



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'nm-settings-dbus.5' command

\$ man nm-settings-dbus.5

NM-SETTINGS-DBUS(5) Configuration NM-SETTINGS-DBUS(5)

NAME

nm-settings-dbus - Description of settings and properties of
NetworkManager connection profiles on the D-Bus API

DESCRIPTION

NetworkManager is based on a concept of connection profiles, sometimes referred to as connections only. These connection profiles contain a network configuration. When NetworkManager activates a connection profile on a network device the configuration will be applied and an active network connection will be established. Users are free to create as many connection profiles as they see fit. Thus they are flexible in having various network configurations for different networking needs. The connection profiles are handled by NetworkManager via settings service and are exported on D-Bus (/org/freedesktop/NetworkManager/Settings/<num> objects). The conceptual objects can be described as follows:

Connection (profile)

A specific, encapsulated, independent group of settings describing all the configuration required to connect to a specific network. It is referred to by a unique identifier called the UUID. A connection is tied to a one specific device type, but not necessarily a specific hardware device. It is composed of one or more Settings objects.

?	?	?	? default is not	?
?	?	?	? set, the	?
?	?	?	? authentication	?
?	?	?	? retries for 3	?
?	?	?	? times before	?
?	?	?	? failing the	?
?	?	?	? connection.	?
?	?	?	?	?
?	?	?	? Currently, this	?
?	?	?	? only applies to	?
?	?	?	? 802-1x	?
?	?	?	? authentication.	?

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?autoconnect	? boolean	? TRUE	? Whether or not	?
?	?	?	? the connection	?
?	?	?	? should be	?
?	?	?	? automatically	?
?	?	?	? connected by	?
?	?	?	? NetworkManager	?
?	?	?	? when the	?
?	?	?	? resources for	?
?	?	?	? the connection	?
?	?	?	? are available.	?
?	?	?	? TRUE to	?
?	?	?	? automatically	?
?	?	?	? activate the	?
?	?	?	? connection,	?
?	?	?	? FALSE to require	?
?	?	?	? manual	?
?	?	?	? intervention to	?
?	?	?	? activate the	?

?	?	?	? connection.	?
?	?	?	?	?
?	?	?	? Autoconnect	?
?	?	?	? happens when the	?
?	?	?	? circumstances	?
?	?	?	? are suitable.	?
?	?	?	? That means for	?
?	?	?	? example that the	?
?	?	?	? device is	?
?	?	?	? currently	?
?	?	?	? managed and not	?
?	?	?	? active.	?
?	?	?	? Autoconnect thus	?
?	?	?	? never replaces	?
?	?	?	? or competes with	?
?	?	?	? an already	?
?	?	?	? active profile.	?
?	?	?	?	?
?	?	?	? Note that	?
?	?	?	? autoconnect is	?
?	?	?	? not implemented	?
?	?	?	? for VPN	?
?	?	?	? profiles. See	?
?	?	?	? "secondaries" as	?
?	?	?	? an alternative	?
?	?	?	? to automatically	?
?	?	?	? connect VPN	?
?	?	?	? profiles.	?
?	?	?	?	?
?	?	?	? If multiple	?
?	?	?	? profiles are	?
?	?	?	? ready to	?
?	?	?	? autoconnect on	?

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?	?	?	? which supports DNSOverTls.	?
?	?	?	? Otherwise, the setting has no	?
?	?	?	? effect. One such plugin is	?
?	?	?	? dns-systemd-resolved.	?

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gateway-ping-timeout	uint32	0	If greater than zero, delay
			success of IP addressing until
			either the timeout is reached, or
			an IP gateway replies to a ping.

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?id	? string	?	? A human readable unique	?
?	?	?	? identifier for the connection,	?
?	?	?	? like "Work Wi-Fi" or "T-Mobile	?
?	?	?	? 3G".	?

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Interface-name	String	The name of the network interface
		this connection is bound to. If
		not set, then the connection can
		be attached to any interface of
		the appropriate type (subject to
		restrictions imposed by other
		settings).
		For software devices this
		specifies the name of the created
		device.

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?	?	?	? register hostname but allow	?
?	?	?	? resolving of LLMNR host names If	?
?	?	?	? unspecified, "default" ultimately	?
?	?	?	? depends on the DNS plugin (which	?
?	?	?	? for systemd-resolved currently	?
?	?	?	? means "yes").	?
?	?	?	? ?	
?	?	?	? This feature requires a plugin	?
?	?	?	? which supports LLMNR. Otherwise,	?
?	?	?	? the setting has no effect. One	?
?	?	?	? such plugin is	?
?	?	?	? dns-systemd-resolved.	?

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?master	? string	?	? Interface name of the master	?
?	?	?	? device or UUID of the master	?
?	?	?	? connection.	?

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?mdns	? int32	? -1	? Whether mDNS is enabled for the	?
?	?	?	? connection.	?
?	?	?	?	?
?	?	?	? The permitted values are: "yes"	?
?	?	?	? (2) register hostname and	?
?	?	?	? resolving for the connection,	?
?	?	?	? "no" (0) disable mDNS for the	?
?	?	?	? interface, "resolve" (1) do not	?
?	?	?	? register hostname but allow	?
?	?	?	? resolving of mDNS host names and	?
?	?	?	? "default" (-1) to allow lookup of	?
?	?	?	? a global default in	?

?	?	?	? NetworkManager.conf. If	?
?	?	?	? unspecified, "default" ultimately	?
?	?	?	? depends on the DNS plugin (which	?
?	?	?	? for systemd-resolved currently	?
?	?	?	? means "no").	?
?	?	?	?	?
?	?	?	? This feature requires a plugin	?
?	?	?	? which supports mDNS. Otherwise,	?
?	?	?	? the setting has no effect. One	?
?	?	?	? such plugin is	?
?	?	?	? dns-systemd-resolved.	?

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metered	NMMetered (int32)	Whether the connection is
metered.		
		When updating this property on a
		currently activated connection,
		the change takes effect
		immediately.

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mp tcp-flags	uint32	0	Whether to configure MPTCP	
			endpoints and the address flags.	
			If MPTCP is enabled in	
			NetworkManager, it will configure	
			the addresses of the interface as	
			MPTCP endpoints. Note that IPv4	
			loopback addresses (127.0.0.0/8),	
			IPv4 link local addresses	
			(169.254.0.0/16), the IPv6	

?	?	?	? loopback address (::1), IPv6 link	?
?	?	?	? local addresses (fe80::/10), IPv6	?
?	?	?	? unique local addresses (ULA,	?
?	?	?	? fc00::/7) and IPv6 privacy	?
?	?	?	? extension addresses (rfc3041,	?
?	?	?	? ipv6.ip6-privacy) will be	?
?	?	?	? excluded from being configured as	?
?	?	?	? endpoints.	?
?	?	?	?	?
?	?	?	? If "disabled" (0x1), MPTCP	?
?	?	?	? handling for the interface is	?
?	?	?	? disabled and no endpoints are	?
?	?	?	? registered.	?
?	?	?	?	?
?	?	?	? The "enabled" (0x2) flag means	?
?	?	?	? that MPTCP handling is enabled.	?
?	?	?	? This flag can also be implied	?
?	?	?	? from the presence of other flags.	?
?	?	?	?	?
?	?	?	? Even when enabled, MPTCP handling	?
?	?	?	? will by default still be disabled	?
?	?	?	? unless	?
?	?	?	? "/proc/sys/net/mptcp/enabled"	?
?	?	?	? sysctl is on. NetworkManager does	?
?	?	?	? not change the sysctl and this is	?
?	?	?	? up to the administrator or	?
?	?	?	? distribution. To configure	?
?	?	?	? endpoints even if the sysctl is	?
?	?	?	? disabled, "also-without-sysctl"	?
?	?	?	? (0x4) flag can be used. In that	?
?	?	?	? case, NetworkManager doesn't look	?
?	?	?	? at the sysctl and configures	?
?	?	?	? endpoints regardless.	?

?	?	?	?	?
?	?	?	? Even when enabled, NetworkManager	?
?	?	?	? will only configure MPTCP	?
?	?	?	? endpoints for a certain address	?
?	?	?	? family, if there is a unicast	?
?	?	?	? default route (0.0.0.0/0 or ::/0)	?
?	?	?	? in the main routing table. The	?
?	?	?	? flag "also-without-default-route"	?
?	?	?	? (0x8) can override that.	?
?	?	?	?	?
?	?	?	? When MPTCP handling is enabled	?
?	?	?	? then endpoints are configured	?
?	?	?	? with the specified address flags	?
?	?	?	? "signal" (0x10), "subflow"	?
?	?	?	? (0x20), "backup" (0x40),	?
?	?	?	? "fullmesh" (0x80). See	?
?	?	?	? ip-mptcp(8) manual for additional	?
?	?	?	? information about the flags.	?
?	?	?	?	?
?	?	?	? If the flags are zero (0x0), the	?
?	?	?	? global connection default from	?
?	?	?	? NetworkManager.conf is honored.	?
?	?	?	? If still unspecified, the	?
?	?	?	? fallback is "enabled,subflow".	?
?	?	?	? Note that this means that MPTCP	?
?	?	?	? is by default done depending on	?
?	?	?	? the "/proc/sys/net/mptcp/enabled"	?
?	?	?	? sysctl.	?
?	?	?	?	?
?	?	?	? NetworkManager does not change	?
?	?	?	? the MPTCP limits nor enable MPTCP	?
?	?	?	? via	?
?	?	?	? "/proc/sys/net/mptcp/enabled".	?

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multi-connect	int32	0	Specifies whether the profile can	
			be active multiple times at a	
			particular moment. The value is	
			of type NMConnectionMultiConnect.	

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permissions	array of string		An array of strings defining what	
?	?	?	access a given user has to this	?
?	?	?	connection. If this is NULL or	?
?	?	?	empty, all users are allowed to	?
?	?	?	access this connection; otherwise	?
?	?	?	users are allowed if and only if	?
?	?	?	they are in this list. When this	?
?	?	?	is not empty, the connection can	?
?	?	?	be active only when one of the	?
?	?	?	specified users is logged into an	?
?	?	?	active session. Each entry is of	?
?	?	?	the form	?
?	?	?	"[type]:[id]:[reserved]"; for	?
?	?	?	example, "user:dcbw:blah".	?
?	?	?		
?	?	?	At this time only the "user"	?
?	?	?	[type] is allowed. Any other	?
?	?	?	values are ignored and reserved	?
?	?	?	for future use. [id] is the	?
?	?	?	username that this permission	?
?	?	?	refers to, which may not contain	?
?	?	?	the ":" character. Any [reserved]	?
?	?	?	information present must be	?

?	?	?	? ignored and is reserved for	?
?	?	?	? future use. All of [type], [id],	?
?	?	?	? and [reserved] must be valid	?
?	?	?	? UTF-8.	?

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read-only	boolean	FALSE	FALSE if the connection can be	
			modified using the provided	
			settings service's D-Bus	
			interface with the right	
			privileges, or TRUE if the	
			connection is read-only and	
			cannot be modified.	

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secondaries	array of string		List of connection UUIDs that	
			should be activated when the base	
			connection itself is activated.	
			Currently, only VPN connections	
			are supported.	

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?slave-type	? string	?	? Setting name of the device type	?
?	?	?	? of this slave's master connection	?
?	?	?	? (eg, "bond"), or NULL if this	?
?	?	?	? connection is not a slave.	?

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?	?	?	? the connection used for various	?
?	?	?	? purposes. It allows to configure	?
?	?	?	? multiple profiles to share the	?
?	?	?	? identity. Also, the stable-id can	?
?	?	?	? contain placeholders that are	?
?	?	?	? substituted dynamically and	?
?	?	?	? deterministically depending on	?
?	?	?	? the context.	?
?	?	?	?	?
?	?	?	? The stable-id is used for	?
?	?	?	? generating IPv6 stable private	?
?	?	?	? addresses with	?
?	?	?	? ipv6.addr-gen-mode=stable-privacy.	?
?	?	?	? It is also used to seed the	?
?	?	?	? generated cloned MAC address for	?
?	?	?	? ethernet.cloned-mac-address=stable	?
?	?	?	? and	?
?	?	?	? wifi.cloned-mac-address=stable.	?
?	?	?	? It is also used as DHCP client	?
?	?	?	? identifier with	?
?	?	?	? ipv4.dhcp-client-id=stable and to	?
?	?	?	? derive the DHCP DUID with	?
?	?	?	? ipv6.dhcp-duid=stable-[!lt,!,uuid].	?
?	?	?	?	?
?	?	?	? Note that depending on the	?
?	?	?	? context where it is used, other	?
?	?	?	? parameters are also seeded into	?
?	?	?	? the generation algorithm. For	?
?	?	?	? example, a per-host key is	?
?	?	?	? commonly also included, so that	?
?	?	?	? different systems end up	?
?	?	?	? generating different IDs. Or with	?
?	?	?	? ipv6.addr-gen-mode=stable-privacy,	?

?	?	?	? also the device's name is	?
?	?	?	? included, so that different	?
?	?	?	? interfaces yield different	?
?	?	?	? addresses. The per-host key is	?
?	?	?	? the identity of your machine and	?
?	?	?	? stored in	?
?	?	?	? /var/lib/NetworkManager/secret_key.	?
?	?	?	? See NetworkManager(8) manual	?
?	?	?	? about the secret-key and the host	?
?	?	?	? identity.	?
?	?	?	?	?
?	?	?	? The '\$' character is treated	?
?	?	?	? special to perform dynamic	?
?	?	?	? substitutions at runtime.	?
?	?	?	? Currently, supported are	?
?	?	?	? "\${CONNECTION}", "\${DEVICE}",	?
?	?	?	? "\${MAC}", "\${BOOT}", "\${RANDOM}".	?
?	?	?	? These effectively create unique	?
?	?	?	? IDs per-connection, per-device,	?
?	?	?	? per-boot, or every time. Note	?
?	?	?	? that "\${DEVICE}" corresponds to	?
?	?	?	? the interface name of the device	?
?	?	?	? and "\${MAC}" is the permanent MAC	?
?	?	?	? address of the device. Any	?
?	?	?	? unrecognized patterns following	?
?	?	?	? '\$' are treated verbatim, however	?
?	?	?	? are reserved for future use. You	?
?	?	?	? are thus advised to avoid '\$' or	?
?	?	?	? escape it as "\$\$". For example,	?
?	?	?	? set it to	?
?	?	?	? "\${CONNECTION}-\${BOOT}-\${DEVICE}"	?
?	?	?	? to create a unique id for this	?
?	?	?	? connection that changes with	?

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?altsubject-matches	? array of string	? ? List of strings	?
?	?	?	? to be matched
?	?	?	? against the
?	?	?	? altSubjectName
?	?	?	? of the
?	?	?	? certificate
?	?	?	? presented by the
?	?	?	? authentication
?	?	?	? server. If the
?	?	?	? list is empty,
?	?	?	? no verification
?	?	?	? of the server
?	?	?	? certificate's
?	?	?	? altSubjectName
?	?	?	? is performed.

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?auth-timeout	? int32	? 0	? A timeout for	?
?	?	?	? the	?
?	?	?	? authentication.	?
?	?	?	? Zero means the	?
?	?	?	? global default;	?
?	?	?	? if the global	?
?	?	?	? default is not	?
?	?	?	? set, the	?
?	?	?	? authentication	?
?	?	?	? timeout is 25	?
?	?	?	? seconds.	?

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?ca-cert	? byte array	? ?	? Contains the CA	?
?	?	?	? certificate if	?
?	?	?	? used by the EAP	?
?	?	?	? method specified	?
?	?	?	? in the "eap"	?
?	?	?	? property.	?
?	?	?	?	?
?	?	?	? Certificate data	?
?	?	?	? is specified	?
?	?	?	? using a	?
?	?	?	? "scheme"; three	?
?	?	?	? are currently	?
?	?	?	? supported: blob,	?
?	?	?	? path and pkcs#11	?
?	?	?	? URL. When using	?
?	?	?	? the blob scheme	?

?	?	?	? this property	?
?	?	?	? should be set to	?
?	?	?	? the	?
?	?	?	? certificate's	?
?	?	?	? DER encoded	?
?	?	?	? data. When using	?
?	?	?	? the path scheme,	?
?	?	?	? this property	?
?	?	?	? should be set to	?
?	?	?	? the full UTF-8	?
?	?	?	? encoded path of	?
?	?	?	? the certificate,	?
?	?	?	? prefixed with	?
?	?	?	? the string	?
?	?	?	? "file:/" and	?
?	?	?	? ending with a	?
?	?	?	? terminating NUL	?
?	?	?	? byte. This	?
?	?	?	? property can be	?
?	?	?	? unset even if	?
?	?	?	? the EAP method	?
?	?	?	? supports CA	?
?	?	?	? certificates,	?
?	?	?	? but this allows	?
?	?	?	? man-in-the-middle	?
?	?	?	? attacks and is	?
?	?	?	? NOT recommended.	?
?	?	?	?	?
?	?	?	? Note that	?
?	?	?	? enabling	?
?	?	?	? NMSetting8021x:system-ca-certs	?
?	?	?	? will override	?
?	?	?	? this setting to	?

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optional	boolean	FALSE	Whether the 802.1X	
			authentication is optional. If	
			TRUE, the activation will	
			continue even after a timeout	
			or an authentication failure.	
			Setting the property to TRUE	
			is currently allowed only for	
			Ethernet connections. If set	
			to FALSE, the activation can	
			continue only after a	
			successful authentication.	

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?pac-file	? string	?	? UTF-8 encoded file path	?
?	?	?	? containing PAC for EAP-FAST.	?

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password	string		UTF-8 encoded password used	
			for EAP authentication	
			methods. If both the	
			"password" property and the	
			"password-raw" property are	
			specified, "password" is	
			preferred.	

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?phase2-auth		? string	? ? Specifies the allowed "phase ?
?	?	?	? 2" inner authentication method ?
?	?	?	? when an EAP method that uses ?
?	?	?	? an inner TLS tunnel is ?
?	?	?	? specified in the "eap" ?
?	?	?	? property. For TTLS this ?
?	?	?	? property selects one of the ?
?	?	?	? supported non-EAP inner ?
?	?	?	? methods: "pap", "chap", ?
?	?	?	? "mschap", "mschapv2" while ?
?	?	?	? "phase2-autheap" selects an ?
?	?	?	? EAP inner method. For PEAP ?
?	?	?	? this selects an inner EAP ?
?	?	?	? method, one of: "gtc", "otp", ?
?	?	?	? "md5" and "tls". Each "phase ?
?	?	?	? 2" inner method requires ?
?	?	?	? specific parameters for ?
?	?	?	? successful authentication; see ?
?	?	?	? the wpa_suppllicant ?
?	?	?	? documentation for more ?
?	?	?	? details. Both "phase2-auth" ?
?	?	?	? and "phase2-autheap" cannot be ?
?	?	?	? specified. ?

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?	?	?	? supports CA certificates, but ?
?	?	?	? this allows man-in-the-middle ?
?	?	?	? attacks and is NOT ?
?	?	?	? recommended. ?
?	?	?	? ?
?	?	?	? Note that enabling ?
?	?	?	? <code>NMSetting8021x:system-ca-certs</code> ?
?	?	?	? will override this setting to ?
?	?	?	? use the built-in path, if the ?
?	?	?	? built-in path is not a ?
?	?	?	? directory. ?

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?phase2-ca-cert-password	? string	?	? The password used to access	?
?	?	?	? the "phase2" CA certificate	?
?	?	?	? stored in "phase2-ca-cert"	?
?	?	?	? property. Only makes sense if	?
?	?	?	? the certificate is stored on a	?
?	?	?	? PKCS#11 token that requires a	?
?	?	?	? login.	?

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phase2-ca-cert-password-flags	?	NMSettingSecretFlags	?	Flags indicating how to handle
?	?	(uint32)	?	the "phase2-ca-cert-password"
?	?	?	?	property.

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?phase2-ca-path	? string	? ? UTF-8 encoded path to a	?
?	? ?	? directory containing PEM or	?
?	? ?	? DER formatted certificates to	?

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?	?	?	? "scheme"; two are currently ?
?	?	?	? supported: blob and path. When ?
?	?	?	? using the blob scheme and ?
?	?	?	? private keys, this property ?
?	?	?	? should be set to the key's ?
?	?	?	? encrypted PEM encoded data. ?
?	?	?	? When using private keys with ?
?	?	?	? the path scheme, this property ?
?	?	?	? should be set to the full ?
?	?	?	? UTF-8 encoded path of the key, ?
?	?	?	? prefixed with the string ?
?	?	?	? "file:/" and ending with a ?
?	?	?	? terminating NUL byte. When ?
?	?	?	? using PKCS#12 format private ?
?	?	?	? keys and the blob scheme, this ?
?	?	?	? property should be set to the ?
?	?	?	? PKCS#12 data and the ?
?	?	?	? "private-key-password" ?
?	?	?	? property must be set to ?
?	?	?	? password used to decrypt the ?
?	?	?	? PKCS#12 certificate and key. ?
?	?	?	? When using PKCS#12 files and ?
?	?	?	? the path scheme, this property ?
?	?	?	? should be set to the full ?
?	?	?	? UTF-8 encoded path of the key, ?
?	?	?	? prefixed with the string ?
?	?	?	? "file:/" and ending with a ?
?	?	?	? terminating NUL byte, and as ?
?	?	?	? with the blob scheme the ?
?	?	?	? "private-key-password" ?
?	?	?	? property must be set to the ?
?	?	?	? password used to decode the ?
?	?	?	? PKCS#12 private key and ?

?	?	?	? certificate presented by the ?
?	?	?	? authentication server. When ?
?	?	?	? unset, no verification of the ?
?	?	?	? authentication server ?
?	?	?	? certificate's subject is ?
?	?	?	? performed. This property ?
?	?	?	? provides little security, if ?
?	?	?	? any, and should not be used. ?
?	?	?	? ?
?	?	?	? This property is deprecated ?
?	?	?	? since version 1.2.Use ?
?	?	?	? "phase2-domain-suffix-match" ?
?	?	?	? instead. ?

[illegible]

??????????

?system-ca-certs	? boolean	? FALSE	? When TRUE, overrides the	?
?	?	?	? "ca-path" and "phase2-ca-path" ?	
?	?	?	? properties using the system CA ?	
?	?	?	? directory specified at ?	
?	?	?	? configure time with the ?	
?	?	?	? --system-ca-path switch. The ?	
?	?	?	? certificates in this directory ?	
?	?	?	? are added to the verification ?	
?	?	?	? chain in addition to any ?	
?	?	?	? certificates specified by the ?	
?	?	?	? "ca-cert" and "phase2-ca-cert" ?	
?	?	?	? properties. If the path ?	
?	?	?	? provided with --system-ca-path ?	
?	?	?	? is rather a file name (bundle ?	
?	?	?	? of trusted CA certificates), ?	
?	?	?	? it overrides "ca-cert" and ?	
?	?	?	? "phase2-ca-cert" properties ?	

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```

?      ?      ?      ? authenticate  ?
?      ?      ?      ? with the ADSL  ?
?      ?      ?      ? service.      ?

????????????????????????????????????????????????????????????????????????????????????
?vci      ? uint32      ? 0      ? VCI of ADSL  ?
?      ?      ?      ? connection      ?

????????????????????????????????????????????????????????????????????????????????????
?vpi      ? uint32      ? 0      ? VPI of ADSL  ?
?      ?      ?      ? connection      ?

????????????????????????????????????????????????????????????????????????????????????

```

bluetooth setting

```

Bluetooth Settings.

????????????????????????????????????????????????????????????????????????????????????

?Key Name ? Value Type ? Default Value ? Value      ?
?      ?      ?      ? Description      ?

????????????????????????????????????????????????????????????????????????????????????

?bdaddr ? byte array ?      ? The Bluetooth  ?

?      ?      ?      ? address of the  ?

?      ?      ?      ? device.      ?

????????????????????????????????????????????????????????????????????????????????????

?type ? string ?      ? Either "dun" for ?

?      ?      ?      ? Dial-Up      ?

?      ?      ?      ? Networking      ?

?      ?      ?      ? connections or ?

?      ?      ?      ? "panu" for      ?

?      ?      ?      ? Personal Area ?

?      ?      ?      ? Networking      ?

?      ?      ?      ? connections to ?

?      ?      ?      ? devices      ?

?      ?      ?      ? supporting the ?

?      ?      ?      ? NAP profile. ?

????????????????????????????????????????????????????????????????????????????????????

```

Bonding Settings.

[illegible]

Key Name	Value Type	Default Value	Value
...	...	...	...

?	?	?	? Description	?
---	---	---	---------------	---

[illegible]

?interface-name	? string	? ?	? Deprecated in	?
-----------------	----------	-----	-----------------	---

? ? ? ? favor of ?

? ? ? ? connection.interface-name, ?

? ? ? ? but can be used ?

? ? ? ? for ?

? ? ? ? backward-compatibility ?

? ? ? ? with older ?

? ? ? ? daemons, to set ?

? ? ? ? the bond's ?

? ? ? ? interface name. ?

[illegible]

?options ? dict of string ? {'mode': ? Dictionary of key/value ?

? ? to string ? 'balance-rr'? ? pairs of bonding options. ?

? ? ? ? Both keys and values must ?

? ? ? ? be strings. Option names ?

? ? ? ? must contain only ?

? ? ? ? alphanumeric characters ?

? ? ? ? (ie, [a-zA-Z0-9]). ?

[illegible]

bridge setting

Bridging Settings.

[illegible]

?????

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

?????

Ageing-time	uint32	300	The Ethernet MAC	
			address aging	
			time, in	
			seconds.	

[illegible]

?????

forward-delay	uint32	15	The Spanning	
			Tree Protocol	
			(STP) forwarding	
			delay, in	
			seconds.	

[illegible]

?????

group-address	byte array	If specified,	
		The MAC address	
		of the multicast	
		group this	
		bridge uses for	
		STP.	
		The address must	
		be a link-local	
		address in	
		standard	
		Ethernet MAC	
		address format,	
		ie an address of	
		the form	
		01:80:C2:00:00:0X,	
		with X in [0,	

?????
 ?????

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?????
 ?????

[illegible]

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[illegible][illegible][illegible]

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?????

?multicast-last-member-interval	? uint64	? 100	? Set interval (in deciseconds) ?
---------------------------------	----------	-------	-----------------------------------

? ? ? between queries to find ?

? ? ? ? remaining members of a group, ?

? ? ? ? after a "leave" message is ?

? ? ? ? received. ?

[illegible]

?????

?multicast-membership-interval	? uint64	? 26000	? Set delay (in deciseconds)	?
--------------------------------	----------	---------	------------------------------	---

? ? ? ? after which the bridge will ?

? ? ? ? leave a group, if no ?

? ? ? ? membership reports for this ?

? ? ? ? group are received. ?

[illegible]

?????

?multicast-querier	? boolean	? FALSE	? Enable or disable sending of ?
--------------------	-----------	---------	----------------------------------

? ? ? ? multicast queries by the ?

? ? ? ? bridge. If not specified the ?

? ? ? ? option is disabled. ?

[illegible]

?????

?multicast-querier-interval	? uint64	? 25500	? If no queries are seen after ?
-----------------------------	----------	---------	----------------------------------

? ? ? ? this delay (in deciseconds) ?

? ? ? ? has passed, the bridge will ?

? ? ? ? start to send its own ?

? ? ? ? queries. ?

[illegible]

?????

?multicast-query-interval	? uint64	? 12500	? Interval (in deciseconds)	?
---------------------------	----------	---------	-----------------------------	---

[illegible][illegible][illegible]

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[illegible]

?????

multicast-snooping	boolean	TRUE	Controls whether IGMP	
			snooping is enabled for this	
			bridge. Note that if snooping	
			was automatically disabled	
			due to hash collisions, the	
			system may refuse to enable	
			the feature until the	
			collisions are resolved.	

[illegible]

?????

?multicast-startup-query-count	? uint32	? 2	? Set the number of IGMP	?
?	?	?	? queries to send during	?
?	?	?	? startup phase.	?

[illegible]

?????

multicast-startup-query-interval	uint64	3125	Sets the time (in	
			deciseconds) between queries	
			sent out at startup to	
			determine membership	
			information.	

[illegible]

?????

priority	uint32	32768	Sets the Spanning Tree	
			Protocol (STP) priority for	
			this bridge. Lower values	
			are "better"; the lowest	
			priority bridge will be	

? ? ? ? elected the root bridge. ?

??

?????

?stp ? boolean ? TRUE ? Controls whether Spanning ?
? ? ? ? Tree Protocol (STP) is ?
? ? ? ? enabled for this bridge. ?

??

?????

?vlan-default-pvid ? uint32 ? 1 ? The default PVID for the ?
? ? ? ? ports of the bridge, that is ?
? ? ? ? the VLAN id assigned to ?
? ? ? ? incoming untagged frames. ?

??

?????

?vlan-filtering ? boolean ? FALSE ? Control whether VLAN ?
? ? ? ? filtering is enabled on the ?
? ? ? ? bridge. ?

??

?????

?vlan-protocol ? string ? ? If specified, the protocol ?
? ? ? ? used for VLAN filtering. ?
? ? ? ? ?
? ? ? ? Supported values are: ?
? ? ? ? '802.1Q', '802.1ad'. If not ?
? ? ? ? specified the default value ?
? ? ? ? is '802.1Q'. ?

??

?????

?	?	?	? Description	?
??				
?hairpin-mode	? boolean	? FALSE	? Enables or	?
?	?	?	? disables	?
?	?	?	? "hairpin mode"	?
?	?	?	? for the port,	?
?	?	?	? which allows	?
?	?	?	? frames to be	?
?	?	?	? sent back out	?
?	?	?	? through the port	?
?	?	?	? the frame was	?
?	?	?	? received on.	?
??				
?path-cost	? uint32	? 100	? The Spanning	?
?	?	?	? Tree Protocol	?
?	?	?	? (STP) port cost	?
?	?	?	? for destinations	?
?	?	?	? via this port.	?
??				
?priority	? uint32	? 32	? The Spanning	?
?	?	?	? Tree Protocol	?
?	?	?	? (STP) priority	?
?	?	?	? of this bridge	?
?	?	?	? port.	?
??				
?vlans	? array of vardict	? Array of bridge		?
?	?	?	? VLAN objects. In	?
?	?	?	? addition to the	?
?	?	?	? VLANs specified	?
?	?	?	? here, the port	?
?	?	?	? will also have	?
?	?	?	? the default-pvid	?
?	?	?	? VLAN configured	?

? ? ? ? on the bridge by ?
 ? ? ? ? the ?
 ? ? ? ? bridge.vlan-default-pvid ?
 ? ? ? ? property. ?
 ? ? ? ? ? ?
 ? ? ? ? In nmcli the ?
 ? ? ? ? VLAN list can be ?
 ? ? ? ? specified with ?
 ? ? ? ? the following ?
 ? ? ? ? syntax: ?
 ? ? ? ? ? ?
 ? ? ? ? \$vid [pvid] ?
 ? ? ? ? [untagged] [, ?
 ? ? ? ? \$vid [pvid] ?
 ? ? ? ? [untagged]]... ?
 ? ? ? ? ? ?
 ? ? ? ? where \$vid is ?
 ? ? ? ? either a single ?
 ? ? ? ? id between 1 and ?
 ? ? ? ? 4094 or a range, ?
 ? ? ? ? represented as a ?
 ? ? ? ? couple of ids ?
 ? ? ? ? separated by a ?
 ? ? ? ? dash. ?

???

cdma setting

CDMA-based Mobile Broadband Settings.

???

Key Name	Value Type	Default Value	Value
----------	------------	---------------	-------

Description

???

mtu	uint32	0	If non-zero,
-----	--------	---	--------------

			only transmit
--	--	--	---------------

? ? ? ? multiple frames. ?

? ? ? ? when required. ?

? ? ? ? required, it is ?

? ? ? ? specified here. ?

??

?password-flags ? NMSettingSecretFlags ? ? Flags indicating ?

? ? (uint32) ? ? how to handle ?

? ? ? ? the "password" ?

? ? ? ? property. ?

??

?username ? string ? ? The username ?

? ? ? ? used to ?

? ? ? ? authenticate ?

? ? ? ? with the ?

? ? ? ? network, if ?

? ? ? ? required. Many ?

? ? ? ? providers do not ?

? ? ? ? require a ?

? ? ? ? username, or ?

? ? ? ? accept any ?

? ? ? ? username. But ?

? ? ? ? if a username is ?

? ? ? ? required, it is ?

? ? ? ? specified here. ?

??

dcb setting

Data Center Bridging Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
? ?	? ?	? ?	? Description	?

??

?app-fcoe-flags ? NMSettingDcbFlags ? ? Specifies the ?

? ? (uint32) ? ? NMSettingDcbFlags ?

? ? ? ? for the DCB FCoE ?

?	?	?	? application.	?
?	?	?	? Flags may be any	?
?	?	?	? combination of	?
?	?	?	? NM_SETTING_DCB_FLAG_ENABLE	?
?	?	?	? (0x1),	?
?	?	?	? NM_SETTING_DCB_FLAG_ADVERTISE	?
?	?	?	? (0x2), and	?
?	?	?	? NM_SETTING_DCB_FLAG_WILLING	?
?	?	?	? (0x4).	?

[illegible]

app-fcoe-mode	string	The FCoE controller mode;
		either "fabric" or "vn2vn".
		Since 1.34, NULL is the
		default and means "fabric".
		Before 1.34, NULL was
		rejected as invalid and the
		default was "fabric".

[illegible]

<code>?app-fcoe-priority</code>	<code>? int32</code>	<code>? -1</code>	<code>? The highest User Priority (0 ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? - 7) which FCoE frames should ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? use, or -1 for default ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? priority. Only used when the ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? "app-fcoe-flags" property ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? includes the ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? NM_SETTING_DCB_FLAG_ENABLE ?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? (0x1) flag. ?</code>

[illegible]

?app-fip-flags	? NMSettingDcbFlags ?	? Specifies the	?
?	? (uint32)	? NMSettingDcbFlags for the DCB ?	

[illegible][illegible][illegible]

[illegible]

?	?	?	? where the array index	?
?	?	?	? corresponds to the User	?
?	?	?	? Priority (0 - 7) and the	?
?	?	?	? value indicates the	?
?	?	?	? percentage of bandwidth of	?
?	?	?	? the priority's assigned group	?
?	?	?	? that the priority may use.	?
?	?	?	? The sum of all percentages	?
?	?	?	? for priorities which belong	?
?	?	?	? to the same group must total	?
?	?	?	? 100 percents.	?

[illegible]

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?priority-flow-control-flags ? NMSettingDcbFlags ?	? Specifies the	?
--	-----------------	---

?	?	?	?	?
	(uint32)		NMSettingDcbFlags for DCB	

? ? ? ? Priority Flow Control (PFC). ?

? ? ? ? Flags may be any combination ?

? ? ? ? of NM_SETTING_DCB_FLAG_ENABLE ?

? ? ? ? (0x1), ?

? ? ? ? NM_SETTING_DCB_FLAG_ADVERTISE ?

? ? ? ? (0x2), and ?

? ? ? ? NM_SETTING_DCB_FLAG_WILLING ?

? ? ? ? (0x4). ?

[illegible]

?priority-group-bandwidth	? array of uint32	? An array of 8 uint values,	?
---------------------------	-------------------	------------------------------	---

? ? ? ? where the array index ?

? ? ? ? corresponds to the Priority ?

? ? ? ? Group ID (0 - 7) and the ?

? ? ? ? value indicates the ?

? ? ? ? percentage of link bandwidth ?

? ? ? ? allocated to that group. ?

? ? ? ? Allowed values are 0 - 100, ?

? ? ? ? and the sum of all values ?

? ? ? ? must total 100 percents. ?

[illegible]

?priority-group-flags	? NMSettingDcbFlags ?	? Specifies the	?
-----------------------	-----------------------	-----------------	---

?	?	(uint32)	?	?	NMSettingDcbFlags for DCB	?
---	---	----------	---	---	---------------------------	---

? ? ? ? Priority Groups. Flags may ?

? ? ? ? be any combination of ?

? ? ? ? NM_SETTING_DCB_FLAG_ENABLE ?

? ? ? ? (0x1), ?

? ? ? ? NM_SETTING_DCB_FLAG_ADVERTISE ?

? ? ? ? (0x2), and ?

? ? ? ? NM SETTING DCB FLAG WILLING ?

[illegible]

? ? ? ? group. ?

[illegible]

? ? ? ? its assigned group. ?

[illegible]

? ? ? ? priority is mapped. ?

dummy setting

Dummy Link Settings.

ethtool setting

Ethtool Ethernet Settings.

generic setting

Generic Link Settings.

gsm setting

GSM-based Mobile Broadband Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?apn ? string ? ? The GPRS Access ?

? ? ? ? Point Name ?

? ? ? ? specifying the ?

? ? ? ? APN used when ?

? ? ? ? establishing a ?

? ? ? ? data session ?

? ? ? ? with the ?

? ? ? ? GSM-based ?

? ? ? ? network. The ?

? ? ? ? APN often ?

? ? ? ? determines how ?

? ? ? ? the user will be ?

? ? ? ? billed for their ?

? ? ? ? network usage ?

? ? ? ? and whether the ?

? ? ? ? user has access ?

? ? ? ? to the Internet ?

? ? ? ? or just a ?

? ? ? ? provider-specific ?

? ? ? ? walled-garden, ?

? ? ? ? so it is ?

?	?	?	? connection will ?
?	?	?	? only apply to the ?
?	?	?	? specified device. ?
??			
?home-only	? boolean	? FALSE	? When TRUE, only ?
?	?	?	? connections to ?
?	?	?	? the home network ?
?	?	?	? will be allowed. ?
?	?	?	? Connections to ?
?	?	?	? roaming networks ?
?	?	?	? will not be made. ?
??			
?mtu	? uint32	? 0	? If non-zero, only ?
?	?	?	? transmit packets ?
?	?	?	? of the specified ?
?	?	?	? size or smaller, ?
?	?	?	? breaking larger ?
?	?	?	? packets up into ?
?	?	?	? multiple frames. ?
??			
?network-id	? string	?	? The Network ID ?
?	?	?	? (GSM LAI format, ?
?	?	?	? ie MCC-MNC) to ?
?	?	?	? force specific ?
?	?	?	? network ?
?	?	?	? registration. If ?
?	?	?	? the Network ID is ?
?	?	?	? specified, ?
?	?	?	? NetworkManager ?
?	?	?	? will attempt to ?
?	?	?	? force the device ?
?	?	?	? to register only ?
?	?	?	? on the specified ?

?	?	?	? network. This can ?
?	?	?	? be used to ensure ?
?	?	?	? that the device ?
?	?	?	? does not roam ?
?	?	?	? when direct ?
?	?	?	? roaming control ?
?	?	?	? of the device is ?
?	?	?	? not otherwise ?
?	?	?	? possible. ?

[illegible]

?number	? string	?	? Legacy setting	?
---------	----------	---	------------------	---

?	?	?	? that used to help ?
?	?	?	? establishing PPP ?
?	?	?	? data sessions for ?
?	?	?	? GSM-based modems. ?
?	?	?	? ?
?	?	?	? This property is ?
?	?	?	? deprecated since ?
?	?	?	? version ?
?	?	?	? 1.16.User-provided ?
?	?	?	? values for this ?
?	?	?	? setting are no ?
?	?	?	? longer used. ?

[illegible]

?password ? string ? ? The password used ?

?	?	?	? to authenticate	?
?	?	?	? with the network,	?
?	?	?	? if required. Many	?
?	?	?	? providers do not	?
?	?	?	? require a	?
?	?	?	? password, or	?
?	?	?	? accept any	?
?	?	?	? password. But if	?

? ? ? a password is ?
? ? ? required, it is ?
? ? ? specified here. ?

??

?password-flags ? NMSettingSecretFlags ? ? Flags indicating ?

? ? (uint32) ? ? how to handle the ?
? ? ? "password" ?
? ? ? property. ?

??

?pin ? string ? ? If the SIM is ?

? ? ? locked with a PIN ?
? ? ? it must be ?
? ? ? unlocked before ?
? ? ? any other ?
? ? ? operations are ?
? ? ? requested. ?
? ? ? Specify the PIN ?
? ? ? here to allow ?
? ? ? operation of the ?
? ? ? device. ?

??

?pin-flags ? NMSettingSecretFlags ? ? Flags indicating ?

? ? (uint32) ? ? how to handle the ?
? ? ? "pin" property. ?

??

?sim-id ? string ? ? The SIM card ?

? ? ? unique identifier ?
? ? ? (as given by the ?
? ? ? WWAN management ?
? ? ? service) which ?
? ? ? this connection ?
? ? ? applies to. If ?
? ? ? given, the ?

?	?	?	? connection will	?
?	?	?	? apply to any	?
?	?	?	? device also	?
?	?	?	? allowed by	?
?	?	?	? "device-id" which	?
?	?	?	? contains a SIM	?
?	?	?	? card matching the	?
?	?	?	? given identifier.	?

[illegible]

?sim-operator-id ? string ? ? A MCC/MNC string ?

?	?	?	? like "310260" or ?
?	?	?	? "21601" ?
?	?	?	? identifying the ?
?	?	?	? specific mobile ?
?	?	?	? network operator ?
?	?	?	? which this ?
?	?	?	? connection applies ?
?	?	?	? to. If given, the ?
?	?	?	? connection will ?
?	?	?	? apply to any ?
?	?	?	? device also ?
?	?	?	? allowed by ?
?	?	?	? "device-id" and ?
?	?	?	? "sim-id" which ?
?	?	?	? contains a SIM ?
?	?	?	? card provisioned ?
?	?	?	? by the given ?
?	?	?	? operator. ?

[illegible]

?username	? string	?	? The username used ?
-----------	----------	---	-----------------------

? ? ? ? to authenticate ?

? ? ? ? with the network, ?

? ? ? ? if required. Many ?

?	?	?	? providers do not	?
?	?	?	? require a	?
?	?	?	? username, or	?
?	?	?	? accept any	?
?	?	?	? username. But if	?
?	?	?	? a username is	?
?	?	?	? required, it is	?
?	?	?	? specified here.	?

??

infiniband setting

Infiniband Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
?	?	?	? Description	?

??

?mac-address	? byte array	?	? If specified,	?
?	?	?	? this connection	?
?	?	?	? will only apply	?
?	?	?	? to the IPoIB	?
?	?	?	? device whose	?
?	?	?	? permanent MAC	?
?	?	?	? address matches.	?
?	?	?	? This property	?
?	?	?	? does not change	?
?	?	?	? the MAC address	?
?	?	?	? of the device	?
?	?	?	? (i.e. MAC	?
?	?	?	? spoofing).	?

??

?mtu	? uint32	? 0	? If non-zero,	?
?	?	?	? only transmit	?
?	?	?	? packets of the	?
?	?	?	? specified size	?

?	?	?	? or smaller,	?
?	?	?	? breaking larger	?
?	?	?	? packets up into	?
?	?	?	? multiple frames.	?

??

?p-key	? int32	? -1	? The InfiniBand	?
?	?	?	? P_Key to use for	?
?	?	?	? this device. A	?
?	?	?	? value of -1	?
?	?	?	? means to use the	?
?	?	?	? default P_Key	?
?	?	?	? (aka "the P_Key	?
?	?	?	? at index 0").	?
?	?	?	? Otherwise, it is	?
?	?	?	? a 16-bit	?
?	?	?	? unsigned	?
?	?	?	? integer, whose	?
?	?	?	? high bit 0x8000	?
?	?	?	? is set if it is	?
?	?	?	? a "full	?
?	?	?	? membership"	?
?	?	?	? P_Key. The	?
?	?	?	? values 0 and	?
?	?	?	? 0x8000 are not	?
?	?	?	? allowed.	?
?	?	?	?	?
?	?	?	? With the p-key	?
?	?	?	? set, the	?
?	?	?	? interface name	?
?	?	?	? is always	?
?	?	?	? "\$parent.\$p_key".	?
?	?	?	? Setting	?
?	?	?	? "connection.interface-name" ?	

?	?	?	? to another name	?
?	?	?	? is not	?
?	?	?	? supported.	?
?	?	?	? ?	
?	?	?	? Note that kernel	?
?	?	?	? will internally	?
?	?	?	? always set the	?
?	?	?	? full membership	?
?	?	?	? bit, although	?
?	?	?	? the interface	?
?	?	?	? name does not	?
?	?	?	? reflect that.	?
?	?	?	? Thus, not	?
?	?	?	? setting the high	?
?	?	?	? bit is probably	?
?	?	?	? not useful.	?
?	?	?	? ?	
?	?	?	? If the profile	?
?	?	?	? is stored in	?
?	?	?	? ifcfg-rh format,	?
?	?	?	? then the full	?
?	?	?	? membership bit	?
?	?	?	? is automatically	?
?	?	?	? added. To get	?
?	?	?	? consistent	?
?	?	?	? behavior, it is	?
?	?	?	? best to only use	?
?	?	?	? p-key values	?
?	?	?	? with the full	?
?	?	?	? membership bit	?
?	?	?	? set.	?

[illegible]

? ? ? ? parent device of this ?
? ? ? ? device. Normally NULL, but ?
? ? ? ? if the "p_key" property is ?
? ? ? ? set, then you must specify ?
? ? ? ? the base device by setting ?
? ? ? ? either this property or ?
? ? ? ? "mac-address". ?

??

?transport-mode ? string ? ? The IP-over-InfiniBand ?
? ? ? ? transport mode. Either ?
? ? ? ? "datagram" or "connected". ?

??

ipv4 setting

IPv4 Settings.

??

??????????

?Key Name	? Value Type	? Default Value	? Value	?
?	?	? Description	?	

??

??????????

?address-data	? array of vardict ?	? Array of IPv4	?
?	? ?	? addresses. Each	?
?	? ?	? address	?
?	? ?	? dictionary	?
?	? ?	? contains at	?
?	? ?	? least 'address'	?
?	? ?	? and 'prefix'	?
?	? ?	? entries,	?
?	? ?	? containing the	?
?	? ?	? IP address as a	?
?	? ?	? string, and the	?

?	?	?	? lease and options.	?
?	?	?	? When the property is a	?
?	?	?	? hex string	?
?	?	?	? ('aa:bb:cc') it is	?
?	?	?	? interpreted as a	?
?	?	?	? binary client ID, in	?
?	?	?	? which case the first	?
?	?	?	? byte is assumed to be	?
?	?	?	? the 'type' field as	?
?	?	?	? per RFC 2132 section	?
?	?	?	? 9.14 and the remaining	?
?	?	?	? bytes may be an	?
?	?	?	? hardware address (e.g.	?
?	?	?	? '01:xx:xx:xx:xx:xx:xx'	?
?	?	?	? where 1 is the	?
?	?	?	? Ethernet ARP type and	?
?	?	?	? the rest is a MAC	?
?	?	?	? address). If the	?
?	?	?	? property is not a hex	?
?	?	?	? string it is	?
?	?	?	? considered as a	?
?	?	?	? non-hardware-address	?
?	?	?	? client ID and the	?
?	?	?	? 'type' field is set to	?
?	?	?	? 0.	?
?	?	?	?	?
?	?	?	? The special values	?
?	?	?	? "mac" and "perm-mac"	?
?	?	?	? are supported, which	?
?	?	?	? use the current or	?
?	?	?	? permanent MAC address	?
?	?	?	? of the device to	?
?	?	?	? generate a client	?

?	?	?	? identifier with type	?
?	?	?	? ethernet (01).	?
?	?	?	? Currently, these	?
?	?	?	? options only work for	?
?	?	?	? ethernet type of	?
?	?	?	? links.	?
?	?	?	?	?
?	?	?	? The special value	?
?	?	?	? "ipv6-duid" uses the	?
?	?	?	? DUID from	?
?	?	?	? "ipv6.dhcp-duid"	?
?	?	?	? property as an	?
?	?	?	? RFC4361-compliant	?
?	?	?	? client identifier. As	?
?	?	?	? IAID it uses	?
?	?	?	? "ipv4.dhcp-iaid" and	?
?	?	?	? falls back to	?
?	?	?	? "ipv6.dhcp-iaid" if	?
?	?	?	? unset.	?
?	?	?	?	?
?	?	?	? The special value	?
?	?	?	? "duid" generates a	?
?	?	?	? RFC4361-compliant	?
?	?	?	? client identifier	?
?	?	?	? based on	?
?	?	?	? "ipv4.dhcp-iaid" and	?
?	?	?	? uses a DUID generated	?
?	?	?	? by hashing	?
?	?	?	? /etc/machine-id.	?
?	?	?	?	?
?	?	?	? The special value	?
?	?	?	? "stable" is supported	?
?	?	?	? to generate a type 0	?

?	?	?	? flag is set and	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_FQDN_CLEAR_FLAGS ?	
?	?	?	? (0x8) is set, the DHCP	?
?	?	?	? FQDN option will	?
?	?	?	? contain no flag.	?
?	?	?	? Otherwise, if no FQDN	?
?	?	?	? flag is set and	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_FQDN_CLEAR_FLAGS ?	
?	?	?	? (0x8) is not set, the	?
?	?	?	? standard FQDN flags	?
?	?	?	? are set in the	?
?	?	?	? request:	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_FQDN_SERV_UPDATE ?	
?	?	?	? (0x1),	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_FQDN_ENCODED	?
?	?	?	? (0x2) for IPv4 and	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_FQDN_SERV_UPDATE ?	
?	?	?	? (0x1) for IPv6.	?
?	?	?	?	?
?	?	?	? When this property is	?
?	?	?	? set to the default	?
?	?	?	? value	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_NONE	?
?	?	?	? (0x0), a global	?
?	?	?	? default is looked up	?
?	?	?	? in NetworkManager	?
?	?	?	? configuration. If that	?
?	?	?	? value is unset or also	?
?	?	?	? NM_DHCP_HOSTNAME_FLAG_NONE	?
?	?	?	? (0x0), then the	?
?	?	?	? standard FQDN flags	?
?	?	?	? described above are	?
?	?	?	? sent in the DHCP	?

????????

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[illegible][illegible][illegible]

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????????

?dns-data	? array of strings ?	? Array of DNS name servers. This	?
?	? ?	? replaces the deprecated "dns"	?
?	? ?	? property. Each name server can also	?
?	? ?	? contain a DoT server name.	?

????????

dns-options	array of string	Array of DNS options as described in
		man 5 resolv.conf.
		NULL means that the options are unset
		and left at the default. In this case
		NetworkManager will use default
		options. This is distinct from an
		empty list of properties.
		The currently supported options are
		"attempts", "debug", "edns0", "inet6",
		"ip6-bytestring", "ip6-dotint",
		"ndots", "no-check-names",
		"no-ip6-dotint", "no-reload",
		"no-tld-query", "rotate",
		"single-request",
		"single-request-reopen", "timeout",
		"trust-ad", "use-vc".
		The "trust-ad" setting is only honored
		if the profile contributes name
		servers to resolv.conf, and if all
		contributing profiles have "trust-ad"

?	?	?	? for other connections.	?
?	?	?	?	?
?	?	?	? Note that the priority is to order DNS	?
?	?	?	? settings for multiple active	?
?	?	?	? connections. It does not disambiguate	?
?	?	?	? multiple DNS servers within the same	?
?	?	?	? connection profile.	?
?	?	?	?	?
?	?	?	? When multiple devices have	?
?	?	?	? configurations with the same priority,	?
?	?	?	? VPNs will be considered first, then	?
?	?	?	? devices with the best (lowest metric)	?
?	?	?	? default route and then all other	?
?	?	?	? devices.	?
?	?	?	?	?
?	?	?	? When using dns=default, servers with	?
?	?	?	? higher priority will be on top of	?
?	?	?	? resolv.conf. To prioritize a given	?
?	?	?	? server over another one within the	?
?	?	?	? same connection, just specify them in	?
?	?	?	? the desired order. Note that commonly	?
?	?	?	? the resolver tries name servers in	?
?	?	?	? /etc/resolv.conf in the order listed,	?
?	?	?	? proceeding with the next server in the	?
?	?	?	? list on failure. See for example the	?
?	?	?	? "rotate" option of the dns-options	?
?	?	?	? setting. If there are any negative DNS	?
?	?	?	? priorities, then only name servers	?
?	?	?	? from the devices with that lowest	?
?	?	?	? priority will be considered.	?
?	?	?	?	?
?	?	?	? When using a DNS resolver that	?
?	?	?	? supports Conditional Forwarding or	?

[illegible]

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[illegible]

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?	?	?	? NetworkManager to configure a standard ?
?	?	?	? default route with the gateway as next ?
?	?	?	? hop. This is ignored if ?
?	?	?	? "never-default" is set. An alternative ?
?	?	?	? is to configure the default route ?
?	?	?	? explicitly with a manual route and /0 ?
?	?	?	? as prefix length. ?
?	?	?	? ?
?	?	?	? Note that the gateway usually ?
?	?	?	? conflicts with routing that ?
?	?	?	? NetworkManager configures for ?
?	?	?	? WireGuard interfaces, so usually it ?
?	?	?	? should not be set in that case. See ?
?	?	?	? "ip4-auto-default-route". ?

[illegible]

????????

ignore-auto-dns	boolean	FALSE	When "method" is set to "auto" and	
			this property to TRUE, automatically	
			configured name servers and search	
			domains are ignored and only name	
			servers and search domains specified	
			in the "dns" and "dns-search"	
			properties, if any, are used.	

[illegible]

????????

ignore-auto-routes	boolean	FALSE	When "method" is set to "auto" and
			this property to TRUE, automatically
			configured routes are ignored and only
			routes specified in the "routes"
			property, if any, are used.

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[illegible][illegible][illegible]

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route-metric	int64	-1	The default metric for routes that
			don't explicitly specify a metric. The
			default value -1 means that the metric
			is chosen automatically based on the
			device type. The metric applies to
			dynamic routes, manual (static) routes
			that don't have an explicit metric
			setting, address prefix routes, and
			the default route. Note that for IPv6,
			the kernel accepts zero (0) but
			coerces it to 1024 (user default).
			Hence, setting this property to zero
			effectively mean setting it to 1024.
			For IPv4, zero is a regular value for
			the metric.

????????

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[illegible]

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?	?	?	? address to stay	?
?	?	?	? constant, making	?
?	?	?	? it possible to	?
?	?	?	? track host's	?
?	?	?	? presence when it	?
?	?	?	? changes	?
?	?	?	? networks. The	?
?	?	?	? address changes	?
?	?	?	? when the	?
?	?	?	? interface	?
?	?	?	? hardware is	?
?	?	?	? replaced.	?
?	?	?	?	?
?	?	?	? The value of	?
?	?	?	? stable-privacy	?
?	?	?	? enables use of	?
?	?	?	? cryptographically	?
?	?	?	? secure hash of a	?
?	?	?	? secret	?
?	?	?	? host-specific	?
?	?	?	? key along with	?
?	?	?	? the connection's	?
?	?	?	? stable-id and	?
?	?	?	? the network	?
?	?	?	? address as	?
?	?	?	? specified by	?
?	?	?	? RFC7217. This	?
?	?	?	? makes it	?
?	?	?	? impossible to	?
?	?	?	? use the address	?
?	?	?	? track host's	?
?	?	?	? presence, and	?
?	?	?	? makes the	?

?	?	?	? address stable	?
?	?	?	? when the network	?
?	?	?	? interface	?
?	?	?	? hardware is	?
?	?	?	? replaced.	?
?	?	?	?	?
?	?	?	? The special	?
?	?	?	? values "default"	?
?	?	?	? and	?
?	?	?	? "default-or-eui64"	?
?	?	?	? will fallback to	?
?	?	?	? the global	?
?	?	?	? connection	?
?	?	?	? default in as	?
?	?	?	? documented in	?
?	?	?	? NetworkManager.conf(5)	?
?	?	?	? manual. If the	?
?	?	?	? global default	?
?	?	?	? is not	?
?	?	?	? specified, the	?
?	?	?	? fallback value	?
?	?	?	? is	?
?	?	?	? "stable-privacy"	?
?	?	?	? or "eui64",	?
?	?	?	? respectively.	?
?	?	?	?	?
?	?	?	? For libnm, the	?
?	?	?	? property	?
?	?	?	? defaults to	?
?	?	?	? "default" since	?
?	?	?	? 1.40. Previously	?
?	?	?	? it defaulted to	?
?	?	?	? "stable-privacy".	?

?	?	?	? On D-Bus, the	?
?	?	?	? absence of an	?
?	?	?	? addr-gen-mode	?
?	?	?	? setting equals	?
?	?	?	? "default". For	?
?	?	?	? keyfile plugin,	?
?	?	?	? the absence of	?
?	?	?	? the setting on	?
?	?	?	? disk means	?
?	?	?	? "default-or-eui64"	?
?	?	?	? so that the	?
?	?	?	? property doesn't	?
?	?	?	? change on	?
?	?	?	? upgrade from	?
?	?	?	? older versions.	?
?	?	?	?	?
?	?	?	? Note that this	?
?	?	?	? setting is	?
?	?	?	? distinct from	?
?	?	?	? the Privacy	?
?	?	?	? Extensions as	?
?	?	?	? configured by	?
?	?	?	? "ip6-privacy"	?
?	?	?	? property and it	?
?	?	?	? does not affect	?
?	?	?	? the temporary	?
?	?	?	? addresses	?
?	?	?	? configured with	?
?	?	?	? this option.	?

??

????????????????????????????

?	?	?	? contains at least 'address' and 'prefix' entries, ?
?	?	?	? containing the IP address as a string, and the ?
?	?	?	? prefix length as a uint32. Additional attributes may ?
?	?	?	? also exist on some addresses. ?

[illegible]

addresses	array of legacy		Deprecated in favor of the 'address-data' and	
	IPv6 address		'gateway' properties, but this can be used for	
	struct		backward-compatibility with older daemons. Note that	
	(a(ayuy))		if you send this property the daemon will ignore	
			'address-data' and 'gateway'. Array of IPv6 address	
			structures. Each IPv6 address structure is composed	
			of an IPv6 address, a prefix length (0 - 128), and	
			an IPv6 gateway address. The gateway may be zeroed	
			out if no gateway exists for that subnet.	

[illegible]

?auto-route-ext-gw	? NMternary	?	? VPN connections will default to add the route	?
?	(int32)	?	? automatically unless this setting is set to FALSE.	?
?	?	?	?	?
?	?	?	? For other connection types, adding such an automatic	?
?	?	?	? route is currently not supported and setting this to ?	
?	?	?	? TRUE has no effect.	?

[illegible]

?	?	?	?	?
?	?	?	?	?
?	?	?	?	?
?	?	?	?	?
?	?	?	?	?

[illegible]

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?	?	?	? hashing the interface name. The special value	?
?	?	?	? "stable" can be used to generate an IAID based on	?
?	?	?	? the stable-id (see connection.stable-id), a per-host	?
?	?	?	? key and the interface name. When the property is	?
?	?	?	? unset, the value from global configuration is used;	?
?	?	?	? if no global default is set then the IAID is assumed	?
?	?	?	? to be "ifname".	?
?	?	?	?	?
?	?	?	? For DHCPv4, the IAID is only used with	?
?	?	?	? "ipv4.dhcp-client-id" values "duid" and "ipv6-duid"	?
?	?	?	? to generate the client-id.	?
?	?	?	?	?
?	?	?	? For DHCPv6, note that at the moment this property is	?
?	?	?	? only supported by the "internal" DHCPv6 plugin. The	?
?	?	?	? "dhclient" DHCPv6 plugin always derives the IAID	?
?	?	?	? from the MAC address.	?
?	?	?	?	?
?	?	?	? The actually used DHCPv6 IAID for a currently	?
?	?	?	? activated interface is exposed in the lease	?
?	?	?	? information of the device.	?

[illegible]

????????????????????

dhcp-reject-servers	array of string		Array of servers from which DHCP offers must be rejected.	
			rejected. This property is useful to avoid getting a lease from misconfigured or rogue servers.	
			For DHCPv4, each element must be an IPv4 address, optionally followed by a slash and a prefix length (e.g. "192.168.122.0/24").	
			This property is currently not implemented for DHCPv6.	

Page

[illegible]

dhcpcd.conf	send_hostname	boolean	TRUE	If TRUE, a hostname is sent to the DHCP server when acquiring a lease. Some DHCP servers use this hostname to update DNS databases, essentially providing a static hostname for the computer. If the "dhcp-hostname" property is NULL and this property is TRUE, the current persistent hostname of the computer is sent.	
-------------	---------------	---------	------	---	--

[illegible]

dhcp-timeout	int32	0	A timeout for a DHCP transaction in seconds. If zero	
			(the default), a globally configured default is	
			used. If still unspecified, a device specific	
			timeout is used (usually 45 seconds).	
			Set to 2147483647 (MAXINT32) for infinity.	

[illegible]

?dns	? array of byte	?	? Array of IP addresses of DNS servers (in network	?
?	? array	?	? byte order)	?

[illegible]

?dns-data	? array of strings	?	? Array of DNS name servers. This replaces the	?
?	?	?	? deprecated "dns" property. Each name server can also	?
?	?	?	? contain a DoT server name.	?

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[illegible]

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? other configurations with a greater numerical ?
 ? priority value; so in presence of at least one ?
 ? negative priority, only DNS servers from connections ?
 ? with the lowest priority value will be used. To ?
 ? avoid all DNS leaks, set the priority of the profile ?
 ? that should be used to the most negative value of ?
 ? all active connections profiles. ?
 ?
 ? Zero selects a globally configured default value. If ?
 ? the latter is missing or zero too, it defaults to 50 ?
 ? for VPNs (including WireGuard) and 100 for other ?
 ? connections. ?
 ?
 ? Note that the priority is to order DNS settings for ?
 ? multiple active connections. It does not ?
 ? disambiguate multiple DNS servers within the same ?
 ? connection profile. ?
 ?
 ? When multiple devices have configurations with the ?
 ? same priority, VPNs will be considered first, then ?
 ? devices with the best (lowest metric) default route ?
 ? and then all other devices. ?
 ?
 ? When using dns=default, servers with higher priority ?
 ? will be on top of resolv.conf. To prioritize a given ?
 ? server over another one within the same connection, ?
 ? just specify them in the desired order. Note that ?
 ? commonly the resolver tries name servers in ?
 ? /etc/resolv.conf in the order listed, proceeding ?
 ? with the next server in the list on failure. See for ?
 ? example the "rotate" option of the dns-options ?
 ? setting. If there are any negative DNS priorities, ?
 ? then only name servers from the devices with that ?

?	?	?	? lowest priority will be considered.	?
?	?	?	?	?
?	?	?	? When using a DNS resolver that supports Conditional	?
?	?	?	? Forwarding or Split DNS (with dns=dnsmasq or	?
?	?	?	? dns=systemd-resolved settings), each connection is	?
?	?	?	? used to query domains in its search list. The search	?
?	?	?	? domains determine which name servers to ask, and the	?
?	?	?	? DNS priority is used to prioritize name servers	?
?	?	?	? based on the domain. Queries for domains not	?
?	?	?	? present in any search list are routed through	?
?	?	?	? connections having the '~.' special wildcard domain,	?
?	?	?	? which is added automatically to connections with the	?
?	?	?	? default route (or can be added manually). When	?
?	?	?	? multiple connections specify the same domain, the	?
?	?	?	? one with the best priority (lowest numerical value)	?
?	?	?	? wins. If a sub domain is configured on another	?
?	?	?	? interface it will be accepted regardless the	?
?	?	?	? priority, unless parent domain on the other	?
?	?	?	? interface has a negative priority, which causes the	?
?	?	?	? sub domain to be shadowed. With Split DNS one can	?
?	?	?	? avoid undesired DNS leaks by properly configuring	?
?	?	?	? DNS priorities and the search domains, so that only	?
?	?	?	? name servers of the desired interface are	?
?	?	?	? configured.	?

[illegible]

????????????????

dns-search	array of string		List of DNS search domains. Domains starting with a tilde (~) are considered 'routing' domains and are used only to decide the interface over which a query must be forwarded; they are not used to complete unqualified host names.	

[illegible]

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ignore-auto-dns	boolean	FALSE	When "method" is set to "auto" and this property to	
		TRUE	automatically configured name servers and	
			search domains are ignored and only name servers and	
			search domains specified in the "dns" and	
			"dns-search" properties, if any, are used.	

????????????????

ignore-auto-routes	boolean	FALSE	When "method" is set to "auto" and this property to TRUE, automatically configured routes are ignored and only routes specified in the "routes" property, if any, are used.
--------------------	---------	-------	---

????????????????

ip6-privacy	NMSettingIPv6ConfigPrivacy	Configure IPv6 Privacy Extensions for SLAAC,	
	(int32)	described in RFC4941. If enabled, it makes the	
		kernel generate a temporary IPv6 address in addition	
		to the public one generated from MAC address via	
		modified EUI-64. This enhances privacy, but could	
		cause problems in some applications, on the other	
		hand. The permitted values are: -1: unknown, 0:	
		disabled, 1: enabled (prefer public address), 2:	
		enabled (prefer temporary addresses).	
		Having a per-connection setting set to "-1"	
		(unknown) means fallback to global configuration	
		"ipv6-privacy".	
		If also global configuration is unspecified or set	
		to "-1", fallback to read	
		"/proc/sys/net/ipv6/conf/default/use_tempaddr".	

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[illegible][illegible]

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?	?	?	?	?
?	?	?	?	For methods that imply no upstream network, such as ?
?	?	?	?	"shared" or "link-local", these properties must be ?
?	?	?	?	empty. ?
?	?	?	?	?
?	?	?	?	For IPv4 method "shared", the IP subnet can be ?
?	?	?	?	configured by adding one manual IPv4 address or ?
?	?	?	?	otherwise 10.42.x.0/24 is chosen. Note that the ?
?	?	?	?	shared method must be configured on the interface ?
?	?	?	?	which shares the internet to a subnet, not on the ?
?	?	?	?	uplink which is shared. ?

[illegible]

????????????????????

mtu	uint32	0	Maximum transmission unit size, in bytes. If zero	
			(the default), the MTU is set automatically from	
			router advertisements or is left equal to the	
			link-layer MTU. If greater than the link-layer MTU,	
			or greater than zero but less than the minimum IPv6	
			MTU of 1280, this value has no effect.	

[illegible]

????????????????????

?never-default	? boolean	? FALSE	? If TRUE, this connection will never be the default	?
?	?	?	? connection for this IP type, meaning it will never	?
?	?	?	? be assigned the default route by NetworkManager.	?

[illegible]

????????????????????

ra-timeout	int32	0	A timeout for waiting Router Advertisements in seconds. If zero (the default), a globally configured default is used. If still unspecified, the timeout depends on the sysctl settings of the

[illegible][illegible]

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?	?	?	?
?	?	?	? This affects all routes, including device-routes,
?	?	?	? IPv4LL, DHCP, SLAAC, default-routes and static
?	?	?	? routes. But note that static routes can individually ?
?	?	?	? overwrite the setting by explicitly specifying a
?	?	?	? non-zero routing table.
?	?	?	?
?	?	?	? If the table setting is left at zero, it is eligible ?
?	?	?	? to be overwritten via global configuration. If the
?	?	?	? property is zero even after applying the global
?	?	?	? configuration value, policy routing is disabled for
?	?	?	? the address family of this connection.
?	?	?	?
?	?	?	? Policy routing disabled means that NetworkManager
?	?	?	? will add all routes to the main table (except static
?	?	?	? routes that explicitly configure a different table).
?	?	?	? Additionally, NetworkManager will not delete any
?	?	?	? extraneous routes from tables except the main table.
?	?	?	? This is to preserve backward compatibility for users
?	?	?	? who manage routing tables outside of NetworkManager.

[illegible]

????????????????

routes	array of legacy IPv6	Deprecated in favor of the 'route-data' property,	
	route struct (a(yayu))	but this can be used for backward-compatibility with	
		older daemons. Note that if you send this property	
		the daemon will ignore 'route-data'. Array of IPv6	
		route structures. Each IPv6 route structure is	
		composed of an IPv6 address, a prefix length (0 -	
		128), an IPv6 next hop address (which may be zeroed	
		out if there is no next hop), and a metric. If the	
		metric is 0, NM will choose an appropriate default	
		metric for the device.	

[illegible]

????????????????

?routing-rules	? array of 'a{sv}'	? ?	? Array of dictionaries for routing rules. Each	?
?	?	?	? routing rule supports the following options: action	?
?	?	?	? (y), dport-end (q), dport-start (q), family (i),	?
?	?	?	? from (s), from-len (y), fwmark (u), fwmask (u),	?
?	?	?	? iifname (s), invert (b), ipproto (s), oifname (s),	?
?	?	?	? priority (u), sport-end (q), sport-start (q),	?
?	?	?	? suppress-prefixlength (i), table (u), to (s), tos	?
?	?	?	? (y), to-len (y), range-end (u), range-start (u).	?

[illegible]

????????????????

?token	? string	?	? Configure the token for	?
?	?	?	? draft-chown-6man-tokenised-ipv6-identifiers-02 IPv6	?
?	?	?	? tokenized interface identifiers. Useful with eui64	?
?	?	?	? addr-gen-mode.	?

[illegible]

????????????????

ip-tunnel setting

IP Tunneling Settings.

[illegible]

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

[illegible]

?encapsulation-limit ? uint32 ? 0 ? How many ?

? ? ? ? additional ?

? ? ? ? levels of ?

? ? ? ? encapsulation ?

? ? ? ? are permitted to ?

? ? ? ? be prepended to ?

? ? ? ? packets. This ?
? ? ? ? property applies ?
? ? ? ? only to IPv6 ?
? ? ? ? tunnels. ?

??

?flags ? uint32 ? 0 ? Tunnel flags. ?
? ? ? ? Currently, the ?
? ? ? ? following values ?
? ? ? ? are supported: ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_IGN_ENCAP_LIMIT ?
? ? ? ? (0x1), ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_USE_ORIG_TCLASS ?
? ? ? ? (0x2), ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_USE_ORIG_FLOWLABEL ?
? ? ? ? (0x4), ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_MIP6_DEV ?
? ? ? ? (0x8), ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_RCV_DSCP_COPY ?
? ? ? ? (0x10), ?
? ? ? ? NM_IP_TUNNEL_FLAG_IP6_USE_ORIG_FWMARK ?
? ? ? ? (0x20). They are ?
? ? ? ? valid only for ?
? ? ? ? IPv6 tunnels. ?

??

?flow-label ? uint32 ? 0 ? The flow label to assign to tunnel ?
? ? ? ? packets. This property applies only to ?
? ? ? ? IPv6 tunnels. ?

??

?fwmark ? uint32 ? 0 ? The fwmark value to assign to tunnel ?
? ? ? ? packets. This property can be set to a ?
? ? ? ? non zero value only on VTI and VTI6 ?
? ? ? ? tunnels. ?

??

[illegible]

? (uint32) ? ? how to handle ?
? ? ? the "mka-cak" ?
? ? ? property. ?

??

?mka-ckn ? string ? ? The pre-shared ?
? ? ? CKN ?
? ? ? (Connectivity-association ?
? ? ? Key Name) for ?
? ? ? MACsec Key ?
? ? ? Agreement. Must ?
? ? ? be a string of ?
? ? ? hexadecimal ?
? ? ? characters with ?
? ? ? a even length ?
? ? ? between 2 and ?
? ? ? 64. ?

??

?mode ? int32 ? 0 ? Specifies how the CAK ?
? ? ? (Connectivity Association ?
? ? ? Key) for MKA (MACsec Key ?
? ? ? Agreement) is obtained. ?

??

?parent ? string ? ? If given, specifies the ?
? ? ? parent interface name or ?
? ? ? parent connection UUID ?
? ? ? from which this MACSEC ?
? ? ? interface should be ?
? ? ? created. If this ?
? ? ? property is not ?
? ? ? specified, the connection ?
? ? ? must contain an ?
? ? ? "802-3-ethernet" setting ?
? ? ? with a "mac-address" ?

? ? ? ? property. ?
 ???
 ?port ? int32 ? 1 ? The port component of the ?
 ? ? ? ? SCI (Secure Channel ?
 ? ? ? ? Identifier), between 1 ?
 ? ? ? ? and 65534. ?
 ???
 ?send-sci ? boolean ? TRUE ? Specifies whether the SCI ?
 ? ? ? ? (Secure Channel ?
 ? ? ? ? Identifier) is included ?
 ? ? ? ? in every packet. ?
 ???
 ?validation ? int32 ? 2 ? Specifies the validation ?
 ? ? ? ? mode for incoming frames. ?
 ???

macvlan setting

MAC VLAN Settings.
 ???
 ?Key Name ? Value Type ? Default Value ? Value ?
 ? ? ? ? Description ?
 ???
 ?mode ? uint32 ? 0 ? The macvlan ?
 ? ? ? ? mode, which ?
 ? ? ? ? specifies the ?
 ? ? ? ? communication ?
 ? ? ? ? mechanism ?
 ? ? ? ? between multiple ?
 ? ? ? ? macvlans on the ?
 ? ? ? ? same lower ?
 ? ? ? ? device. ?
 ???
 ?parent ? string ? ? If given, ?
 ? ? ? ? specifies the ?

?	?	?	? parent interface ?
?	?	?	? name or parent ?
?	?	?	? connection UUID ?
?	?	?	? from which this ?
?	?	?	? MAC-VLAN ?
?	?	?	? interface should ?
?	?	?	? be created. If ?
?	?	?	? this property is ?
?	?	?	? not specified, ?
?	?	?	? the connection ?
?	?	?	? must contain an ?
?	?	?	? "802-3-ethernet" ?
?	?	?	? setting with a ?
?	?	?	? "mac-address" ?
?	?	?	? property. ?

??

?promiscuous	? boolean	? TRUE	? Whether the	?
?	?	?	? interface should	?
?	?	?	? be put in	?
?	?	?	? promiscuous	?
?	?	?	? mode.	?

??

?tap	? boolean	? FALSE	? Whether the	?
?	?	?	? interface should	?
?	?	?	? be a MACVTAP.	?

??

match setting

Match settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
?	?	? Description	?	

?	?	?	? one of the optional element	?
?	?	?	? matches (logical OR). If	?
?	?	?	? there are any mandatory	?
?	?	?	? elements, then they all must	?
?	?	?	? match (logical AND). By	?
?	?	?	? default, an element is	?
?	?	?	? optional. This means that an	?
?	?	?	? element "foo" behaves the	?
?	?	?	? same as " foo". An element	?
?	?	?	? can also be inverted with	?
?	?	?	? exclamation mark (!) between	?
?	?	?	? the pipe symbol (or the	?
?	?	?	? ampersand) and before the	?
?	?	?	? pattern. Note that "!foo" is	?
?	?	?	? a shortcut for the mandatory	?
?	?	?	? match "&!foo". Finally, a	?
?	?	?	? backslash can be used at the	?
?	?	?	? beginning of the element	?
?	?	?	? (after the optional special	?
?	?	?	? characters) to escape the	?
?	?	?	? start of the pattern. For	?
?	?	?	? example, "&\\!a" is an	?
?	?	?	? mandatory match for literally	?
?	?	?	? "!a".	?

[illegible]

kernel-command-line	array of string	A list of kernel command line
arguments to match. This may		
be used to check whether a		
specific kernel command line		
option is set (or unset, if		
prefixed with the exclamation		
mark). The argument must		

[illegible]

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[illegible][illegible]

?	?	?	? Description	?
??				
?channel	? uint32	? 0	? Channel on which	?
?	?	?	? the mesh network	?
?	?	?	? to join is	?
?	?	?	? located.	?
??				
?dhcp-anycast-address	? byte array		? Anycast DHCP MAC	?
?	?	?	? address used	?
?	?	?	? when requesting	?
?	?	?	? an IP address	?
?	?	?	? via DHCP. The	?
?	?	?	? specific anycast	?
?	?	?	? address used	?
?	?	?	? determines which	?
?	?	?	? DHCP server	?
?	?	?	? class answers	?
?	?	?	? the request.	?
?	?	?	?	?
?	?	?	? This is	?
?	?	?	? currently only	?
?	?	?	? implemented by	?
?	?	?	? dhclient DHCP	?
?	?	?	? plugin.	?
??				
?ssid	? byte array		? SSID of the mesh	?
?	?	?	? network to join.	?
??				

ovs-bridge setting

OvsBridge Link Settings.

??				
?Key Name	? Value Type	? Default Value	? Value	?
?	?	?	? Description	?

??

?datapath-type ? string ? ? The data path ?

? ? ? ? type. One of ?

? ? ? ? "system", ?

? ? ? ? "netdev" or ?

? ? ? ? empty. ?

??

?fail-mode ? string ? ? The bridge ?

? ? ? ? failure mode. ?

? ? ? ? One of "secure", ?

? ? ? ? "standalone" or ?

? ? ? ? empty. ?

??

?mcast-snooping-enable ? boolean ? FALSE ? Enable or ?

? ? ? ? disable ?

? ? ? ? multicast ?

? ? ? ? snooping. ?

??

?rstp-enable ? boolean ? FALSE ? Enable or ?

? ? ? ? disable RSTP. ?

??

?stp-enable ? boolean ? FALSE ? Enable or ?

? ? ? ? disable STP. ?

??

ovs-dpdk setting

OvsDpdk Link Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?devargs ? string ? ? Open vSwitch ?

? ? ? ? DPDK device ?

? ? ? ? arguments. ?

??

?n-rxq ? uint32 ? 0 ? Open vSwitch ?

? ? ? ? DPDK number of ?

? ? ? ? rx queues. ?

? ? ? ? Defaults to zero ?

? ? ? ? which means to ?

? ? ? ? leave the ?

? ? ? ? parameter in OVS ?

? ? ? ? unspecified and ?

? ? ? ? effectively ?

? ? ? ? configures one ?

? ? ? ? queue. ?

??

?n-rxq-desc ? uint32 ? 0 ? The rx queue ?

? ? ? ? size (number of ?

? ? ? ? rx descriptors) ?

? ? ? ? for DPDK ports. ?

? ? ? ? Must be zero or ?

? ? ? ? a power of 2 ?

? ? ? ? between 1 and ?

? ? ? ? 4096, and ?

? ? ? ? supported by the ?

? ? ? ? hardware. ?

? ? ? ? Defaults to zero ?

? ? ? ? which means to ?

? ? ? ? leave the ?

? ? ? ? parameter in OVS ?

? ? ? ? unspecified and ?

? ? ? ? effectively ?

? ? ? ? configures 2048 ?

? ? ? ? descriptors. ?

??

?n-txq-desc ? uint32 ? 0 ? The tx queue ?

?	?	?	? size (number of ?
?	?	?	? tx descriptors) ?
?	?	?	? for DPDK ports. ?
?	?	?	? Must be zero or ?
?	?	?	? a power of 2 ?
?	?	?	? between 1 and ?
?	?	?	? 4096, and ?
?	?	?	? supported by the ?
?	?	?	? hardware. ?
?	?	?	? Defaults to zero ?
?	?	?	? which means to ?
?	?	?	? leave the ?
?	?	?	? parameter in OVS ?
?	?	?	? unspecified and ?
?	?	?	? effectively ?
?	?	?	? configures 2048 ?
?	?	?	? descriptors. ?

??

ovs-interface setting

Open vSwitch Interface Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

??

?ofport-request	? uint32	? 0	? Open vSwitch	?
-----------------	----------	-----	----------------	---

?	?	?	? openflow port	?
---	---	---	-----------------	---

?	?	?	? number. Defaults ?
---	---	---	----------------------

?	?	?	? to zero which ?
---	---	---	-------------------

?	?	?	? means that port ?
---	---	---	---------------------

?	?	?	? number will not ?
---	---	---	---------------------

?	?	?	? be specified and ?
---	---	---	----------------------

?	?	?	? it will be ?
---	---	---	----------------

?	?	?	? chosen randomly ?
---	---	---	---------------------

?	?	?	? by ovs. OpenFlow ?
?	?	?	? ports are the ?
?	?	?	? network ?
?	?	?	? interfaces for ?
?	?	?	? passing packets ?
?	?	?	? between OpenFlow ?
?	?	?	? processing and ?
?	?	?	? the rest of the ?
?	?	?	? network. ?
?	?	?	? OpenFlow ?
?	?	?	? switches connect ?
?	?	?	? logically to ?
?	?	?	? each other via ?
?	?	?	? their OpenFlow ?
?	?	?	? ports. ?

??

?type	? string	?	? The interface ?
?	?	?	? type. Either ?
?	?	?	? "internal", ?
?	?	?	? "system", ?
?	?	?	? "patch", "dpdk", ?
?	?	?	? or empty. ?

??

ovs-patch setting

OvsPatch Link Settings.

??

?Key	Name	? Value	Type	? Default	Value	? Value	?
------	------	---------	------	-----------	-------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

??

?peer	? string	?	? Specifies the	?
?	?	?	? name of the	?
?	?	?	? interface for	?
?	?	?	? the other side	?

? ? ? ? of the patch. ?
? ? ? ? The patch on the ?
? ? ? ? other side must ?
? ? ? ? also set this ?
? ? ? ? interface as ?
? ? ? ? peer. ?

??

ovs-port setting

OvsPort Link Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?bond-downdelay ? uint32 ? 0 ? The time port ?

? ? ? ? must be inactive ?

? ? ? ? in order to be ?

? ? ? ? considered down. ?

??

?bond-mode ? string ? ? Bonding mode. ?

? ? ? ? One of ?

? ? ? ? "active-backup", ?

? ? ? ? "balance-slb", ?

? ? ? ? or ?

? ? ? ? "balance-tcp". ?

??

?bond-updelay ? uint32 ? 0 ? The time port ?

? ? ? ? must be active ?

? ? ? ? before it starts ?

? ? ? ? forwarding ?

? ? ? ? traffic. ?

??

?lacp ? string ? ? LACP mode. One ?

? ? ? ? of "active", ?

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?baud ? uint32 ? 0 ? If non-zero, ?

? ? ? ? instruct pppd to ?

? ? ? ? set the serial ?

? ? ? ? port to the ?

? ? ? ? specified ?

? ? ? ? baudrate. This ?

? ? ? ? value should ?

? ? ? ? normally be left ?

? ? ? ? as 0 to ?

? ? ? ? automatically ?

? ? ? ? choose the ?

? ? ? ? speed. ?

??

?crtcts ? boolean ? FALSE ? If TRUE, specify ?

? ? ? ? that pppd should ?

? ? ? ? set the serial ?

? ? ? ? port to use ?

? ? ? ? hardware flow ?

? ? ? ? control with RTS ?

? ? ? ? and CTS signals. ?

? ? ? ? This value ?

? ? ? ? should normally ?

? ? ? ? be set to FALSE. ?

??

?lcp-echo-failure ? uint32 ? 0 ? If non-zero, ?

? ? ? ? instruct pppd to ?

? ? ? ? presume the ?

? ? ? ? connection to ?

? ? ? ? the peer has ?

?	?	?	? failed if the	?
?	?	?	? specified number	?
?	?	?	? of LCP	?
?	?	?	? echo-requests go	?
?	?	?	? unanswered by	?
?	?	?	? the peer. The	?
?	?	?	? "lcp-echo-interval"	?
?	?	?	? property must	?
?	?	?	? also be set to a	?
?	?	?	? non-zero value	?
?	?	?	? if this property	?
?	?	?	? is used.	?

[illegible]

?lcp-echo-interval	? uint32	? 0	? If non-zero,	?
--------------------	----------	-----	----------------	---

?	?	?	? instruct pppd to	?
?	?	?	? send an LCP	?
?	?	?	? echo-request frame	?
?	?	?	? to the peer every n	?
?	?	?	? seconds (where n is	?
?	?	?	? the specified	?
?	?	?	? value). Note that	?
?	?	?	? some PPP peers will	?
?	?	?	? respond to echo	?
?	?	?	? requests and some	?
?	?	?	? will not, and it is	?
?	?	?	? not possible to	?
?	?	?	? autodetect this.	?

[illegible]

?mppe-stateful ? boolean ? FALSE ? If TRUE, stateful ?

?	?	?	? MPPE is used. See ?
?	?	?	? pppd documentation ?
?	?	?	? for more ?
?	?	?	? information on ?

? ? ? ? stateful MPPE. ?
 ???
 ?mru ? uint32 ? 0 ? If non-zero, ?
 ? ? ? ? instruct pppd to ?
 ? ? ? ? request that the ?
 ? ? ? ? peer send packets ?
 ? ? ? ? no larger than the ?
 ? ? ? ? specified size. If ?
 ? ? ? ? non-zero, the MRU ?
 ? ? ? ? should be between ?
 ? ? ? ? 128 and 16384. ?
 ???
 ?mtu ? uint32 ? 0 ? If non-zero, ?
 ? ? ? ? instruct pppd to ?
 ? ? ? ? send packets no ?
 ? ? ? ? larger than the ?
 ? ? ? ? specified size. ?
 ???
 ?no-vj-comp ? boolean ? FALSE ? If TRUE, Van ?
 ? ? ? ? Jacobsen TCP header ?
 ? ? ? ? compression will ?
 ? ? ? ? not be requested. ?
 ???
 ?noauth ? boolean ? TRUE ? If TRUE, do not ?
 ? ? ? ? require the other ?
 ? ? ? ? side (usually the ?
 ? ? ? ? PPP server) to ?
 ? ? ? ? authenticate itself ?
 ? ? ? ? to the client. If ?
 ? ? ? ? FALSE, require ?
 ? ? ? ? authentication from ?
 ? ? ? ? the remote side. ?
 ? ? ? ? In almost all ?

? ? ? ? cases, this should ?

? ? ? ? be TRUE. ?

??

?nobsdcomp ? boolean ? FALSE ? If TRUE, BSD ?

? ? ? ? compression will ?

? ? ? ? not be requested. ?

??

?nodeflate ? boolean ? FALSE ? If TRUE, "deflate" ?

? ? ? ? compression will ?

? ? ? ? not be requested. ?

??

?refuse-chap ? boolean ? FALSE ? If TRUE, the CHAP ?

? ? ? ? authentication ?

? ? ? ? method will not be ?

? ? ? ? used. ?

??

?refuse-eap ? boolean ? FALSE ? If TRUE, the EAP ?

? ? ? ? authentication ?

? ? ? ? method will not be ?

? ? ? ? used. ?

??

?refuse-mschap ? boolean ? FALSE ? If TRUE, the MSCHAP ?

? ? ? ? authentication ?

? ? ? ? method will not be ?

? ? ? ? used. ?

??

?refuse-mschapv2 ? boolean ? FALSE ? If TRUE, the ?

? ? ? ? MSCHAPv2 ?

? ? ? ? authentication ?

? ? ? ? method will not be ?

? ? ? ? used. ?

??

?refuse-pap ? boolean ? FALSE ? If TRUE, the PAP ?

? authentication ?
? method will not be ?
? used. ?
??

?require-mppe ? boolean ? FALSE ? If TRUE, MPPE ?
? (Microsoft ?
? Point-to-Point ?
? Encryption) will be ?
? required for the ?
? PPP session. If ?
? either 64-bit or ?
? 128-bit MPPE is not ?
? available the ?
? session will fail. ?
? Note that MPPE is ?
? not used on mobile ?
? broadband ?
? connections. ?

??

?require-mppe-128 ? boolean ? FALSE ? If TRUE, 128-bit ?
? MPPE (Microsoft ?
? Point-to-Point ?
? Encryption) will be ?
? required for the ?
? PPP session, and ?
? the "require-mppe" ?
? property must also ?
? be set to TRUE. If ?
? 128-bit MPPE is not ?
? available the ?
? session will fail. ?

??

PPP-over-Ethernet Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

??

?parent	? string	?	? If given,	?
---------	----------	---	-------------	---

?	?	?	? specifies the	?
---	---	---	-----------------	---

?	?	?	? parent interface	?
---	---	---	--------------------	---

?	?	?	? name on which	?
---	---	---	-----------------	---

?	?	?	? this PPPoE	?
---	---	---	--------------	---

?	?	?	? connection	?
---	---	---	--------------	---

?	?	?	? should be	?
---	---	---	-------------	---

?	?	?	? created. If	?
---	---	---	---------------	---

?	?	?	? this property is	?
---	---	---	--------------------	---

?	?	?	? not specified,	?
---	---	---	------------------	---

?	?	?	? the connection	?
---	---	---	------------------	---

?	?	?	? is activated on	?
---	---	---	-------------------	---

?	?	?	? the interface	?
---	---	---	-----------------	---

?	?	?	? specified in	?
---	---	---	----------------	---

?	?	?	? "interface-name"	?
---	---	---	--------------------	---

?	?	?	? of	?
---	---	---	------	---

?	?	?	? NMSettingConnection.	?
---	---	---	------------------------	---

??

?password	? string	?	? Password used to	?
-----------	----------	---	--------------------	---

?	?	?	? authenticate with	?
---	---	---	---------------------	---

?	?	?	? the PPPoE service.	?
---	---	---	----------------------	---

??

?password-flags	? NMSettingSecretFlags	?	? Flags indicating how	?
-----------------	------------------------	---	------------------------	---

?	? (uint32)	?	? to handle the	?
---	------------	---	-----------------	---

?	?	?	? "password" property.	?
---	---	---	------------------------	---

??

?service	? string	?	? If specified,	?
----------	----------	---	-----------------	---

?	?	?	? instruct PPPoE to	?
---	---	---	---------------------	---

?	?	?	? Default is	?
?	?	?	? NM_SETTING_PROXY_METHOD_NONE	?
?	?	?	? (0)	?
??				
?pac-script	? string	?	? PAC script for the	?
?	?	?	? connection. This is an UTF-8	?
?	?	?	? encoded javascript code that	?
?	?	?	? defines a FindProxyForURL()	?
?	?	?	? function.	?
??				
?pac-url	? string	?	? PAC URL for obtaining PAC	?
?	?	?	? file.	?
??				

serial setting

Serial Link Settings.

??				
?Key Name	? Value Type	? Default Value	? Value	?
?	?	?	? Description	?
??				
?baud	? uint32	? 57600	? Speed to use for	?
?	?	?	? communication	?
?	?	?	? over the serial	?
?	?	?	? port. Note that	?
?	?	?	? this value	?
?	?	?	? usually has no	?
?	?	?	? effect for	?
?	?	?	? mobile broadband	?
?	?	?	? modems as they	?
?	?	?	? generally ignore	?
?	?	?	? speed settings	?
?	?	?	? and use the	?
?	?	?	? highest	?
?	?	?	? available speed.	?

??

?bits ? uint32 ? 8 ? Byte-width of ?

? ? ? ? the serial ?

? ? ? ? communication. ?

? ? ? ? The 8 in "8n1" ?

? ? ? ? for example. ?

??

?parity ? byte ? ? The connection ?

? ? ? ? parity: 69 ?

? ? ? ? (ASCII 'E') for ?

? ? ? ? even parity, 111 ?

? ? ? ? (ASCII 'o') for ?

? ? ? ? odd, 110 (ASCII ?

? ? ? ? 'n') for none. ?

??

?send-delay ? uint64 ? 0 ? Time to delay ?

? ? ? ? between each ?

? ? ? ? byte sent to the ?

? ? ? ? modem, in ?

? ? ? ? microseconds. ?

??

?stopbits ? uint32 ? 1 ? Number of stop ?

? ? ? ? bits for ?

? ? ? ? communication on ?

? ? ? ? the serial port. ?

? ? ? ? Either 1 or 2. ?

? ? ? ? The 1 in "8n1" ?

? ? ? ? for example. ?

??

sriov setting

SR-IOV settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

?	?	?	? Description	?
??				
?autoprobe-drivers	? NMternary	?	? Whether to	?
?	? (int32)	?	? autoprobe	?
?	?	?	? virtual	?
?	?	?	? functions by a	?
?	?	?	? compatible	?
?	?	?	? driver.	?
?	?	?	?	?
?	?	?	? If set to	?
?	?	?	? NM_TERNARY_TRUE	?
?	?	?	? (1), the kernel	?
?	?	?	? will try to bind	?
?	?	?	? VFs to a	?
?	?	?	? compatible	?
?	?	?	? driver and if	?
?	?	?	? this succeeds a	?
?	?	?	? new network	?
?	?	?	? interface will	?
?	?	?	? be instantiated	?
?	?	?	? for each VF.	?
?	?	?	?	?
?	?	?	? If set to	?
?	?	?	? NM_TERNARY_FALSE	?
?	?	?	? (0), VFs will	?
?	?	?	? not be claimed	?
?	?	?	? and no network	?
?	?	?	? interfaces will	?
?	?	?	? be created for	?
?	?	?	? them.	?
?	?	?	?	?
?	?	?	? When set to	?
?	?	?	? NM_TERNARY_DEFAULT	?

?	?	?	? (-1), the global	?
?	?	?	? default is used;	?
?	?	?	? in case the	?
?	?	?	? global default	?
?	?	?	? is unspecified	?
?	?	?	? it is assumed to	?
?	?	?	? be	?
?	?	?	? NM_TERNARY_TRUE	?
?	?	?	? (1).	?

[illegible]

total-vfs	uint32	0	The total number	
			of virtual	
			functions to	
			create.	
			Note that when the	
			sriov setting is	
			present	
			NetworkManager	
			enforces the	
			number of virtual	
			functions on the	
			interface (also	
			when it is zero)	
			during activation	
			and resets it upon	
			deactivation. To	
			prevent any	
			changes to SR-IOV	
			parameters don't	
			add a sriov	
			setting to the	
			connection.	

??

?vfs	? array of vardict ?	? Array of virtual	?
?	?	? function	?
?	?	? descriptors.	?
?	?	?	?
?	?	? Each VF descriptor	?
?	?	? is a dictionary	?
?	?	? mapping attribute	?
?	?	? names to GVariant	?
?	?	? values. The	?
?	?	? 'index' entry is	?
?	?	? mandatory for each	?
?	?	? VF.	?
?	?	?	?
?	?	? When represented	?
?	?	? as string a VF is	?
?	?	? in the form:	?
?	?	?	?
?	?	? "INDEX	?
?	?	? [ATTR=VALUE[	?
?	?	? ATTR=VALUE[...]"	?
?	?	?	?
?	?	? for example:	?
?	?	?	?
?	?	? "2	?
?	?	? mac=00:11:22:33:44:55	?
?	?	? spoof-check=true".	?
?	?	?	?
?	?	? Multiple VFs can	?
?	?	? be specified using	?
?	?	? a comma as	?
?	?	? separator.	?
?	?	? Currently, the	?

?	?	?	? following	?
?	?	?	? attributes are	?
?	?	?	? supported: mac,	?
?	?	?	? spoof-check,	?
?	?	?	? trust,	?
?	?	?	? min-tx-rate,	?
?	?	?	? max-tx-rate,	?
?	?	?	? vlans.	?
?	?	?	?	?
?	?	?	? The "vlans"	?
?	?	?	? attribute is	?
?	?	?	? represented as a	?
?	?	?	? semicolon-separated	?
?	?	?	? list of VLAN	?
?	?	?	? descriptors, where	?
?	?	?	? each descriptor	?
?	?	?	? has the form	?
?	?	?	?	?
?	?	?	? "ID[.PRIORITY[.PROTO]]".	?
?	?	?	?	?
?	?	?	? PROTO can be	?
?	?	?	? either 'q' for	?
?	?	?	? 802.1Q (the	?
?	?	?	? default) or 'ad'	?
?	?	?	? for 802.1ad.	?

??

tc setting

Linux Traffic Control Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
?	?	? Description	?	

??

?qdiscs ? array of vardict ? ? Array of TC ?

?	?	?	? queueing	?
?	?	?	? disciplines.	?
?	?	?	?	?
?	?	?	? When the "tc"	?
?	?	?	? setting is	?
?	?	?	? present, qdiscs	?
?	?	?	? from this	?
?	?	?	? property are	?
?	?	?	? applied upon	?
?	?	?	? activation. If	?
?	?	?	? the property is	?
?	?	?	? empty, all	?
?	?	?	? qdiscs are	?
?	?	?	? removed and the	?
?	?	?	? device will only	?
?	?	?	? have the default	?
?	?	?	? qdisc assigned	?
?	?	?	? by kernel	?
?	?	?	? according to the	?
?	?	?	? "net.core.default_qdisc"	?
?	?	?	? sysctl.	?
?	?	?	?	?
?	?	?	? If the "tc"	?
?	?	?	? setting is not	?
?	?	?	? present,	?
?	?	?	? NetworkManager	?
?	?	?	? doesn't touch	?
?	?	?	? the qdiscs	?
?	?	?	? present on the	?
?	?	?	? interface.	?

??

?filters ? array of vardict ? ? Array of TC traffic ?

? ? ? ? filters. ?

??

Teaming Settings.

Key Name	Value Type	Default Value	Value	
			Description	

?config	? string	?	? The JSON	?
?	?	?	? configuration	?
?	?	?	? for the team	?
?	?	?	? network	?
?	?	?	? interface. The	?
?	?	?	? property should	?
?	?	?	? contain raw JSON	?
?	?	?	? configuration	?
?	?	?	? data suitable	?

[illegible][illegible]

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?runner-sys-prio ? int32 ? -1 ? Corresponds to the teamd ?
? ? ? ? runner.sys_prio. ?

??

?runner-tx-balancer ? string ? ? Corresponds to the teamd ?
? ? ? ? runner.tx_balancer.name. ?

??

?runner-tx-balancer-interval ? int32 ? -1 ? Corresponds to the teamd ?
? ? ? ? runner.tx_balancer.interval. ?

??

?runner-tx-hash ? array of string ? ? Corresponds to the teamd ?
? ? ? ? runner.tx_hash. ?

??

team-port setting

Team Port Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?
? ? ? ? Description ?

??

?config ? string ? ? The JSON ?
? ? ? ? configuration ?
? ? ? ? for the team ?
? ? ? ? port. The ?
? ? ? ? property should ?
? ? ? ? contain raw JSON ?
? ? ? ? configuration ?
? ? ? ? data suitable ?
? ? ? ? for teamd, ?
? ? ? ? because the ?
? ? ? ? value is passed ?

?	?	?	? directly to	?
?	?	?	? teamd. If not	?
?	?	?	? specified, the	?
?	?	?	? default	?
?	?	?	? configuration is	?
?	?	?	? used. See man	?
?	?	?	? teamd.conf for	?
?	?	?	? the format	?
?	?	?	? details.	?

??

?lacp-key	? int32	? -1	? Corresponds to	?
-----------	---------	------	------------------	---

?	?	?	? the teamd	?
---	---	---	-------------	---

?	?	?	? ports.PORTIFNAME.lacp_key.	?
---	---	---	------------------------------	---

??

?lacp-prio	? int32	? -1	? Corresponds to the teamd	?
------------	---------	------	----------------------------	---

?	?	?	? ports.PORTIFNAME.lacp_prio.	?
---	---	---	-------------------------------	---

??

?link-watchers	? array of vardict	?	? Link watchers configuration	?
----------------	--------------------	---	-------------------------------	---

?	?	?	? for the connection: each	?
---	---	---	----------------------------	---

?	?	?	? link watcher is defined by	?
---	---	---	------------------------------	---

?	?	?	? a dictionary, whose keys	?
---	---	---	----------------------------	---

?	?	?	? depend upon the selected	?
---	---	---	----------------------------	---

?	?	?	? link watcher. Available	?
---	---	---	---------------------------	---

?	?	?	? link watchers are	?
---	---	---	---------------------	---

?	?	?	? 'ethtool', 'nsna_ping' and	?
---	---	---	------------------------------	---

?	?	?	? 'arp_ping' and it is	?
---	---	---	------------------------	---

?	?	?	? specified in the dictionary	?
---	---	---	-------------------------------	---

?	?	?	? with the key 'name'.	?
---	---	---	------------------------	---

?	?	?	? Available keys are:	?
---	---	---	-----------------------	---

?	?	?	? ethtool: 'delay-up',	?
---	---	---	------------------------	---

?	?	?	? 'delay-down', 'init-wait';	?
---	---	---	------------------------------	---

?	?	?	? nsna_ping: 'init-wait',	?
---	---	---	---------------------------	---

?	?	?	? 'interval', 'missed-max',	?
---	---	---	-----------------------------	---

?	?	?	? 'target-host'; arp_ping: ?
?	?	?	? all the ones in nsna_ping ?
?	?	?	? and 'source-host', ?
?	?	?	? 'validate-active', ?
?	?	?	? 'validate-inactive', ?
?	?	?	? 'send-always'. See ?
?	?	?	? teamd.conf man for more ?
?	?	?	? details. ?

??

?prio	? int32	? 0	? Corresponds to the teamd ?
?	?	?	? ports.PORTIFNAME.prio. ?

??

?queue-id	? int32	? -1	? Corresponds to the teamd ?
?	?	?	? ports.PORTIFNAME.queue_id. ?
?	?	?	? When set to -1 means the ?
?	?	?	? parameter is skipped from ?
?	?	?	? the json config. ?

??

?sticky	? boolean	? FALSE	? Corresponds to the teamd ?
?	?	?	? ports.PORTIFNAME.sticky. ?

??

tun setting

Tunnel Settings.

??

?Key Name	? Value Type	? Default Value	? Value
?	?	?	? Description

??

?group	? string	?	? The group ID	?
?	?	?	? which will own	?
?	?	?	? the device. If	?
?	?	?	? set to NULL	?
?	?	?	? everyone will be	?
?	?	?	? able to use the	?

? ? ? ? device. ?
 ???
 ?mode ? uint32 ? 1 ? The operating ?
 ? ? ? ? mode of the ?
 ? ? ? ? virtual device. ?
 ? ? ? ? Allowed values ?
 ? ? ? ? are ?
 ? ? ? ? NM_SETTING_TUN_MODE_TUN ?
 ? ? ? ? (1) to create a ?
 ? ? ? ? layer 3 device ?
 ? ? ? ? and ?
 ? ? ? ? NM_SETTING_TUN_MODE_TAP ?
 ? ? ? ? (2) to create an ?
 ? ? ? ? Ethernet-like ?
 ? ? ? ? layer 2 one. ?
 ???
 ?multi-queue ? boolean ? FALSE ? If the property is set ?
 ? ? ? ? to TRUE, the interface ?
 ? ? ? ? will support multiple ?
 ? ? ? ? file descriptors ?
 ? ? ? ? (queues) to parallelize ?
 ? ? ? ? packet sending or ?
 ? ? ? ? receiving. Otherwise, ?
 ? ? ? ? the interface will only ?
 ? ? ? ? support a single queue. ?
 ???
 ?owner ? string ? ? The user ID which will ?
 ? ? ? ? own the device. If set ?
 ? ? ? ? to NULL everyone will ?
 ? ? ? ? be able to use the ?
 ? ? ? ? device. ?
 ???

?	?	?	? will prepend a 4 byte	?
?	?	?	? header describing the	?
?	?	?	? physical interface to	?
?	?	?	? the packets.	?

??

?vnet-hdr	? boolean	? FALSE	? If TRUE the	?
?	?	?	? IFF_VNET_HDR the tunnel	?
?	?	?	? packets will include a	?
?	?	?	? virtio network header.	?

??

user setting

General User Profile Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
?	?	?	? Description	?

??

?data	? dict of string ? {}	? A dictionary of	?	
?	? to string	?	? key/value pairs	?
?	?	?	? with user data.	?
?	?	?	? This data is	?
?	?	?	? ignored by	?
?	?	?	? NetworkManager	?
?	?	?	? and can be used	?
?	?	?	? at the users	?
?	?	?	? discretion. The	?
?	?	?	? keys only	?
?	?	?	? support a strict	?
?	?	?	? ascii format,	?
?	?	?	? but the values	?
?	?	?	? can be arbitrary	?
?	?	?	? UTF8 strings up	?
?	?	?	? to a certain	?
?	?	?	? length.	?

??

vlan setting

VLAN Settings.

??

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	? Description	?
---	---	---------------	---

??

?egress-priority-map	? array of string	? For outgoing	?
----------------------	-------------------	----------------	---

?	?	? packets, a list	?
---	---	-------------------	---

?	?	? of mappings from	?
---	---	--------------------	---

?	?	? Linux SKB	?
---	---	-------------	---

?	?	? priorities to	?
---	---	-----------------	---

?	?	? 802.1p	?
---	---	----------	---

?	?	? priorities. The	?
---	---	-------------------	---

?	?	? mapping is given	?
---	---	--------------------	---

?	?	? in the format	?
---	---	-----------------	---

?	?	? "from:to" where	?
---	---	-------------------	---

?	?	? both "from" and	?
---	---	-------------------	---

?	?	? "to" are	?
---	---	------------	---

?	?	? unsigned	?
---	---	------------	---

?	?	? integers, ie	?
---	---	----------------	---

?	?	? "7:3".	?
---	---	----------	---

??

?flags	? NMVlanFlags	? One or more	?
--------	---------------	---------------	---

?	? (uint32)	? flags which	?
---	------------	---------------	---

?	?	? control the	?
---	---	---------------	---

?	?	? behavior and	?
---	---	----------------	---

?	?	? features of the	?
---	---	-------------------	---

?	?	? VLAN interface.	?
---	---	-------------------	---

?	?	? Flags include	?
---	---	-----------------	---

?	?	? NM_VLAN_FLAG_REORDER_HEADERS	?
---	---	--------------------------------	---

?	?	? (0x1)	?
---	---	---------	---

?	?	? (reordering of	?
---	---	------------------	---

?	?	?	? output packet	?
?	?	?	? headers),	?
?	?	?	? NM_VLAN_FLAG_GVRP	?
?	?	?	? (0x2) (use of	?
?	?	?	? the GVRP	?
?	?	?	? protocol), and	?
?	?	?	? NM_VLAN_FLAG_LOOSE_BINDING	?
?	?	?	? (0x4) (loose	?
?	?	?	? binding of the	?
?	?	?	? interface to its	?
?	?	?	? master device's	?
?	?	?	? operating	?
?	?	?	? state).	?
?	?	?	? NM_VLAN_FLAG_MVRP	?
?	?	?	? (0x8) (use of	?
?	?	?	? the MVRP	?
?	?	?	? protocol).	?
?	?	?	?	?
?	?	?	? The default	?
?	?	?	? value of this	?
?	?	?	? property is	?
?	?	?	? NM_VLAN_FLAG_REORDER_HEADERS,	?
?	?	?	? but it used to	?
?	?	?	? be 0. To	?
?	?	?	? preserve	?
?	?	?	? backward	?
?	?	?	? compatibility,	?
?	?	?	? the	?
?	?	?	? default-value in	?
?	?	?	? the D-Bus API	?
?	?	?	? continues to be	?
?	?	?	? 0 and a missing	?
?	?	?	? property on	?

			? D-Bus is still	
			? considered as 0.	
id	uint32	0	The VLAN identifier that the	
			interface created by this	
			connection should be	
			assigned. The valid range is	
			from 0 to 4094, without the	
			reserved id 4095.	
ingress-priority-map array of string For incoming packets, a list				
			of mappings from 802.1p	
			priorities to Linux SKB	
			priorities. The mapping is	
			given in the format "from:to"	
			where both "from" and "to"	
			are unsigned integers, ie	
			"7:3".	
interface-name	string		Deprecated in favor of	
			connection.interface-name,	
			but can be used for	
			backward-compatibility with	
			older daemons, to set the	
			vlan's interface name.	
parent	string		If given, specifies the	
			parent interface name or	
			parent connection UUID from	
			which this VLAN interface	
			should be created. If this	
			property is not specified,	
			the connection must contain	

?	?	?	? across link	?
?	?	?	? changes and	?
?	?	?	? outages, until	?
?	?	?	? explicitly	?
?	?	?	? disconnected.	?
??				
?secrets	? dict of string ? {}		? Dictionary of	?
?	? to string	?	? key/value pairs	?
?	?	?	? of VPN plugin	?
?	?	?	? specific secrets	?
?	?	?	? like passwords	?
?	?	?	? or private keys.	?
?	?	?	? Both keys and	?
?	?	?	? values must be	?
?	?	?	? strings.	?
??				
?service-type	? string	?	? D-Bus service	?
?	?	?	? name of the VPN	?
?	?	?	? plugin that this	?
?	?	?	? setting uses to	?
?	?	?	? connect to its	?
?	?	?	? network. i.e.	?
?	?	?	? org.freedesktop.NetworkManager.vpnc	?
?	?	?	? for the vpnc	?
?	?	?	? plugin.	?
??				
?timeout	? uint32	? 0	? Timeout for the VPN service to	?
?	?	?	? establish the connection. Some	?
?	?	?	? services may take quite a long time	?
?	?	?	? to connect. Value of 0 means a	?
?	?	?	? default timeout, which is 60	?
?	?	?	? seconds (unless overridden by	?
?	?	?	? vpn.timeout in configuration file).	?

? ? ? ? Values greater than zero mean ?

? ? ? ? timeout in seconds. ?

??

?user-name ? string ? ? If the VPN connection requires a ?

? ? ? ? user name for authentication, that ?

? ? ? ? name should be provided here. If ?

? ? ? ? the connection is available to more ?

? ? ? ? than one user, and the VPN requires ?

? ? ? ? each user to supply a different ?

? ? ? ? name, then leave this property ?

? ? ? ? empty. If this property is empty, ?

? ? ? ? NetworkManager will automatically ?

? ? ? ? supply the username of the user ?

? ? ? ? which requested the VPN connection. ?

??

vrf setting

VRF settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?table ? uint32 ? 0 ? The routing ?

? ? ? ? table for this ?

? ? ? ? VRF. ?

??

vxlan setting

VXLAN Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?ageing ? uint32 ? 300 ? Specifies the ?

? ? ? ? lifetime in ?

? ? ? seconds of FDB ?
? ? ? entries learnt ?
? ? ? by the kernel. ?
??

?destination-port ? uint32 ? 8472 ? Specifies the ?
? ? ? ? UDP destination ?
? ? ? ? port to ?
? ? ? ? communicate to ?
? ? ? ? the remote VXLAN ?
? ? ? ? tunnel endpoint. ?
??

?id ? uint32 ? 0 ? Specifies the ?
? ? ? ? VXLAN Network ?
? ? ? ? Identifier (or ?
? ? ? ? VXLAN Segment ?
? ? ? ? Identifier) to ?
? ? ? ? use. ?
??

?l2-miss ? boolean ? FALSE ? Specifies ?
? ? ? ? whether netlink ?
? ? ? ? LL ADDR miss ?
? ? ? ? notifications ?
? ? ? ? are generated. ?
??

?l3-miss ? boolean ? FALSE ? Specifies ?
? ? ? ? whether netlink ?
? ? ? ? IP ADDR miss ?
? ? ? ? notifications ?
? ? ? ? are generated. ?
??

?learning ? boolean ? TRUE ? Specifies ?
? ? ? ? whether unknown ?
? ? ? ? source link ?

?	?	?	? layer addresses ?
?	?	?	? and IP addresses ?
?	?	?	? are entered into ?
?	?	?	? the VXLAN device ?
?	?	?	? forwarding ?
?	?	?	? database. ?

??

?limit	? uint32	? 0	? Specifies the ?
?	?	?	? maximum number ?
?	?	?	? of FDB entries. ?
?	?	?	? A value of zero ?
?	?	?	? means that the ?
?	?	?	? kernel will ?
?	?	?	? store unlimited ?
?	?	?	? entries. ?

??

?local	? string	?	? If given, ?
?	?	?	? specifies the ?
?	?	?	? source IP ?
?	?	?	? address to use ?
?	?	?	? in outgoing ?
?	?	?	? packets. ?

??

?parent	? string	?	? If given, ?
?	?	?	? specifies the ?
?	?	?	? parent interface ?
?	?	?	? name or parent ?
?	?	?	? connection UUID. ?

??

?proxy	? boolean	? FALSE	? Specifies ?
?	?	?	? whether ARP ?
?	?	?	? proxy is turned ?
?	?	?	? on. ?

??

?remote ? string ? ? Specifies the ?

? ? ? ? unicast ?

? ? ? ? destination IP ?

? ? ? ? address to use ?

? ? ? ? in outgoing ?

? ? ? ? packets when the ?

? ? ? ? destination link ?

? ? ? ? layer address is ?

? ? ? ? not known in the ?

? ? ? ? VXLAN device ?

? ? ? ? forwarding ?

? ? ? ? database, or the ?

? ? ? ? multicast IP ?

? ? ? ? address to join. ?

??

?rsc ? boolean ? FALSE ? Specifies ?

? ? ? ? whether route ?

? ? ? ? short circuit is ?

? ? ? ? turned on. ?

??

?source-port-max ? uint32 ? 0 ? Specifies the ?

? ? ? ? maximum UDP ?

? ? ? ? source port to ?

? ? ? ? communicate to ?

? ? ? ? the remote VXLAN ?

? ? ? ? tunnel endpoint. ?

??

?source-port-min ? uint32 ? 0 ? Specifies the ?

? ? ? ? minimum UDP ?

? ? ? ? source port to ?

? ? ? ? communicate to ?

? ? ? ? the remote VXLAN ?

? ? ? ? tunnel endpoint. ?

??

?tos ? uint32 ? 0 ? Specifies the ?

? ? ? ? TOS value to use ?

? ? ? ? in outgoing ?

? ? ? ? packets. ?

??

?ttl ? uint32 ? 0 ? Specifies the ?

? ? ? ? time-to-live ?

? ? ? ? value to use in ?

? ? ? ? outgoing ?

? ? ? ? packets. ?

??

wifi-p2p setting

Wi-Fi P2P Settings.

??

Key Name	Value Type	Default Value	Value	Description
peer	string			The P2P device that should be connected to. Currently, this is the only way to create or join a group.
wfd-ies	byte array			The Wi-Fi Display (WFD) Information Elements (IEs) to set.

?	?	?	? Wi-Fi Display ?
?	?	?	? requires a ?
?	?	?	? protocol ?
?	?	?	? specific ?
?	?	?	? information ?
?	?	?	? element to be ?
?	?	?	? set in certain ?
?	?	?	? Wi-Fi frames. ?
?	?	?	? These can be ?
?	?	?	? specified here ?
?	?	?	? for the purpose ?
?	?	?	? of establishing ?
?	?	?	? a connection. ?
?	?	?	? This setting is ?
?	?	?	? only useful when ?
?	?	?	? implementing a ?
?	?	?	? Wi-Fi Display ?
?	?	?	? client. ?

??

?wps-method ? uint32 ? 0 ? Flags indicating ?

?	?	?	? which mode of ?
?	?	?	? WPS is to be ?
?	?	?	? used. ?
?	?	?	? ?
?	?	?	? There's little ?
?	?	?	? point in ?
?	?	?	? changing the ?
?	?	?	? default setting ?
?	?	?	? as ?
?	?	?	? NetworkManager ?
?	?	?	? will ?
?	?	?	? automatically ?
?	?	?	? determine the ?

? ? ? ? best method to ?
? ? ? ? use. ?
??

wimax setting

WiMax Settings.
??

?Key Name	? Value Type	? Default Value	? Value	?
? ? ?		? Description	?	

??

?mac-address	? byte array	? If specified,	?	
? ? ?		? this connection	?	
? ? ?		? will only apply	?	
? ? ?		? to the WiMAX	?	
? ? ?		? device whose MAC	?	
? ? ?		? address matches.	?	
? ? ?		? This property	?	
? ? ?		? does not change	?	
? ? ?		? the MAC address	?	
? ? ?		? of the device	?	
? ? ?		? (known as MAC	?	
? ? ?		? spoofing).	?	
? ? ?		? ?	?	
? ? ?		? This property is	?	
? ? ?		? deprecated since	?	
? ? ?		? version	?	
? ? ?		? 1.2.WiMAX is no	?	
? ? ?		? longer	?	
? ? ?		? supported.	?	

??

?network-name	? string	? Network Service	?	
? ? ?		? Provider (NSP)	?	
? ? ?		? name of the	?	
? ? ?		? WiMAX network	?	

? ? ? ? this connection ?
? ? ? ? should use. ?
? ? ? ? ? ?
? ? ? ? This property is ?
? ? ? ? deprecated since ?
? ? ? ? version ?
? ? ? ? 1.2.WiMAX is no ?
? ? ? ? longer ?
? ? ? ? supported. ?

??

802-3-ethernet setting

Wired Ethernet Settings.

??

?????

Key Name	Value Type	Default Value	Value	
		Description		

??

?????

accept-all-mac-addresses	NMTernary		When TRUE, setup	
	(int32)		the interface to	
			accept packets	
			for all MAC	
			addresses. This	
			is enabling the	
			kernel interface	
			flag	
			IFF_PROMISC.	
			When FALSE, the	
			interface will	
			only accept the	
			packets with the	

[illegible]

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[illegible]

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cloned-mac-address	byte array	This D-Bus field is
deprecated in favor		
of		
"assigned-mac-address"		
which is more		
flexible and allows		
specifying special		
variants like		
"random". For libnm		
and nmcli, this field		
is called		
"cloned-mac-address".		

[illegible]

?????

?duplex	? string	?	? When a value is set,	?
?	?	?	? either "half" or	?
?	?	?	? "full", configures the	?
?	?	?	? device to use the	?
?	?	?	? specified duplex mode.	?
?	?	?	? If "auto-negotiate" is	?
?	?	?	? "yes" the specified	?
?	?	?	? duplex mode will be	?
?	?	?	? the only one	?
?	?	?	? advertised during link	?
?	?	?	? negotiation: this	?
?	?	?	? works only for BASE-T	?
?	?	?	? 802.3 specifications	?
?	?	?	? and is useful for	?
?	?	?	? enforcing gigabits	?
?	?	?	? modes, as in these	?
?	?	?	? cases link negotiation	?
?	?	?	? is mandatory. If the	?

?	?	?	? value is unset (the	?
?	?	?	? default), the link	?
?	?	?	? configuration will be	?
?	?	?	? either skipped (if	?
?	?	?	? "auto-negotiate" is	?
?	?	?	? "no", the default) or	?
?	?	?	? will be	?
?	?	?	? auto-negotiated (if	?
?	?	?	? "auto-negotiate" is	?
?	?	?	? "yes") and the local	?
?	?	?	? device will advertise	?
?	?	?	? all the supported	?
?	?	?	? duplex modes. Must be	?
?	?	?	? set together with the	?
?	?	?	? "speed" property if	?
?	?	?	? specified. Before	?
?	?	?	? specifying a duplex	?
?	?	?	? mode be sure your	?
?	?	?	? device supports it.	?

[illegible]

?????

?	generate-mac-address-mask	?	?	With	?
?	?	?	?	"cloned-mac-address"	?
?	?	?	?	setting "random" or	?
?	?	?	?	"stable", by default	?
?	?	?	?	all bits of the MAC	?
?	?	?	?	address are scrambled	?
?	?	?	?	and a	?
?	?	?	?	locally-administered,	?
?	?	?	?	unicast MAC address is	?
?	?	?	?	created. This property	?
?	?	?	?	allows to specify that	?

?	?	?	? certain bits are	?
?	?	?	? fixed. Note that the	?
?	?	?	? least significant bit	?
?	?	?	? of the first MAC	?
?	?	?	? address will always be	?
?	?	?	? unset to create a	?
?	?	?	? unicast MAC address.	?
?	?	?	?	?
?	?	?	? If the property is	?
?	?	?	? NULL, it is eligible	?
?	?	?	? to be overwritten by a	?
?	?	?	? default connection	?
?	?	?	? setting. If the value	?
?	?	?	? is still NULL or an	?
?	?	?	? empty string, the	?
?	?	?	? default is to create a	?
?	?	?	? locally-administered,	?
?	?	?	? unicast MAC address.	?
?	?	?	?	?
?	?	?	? If the value contains	?
?	?	?	? one MAC address, this	?
?	?	?	? address is used as	?
?	?	?	? mask. The set bits of	?
?	?	?	? the mask are to be	?
?	?	?	? filled with the	?
?	?	?	? current MAC address of	?
?	?	?	? the device, while the	?
?	?	?	? unset bits are subject	?
?	?	?	? to randomization.	?
?	?	?	? Setting	?
?	?	?	? "FE:FF:FF:00:00:00"	?
?	?	?	? means to preserve the	?
?	?	?	? OUI of the current MAC	?

?	?	?	? address and only	?
?	?	?	? randomize the lower 3	?
?	?	?	? bytes using the	?
?	?	?	? "random" or "stable"	?
?	?	?	? algorithm.	?
?	?	?	?	?
?	?	?	? If the value contains	?
?	?	?	? one additional MAC	?
?	?	?	? address after the	?
?	?	?	? mask, this address is	?
?	?	?	? used instead of the	?
?	?	?	? current MAC address to	?
?	?	?	? fill the bits that	?
?	?	?	? shall not be	?
?	?	?	? randomized. For	?
?	?	?	? example, a value of	?
?	?	?	? "FE:FF:FF:00:00:00	?
?	?	?	? 68:F7:28:00:00:00"	?
?	?	?	? will set the OUI of	?
?	?	?	? the MAC address to	?
?	?	?	? 68:F7:28, while the	?
?	?	?	? lower bits are	?
?	?	?	? randomized. A value of	?
?	?	?	? "02:00:00:00:00:00	?
?	?	?	? 00:00:00:00:00:00"	?
?	?	?	? will create a fully	?
?	?	?	? scrambled	?
?	?	?	? globally-administered,	?
?	?	?	? burned-in MAC address.	?
?	?	?	?	?
?	?	?	? If the value contains	?
?	?	?	? more than one	?
?	?	?	? additional MAC	?

[illegible][illegible]

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[illegible][illegible]

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?????

?s390-nettype	? string	?	? s390 network device	?
?	?	?	? type; one of "qeth",	?
?	?	?	? "lcs", or "ctc",	?
?	?	?	? representing the	?
?	?	?	? different types of	?
?	?	?	? virtual network	?
?	?	?	? devices available on	?
?	?	?	? s390 systems.	?

[illegible]

?????

?s390-options		? dict of string ? {}	? Dictionary of	?
?	? to string	?	? key/value pairs of	?
?	?	?	? s390-specific device	?
?	?	?	? options. Both keys	?
?	?	?	? and values must be	?
?	?	?	? strings. Allowed keys	?
?	?	?	? include "portno",	?
?	?	?	? "layer2", "portname",	?
?	?	?	? "protocol", among	?
?	?	?	? others. Key names	?
?	?	?	? must contain only	?
?	?	?	? alphanumeric	?
?	?	?	? characters (ie,	?
?	?	?	? [a-zA-Z0-9]).	?
?	?	?	?	?
?	?	?	? Currently,	?
?	?	?	? NetworkManager itself	?
?	?	?	? does nothing with this	?
?	?	?	? information. However,	?
?	?	?	? s390utils ships a udev	?
?	?	?	? rule which parses this	?

[illegible][illegible]

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?	?	?	? speed. If	?
?	?	?	? "auto-negotiate" is	?
?	?	?	? "yes" the specified	?
?	?	?	? speed will be the only	?
?	?	?	? one advertised during	?
?	?	?	? link negotiation: this	?
?	?	?	? works only for BASE-T	?
?	?	?	? 802.3 specifications	?
?	?	?	? and is useful for	?
?	?	?	? enforcing gigabit	?
?	?	?	? speeds, as in this	?
?	?	?	? case link negotiation	?
?	?	?	? is mandatory. If the	?
?	?	?	? value is unset (0, the	?
?	?	?	? default), the link	?
?	?	?	? configuration will be	?
?	?	?	? either skipped (if	?
?	?	?	? "auto-negotiate" is	?
?	?	?	? "no", the default) or	?
?	?	?	? will be	?
?	?	?	? auto-negotiated (if	?
?	?	?	? "auto-negotiate" is	?
?	?	?	? "yes") and the local	?
?	?	?	? device will advertise	?
?	?	?	? all the supported	?
?	?	?	? speeds. In Mbit/s, ie	?
?	?	?	? 100 == 100Mbit/s. Must	?
?	?	?	? be set together with	?
?	?	?	? the "duplex" property	?
?	?	?	? when non-zero. Before	?
?	?	?	? specifying a speed	?
?	?	?	? value be sure your	?
?	?	?	? device supports it.	?

?????

[illegible][illegible]

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?ip4-auto-default-route ? NM	Ternary	?	Whether to enable	?
?	(int32)	?	special handling of the	?
?		?	IPv4 default route. If	?
?		?	enabled, the IPv4	?
?		?	default route from	?
?		?	wireguard.peer-routes	?
?		?	will be placed to a	?
?		?	dedicated routing-table	?
?		?	and two policy routing	?
?		?	rules will be added. The	?
?		?	fwmark number is also	?
?		?	used as routing-table	?
?		?	for the default-route,	?
?		?	and if fwmark is zero,	?
?		?	an unused fwmark/table	?
?		?	is chosen automatically.	?
?		?	This corresponds to what	?
?		?	wg-quick does with	?
?		?	Table=auto and what	?
?		?	WireGuard calls	?
?		?	"Improved Rule-based	?
?		?	Routing".	?
?		?		?
?		?	Note that for this	?
?		?	automatism to work, you	?
?		?	usually don't want to	?
?		?	set ipv4.gateway,	?
?		?	because that will result	?
?		?	in a conflicting default	?
?		?	route.	?
?		?		?
?		?	Leaving this at the	?
?		?	default will enable this	?

? ? ? ? time of activation. ?

? ? ? ? AllowedIPs is ?

?	?	?	? "0.0.0.0/0" or "::/0"	?
?	?	?	? and the profile's	?
?	?	?	? ipv4.never-default or	?
?	?	?	? ipv6.never-default	?
?	?	?	? setting is enabled, the	?
?	?	?	? peer route for this peer	?
?	?	?	? won't be added	?
?	?	?	? automatically.	?

[illegible]

```
?peers           ? array of 'a{sv}'    ?           ? Array of dictionaries  ?
```

? ? ? ? for the WireGuard peers. ?

[illegible]

?private-key	? string	?	? The 256 bit private-key ?
--------------	----------	---	-----------------------------

? ? ? ? in base64 encoding. ?

[illegible]

?private-key-flags	? NMSettingSecretFlags ?	? Flags indicating how to ?
--------------------	--------------------------	-----------------------------

? ? (uint32) ? ? handle the "private-key" ?

? ? ? ? property. ?

[illegible]

802-11-wireless setting

Wi-Fi Settings.

[illegible]

????????????????

?Key Name	? Value Type	? Default Value	? Value	?
-----------	--------------	-----------------	---------	---

?	?	?	? Description	?
---	---	---	---------------	---

[illegible]

????????????????

?ap-isolation	? NMternary	?	? Configures AP	?
---------------	-------------	---	-----------------	---

? (int32) ? ? isolation, which ?

? ? ? ? prevents ?

? ? ? ? communication ?

?	?	?	? between wireless	?
?	?	?	? devices	?
?	?	?	? connected to	?
?	?	?	? this AP. This	?
?	?	?	? property can be	?
?	?	?	? set to a value	?
?	?	?	? different from	?
?	?	?	? NM_TERNARY_DEFAULT	?
?	?	?	? (-1) only when	?
?	?	?	? the interface is	?
?	?	?	? configured in AP	?
?	?	?	? mode.	?
?	?	?	?	?
?	?	?	? If set to	?
?	?	?	? NM_TERNARY_TRUE	?
?	?	?	? (1), devices are	?
?	?	?	? not able to	?
?	?	?	? communicate with	?
?	?	?	? each other. This	?
?	?	?	? increases	?
?	?	?	? security because	?
?	?	?	? it protects	?
?	?	?	? devices against	?
?	?	?	? attacks from	?
?	?	?	? other clients in	?
?	?	?	? the network. At	?
?	?	?	? the same time,	?
?	?	?	? it prevents	?
?	?	?	? devices to	?
?	?	?	? access resources	?
?	?	?	? on the same	?
?	?	?	? wireless	?
?	?	?	? networks as file	?

[illegible]

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?	?	?	? "stable". This	?
?	?	?	? field replaces the	?
?	?	?	? deprecated	?
?	?	?	? "cloned-mac-address"	?
?	?	?	? on D-Bus, which	?
?	?	?	? can only contain	?
?	?	?	? explicit hardware	?
?	?	?	? addresses. Note	?
?	?	?	? that this property	?
?	?	?	? only exists in	?
?	?	?	? D-Bus API. libnm	?
?	?	?	? and nmcli continue	?
?	?	?	? to call this	?
?	?	?	? property	?
?	?	?	? "cloned-mac-address".	?

[illegible]

????????????????

band	string	?	802.11 frequency band	?
?	?	?	of the network. One	?
?	?	?	of "a" for 5GHz	?
?	?	?	802.11a or "bg" for	?
?	?	?	2.4GHz 802.11. This	?
?	?	?	will lock	?
?	?	?	associations to the	?
?	?	?	Wi-Fi network to the	?
?	?	?	specific band, i.e.	?
?	?	?	if "a" is specified,	?
?	?	?	the device will not	?
?	?	?	associate with the	?
?	?	?	same network in the	?
?	?	?	2.4GHz band even if	?
?	?	?	the network's	?

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????????????????

????????????????

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????????????????

?generate-mac-address-mask ? string ? ? With ?

```
?      ?      ?      ? "cloned-mac-address"      ?
```

? ? ? ? setting "random" or ?

? ? ? ? "stable", by default ?

? ? ? ? all bits of the MAC ?

? ? ? ? address are scrambled ?

? ? ? ? and a ?

? ? ? ? locally-administered, ?

? ? ? ? unicast MAC address is ?

? ? ? ? created. This property ?

? ? ? ? allows to specify that ?

? ? ? ? certain bits are ?

? ? ? ? fixed. Note that the ?

? ? ? ? least significant bit ?

? ? ? ? of the first MAC ?

? ? ? ? address will always be ?

? ? ? ? unset to create a ?

? ? ? ? unicast MAC address. ?

?

? ? ? ? If the property is ?

? ? ? ? NULL, it is eligible ?

? ? ? ? to be overwritten by a ?

? ? ? ? default connection ?

? ? ? ? setting. If the value ?

? ? ? ? is still NULL or an ?

? ? ? ? empty string, the ?

? ? ? ? default is to create a ?

? ? ? ? locally-administered, ?

? ? ? ? unicast MAC address. ?

?	?	?	?	?
?	?	?	? If the value contains	?
?	?	?	? one MAC address, this	?
?	?	?	? address is used as	?
?	?	?	? mask. The set bits of	?
?	?	?	? the mask are to be	?
?	?	?	? filled with the	?
?	?	?	? current MAC address of	?
?	?	?	? the device, while the	?
?	?	?	? unset bits are subject	?
?	?	?	? to randomization.	?
?	?	?	? Setting	?
?	?	?	? "FE:FF:FF:00:00:00"	?
?	?	?	? means to preserve the	?
?	?	?	? OUI of the current MAC	?
?	?	?	? address and only	?
?	?	?	? randomize the lower 3	?
?	?	?	? bytes using the	?
?	?	?	? "random" or "stable"	?
?	?	?	? algorithm.	?
?	?	?	?	?
?	?	?	? If the value contains	?
?	?	?	? one additional MAC	?
?	?	?	? address after the	?
?	?	?	? mask, this address is	?
?	?	?	? used instead of the	?
?	?	?	? current MAC address to	?
?	?	?	? fill the bits that	?
?	?	?	? shall not be	?
?	?	?	? randomized. For	?
?	?	?	? example, a value of	?
?	?	?	? "FE:FF:FF:00:00:00"	?
?	?	?	? 68:F7:28:00:00:00"	?

[illegible]

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?	?	?	? in infrastructure and	?
?	?	?	? AP mode.	?
?	?	?	?	?
?	?	?	? In infrastructure	?
?	?	?	? mode, various	?
?	?	?	? workarounds are used	?
?	?	?	? for a more reliable	?
?	?	?	? discovery of hidden	?
?	?	?	? networks, such as	?
?	?	?	? probe-scanning the	?
?	?	?	? SSID. However, these	?
?	?	?	? workarounds expose	?
?	?	?	? inherent insecurities	?
?	?	?	? with hidden SSID	?
?	?	?	? networks, and thus	?
?	?	?	? hidden SSID networks	?
?	?	?	? should be used with	?
?	?	?	? caution.	?
?	?	?	?	?
?	?	?	? In AP mode, the	?
?	?	?	? created network does	?
?	?	?	? not broadcast its	?
?	?	?	? SSID.	?
?	?	?	?	?
?	?	?	? Note that marking the	?
?	?	?	? network as hidden may	?
?	?	?	? be a privacy issue for	?
?	?	?	? you (in infrastructure	?
?	?	?	? mode) or client	?
?	?	?	? stations (in AP mode),	?
?	?	?	? as the explicit	?
?	?	?	? probe-scans are	?
?	?	?	? distinctly	?

? ? ? ? recognizable on the ?
? ? ? ? air. ?

??

????????????????????

?mac-address ? byte array ? ? If specified, this ?
? ? ? ? connection will only ?
? ? ? ? apply to the Wi-Fi ?
? ? ? ? device whose permanent ?
? ? ? ? MAC address matches. ?
? ? ? ? This property does not ?
? ? ? ? change the MAC address ?
? ? ? ? of the device (i.e. ?
? ? ? ? MAC spoofing). ?

??

????????????????????

?mac-address-blacklist ? array of string ? ? A list of permanent ?
? ? ? ? MAC addresses of Wi-Fi ?
? ? ? ? devices to which this ?
? ? ? ? connection should ?
? ? ? ? never apply. Each MAC ?
? ? ? ? address should be ?
? ? ? ? given in the standard ?
? ? ? ? hex-digits-and-colons ?
? ? ? ? notation (eg ?
? ? ? ? "00:11:22:33:44:55"). ?

??

????????????????????

?mac-address-randomization ? uint32 ? 0 ? One of ?
? ? ? ? NM_SETTING_MAC_RANDOMIZATION_DEFAULT ?
? ? ? ? (0) (never randomize ?

?powersave	? uint32	? 0	? One of	?
?	?	?	? NM_SETTING_WIRELESS_POWERSAVE_DISABLE	?
?	?	?	? (2) (disable Wi-Fi power saving),	?
?	?	?	? NM_SETTING_WIRELESS_POWERSAVE_ENABLE	?
?	?	?	? (3) (enable Wi-Fi power saving),	?
?	?	?	? NM_SETTING_WIRELESS_POWERSAVE_IGNORE	?
?	?	?	? (1) (don't touch currently configure	?
?	?	?	? setting) or	?
?	?	?	? NM_SETTING_WIRELESS_POWERSAVE_DEFAULT	?
?	?	?	? (0) (use the globally configured	?
?	?	?	? value). All other values are	?
?	?	?	? reserved.	?

????????????????

rate	uint32	0	If non-zero, directs the device to	
			only use the specified bitrate for	
			communication with the access point.	
			Units are in Kb/s, ie 5500 = 5.5	
			Mbit/s. This property is highly	
			driver dependent and not all devices	
			support setting a static bitrate.	

????????????????

?security	?	?	? This property is deprecated, but can	?
?	?	?	? be set to the value	?
?	?	?	? '802-11-wireless-security' when a	?
?	?	?	? wireless security setting is also	?
?	?	?	? present in the connection dictionary,	?
?	?	?	? for compatibility with very old	?
?	?	?	? NetworkManager daemons.	?

[illegible]

????????????????

seen-bssids	array of string	A list of BSSIDs (each BSSID	
		formatted as a MAC address like	
		"00:11:22:33:44:55") that have been	
		detected as part of the Wi-Fi	
		network. NetworkManager internally	
		tracks previously seen BSSIDs. The	
		property is only meant for reading	
		and reflects the BSSID list of	
		NetworkManager. The changes you make	
		to this property will not be	
		preserved.	

[illegible]

????????????????

?ssid	? byte array	? ? SSID of the Wi-Fi network. Must be	?
?	? ?	? specified.	?

[illegible]

????????????????

tx-power	uint32	0	If non-zero, directs the device to	
			use the specified transmit power.	
			Units are dBm. This property is	
			highly driver dependent and not all	
			devices support setting a static	
			transmit power.	

[illegible]

????????????????

?wake-on-wlan	? uint32	? 1	? The NMSettingWirelessWakeOnWlan	?
?	?	?	? options to enable. Not all devices	?

????????

? ? ? ? be specified. ?

????????

?files	? int32	? 0	? Indicates	?
?	?	?	? whether Fast	?
?	?	?	? Initial Link	?
?	?	?	? Setup (802.11ai)	?
?	?	?	? must be enabled	?
?	?	?	? for the	?
?	?	?	? connection. One	?
?	?	?	? of	?
?	?	?	? NM_SETTING_WIRELESS_SECURITY_FILS_DEFAULT	?
?	?	?	? (0) (use global	?
?	?	?	? default value),	?
?	?	?	? NM_SETTING_WIRELESS_SECURITY_FILS_DISABLE	?
?	?	?	? (1) (disable	?
?	?	?	? FILS),	?
?	?	?	? NM_SETTING_WIRELESS_SECURITY_FILS_OPTIONAL	?
?	?	?	? (2) (enable FILS	?
?	?	?	? if the	?
?	?	?	? supplicant and	?
?	?	?	? the access point	?
?	?	?	? support it) or	?
?	?	?	? NM_SETTING_WIRELESS_SECURITY_FILS_REQUIRED	?
?	?	?	? (3) (enable FILS	?
?	?	?	? and fail if not	?
?	?	?	? supported).	?
?	?	?	? When set to	?
?	?	?	? NM_SETTING_WIRELESS_SECURITY_FILS_DEFAULT	?
?	?	?	? (0) and no	?
?	?	?	? global default	?
?	?	?	? is set, FILS	?
?	?	?	? will be	?
?	?	?	? optionally	?
?	?	?	? enabled.	?

[illegible]

group	array of string	A list of group/broadcast encryption
		algorithms which prevents connections to
		Wi-Fi networks that do not utilize one of
		the algorithms in the list. For maximum
		compatibility leave this property empty.
		Each list element may be one of "wep40",
		"wep104", "tkip", or "ccmp".

[illegible]

key-mgmt	string		Key management used for the connection.	
			One of "none" (WEP or no password	
			protection), "ieee8021x" (Dynamic WEP),	
			"owe" (Opportunistic Wireless Encryption),	
			"wpa-psk" (WPA2 + WPA3 personal), "sae"	
			(WPA3 personal only), "wpa-eap" (WPA2 +	
			WPA3 enterprise) or "wpa-eap-suite-b-192"	
			(WPA3 enterprise only).	
			This property must be set for any Wi-Fi	
			connection that uses security.	

[illegible]

leap-password	string	The login password for legacy LEAP
		connections (ie, key-mgmt = "ieee8021x"
		and auth-alg = "leap").

[illegible]

[illegible][illegible][illegible][illegible]

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[illegible]

<code>?wep-key-type</code>	<code>? NMWepKeyType</code>	<code>?</code>	<code>? Controls the interpretation of WEP keys.</code>	<code>?</code>
<code>?</code>	<code>? (uint32)</code>	<code>?</code>	<code>? Allowed values are NM_WEP_KEY_TYPE_KEY</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? (1), in which case the key is either a 10-</code>	
<code>?</code>	<code>?</code>	<code>?</code>	<code>? or 26-character hexadecimal string, or a</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? 5- or 13-character ASCII password; or</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? NM_WEP_KEY_TYPE_PASSPHRASE (2), in which</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? case the passphrase is provided as a</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? string and will be hashed using the</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? de-facto MD5 method to derive the actual</code>	<code>?</code>
<code>?</code>	<code>?</code>	<code>?</code>	<code>? WEP key.</code>	<code>?</code>

[illegible]

wep-key0	string		Index 0 WEP key. This is the WEP key used
			in most networks. See the "wep-key-type"
			property for a description of how this key
			is interpreted.

[illegible]

?wep-key1	? string	?	? Index 1 WEP key. This WEP index is not	?
?	?	?	? used by most networks. See the	?
?	?	?	? "wep-key-type" property for a description	?
?	?	?	? of how this key is interpreted.	?

[illegible]

?wep-key2	? string	?	? Index 2 WEP key. This WEP index is not	?
?	?	?	? used by most networks. See the	?
?	?	?	? "wep-key-type" property for a description	?

? ? ? ? device is ?

? ? ? ? already set to". ?

??

?pan-id ? uint32 ? 65535 ? IEEE 802.15.4 ?

? ? ? ? Personal Area ?

? ? ? ? Network (PAN) ?

? ? ? ? identifier. ?

??

?short-address ? uint32 ? 65535 ? Short IEEE ?

? ? ? ? 802.15.4 address ?

? ? ? ? to be used ?

? ? ? ? within a ?

? ? ? ? restricted ?

? ? ? ? environment. ?

??

bond-port setting

Bond Port Settings.

??

?Key Name ? Value Type ? Default Value ? Value ?

? ? ? ? Description ?

??

?queue-id ? uint32 ? 0 ? The queue ID of ?

? ? ? ? this bond port. ?

? ? ? ? The maximum ?

? ? ? ? value of queue ?

? ? ? ? ID is the number ?

? ? ? ? of TX queues ?

? ? ? ? currently active ?

? ? ? ? in device. ?

??

hostname setting

Hostname settings.

??

Key Name	Value Type	Default Value	Description
from-dhcp	NMTernary		Whether the system hostname can be determined from DHCP on this connection.
	(int32)		When set to NM_TERNARY_DEFAULT (-1), the value from global configuration is used. If the property doesn't have a value in the global configuration, NetworkManager assumes the value to be NM_TERNARY_TRUE (1).

Key Name	Value Type	Default Value	Description
from-dns-lookup	NMTernary		Whether the system hostname can be determined from reverse DNS lookup of addresses on this device.
	(int32)		

?	?	?	? When set to ?
?	?	?	? NM_TERNARY_DEFAULT ?
?	?	?	? (-1), the value ?
?	?	?	? from global ?
?	?	?	? configuration is ?
?	?	?	? used. If the ?
?	?	?	? property doesn't ?
?	?	?	? have a value in ?
?	?	?	? the global ?
?	?	?	? configuration, ?
?	?	?	? NetworkManager ?
?	?	?	? assumes the value ?
?	?	?	? to be ?
?	?	?	? NM_TERNARY_TRUE ?
?	?	?	? (1). ?

??

?only-from-default ? NMternary ? ? If set to ?

?	?	?(int32) ?	? NM_TERNARY_TRUE ?
?	?	?	? (1), ?
?	?	?	? NetworkManager ?
?	?	?	? attempts to get ?
?	?	?	? the hostname via ?
?	?	?	? DHCPv4/DHCPv6 or ?
?	?	?	? reverse DNS lookup ?
?	?	?	? on this device ?
?	?	?	? only when the ?
?	?	?	? device has the ?
?	?	?	? default route for ?
?	?	?	? the given address ?
?	?	?	? family ?
?	?	?	? (IPv4/IPv6). ?
?	?	?	? ?
?	?	?	? If set to ?

?	?	?	? NM_TERNARY_FALSE ?
?	?	?	? (0), the hostname ?
?	?	?	? can be set from ?
?	?	?	? this device even ?
?	?	?	? if it doesn't have ?
?	?	?	? the default route. ?
?	?	?	? ? ?
?	?	?	? When set to ?
?	?	?	? NM_TERNARY_DEFAULT ?
?	?	?	? (-1), the value ?
?	?	?	? from global ?
?	?	?	? configuration is ?
?	?	?	? used. If the ?
?	?	?	? property doesn't ?
?	?	?	? have a value in ?
?	?	?	? the global ?
?	?	?	? configuration, ?
?	?	?	? NetworkManager ?
?	?	?	? assumes the value ?
?	?	?	? to be ?
?	?	?	? NM_TERNARY_FALSE ?
?	?	?	? (0). ?

??

?priority	? int32	? 0	? The relative ?
?	?	?	? priority of this ?
?	?	?	? connection to ?
?	?	?	? determine the ?
?	?	?	? system hostname. A ?
?	?	?	? lower numerical ?
?	?	?	? value is better ?
?	?	?	? (higher priority). ?
?	?	?	? A connection with ?
?	?	?	? higher priority is ?

?	?	?	? considered before ?
?	?	?	? connections with ?
?	?	?	? lower priority. ?
?	?	?	? ?
?	?	?	? If the value is ?
?	?	?	? zero, it can be ?
?	?	?	? overridden by a ?
?	?	?	? global value from ?
?	?	?	? NetworkManager ?
?	?	?	? configuration. If ?
?	?	?	? the property ?
?	?	?	? doesn't have a ?
?	?	?	? value in the ?
?	?	?	? global ?
?	?	?	? configuration, the ?
?	?	?	? value is assumed ?
?	?	?	? to be 100. ?
?	?	?	? ?
?	?	?	? Negative values ?
?	?	?	? have the special ?
?	?	?	? effect of ?
?	?	?	? excluding other ?
?	?	?	? connections with a ?
?	?	?	? greater numerical ?
?	?	?	? priority value; so ?
?	?	?	? in presence of at ?
?	?	?	? least one negative ?
?	?	?	? priority, only ?
?	?	?	? connections with ?
?	?	?	? the lowest ?
?	?	?	? priority value ?
?	?	?	? will be used to ?
?	?	?	? determine the ?

? ? ? ? hostname. ?
??

loopback setting

Loopback Link Settings.
??
?Key Name ? Value Type ? Default Value ? Value ?
? ? ? ? Description ?
??
?mtu ? uint32 ? 0 ? If non-zero, ?
? ? ? ? only transmit ?
? ? ? ? packets of the ?
? ? ? ? specified size ?
? ? ? ? or smaller, ?
? ? ? ? breaking larger ?
? ? ? ? packets up into ?
? ? ? ? multiple ?
? ? ? ? Ethernet frames. ?
??

ovs-external-ids setting

OVS External IDs Settings.
??
?Key Name ? Value Type ? Default Value ? Value ?
? ? ? ? Description ?
??
?data ? dict of string ? {} ? A dictionary of ?
? ? to string ? ? key/value pairs ?
? ? ? ? with ?
? ? ? ? external-ids for ?
? ? ? ? OVS. ?
??

ovs-other-config setting

OVS Other Config Settings.
??

Key Name	Value Type	Default Value	Value	Description
data	dict of string	{}		A dictionary of key/value pairs with other_config settings for OVS. See also "other_config" in the "ovs-vswitchd.conf.db" manual for the keys that OVS supports.

veth setting

Veth Settings.

Key Name	Value Type	Default Value	Value	Description
peer	string			This property specifies the peer interface name of the veth. This property is mandatory.

Secret flag types:

Each password or secret property in a setting has an associated flags property that describes how to handle that secret. The flags property

is a bitfield that contains zero or more of the following values

logically OR-ed together.

- ? 0x0 (none) - the system is responsible for providing and storing this secret. This may be required so that secrets are already available before the user logs in. It also commonly means that the secret will be stored in plain text on disk, accessible to root only. For example via the keyfile settings plugin as described in the "PLUGINS" section in NetworkManager.conf(5).
- ? 0x1 (agent-owned) - a user-session secret agent is responsible for providing and storing this secret; when it is required, agents will be asked to provide it.
- ? 0x2 (not-saved) - this secret should not be saved but should be requested from the user each time it is required. This flag should be used for One-Time-Pad secrets, PIN codes from hardware tokens, or if the user simply does not want to save the secret.
- ? 0x4 (not-required) - in some situations it cannot be automatically determined that a secret is required or not. This flag hints that the secret is not required and should not be requested from the user.

FILES

/etc/NetworkManager/system-connections or distro plugin-specific location

SEE ALSO

nm-settings-nmcli(5), nm-settings-keyfile(5), NetworkManager(8), nmcli(1), nmcli-examples(7), NetworkManager.conf(5)

NetworkManager 1.42.2

NM-SETTINGS-DBUS(5)