< USER'S GUIDE >

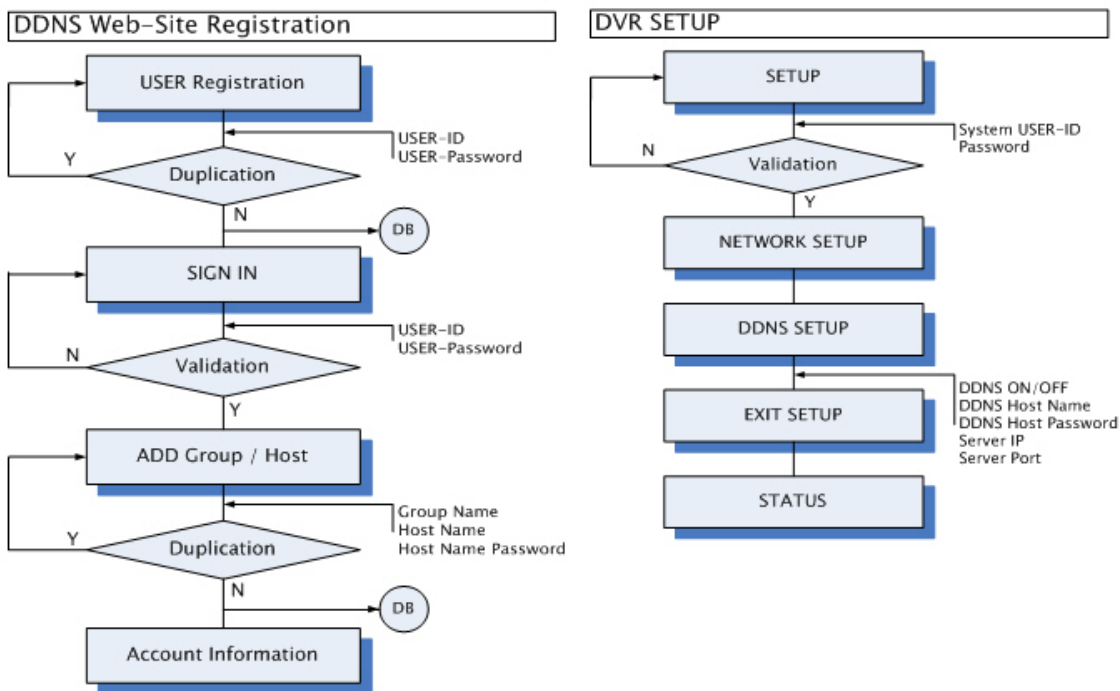# DDNS(Dynamic Domain Name System)

1. What is DDNS Service?

DDNS (Dynamic Domain Name System) is a service that maps domain names to IP addreesses. DDNS serves a similar purpose to DNS. Unlike DNS that only works with static IP addresses, DDNS works with dynamic IP addresses, such as those assigned by ISP or other DHCP server. And it provides client machines with a static DNS name even if their IP address is dynamically assigned.
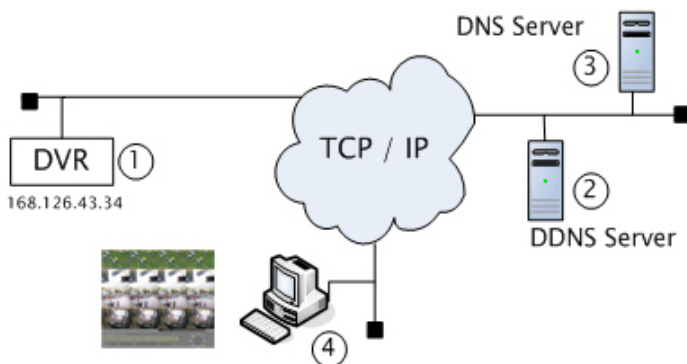
DDNS is popular with home networkers, who typically receive dynamic, frequently-changing IP addresses from their service provider. To use DDNS, one simply signs up with a provider and installs network software on their host to monitor its IP address.

(Web Monitoring, Remote Access Software)

2. System Flow Diagram

(4) PC	USER ID & Password issuing from DDNS Web site
	GROUP / HOST issuing (Domain name/ Password)
(1) DVR	DDNS information input
(1) DVR → (2) DDNS Server	Transmitting DVR information to DDNS Server
(2) DDNS Server → (1) DVR	Domain name & password Validation

(2) DDNS Server → (3) DNS Server	Renew domain IP in DNS server in case of New domain name
(2) DDNS Server → (1) DVR	Response message transmission: ACT, ERR (0x8000800x)
(1) DVR	ACT / ERROR display on Status screen
(4) PC	Remotely access using domain dame to DVR in DDNS website / URL / Remote Software

3. DDNS System Operation

3.1 DDNS USER Registration

Please register new login user to user DDNS service in DVR.

주소(D) http://www.rifatron.net/

Select "Sign Up (Create Account)"

Registration creates an account with rifatron.net that protect your settings from unauthorized change.

Enter the information below which is required (Mandatory Clause)

Create Accounts

Mandatory clause

> User ID   [   ] [Duplicate Check]
>   User ID will be used to login to your account and make changes.
>   It must be between 5 and 20 characters no spaces and special characters

> Password   [   ]

> Confirm Password [   ]
>   The password you enter will be used to access your account.
>   It must be between 5 and 20 characters and cannot be your user ID.
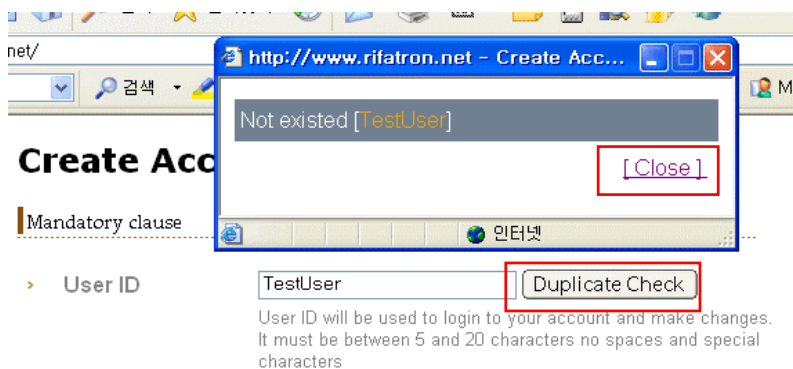
Mandatory Clause

1. USER ID: ID to log in to DDNS website

2. Password / Confirm Password:

Enter a secret password and retype

password to confirm

.After entering User ID,please check whether User ID is already taken or not by clicking "Duplicate Check"on the right. After "Duplicate Check"Window appears, make sure to click "Close"to close the window. If "Duplicate Check" Flagt is not completly set, User registration can not be successfully completed.

⚠ If you set Pop-up blocker to prevent Pop-up window from appearing, deactivate Pop-up Blocker in"Tools-Internet Option-Privacy"

http://www.rifatron.net - Create Acc...

Create Acc

Not existed [TestUser]

[Close]

인터넷

Mandatory clause

> User ID   [TestUser] [Duplicate Check]
>   User ID will be used to login to your account and make changes.
>   It must be between 5 and 20 characters no spaces and special characters

.

. Enter "Mandatory Clause" and "Option". And then select "Submit"button.

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⚠️ **Error Message List**

1. USER ID Duplicate Error

2. USER EMAIL Duplicate Error

3. INTERNAL ERROR (Internal Server Error such as WEB SERVER DOWN, DATABASE)

3.2 DDNS USER Signing In

. Select "Sign In"

| id : [   ] | password : [   ] |

. [LOGIN]

. After entering ID, Password, click "LOGIN". Once you are identified, below message will be displayed.

Welcome to RIFATRON DDNS Service

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3.3 DDNS Host Registration

. Select "Add DDNS Host" on the right section.

Sign Up (Create Account)
Sign Out
ADD DDNS Host
Account Information

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. ADD DDNS Host is divided into two: "GROUP ADD" and "HOST ADD" which are classified as follows:

⚠️ **GROUP / HOST LIST**

1. GROUP LIST: http://xxx1.**xxx2**.rifatron.net (**xxx2** will be GROUP NAME).

2. HOST LIST: http://**xxx1**.xxx2.rifatron.net (**xxx1** will be HOST NAME)

3.3.1 GROUP Name Registration

New Dynamic DNS Host

| Group Registration |

> Group List   --- No Registered Group List --- ▼
                  --- No Registered Group List ---   Max.5 Groups.

> Add Group   [   ] . rifatron.net [Duplicate Check]
                2 ~ 8 characters in lowercase

[Submit]

.

. Enter "GROUP NAME in "ADD GROUP" field and click "Dupulicate Check".

http://www.rifatron.net – Create Acc...	http://www.rifatron.net – Create Acc...
[Group Name] => Already existed [brian.rifatron.net]	[Group Name] => Not existed [brave.rifatron.net]
[Close]	[Close]
완료 🌐 인터넷	완료 🌐 인터넷

. After selecting Group name which is not taken and checking, you must select "Close" button .

3.3.2 HOST Name Registration

GROUP USE	Please use GROUP name which was already registered (xxx field is GROUP NAME) ex) ON: HOST name.**xxxx**.rifatron.net / OFF: HOST name.rifatron.net

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GROUP LIST	Already registered GROUP NAME list
ADD HOST	"GROUP USE ON": HOST name.xxxx.rifatron.net "GROUP USE OFF": HOST name.rifatron.net
HOST PASSWORD	All of domain name is to be needed 1 password each domain to register and verifiy on the DDNS Server.

. If you have already registered GROUP in ADD GROUP, please register HOST name to sign up for FQDN(Fully

Qualified Domain Name). (For the difference between GROUP name and   HOST name, please refer to ⚠️ field

under the chapter 3.3 DDNS HOST Registration)

. Select GROUP name in the GROUP LIST and enter Host name in TEXT BOX.

. By clicking "DUPLICATE CHECK" button in the far right of TEXT BOX for Duplicate check.

. If Host name is already taken, please take a very first step to register HOST name.

.Enter HOST PASSWORD.

. If you successfully enter DVR INFO, Pop-up window as below will appear.

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.After selecting "OK, automatically it will be moving forward to Registration list page.

Account ( )

>	USER Password	[Edit]
>	E-mail	
>	DNS Group Count	6
>	DNS Host Count	10
>	Last Updated Time	2005-06-08 16:10:31

OK ● ERROR ● STANDBY ●

☐	No	Last Updated	Domain Name			IP Address	Status	
☐	10	0000-00-00 00:00:00	rifa001.brian.rifatron.net	▷🎥❗	🖥🔍❗	211.117.45.10	●	[Edit]
☐	9	2005-06-08 16:06:06	rifatron.brian.rifatron.net	▷🎥🔑	🖥🔍🔑	211.117.45.27	●	[Edit]
☐	8	2005-06-08 16:06:41	dvr8.rifa.rifatron.net	▷🎥	🖥🔍	211.117.45.22	●	[Edit]
☐	7	2005-06-08 16:06:36	dvr.michael.rifatron.net	▷🎥	🖥🔍	211.117.45.21	●	[Edit]
☐	6	0000-00-00 00:00:00	dvbr000.rifa.rifatron.net	▷🎥❗	🖥🔍❗	211.117.45.10	●	[Edit]
☐	5	2005-03-24 18:36:43	brian.rifa.rifatron.net	▷🎥❗	🖥🔍❗	211.117.45.21	●	[Edit]

. Newly registered Domain list are as follows:

OK ● ERROR ● STANDBY ●

☐	No	Last Updated	Domain Name			IP Address	Status	
☐	10	0000-00-00 00:00:00	rifa001.brian.rifatron.net	▷🎥❗	🖥🔍❗	211.117.45.10	●	[Edit]

Last Updated	It will be displayed after registration of dvr.		
Domain Name	Domain Name user entered		
Live / Playback Monitoring ICON	🎥🖥🔍	🎥🔑🖥🔍🔑	🎥❗🖥🔍❗
	AUTO LOGIN Option "ON" OK (ACTIVE)	AUTO LOGIN option "OFF" OK (ACTIVE)	Not connected to DVR (ERROR)
IP Address	Once DVR IP is changed, automatically IP address will be renewed		
STATUS	Color Green: Stand by; Color Red: Error; Color Blue: OK		
EDIT	To change the Host Information		

Editing Host

>	DNS Name	saasasfa.rifatron.net
>	DNS IP Addr	121.166.152.103
>	Host Password	
>	Status	◯OK ◯ERROR ◉STANDBY

[Edit]

Windows Internet Explorer

⚠ YOUR HOST IS SUCCESSFULLY CHANGED!!

[확인]
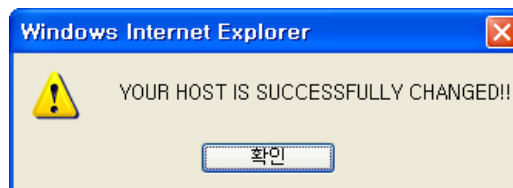
. "EDIT" is to edit registered Information and New window will pop-up by selecting EDIT.

NEW PASSWORD	To change password for DNS HOST Name