

ST20XX SIP New Features (SG vx.58.6)

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1 Overview

This document describes a set of features included in ST2030 and S2022 SIP v1.58.6 and 3.58.6 respectively in order to improve their usability in different environments.

2 SIP MESSAGE support (rfc 3428) for Status display applications

More and more, services supported locally by the phone are also supported centrally by the IP PBX or softswitch (call forwarding, call rejection, call block ...).

Unlike the local services, there is no indication on the screen when the user activates these services on the server.

With the SIP MESSAGE method, the server could push short messages to the phone indicating its current status. These messages will be displayed on the phone's screen.

A parameter has been created with purpose to avoid attacks. Messages coming from other servers which were not the configured one on parameter will be rejected.

The text contained in the SIP MESSAGE body is displayed on the 4th line of the LCD for ST2030 and on the 2nd line of the LCD on the ST2022.

SIP MESSAGE text location on ST2030:

Date	Hour	Icons
Phone Name		
Phone Number		
SIP MESSAGE text location		
Softkey1	Softkey2	Softkey3

SIP MESSAGE text location on ST2022:

Date	Hour	Icons
Phone Number		
Softkey1	Softkey2	Softkey3

< -Blink->

Date	Hour	Icons
SIP MESSAGE text		
Softkey1	Softkey2	Softkey3

2.1 Feature Activation

This feature does not need specific activation to be supported. But a parameter has been created to avoid messages attacks from non desired sources. Parameter is

AuthMessageServer. Default value is 0.0.0.0, which means phone accepts all messages

received from everywhere. Otherwise, to limit from which server messages can be accepted, this parameter should contain either SIP messages server IP address or domain name.

This parameter only can be configured in section [sip] of common or MAC config files.

For example:

```
[sip]
...
AuthMessageServer=192.168.1.1    (or AuthMessageServer=domain.com)
...
```

3 Disable Call Waiting Tone

This new feature, we add the possibility to enable or disable the call waiting tone, in such a way that disable call waiting tone produces all the call waiting tones are muted.

3.1 Feature Activation

For this purpose, a new parameter has been included in section [sip] of common or MAC config files. So, you can enable or disable call waiting tone setting to 0 or 1, respectively. Default value is 0.

```
[sip]
...
DisableCWtone=0 (the call waiting tone is played)
DisableCWtone=1 (the call waiting tone is not played)
...
```

The activation of this feature is also accessible from the Web Gui in the Advanced | Call Features section.

THOMSON

The screenshot shows the Thomson Web GUI interface. At the top, there is a navigation bar with links: HOME, SETUP, ADVANCED, UTILITY, STATUS, and LOGOUT. On the left side, there is a sidebar menu with categories: Networking (STUN, UPnP, SNTP, QoS, Ethernet Connection, Outbound Proxy), Voice Settings (SIP Signalling, Codec Setup, Option Configure, Call Feature, Advanced, Dial Plan, Melody Management, System Melody, CWT Melody), and Phone Lists (Phone Book, Remote Phone Book, Call Blocking). The main content area is titled 'Call Features' and contains a 'Phone Operation' section. This section has a list of features with checkboxes: ACD, Privacy Call, Call Waiting (checked), Disable Call Waiting Tone (checked and circled in green), Anonymous Reject, Hide Domain Name (checked), Transfer to voice mail (checked), and Pick up call on another phone (checked). Below this list, there is a 'Shared Call Appearance' section with radio buttons for 'Disable' (selected), 'Broadsoft's SCA', and 'Sylantro's BLA'. At the bottom, there is a checkbox for 'Call Forward Indication'.

4 Soft keys reordering

Up to now, the soft keys position was fixed. If you removed a soft key (by web GUI or APS), its position remained empty. So you could have 2 soft keys on the first page, another one on the second...

In order to avoid this situation, soft key reordering is possible since this version. Also it could be interesting to put on the first page the most useful soft keys.

4.1 Feature Activation

The reordering of the soft keys only can be configured using APS. The soft keys order is indicated in section [sys] of common or MAC config files. Each function or service is associated to a soft key. It is the administrator responsibility to ensure a function is not used twice or is missing.

The function names syntax is independent from the language table. In case the function name is modified in any language, the above syntax must remain unchanged.

Following the country language selected, the corresponding wording will be displayed.

The following list has to be added to common or MAC file to determine the order:

```
[sys]
...
softkey01=TrVoiceMail
softkey02=CallLog
softkey03=PickUp
softkey04=LockPhone
softkey05=VoiceMail
softkey06=RetrievePark
softkey07=DNDstate
softkey08=ShortCut1
softkey09=ShortCut2
softkey10=ACDCheckIn
softkey11=ACDAvailable
softkey12=Login
...
```

Defined soft keys location is displayed on MMI screen as follow:

Date	Hour	Icons
Phone Name		
Phone Number		
< Softkey1	Softkey2	Softkey3 >
< Softkey4	Softkey5	Softkey6 >
< Softkey7	Softkey8	Softkey9 >
< Softkey10	Softkey11	Softkey12 >

5 Early Media Type parameter

Regarding Early media and RTP, policy so far was: 18x with sdp triggers RTP to be played, whereas 180 ringing without sdp triggers local ringing signal generation. Some systems however have been found with call flows incompatible with this policy.

For this reason, a parameter has been created in order to decide whether a 180Ringing will generate local ringing or will continue playing RTP previously negotiated in the early session.

New parameter is *Earlymediatype*. See below in order to know how to configure it.

5.1 Feature Activation

This parameter can be configured using APS through common and MAC config files, where you can find `Earlymediatype` in section [sip]. It can be also modified via telnet using command `sip set early_media_type`.

Default value is 0. That means phone will switch to local ring tone if it receives a 180 Ringing (no sdp) response, regardless if an RTP stream corresponding to the early media session is present.

Setting `Earlymediatype` parameter to 1, phone will continue playing RTP stream corresponding to the early media session even if a 180 Ringing (no sdp) response is received.

```
[sip]
...
Earlmediatype=0 (switch to local ringing generation
                 if 180 (no sdp) is received)
...
```

Or

```
[sip]
...
Earlymediatype=1 (do not switch to local ringing if 180 (no sdp) is
                 received, and still playing the incoming RTP pkg)
...
```