iPECS

CyberData
The IP Endpoint Company

Configuring CyberData Devices for the iPECS-LIK

Presence Management

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This document covers the integration of CyberData IP endpoints with the iPECS-LIK versions 5.5He and 6.0Bo.

All support and supporting documentation for CyberData should be obtained from CyberData itself. This document assumes the reader is at least an iPECS Certified Technician, and is familiar with creating station user's for phontage, SIP phones, and UCS Users in general.

This document also assumes the reader is familiar with setting up CyberData Paging equipment and/or has access to the Manuals for the CyberData equipment, as several sections are left out of this manual such as setting up the network configuration of the CyberData Equipment and pin outs for relay, and audio out usage.For more information on the integration process see integration section.

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1.0 Configuring a CyberData unit as a SIP extension

1.1 Configuring SIP settings on the iPECS-LIK

The first step in setting up the CyberData Paging units is to login to the iPECS-LIK web administration using your maintenance User ID (if required) an password.

Once logged in click on "**System ID & Numbering Plan**" on the left hand side of the Administration tab. Select "**Flexible Station Number (105)**" from the drop down menu. On the right hand side you will see all of the extension numbers programed on your system with the associated order number, MAC address, and IP Address. Scroll down or select the next order range from the links at the top of the page till you see an extension that does not have any associated MAC address, or IP address and record that extension number.

Now that we have our extension (1393 in this example), Scroll down the menu on the left hand side under and select "**Device Login**" Administration Tab. Select "**Station User Login (443)**" from the drop down menu. On the right hand side of the screen you will be presented with a table that you can enter in the following values:

- ID = SIP Extension User ID
- Password = SIP Extension Password
- Desired Number = Next available unassigned Extension Number
    - This is the extension you recorded in the previous step (1393)
- Remark = Description of device or other remark.

In the example below I have entered in the ID of 1393, selected a password of 1393S1P!, and entered the desired extension number of 1393.

◊ ISDN Line Data										
◊ SIP Data				Index : [1- 50][51- 100][101- 150][151- 200][201- 250][251- 300]						
◊ Tables Data	Index	Registered Number	Linked	Version	ID	Password	Zone	Desired Number	Nation	Language	Remark
◊ Networking Data	1				1393	1393S1P!	1	1393	U.S.A	English	
◊ RSGM Data	2						1		U.S.A	English	
◊ Tnet Data	3						1		U.S.A	English	
◊ Zone Data	4						1		U.S.A	English	
	5						1		U.S.A	English	
◊ Device Login	6						1		U.S.A	English	
Remote device Register(442) [N]	7						1		U.S.A	English	
Station User Login(443) [N]	8						1		U.S.A	English	
◊ DECT Data	9						1		U.S.A	English	

Now that the user has been created on the iPECS-LIK, power up the CyberData unit and browse to the web interface.   Each CyberData unit has a quick start guide that you can use to gain access to the web based administration. At any point you do not know what you are doing call CyberData support and they can assist you with accessing the web interface.

Once you are logged into the unit with the default username of "**admin**" and password of "**admin**" Select "**SIP Config**" from the menu on the left hand side. Enter in the following values as it relates to your IP scheme and "Station User Login" settings.

SIP Setting	Value
SIP Server	MFIM IP Address
SIP User ID	ID value from the "Station User Logon" Table
Authentication ID	ID value from the "Station User Logon" Table
Authentication Password	Password value from the "Station User Logon" Table.
Re-registration Interval	3600

In the example below the MFIM IP address is 10.10.10.2, the SIP user ID is "1393", the Authentication ID is "1393", and the Authentication password is "1393S1P!"

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Once the settings have been entered select "SAVE" from the bottom of the window and then select "REBOOT".

Log back into the iPECS-LIK and click on "**System ID & Numbering Plan**" on the left hand side of the Administration tab. Select "**System and Device IP (102-103)**" from the drop down menu. All of the devices registered on the iPECS-LIK will appear on the left hand side. The CyberData "**SIP User ID**" that you programmed in should show in the table under the "**STA**" heading as shown below. Once it is this table the unit has registered successfully.

Note: A 3rd party SIP license is required to connect any SIP extension to the iPECS-LIK. SIP extensions do not have any system features or functions associated to them and are essentially SLT phones.

It is an inherent issue with SIP paging speakers, paging units, or door box's that they are dependent on an answer acknowledgment from all devices before audio is passed to the device. Once a page is initiated to the SIP device the person making the page must wait until all speakers that are to receive the page have acknowledged before making the page. Audio can be clipped off if the user starts talking immediately.

2.0 Configuring a CyberData unit as a multicast unit

2.1 Configuring Multicast Settings on the CyberData unit

To setup the CyberData units in Multicast configuration a 3rd party SIP license is not required. All configuration is done on the CyberData unit itself.

The iPECS-LIK uses the IP of 239.20.19.1 for broadcasting multicast pages across the network. For a listing of Multicast ports based on paging types please refer to section "**System Data-> Multicast RTP/RTCP (165)**" of the iPECS-LIK web administration.

To configure Multicast paging on the CyberData unit (if available); Select "**Multicast Config**" from the menu on the left hand side of the CyberData web administration page. Check the box to "**Enable Multicast Operations**" and set the IP address under the "ADDRESS" column to 239.20.19.1 for all priorities 0-9. Next select the multicast ports from the "**Multicast RTP/RTCP (165)**" of the iPECS-LIK web administration that refer to the paging type you would like to hear broadcast across the CyberData unit. Assign a name to the Multicast group, and if desired check the box to buffer the audio before playing through the CyberData unit. Click the "**Save**" button at the bottom of the page to save your configuration and then click the "**Reboot**" button to reboot the unit. Please refer to the example on the next page for a sample configuration.

CyberData Ceiling Speaker

Home	**Multicast Configuration**
Device Config	Enable Multicast operation: ☑

Device Settings

priority	Address	port	Multicast Group Name	Buffered
9	239.20.19.1	8176	Emergency Page 589/543	
8	239.20.19.1	8184	All Call Page 549	☐
7	239.20.19.1	8182	External All Call 548	☐
6	239.20.19.1	8178	External Page 1	☐
5	239.20.19.1	8180	External Page 2	☐

SIP calls are considered priority 4.5

4	239.20.19.1	8106	Internal Page 1	☐
3	239.20.19.1	8108	Internal Page 2	☐
2	239.20.19.1	8186	PTT 1	☐
1	239.20.19.1	8100	BGM	☐
0	239.20.19.1	8102	BGM External 1	☐

Navigation menu: Home, Device Config, Networking, SIP Config, Nightringer, Multicast Config, Audio Config, Clock Config, Event Config, Autoprovisioning, Update Firmware

Port range can be from 2000-65535
Ports must be odd numbers
Priority 9 is the highest and 0 is the lowest
A higher priority audio stream will always supercede a lower one
Priority 9 streams will play at maximum volume

* You need to reboot for changes to take effect

[Save] [Reboot]

NOTE: The iPECS-LIK and all CyberData equipment must be located in the same broadcast domain for the multicast configuration to work correctly.
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