

Principles of RADIUSdesk Profiles

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Introduction

Each Voucher, Permanent User and BYOD Device will have a profile attached to it. Profiles are used to control the behavior of the NAS device through which a user (Voucher, Permanent User or BYOD Device) connects to the network. This will include the following:

- Limiting the bandwidth.
- Limiting the total data available over a time period e.g. a monthly data cap.
- Preventing the user from connecting **before** a specified date.
- Preventing the user from connecting **after** a specified date.

RADIUSdesk installs with a few Profiles ready to choose from when you add a new Permanent User. But you are still able to create your own custom Profile.

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MESHdesk

APdesk

Profiles manager

Action

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	Name	Available to sub-providers
1	Time-Standard-1Hour	Yes
2	Time 8Hours standard	No
3	Time 24Hours standard	No
4	Monthly 4G Soft Cap	Yes
5	Data-Standard-500	Yes

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Profile component mana

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	Name	Check attribute count
1	BW-384Kb	0
2	BW-1Gb	0
3	50M	3
4	500M	3

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http://www.radiusdesk.com/docuwiki/technical_discussions/principle_profile#principles_of_radiusdesk_profiles

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Profiles with Profile Components

- A Profile will have one or more **Profile components** assigned to it with a certain priority level set for each component.
- **Profile components** can consist of:
 - **Time and Data counters** to limit the total data or time usage over a specified period of time.
 - **Attributes** that will instruct the NAS to apply certain limitations like the bandwidth.

Some sample Profile Components

This section will list a few sample Profile components which can be used as a reference when creating your own ones.

Instead of combining counters and throttles, simply create a few **building block** profile components which you can mix and match in the profiles.

1Gb Data - Never Reset

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Data	Check	:=	1000000000	Multiply by 1024 if you want to be more technical 😊
Rd-Reset-Type-Data	Check	:=	never	
Rd-Cap-Type-Data	Check	:=	soft	Options are hard or soft. Soft will not cut the user off if they are over the limit
Fall-Through	Reply	:=	Yes	Required to group these components together

500Mb Data - Reset monthly

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Data	Check	:=	500000000	Multiply by 1024 if you want to be more technical 😊
Rd-Reset-Type-Data	Check	:=	monthly	
Rd-Cap-Type-Data	Check	:=	hard	Options are hard or soft. Soft will not cut the user off if they are over the limit
Rd-Reset-Day	Check	:=	25	The counter will start at zero again in the 25th each month
Fall-Through	Reply	:=	Yes	Required to group these components together

250Mb Data per day - Reset daily

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Data	Check	:=	250000000	Multiply by 1024 if you want to be more technical 😊
Rd-Reset-Type-Data	Check	:=	daily	
Rd-Cap-Type-Data	Check	:=	hard	Options are hard or soft. Soft will not cut the user off if they are over the limit
WISPr-Bandwidth-Max-Up	Reply	:=	384000 (384kb/s)	Multiply by 1024 if you want to be more technical 😊
WISPr-Bandwidth-Max-Down	Reply	:=	384000 (384kb/s)	Multiply by 1024 if you want to be more technical 😊
Fall-Through	Reply	:=	Yes	Required to group these components together

Bandwidth limiting 384kb/s

Attribute	Check or Reply	Operator	Value	Comment
WISPr-Bandwidth-Max-Up	Reply	:=	384000 (384kb/s)	Multiply by 1024 if you want to be more technical 😊
WISPr-Bandwidth-Max-Down	Reply	:=	384000 (384kb/s)	Multiply by 1024 if you want to be more technical 😊
Fall-Through	Reply	:=	Yes	Required to group these components together

2 Hours per day - Reset daily

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Time	Check	:=	7200	This is in seconds
Rd-Reset-Type-Time	Check	:=	daily	
Rd-Cap-Type-Time	Check	:=	hard	Options are hard or soft. Soft will not cut the user off if they are over the limit
Fall-Through	Reply	:=	Yes	Required to group these components together

Counters that limit per device

- Sometimes we would like a data and/or time counter to be applied to each device connecting.
- This comes in handy with the **Click-to-connect** feature of the Dynamic Login Pages.
- One can then without much trouble assign a 50Mb daily limit to people visiting a coffee shop.
- RADIUSdesk also has an enhancement to the regular daily, weekly and monthly counters. You can specify how often the counter needs to reset.
- We can also specify the hour when the daily counter should reset. This is handy for hotels where people have to check-out **before** a certain hour and new people can check-in **after** that hour.
- Let us look at a few practical implementations.

50Mb Data per device - Reset each hour

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Data	Check	:=	50000000	Multiply by 1024 if you want to be more technical 😊
Rd-Reset-Type-Data	Check	:=	dynamic	The dynamic type has to be used together with Rd-Reset-Interval-Data

Attribute	Check or Reply	Operator	Value	Comment
Rd-Cap-Type-Data	Check	:=	hard	Options are hard or soft. Soft will not cut the user off if they are over the limit
Rd-Reset-Interval-Data	Check	:=	3600	Reset every 3600 seconds, thus one hour.
Rd-Mac-Counter-Data	Check	:=	1	This counter will be enforced on each device connecting
Fall-Through	Reply	:=	Yes	Required to group these components together

500Mb Data - Reset every 12 hours

Attribute	Check or Reply	Operator	Value	Comment
Rd-Total-Data	Check	:=	500000000	Multiply by 1024 if you want to be more technical 😊
Rd-Reset-Type-Data	Check	:=	dynamic	The dynamic type has to be used together with Rd-Reset-Interval-Data
Rd-Cap-Type-Data	Check	:=	hard	Options are hard or soft. Soft will not cut the user off if they are over the limit
Rd-Reset-Interval-Data	Check	:=	43200	Reset every 12 hours (43200 seconds)
Rd-Mac-Counter-Data	Check	:=	1	This counter will be enforced on each device connecting
Fall-Through	Reply	:=	Yes	Required to group these components together