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## Declaration of SIP Conformance

Cetis interoperability testing methodology differs from its internal testing, in that PBX interoperability is usually either tested by the PBX manufacturer or a neutral third-party testing facility. The SIP phone is a relatively simple device that must interoperate with the standard protocols employed by the more complex IP/PBX. InterOp testing is designed to concentrate on functional areas critical to installation and compatibility in the field. The tests are limited to the functional buttons and software of the phone, as well as testing and documenting any limitations or failures in the PBX network environment. While Session Initiation Protocol (SIP) compliance is necessary, it is not sufficient, nor is it the same as functional interoperability. Our goal when undertaking any interoperability conformance is for successful deployment of a Cetis IP phone with a particular PBX manufacture and version in a hospitality network environment.

Some examples of common feature sets tested are:

- Standard protocol registration and messaging compliance with SIP 1.0 (RFC2543) and SIP 2.0 (RFC 3261)
- Message Waiting Indication (RFC 3842)
- Busy, Hold, Forward, DTMF, and CODEC negotiation are tested
- Multiple Programmable Speed Dial keys
- Hold, Redial, Mute, Speaker keys are supported as well as Line 1/Line 2 and Conference on specific 2-line models
- Networking protocols such as DHCP Options and VLAN negotiation, as well as the phones' internal diagnostic tools necessary for deployment in a hospitality network environment

### **Common Firmware on Cetis Group IP Phones**

Cetis SIP firmware follows a naming convention based on model.

All Cetis IP phones share the same base firmware. Server registration, SIP messaging, and call control are all the same. The different versions are only to accommodate variances in the number of speed dial keys and the different LCD screen sizes.

### **First Generation SIP - 1GEN (2007-2017)**

3300IP / 3302IP / ND2110S / ND2210S - SC2 FW = SIP Corded

9600 / NDC2110S / E103P - SD1 FW = SIP DECT 1 Line

9602 / NDC2210S / E203P - SD2 FW = SIP DECT 2 Line

3300TRM - ST1 FW = SIP Trimline 1 Line

3302TRM - ST2 FW = SIP Trimline 2 Line

E100P / E200P - SE2 FW = E-Series SIP Corded

## Second Generation SIP - 2GEN (2015-2017)

2GEN – The Second Generation Cetus SIP phones began manufacture in 2015 and were primarily distributed outside North America.

CC1	E100IP, M100IP, ND2100IP: 1-line, corded (LCD and non-LCD models)
CC2	E200IP, M200IP, ND2200IP: 2-line, corded (LCD and non-LCD models)
CD1	9600IP, E103IP, M103IP, NDC2100IP: No LCD display, 1-line, cordless
CD2	9602IP, E203IP, M203IP, NDC2200IP: No LCD display, 2-line, cordless
C31	3300IP: LCD display, 1-line, corded
C31	3302IP: LCD display, 2-line, corded
CT1	3300IP-TRM: 4-line LCD display, 1-line, corded, different keys, Trimline form
CT2	3302IP-TRM: 4-line LCD display, 2-line, corded, different keys, Trimline form
CM1	M100IP-TRM: No LCD display, 1-line, corded, different keys, Trimline form
CM2	M200IP-TRM: No LCD display, 2-line, corded, different keys

## Third Generation SIP - 3GEN (2018)

3GEN – The Third Generation Cetus SIP phones began manufacture in 2018 and are the newest evolution combining better deployment, network protocols, and SIP feature sets. The firmware version begins with 3.x, and your phone will readout the firmware number when you type \* \* 3 9 # on the keypad. The configuration file that these phones accept are <ConfigID>.cetus.cfg, where ConfigID is usually a room or extension number. These phones also accept <macaddress>.cetus.cfg files. When installing, Boot up time from power up is approximately 45 seconds.

*Example: CC1-3.0.0-024.bin is a firmware file for the models associated with that CC1 prefix. Firmware number 3.0.0-024 could have any of the below prefixes tying it to the associated models*

Prefix	Model	Features
CC1	M100IP, ND2100IP, E100IP:	1-line, corded
CC2	M200IP, ND2200IP, E200IP:	2-line, corded
CD1	9600IP, M103IP, NDC2100IP, E103IP:	No LCD display, 1-line, cordless
CD2	9602IP, M203IP, NDC2200IP, E203IP:	No LCD display, 2-line, cordless
C31	3300IP:	2-Line LCD display, 1-line, corded
C32	3302IP:	2-Line LCD display, 2-line, corded
CT1	3300IP-TRM, M100IP-TRM:	1-line, corded, Trimline form
CT2	3302IP-TRM, M200IP-TRM:	2-line, corded, Trimline form
CM1	E100IP-TRM:	1-line, corded, Trimline form
CM2	E200IP-TRM:	2-line, corded, Trimline form

CC = Cetus Corded | CD = Cetus DECT/Cordless | CT/CM = Cetus Trimline | C3 = Cetus 3300 series

*Note: The current SIP phone firmware (3.x) is NOT compatible with the SIP phones using (1.x) firmware or (2.x) firmware. Each of these SIP endpoints are distinct and separate hardware technologies, although they will have the same physical form factor and physical aesthetic characteristics in many cases.*

*Notable additional features in the newest phones are:*

*Support of LLDP-MED protocols in network deployment | Support of macaddress named configuration files in network deployment. More sophisticated provisioning methods and re-direction server for cloud-based deployment is also supported.*

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