Registry Settings

TCP/IP

ConnectDampingInterval

Amount of delay time before responding to a connect event.

Key	ConnectDampingInterval
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\ConnectDampingInterval **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\ConnectDampingInterval **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\ConnectDampingInterval
Value	Time in seconds
Default	1
Type	DWORD

DhcpMaxRetry

Number of times the client tries to obtain an IP address from DHCP server.

Key	DhcpMaxRetry
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\DhcpMaxRetry **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\DhcpMaxRetry **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\DhcpMaxRetry
Value	An integer from 0-60000
Default	60000
Type	DWORD

DhcpRetryDialogue

Number of times the client tries to obtain a DHCP address before displaying a message dialogue.

Key	DhcpRetryDialogue
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\DhcpRetryDialogue **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\DhcpRetryDialogue **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\DhcpRetryDialogue

Value	An integer from 0-60000
Default	60000
Type	DWORD

DisconnectDampInterval

Amount of delay time before responding to a disconnect event.

Key	DisconnectDampInterval
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\DisconnectDampInterval **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\DisconnectDampInterval **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\DisconnectDampInterval
Value	Time in seconds
Default	1 for 10 series radios 0 for 30 series radios
Type	DWORD

TcpInitialRTT

Length of wait time prior to retransmitting a connect request.

Key	TcpInitialRTT
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\TcpInitialRTT **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\TcpInitialRTT **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\TcpInitialRTT
Value	Time in ms
Default	1000
Type	DWORD

TcpMaxConnectResponseRetransmissions

Number of times a connection request acknowledgement is retransmitted.

Key	TcpMaxConnectResponseRetransmissions
Path	**CF10 series:** HKLM\Comm\SDCCF10G1\Parms\TcpIp\TcpMaxConnectResponseRetransmissions **30 series:** HKLM\Comm\SDCSD30AG1\Parms\TcpIp\TcpMaxConnectResponseRetransmissions **40 series:** HKLM\Comm\SDCSD40N1\Parms\TcpIp\TcpMaxConnectResponseRetransmissions
Value	An integer from 0-255
Default	3
Type	DWORD

Roaming

Aggressive Scan

When Aggressive Scan is turned on and the current connection to an AP becomes tenuous, the radio scans more aggressively for available APs.

Aggressive scanning complements and works in conjunction with the standard scanning that is configured through the Roam Trigger, Roam Delta, and Roam Period settings.

Summit recommends that the Aggressive Scan SCU global setting be *On* unless there is significant co-channel interference because of overlapping coverage from APs that are on the same channel.

Note: The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** paths are the same for all radios.

Key	Aggressive Scan
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\aggScanTimer **Note:** The **HKLM\Comm\SDCCF10G1\Parms**Configs\... path is the same for all radios.
Value	0 – Off 1 – On
Default	1
Type	DWORD

BG Channel Set

Defines the 2.4 GHz channels to be scanned when the radio is contemplating a roam and needs to determine what APs are available.

Key	BG Channel Set
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\blRS **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	Full (65535) (all channels) 1,6,11(1057) (the most commonly used 2.4 GHz channels) 1,7,13(4161) (for ETSI and TELEC radios only) or Custom (see Custom BG Channel Set)
Default	Full
Type	DWORD

Custom BG Channel Set

You can set the SCU to only scan specific BG channels.

Key	bLRS
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\blRS **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Type	DWORD

The channels are:

bit0	bit1	bit2	bit3	bit4	bit5	bit6	bit7	bit8	bit9	bit10
Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8	Channel 9	Channel 10	Channel 11

To scan a channel, set its value to 1; to not scan, set the value to 0.

For example, to only use channels 1, 3, 7, 9, and 11 would equal *10101000101*.
Convert that number to decimal: 1349.
The number 1349 would be entered as the value for the *bLRS* key.

Note: You also must set the value of BG Channel Set in the SCU Global tab to *Custom*.

Roam Delta

The signal strength (RSSI) level (in dBm) that the radio looks for in a different access point (after the roam trigger is met) before it attempts to roam to the new access point.

Key	Roam Delta
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\RoamDelta **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	5 (0x5) 10 (0xa) 15 (0xf) 20 (0x14) 25 (0x19) 30 (0x1e) 35 (0x23) or Custom
Default	10
Type	DWORD

Roam Period

The amount of time a radio collects RSSI scan data (after association or a roam scan) before it considers roaming to a different access point.

Key	Roam Period
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\RoamPeriod **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	5 (0x5) 10(0xa) 15 (0xf) 20 (0x14) 25 (0x19) 30 (0x1e) 35 (0x23) 40 (0x28) 45 (0x2d) 50 (0x32) 55 (0x37) 60 (0x3c) or Custom
Default	10
Type	DWORD

Roam Trigger

The signal strength (RSSI) (in dBm) at which the radio scans for an access point with a better signal strength. When scanning for a different access point, the radio looks for one with a RSSI at the indicated roam delta dBm level or stronger.

Key	Roam Trigger
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\RoamTrigger **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.

Value	-50 (0x32) -55 (0x37) -60 (0x3c) -65 (0x41) -70 (0x46) -75 (0x4b) -80 (0x50) -85 (0x55) or Custom
Default	-70
Type	DWORD

Custom Setting

If SCU displays a value of "Custom" for a SCU global setting, then the operating system registry has been edited to include a value that is not available for selection on the SCU Global window.

- If the registry is edited but the user does not select Custom, SCU ignores the registry.
- If SCU displays a value other than Custom and the user selects Custom, SCU reverts to the value that it displayed before the user selected Custom.

DFS

DFS Channels

Support for 5 GHz (802.11a) channels where support for dynamic frequency selection (DFS) is required. When turned on, the channels are included in the set of channels to be scanned.

Key	DFS Channels
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\DFSChannels **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	On (0x1) Off (0x0)
Default	Off
Type	DWORD

DFS Scan Time

Amount of time (ms) the radio scans each DFS channel.

Key	DFS Scan Time
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\scanDFSTime **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	Time in ms
Default	120
Type	DWORD

CCX

CCX Features

Use of Cisco information element (IE) and CCX version number; support for CCX features

Key	CCX Features
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\CCXfeatures **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	0 (Optimized) – Use Cisco IE and CCX version; support all CCX features except AP-assisted roaming, AP-specified max transmit power, and RM. 1 (Full) – Use Cisco IE and CCX version number; support all CCX features. 2 (Off) – Do not use Cisco IE and CCX version number.
Default	0
Type	DWORD

Note: For 30AG (MSD30AG and SSD30AG) radio modules, this parameter is disabled. The default is 0.

WMM

Use of Wi-Fi Multimedia Extensions, also known as WMM.

Key	WMM
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\WME **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) On (1) Off

Default	0
Type	DWORD

Note: For ABGN radio modules, this parameter is disabled.

Authentication

Auth Server

Type of authentication server being used for EAP authentication.

Key	Auth Server
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\AuthServerType **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Type 1 – Cisco Secure ACS or another server that uses PEAPv1 for PEAP with EAP-MSCHAPV2 (PEAP-MSCHAP). (1) Type 2 – A different authentication server (such as Juniper Networks Steel Belted RADIUS) that uses PEAPv0 for PEAP-MSCHAP.
Default	0
Type	DWORD

Auth Timeout

Specifies the number of seconds that Summit software waits for an EAP authentication request to succeed or fail.

If authentication credentials are specified in the active profile and the authentication times out, then association will fail.

If authentication credentials are not specified in the active profile and the authentication times out, then the user will be re-prompted to enter authentication credentials.

Key	Auth Timeout
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\authTimeout **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	An integer from 3 to 60
Default	8
Type	DWORD

PMK Caching

When WPA2 is in use, indicates the type of Pairwise Master Key (PMK) caching to use.

Key	PMK Caching
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\OPMK **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) STANDARD (1) OPMK
Default	0
Type	DWORD

Note: When switching from Standard to OPMK, you must initiate a suspend resume of the device.

TTLS Inner Method

The authentication method used within the secure tunnel created by EAP-TTLS.

Key	TTLS Inner Method
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\TTLSInnerMethod **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Auto-EAP – Any available EAP method (1) MSCHAPV2 (2) MSCHAP (3) PAP (4) CHAP (5) EAP-MSCHAPV2
Default	0
Type	DWORD

Radio Settings

Ad Hoc Channel

The channel to be used for an ad hoc connection if the active profile has a Radio Mode value of "Ad Hoc".

Key	Ad Hoc Channel
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\defAdhocChannel **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	One of the 2.4 GHz channels (1-14) or UNII-1 channels (36, 40, 44, 48)
Default	1
Type	DWORD

Frag Thresh

If packet size (in bytes) exceeds the indicated threshold, then the packet is fragmented.

Key	Frag Thresh
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\Frag **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	An integer from 256 to 2346
Default	2346

Note: For 30AG (MSD30AG and SSD30AG) radio modules, this parameter is disabled.

RTS Thresh

Packet size above which RTS/CTS is required on link.

Key	RTS Thresh
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\RTS **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	An integer from 0 to 2347
Default	2347
Type	DWORD

Note: For 30AG (MSD30AG and SSD30AG) radio modules, this parameter is disabled.

RX Diversity

Indicates how to handle antenna diversity when receiving data from the AP.

Key	RX Diversity
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\RxDiversity **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Main only – Use main antenna only. (1) Aux only – Use auxiliary antenna only. (2) On-Start on Aux – On startup, use auxiliary antenna. (3) On-Start on Main – On startup use main antenna
Default	3
Type	DWORD

Note: Summit does not support the AUX antenna as a single-antenna solution.

Note: For 30AG (MSD30AG and SSD30AG) radio modules, Rx & Tx Diversity must match (both **Main Only** or both **On**).

TX Diversity

Indicates how to handle antenna diversity when transmitting data to the AP.

Key	TX Diversity
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\TxDiversity **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Main only – Use main antenna only. (1) Aux only – Use auxiliary antenna only. (3) On – Use diversity.
Default	3
Type	DWORD

Note: For 30AG (MSD30AG and SSD30AG) radio modules, this parameter is disabled.

Note: For 30AG (MSD30AG and SSD30AG) radio modules, Rx & Tx Diversity must match (both **Main Only** or both **On**).

SCU Customization

Admin Password

Password that must be specified when the Admin Login button is selected.

Key	Admin Password
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\adminPWD **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	A string of up to 64 characters
Default	SUMMIT
Type	Binary

Certs Path

Directory where certificate(s) for EAP authentication and PAC files are stored.

Key	Certs Path
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\certPath **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	A valid directory path of up to 64 characters
Default	Device-dependent
Type	REG_SZ

Hide Passwords

If this setting is turned on, SCU (along with EAP authentication dialog boxes) masks credentials and other sensitive information.

Key	Hide Passwords
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\displayPWDS **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Off (1) On
Default	1
Type	DWORD

LEDused

Note: LEDused is available only with the SDC-MCF10G.

Key	
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\LEDused **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Off (1) On
Default	0
Type	DWORD

Note: Use of LED available only with the SDC-MCF10G.

Tray Icon

Enabling of System Tray icon.

Key	Tray Icon
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\trayIcon **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	(0) Off (1) On
Default	1
Type	DWORD

Diags

Ping Payload

Amount of data in bytes to be transmitted on a ping.

Key	Ping Payload
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\PingPayload **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	32 (0x20) 64 (0x40) 128 (0x80) 256 (0x100) 512 (0x200) 1024 (0x400)
Default	32
Type	DWORD

Ping Timeout ms

Amount of time in milliseconds that passes without a response before ping request is considered a failure.

Key	Ping Timeout ms
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\PingTimeout **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	An integer from 1 to 30000
Default	5000
Type	DWORD

Ping Delay ms

Amount of time in milliseconds between successive ping requests.

Key	Ping Delay ms
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\PingDelay **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	An integer from 0 to 7200000
Default	1000
Type	DWORD

Auto Profile

Auto Profile List

List of profiles that are able to be used to connect to automatically.

Key	Auto Profile List
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\autoProfile **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Value	0 (off) See Auto Profile Registry Setting for information on how to enable.
Default	0
Type	DWORD

Note: Auto Profile is only able with 30AG radios with version 3.03.09 and later.

Auto Profile Registry Setting

You can enable Auto Profile from the registry.

Key	autoProfile
Path	HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig **Note:** The **HKLM\Comm\SDCCF10G1\Parms\Configs\...** path is the same for all radios.
Type	DWORD

The settings are:

bit16	bit15	bit14	bit13	bit12	bit11	bit10	bit9	bit8	bit7	bit6	bit5	bit4	bit3	bit2	bit1
Config 15	Config 14	Config 13	Config 12	Config 11	Config 10	Config 09	Config 08	Config 07	Config 06	Config 05	Config 04	Config 03	Config 02	Config 01	Auto Scan On/Off

Config01 is (by default) the default profile and cannot be used for auto profile. It must be set to 0.

For example, if you want to automatically connect to Config02, Config05, and Config10, that would equal 10000100101
Convert that number to decimal which is 1061.
The number 1061 would be entered as the value for the autoProfile key.

Note: Auto Profile is not available on the 4322 or the 30 series radios.