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Summary

RouterOS supports a lot of different features and since every installation requires specific set of features supprted it is possible to add or remove certain groups of features using package system. As result user is able to control what features are available and size of installation. Packages are provided only by MikroTik and no 3rd parties are allowed to make them.

Acquiring packages

Packages can be downloaded from MikroTik download (http://www.mikrotik.com/download.html) page or mirrors listed on that page. Either of provided download methods can be used.

RouterOS packages

for each architecture

Package	Features
advanced-tools (*mipsle, mipsbe, ppc, x86*)	advanced ping tools. netwatch, ip-scan, sms tool, wake-on-LAN
calea (*mipsle, mipsbe, ppc, x86*)	data gathering tool for specific use due to "Communications Assistance for Law Enforcement Act" in USA
dhcp (*mipsle, mipsbe, ppc, x86*)	Dynamic Host Control Protocol client and server
gps (*mipsle, mipsbe, ppc, x86*)	Global Positioning System devices support
hotspot (*mipsle, mipsbe, ppc, x86*)	HotSpot user management
ipv6 (*mipsle, mipsbe, ppc, x86*)	IPv6 addressing support
mpls (*mipsle, mipsbe, ppc, x86*)	Multi Protocol Labels Switching support
multicast (*mipsle, mipsbe, ppc, x86*)	Protocol Independent Multicast - Sparse Mode; Internet Group Managing Protocol - Proxy
ntp (*mipsle, mipsbe, ppc, x86*)	Network protocol client and service
ppp (*mipsle, mipsbe, ppc, x86*)	MlPPP client, PPP, PPTP, L2TP, PPPoE, ISDN PPP clients and servers
routerboard (*mipsle, mipsbe, ppc, x86*)	accessing and managing RouterBOOT. RouterBOARD specific imformation.
routing (*mipsle, mipsbe, ppc, x86*)	dynamic routing protocols like RIP, BGP, OSPF and routing utilities like BFD, filters for routes.
security (*mipsle, mipsbe, ppc, x86*)	IPSEC, SSH, Secure WinBox
system (*mipsle, mipsbe, ppc, x86*)	basic router features like *static routing, ip addresses, sNTP, telnet, API, queues, firewall, web proxy, DNS cache, TFTP, IP pool, SNMP, packet sniffer, e-mail send tool, graphing, bandwidth-test, torch, EoIP, IPIP, bridging, VLAN, VRRP etc.). Also, for RouterBOARD platform - MetaROUTER	Virtualization*
ups (*mipsle, mipsbe, ppc, x86*)	APC ups

user-manager (*mipsle, mipsbe, ppc, x86*)	MikroTik User Manager
wireless (*mipsle, mipsbe, ppc, x86*)	wireless interface support
arlan (*x86*)	legacy Aironet Arlan support
isdn (*x86*)	ISDN support
lcd (*x86*)	LCD panel support
radiolan (*x86*)	RadioLan cards support
synchronous (*x86*)	FarSync support
xen (*discontinued x86*)	XEN Virtualization
kvm (*x86*)	KVM Virtualization
routeros-mipsle (*mipsle*)	combined package for mipsle (RB100, RB500) (includes *system, hotspot, wireless, ppp, security, mpls, advanced-tools, dhcp, routerboard, ipv6, routing*)
routeros-mipsbe (*mipsbe*)	combined package for mipsbe (RB400) (includes *system, hotspot, wireless, ppp, security, mpls, advanced-tools, dhcp, routerboard, ipv6, routing*)
routeros-powerpc (*ppc*)	combined package for powerpc (RB300, RB600, RB1000) (includes *system, hotspot, wireless, ppp, security, mpls, advanced-tools, dhcp, routerboard, ipv6, routing*)
routeros-x86 (*x86*)	combined package for x86 (Intel/AMD PC, RB230) (includes *system, hotspot, wireless, ppp, security, mpls, advanced-tools, dhcp, routerboard, ipv6, routing*)
mpls-test (*mipsle, mipsbe, ppc, x86*)	Multi Protocol Labels Switching support improvements
routing-test (*mipsle, mipsbe, ppc, x86*)	routing protocols (RIP, OSPF, BGP) improvements

Working with packages

Menu: */system package*

Commands executed in this menu will take place only on restart of the router. Until then, user can freely schedule or revert set actions.

Command	Desciption
disable	schedule package to be disabled after next reboot. All features provided by package will not be accessible
downgrade	will prompt for reboot. During reboot process will try to downgrade RouterOS to oldest version possible by checking packages that are uploaded to the router.
print	outputs information about packages, like: version, package state, planned state changes etc.
enable	schedule package to be enabled after next reboot
uninstall	schedule package to be removed from router. That will take place during reboot.
unschedule	remove scheduled task for package.

Examples

Upgrade process is described here.

List available packages

```
 /system package print
Flags: X - disabled
 #   NAME                    VERSION                  SCHEDULED
 0 X ipv6                    3.13
 1   system                  3.13
 2 X mpls                    3.13
 3 X hotspot                 3.13
 4   routing                 3.13
```

```
 5   wireless               3.13
 6 X dhcp                   3.13
 7   routerboard            3.13
 8   routeros-mipsle        3.13
 9   security               3.13
 10 X ppp                    3.13
 11   advanced-tools         3.13
```

Uninstall package

Schedules package for uninstallation and reboots router.

```
 /system package uninstall ppp; /system reboot;
Reboot, yes? [y/N]:
```

Disable package

```
 /system package disable hotspot; /system reboot;
Reboot, yes? [y/N]:
```

Downgrade

```
 /system package downgrade; /system reboot;
Reboot, yes? [y/N]:
```

Cancel uninstall or disable action

```
 /system package unschedule ipv6
```

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