTOM**, which selected by the user, or **RANDOM** which is randomly selected.
- 5. In the **CUSTOM** state, you can change the order by clicking and dragging a content in the selection area and moving it to the desired location

Target: Setting sales data based content

Use the sales data to play the content matching the result of sales ranking analysis by product category, time, weather, etc. The time and weather conditions are identical to the time and weather conditions used at the time of creating the rules.

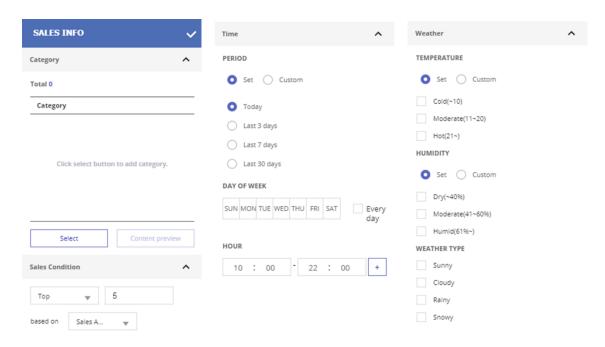


Figure 3-12 Setting Sales Data based Content

Condition: Setting time conditions

There are three time conditions: period, day of the week, and time.

1. Period condition

Set the period of rules being applied. To select the period, click on the calendar icon and select the dates or directly type in the dates.

2. Day of the week condition

Set the day of week of when rule will be applied. To select the day of week, select the corresponding icons as shown below.

3. Time condition

Set the time interval of when rule will be applied.

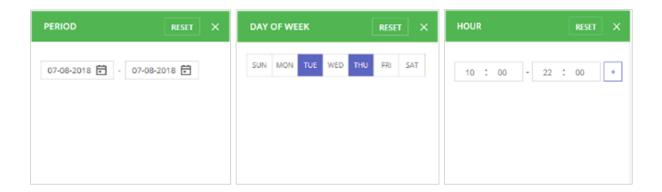


Figure 3-13 Setting Period/Day of Week/Hour

Condition: Setting weather conditions

There are three types of weather conditions: humidity, temperature, and weather type. Weather information is based on the location where the device is installed. To use weather information, the latitude / longitude of the device location must be set in the **Map Location** on the **MagicINFO Device** menu.

Note:

It is recommended to set the same value among the devices in the same group due to rules are executed by device group. If you set different information for each device, one of them will be randomly selected to get the location information of the device group.

1. Humidity

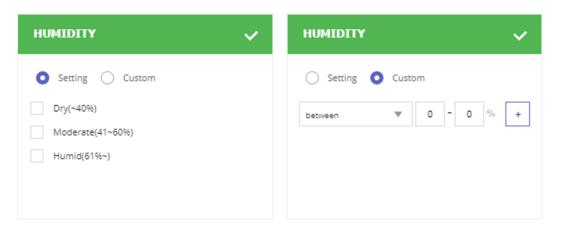


Figure 3-14 Setting Humidity condition

a. To select from the predefined humidity sections, click Setting. You can select more than one

humidity section.

- b. To customize humidity sections, click Custom.
- c. Click add (+) button to add more sections.

2. Temperature

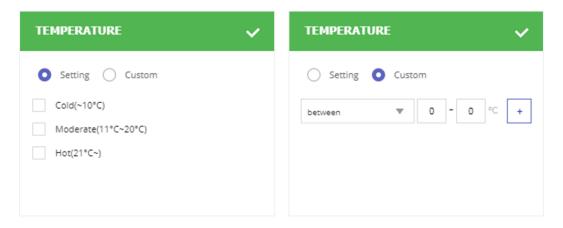


Figure 3-15 Setting Temperature Condition

- a. To select from the predefined temperature sections, click Set. You can select more than one temperature section.
- b. To customize temperature sections, click Custom.
- c. Click the add (+) button to add more sections.

3. Weather type condition

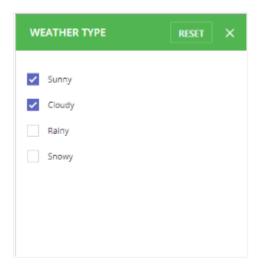


Figure 3-16 Setting Weather Type Condition

- a. Predefined weather types are displayed on the screen.
- Select from the weather type to set as the rule condition. You can select more than one weather type.

3.3 Executing Rules

If you create a rule and click **ACTIVE** button, the rule is activated. Then, DataLink service needs to be created to bring content information that rule provides. The DataLink service requests the content lists to display for device group at each call cycle set.

The rule-based content playback is carried out by the following procedure:

- Activating rules
- Creating DataLink content
- Creating schedules

Activating Rules

Click **ACTIVE** for the created rule.

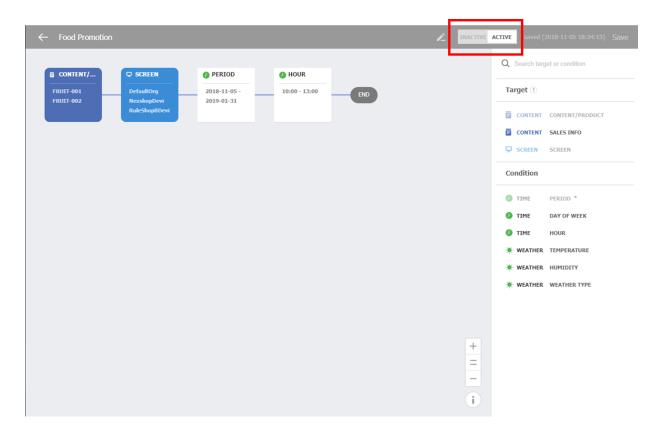


Figure 3-17 Activating Rules

Creating DataLink Content

Refer to Configuring DataLink and Creating content in MagicINFO Web Manual.

Route: Products > MagicINFO Server > User Guide > Content > Making content > Configuring DataLink

(http://displaysolutions.samsung.com/docs/pages/viewpage.action?pageId=2065253)

Creating Schedule

Create a schedule using the DLK content created in the previous step. Set the created schedule to the device group to which the rule is applied.

3.4 Uploading Sales Data

The sales data of each store are collected not only to be used as rule conditions, but also to analyze how sales have been affected by an advertisement.

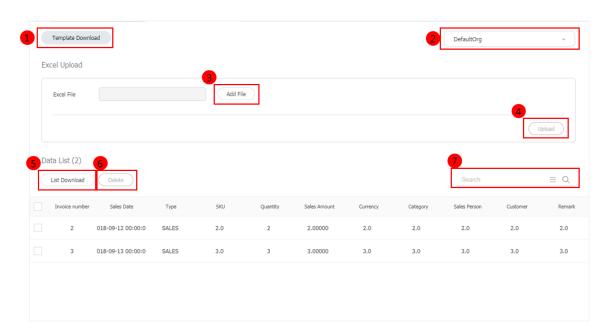


Figure 3-18 Uploading Sales Data

No.	Item	Description
1	Template download	Download a registration form containing sales data in Excel file.
2	Select a registered store	Select a store to register the sales data.
3	Add file	Select a sales data file (Excel) to be registered.
4	Upload	Upload the selected sales data.
5	List download	Download the searched sales data in Excel file.
6	Delete sales data	Select and delete sales data.
7	Search sales data	Search sales data with a keyword.

Table 3-8 Uploading sales data description

3.5 Viewing Sales Performance Report

Sales Performance Report shows how the ad content triggered by the rule influences sales with various data such as traffic count, weather, time & day, playout data, etc. Sales data must be uploaded to view the report.

Condition Setting and Result Summary

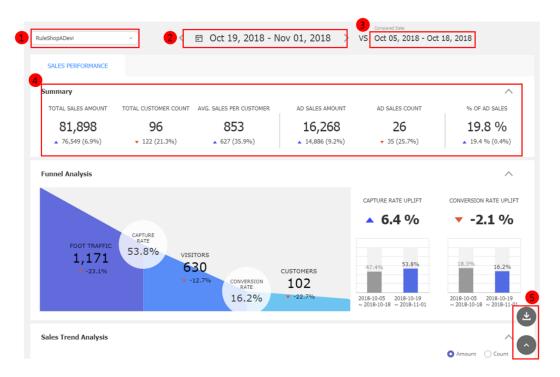


Figure 3-19 Sales Performance Report Top

No.	ltem	Description
1	Store (Device Group)	Select the Device Group where the Store license is issued.
2	Date Range	Select date range to search.
3	Compared Date	Date range to compare.
4	Data Summary	Total sales amount, customer count (= number of invoices), average sales per customer, ad product sales amount, ad product sales count, ad product sales ratio (out of total sales) and the change rate of each information between the period.

No.	Item	Description
5	Excel Download/Move Screen Up	Data from Sales trend analysis, Ad performance analysis, time & day analysis, weather analysis can be downloaded as an excel file. Click [^] button to move screen up.

Table 3-9 Sales Performance Report Top Description

Funnel Analysis

Funnel Analysis for the selected store provides people traffic in front of store, store visits, customers, capture rate, conversion rate and the change rate.



Figure 3-20 Funnel Analysis

Note:

Funnel Analysis chart is shown to only for the users who purchased Behavior Sensing Solution.

Sales Trend Analysis

Sales Trend Analysis provides sales trend for the selected period and the ratio of ads to non-ads sales.



Figure 3-21 Sales Trend Analysis

No.	ltem	Description
1	Sales data value	Select sales amount or sales count.
2	Period adjustment panel	Adjust the range of the period by moving the icons on the left and right.

Table 3-10 Sales Trend Analysis Description

AD Performance Analysis

AD Performance Analysis shows the total sales ranking of the products associated with the ad content played by the rule, the sales change rate and the summary of playback history.

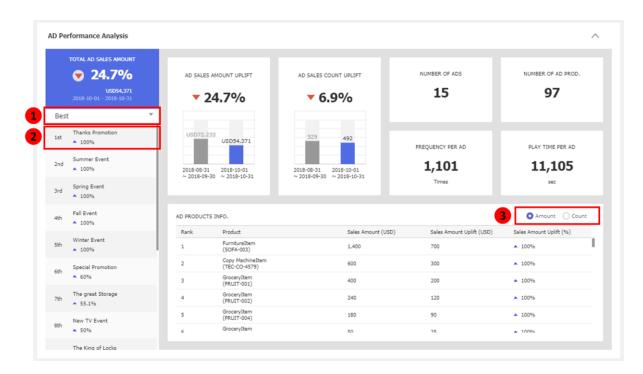


Figure 3-22 AD Performance Analysis

No.	Item	Description
1	Ranking data	Select Best or Worst to view ranking.
2	Ranking Information	Content name and the sales change rate of the product associated with the content by rank
3	Sales data value	Select sales amount or sales count.

Table 3-11 AD Performance Analysis Description

Time & Day Analysis

Time & Day Analysis shows sales index in color according to legend by time of day and day of week based on sales average data of advertised products. The index is the relative figures of sales by Time&Day based on average hourly sales during the period selected and it explains how much or little sales were compared to the average sales.

* Index = (Average Hourly Sales per Time&Day / Average Hourly Sales of Period Selected) * 100

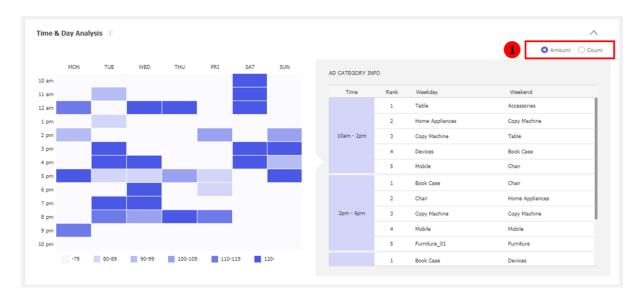


Figure 3-23 Time & Day Analysis

No.	Item	Description
1	Sales data value	Select sales amount or sales count.

Table 3-12 Time & Day Analysis Description

Weather Analysis

Weather Analysis shows the sales index by weather type, temperature section and humidity section based on sales average data of advertised products. The index is the relative figures of sales by weather based on average hourly sales during the period selected and it explains how much or little sales were compared to the average sales.

* Index = (Average Hourly Sales per Weather Condition / Average Hourly Sales of Period Selected) * 100

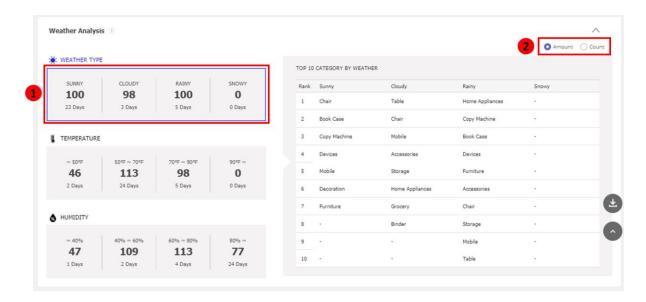


Figure 3-24 Weather Analysis

No.	Item	Description
1	Sales index and duration	Sales index and number of days the condition fits.
2	Sales data value	Select sales amount or sales count.

Table 3-13 Weather Analysis Description