

# Product Datasheet

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## IPS Pager & Audio Broadcast



# 1 IPS Pager description

## 1.1 Overview

telisca IPS Pager is a perfect solution to broadcast text messages, presentations (several graphic or text slides) or the Audio Broadcast module allows mass broadcasting of audio alerts.

Here are several cases of use:

- Sending alert messages to a global list corresponding to a building, a service, the whole company: computer problem, closure of premises, security, disaster (in addition to approved equipment),
- Send text and graphic presentations (multiple screens) to a large number of IP Phones.
- Broadcast a live ad to a large number of phones (people search, announcement).
- Talk live with a group of people in Talky Walky mode (support, security assistance).
- Broadcast a recorded or voice-activated audio announcement from an IP Phone or Web interface (security alert).
- Broadcast an audio announcement at a fixed time (for example, when the premises are closed).
- Automatically send a text or audio message from a third-party application (machine down).

## 1.2 Details of the features

Certain information or presentations may also remain accessible for consultation at any time from IP Phones via the "Services" key.

It is possible to trigger the alert automatically by pressing a button (SURL button) on the phone. It is also possible to trigger sending via a push button connected to a dry contact with a dry contact / IP conversion box.

IPS Pager allows you to send a message from a Jabber tab, an IP Phone, a mapping web interface or an application (via http / REST interface).

Automatic sending at a fixed time, takes into account the local time of each IP Phone.

A report of sending is sent automatically by email to the administrators and it is archived with the detail of the sending.

## 1.3 Architecture

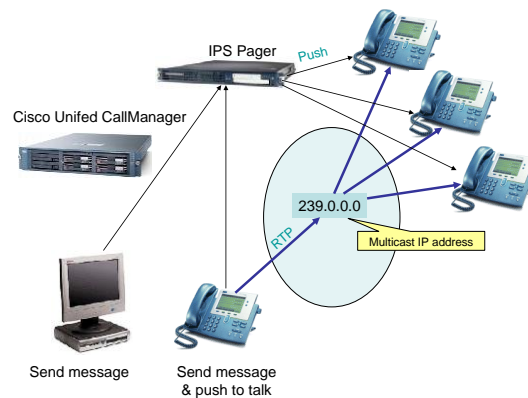
There are two ways of sending text messages to Cisco IP Phones:

-By CTI: An authorized application user is dynamically associated to the destination IP phone and sends a URL to display via JTAPI. This method is simple to deploy but limited to several hundred IP phones per transmission.

-By http: The application dynamically loads IP phone IP addresses and sends an http post request toward the IP phones. The IP phones must be authorized for web access. IPS Pager includes a proxy authentication (of type 'One type password'), which secures the push and unloads the CUCM cluster. This method is appropriate to massive transmissions.

To secure authentication requirement when pushing to IP Phone, IPS Pager integrates an authentication proxy. The proxy is based on a one-time password mechanism that enhances security and free Cisco Unified Communications Manager from the load occurred when pushing to a large number of IP Phones.

Audio message broadcast places the IP phones in listening mode on a port and multicast IP address. This multicast IP address must be routed to reach the IP phones on the different sites concerned.



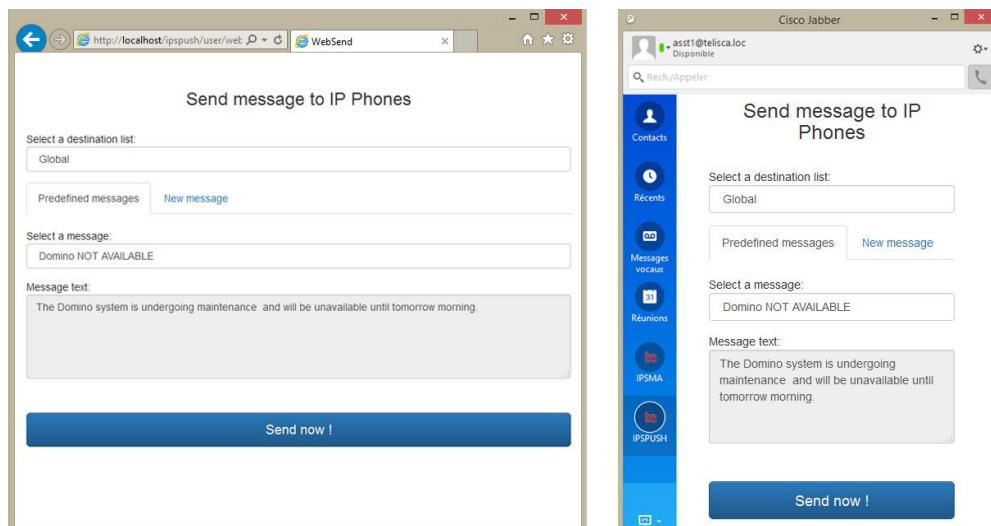
The IPS Pager server effects a simultaneous 'push' on several IP Phones to cause them to display the selected message or place them in listening mode on a multicast IP address. The number of simultaneous pushes is configurable according to server performance.

IPS Pager supports multi-cluster CUCM architecture and message can be pushed to IP Phones from different CUCM clusters.

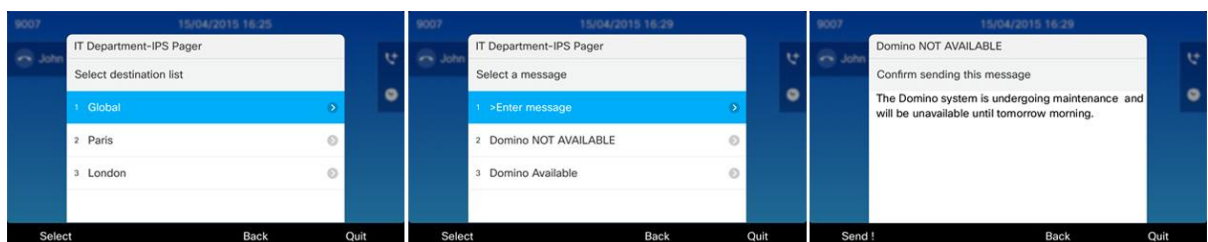
## 1.4 User Interfaces

The administration interface makes it possible to define user profiles and following these profiles, lists of sound and message broadcasting. Each profile is associated with an authentication.

Sending messages can be triggered from a web interface or Jabber, protected by a key or membership in an AD / LDAP security group. Depending on the profile, it provides access to mailing lists and predefined messages. It also allows you to create a temporary message and set its priority level.



Messages may also be sent directly from the IP Phone



Administrator uses a Web interface to define different user profiles. For each profile, he will have defined destination groups. Groups can be defined by: 'locations', 'device pools', 'calling search spaces', 'IP Address ranges', 'IP Phone list', all IP Phones, list of users, list of departments. It is possible to create lists of lists on different CUCM clusters.

Nom

Type Liste IP Phones

Filtre sur N° Numéro téléphone

Numéro	Identifiant	Description	Profil (CSS)	Pool	Location	Type	Adresse
<input type="checkbox"/>	SEP000000000000			Default	Hub_None	Third-party SIP Device (Basic)	192.168.0.70
<input type="checkbox"/>	SEP64168DBA800F	7301 (9951)		Default	Hub_None	Cisco 9951	
<input type="checkbox"/>	SEP0024C4FEACA0	Auto 7013		Default	Hub_None	Cisco 7906	
<input type="checkbox"/>	70140001 SEP0013C412C578	Auto 7014		Default	Hub_None	Cisco 7960	192.168.0.18
<input type="checkbox"/>	SEP0019306FB9D4	Auto 7015		Default	Hub_None	Cisco 7931	
<input type="checkbox"/>	SEP0016C76B2B04	Auto 7016		Default	Hub_None	Cisco 7961	
<input type="checkbox"/>	SEP000F8F28DAE9	Auto 7017	VMRestrictedCSS	Default	Hub_None	Cisco 7970	192.168.0.25
<input type="checkbox"/>	SEP001E4A922358	Auto 7019		Default	Hub_None	Cisco 7942	
<input type="checkbox"/>	SEP000FF76E3C56	Auto 7020		Default	Hub_None	Cisco 7940	
<input type="checkbox"/>	SEP0024E8A79558	Auto 7025		Default	Hub_None	Cisco IP Communicator	

It is possible to send text messages and presentation automatically at different time of day, depending of the week day. Multiple time zones are taken into account for large CUCM clusters.

Jours de travail  Lundi  Mardi  Mercredi  Jeudi  Vendredi  Samedi  Dimanche

[Ajouter](#)

		Groupe éditorial	Listes de destinations	Messages/Présentations	Horaire 1	Horaire 2	Horaire 3	Horaire 4	Horaire 5
Modifier	Supprimer	User message	TEST	Slide show	15:36				
Modifier	Supprimer	GROUP2_5	LIST1	PAGE 1	15:34	15:39	16:10		

Administrator defines different messages ready to be sent. Two level or priority may be set for : Push priority, notification sound, display duration.

Administrator can check, messages sent history, including sender, profile, destination, messages sent and destination list detail.

With optional module, IPS Pager can also send SMS to mobile phone via Cloud Service like Esendex. IPS Pager can also send message to ASCOM DECT phones.

REST APIs are available to send automatically text messages to destination groups, from a third-party application.

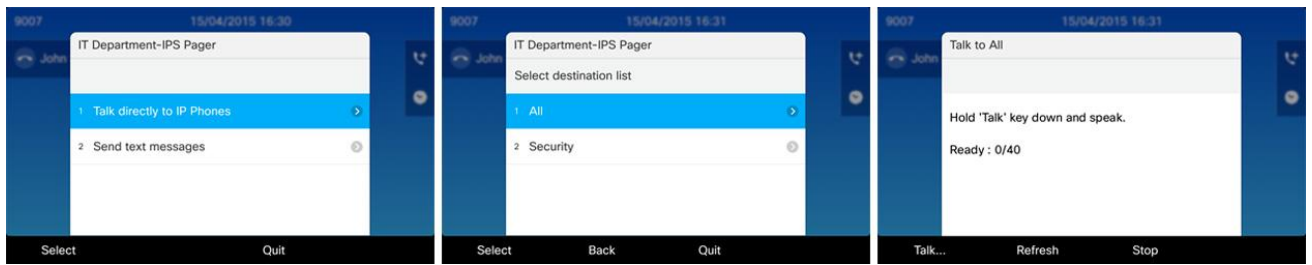
## 1.5 Optional Audio Broadcast Module

This module sends a synchronized audio message to a large number of phones, using a multicast IP address. The audio message can also be sent on IP speakers.

It is possible to:

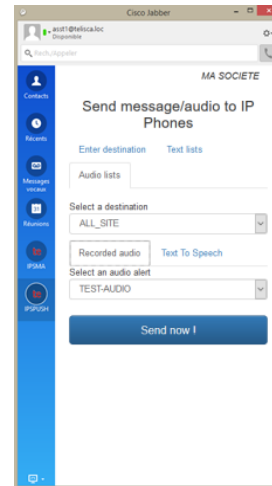
- Talk live from a phone
- Send a pre-recorded message
- Send a message in voice synthesis.

The user can talk live from their phone by calling the IPS Pager service. Depending on his profile he will have access to one or more mailing lists.



Audio is played on Cisco IP Phones's speakers. If the IP phone is engaged on a call, the internal calling party will hear the audio message from the handset. It is also possible to play audio message on IP Speakers, like CyberData or Algo Solution SIP-enabled IP Speaker.

A web interface is available from a Jabber tab, allowing you to send recorded audio messages or multi-language voice synthesis.



Web map user interface allows to select the destination of the audio announce on a map. It also offers a Dashboard to view live operating statistics.



## 1.6 Optional DECT and SMS messaging

IPS Page supports an (optional) interface for sending messages toward ASCOM DECT telephones.

IPS Pager supports an (optional) interface with an SMS Cloud service (licke Esendex) for sending messages toward mobile telephones.

IPS Pager is available in French and English.

## 1.7 Requirements

Supported Cisco CUCM versions: 8.6, 9.1, 10.5, 11.5, 12, BE 6000, BE 7000

Supported Cisco IP Phone 6921, 6941, 6961, 7811, 7821, 7841, 7861, 7905, 7911, 7912, 7920, 7921, 7940, 7941, 7960, 7961, 7970, 7971, 8811, 8841, 8845, 8851, 8861, 8865, 8941, 8945, 8961, 9951, 9971, IP Communicator.

For audio announcements, a multicast IP address must be available between IP Phones and between the server and the IP Phones for pre-recorded audio messages,

- Windows servers supported:
  - Windows Server 2008 R2 SP1 or 2008 SP2 Foundation, EN/FR, (only for updates)
  - Windows Server 2008 R2 SP1 or 2008 SP2 Standard, EN/FR, (only for updates)
  - Windows Server 2012 or 2012 R2 Essentials, EN/FR,
  - Windows Server 2012 or 2012 R2 Standard, EN/FR,
  - Windows Server 2016 Essentials, EN/FR
  - Windows Server 2016 Standard, EN/FR
- DotNet 4.5.1 (minimum) up to 4.6.2 (advised)
- Minimum configuration: 1 vCPU, 4GB RAM, 70GB disk
- For configurations of several thousand IP Phones and the number of simultaneous shipments desired, a sizing will be recommended.
- Supported on VMware vSphere virtual machine, HyperV, Cisco UCS, UCS-E.
- CyberData or Algo Solution IP speaker stand.
- Sending SMS via eSendex Cloud Gateway.
- Push button triggering with dry contact conversion / IP ControlByWeb box.
- Virtual Machine VMware vSphere, HyperV or Cisco UCS, Cisco UCS-E.
- CyberData or Algo Solution IP speakers.