



Voice over IP Bandwidth Calculator

A freeware program provided by Infotel Systems Corp.
(www.infotel-systems.com)

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1



Voice over IP

- A new way to provide telephone service
- Circuit Switching ✂ Packet Switching
- Reduced bandwidth due to audio compression and silence suppression
- Bandwidth determined by several factors

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Bandwidth Factors

1. Audio CODEC
2. Amount of real time voice per packet
3. Packet overhead
4. Voice activity

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VoIP Calculator Input

Voice over IP Bandwidth Calculator

Traffic
Load: Erlangs
Blocking: %

Packetization
 Frames/Packet
 Packet Ovh. (Bytes)

Codec
 G.711 G.723 (5.3)
 G.728 G.723 (6.4)
 G.729 GSM
 Custom
 Frame Time (msecs)
 Bytes/Frame

Silence Suppression
 Voice Activity (0-1)

VoIP-Calc
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Burstiness
Burst Factor: (0-1)

Bandwidth
Trunks:
Bandwidth per Trunk: Mbps
Bandwidth: Mbps
Bandwidth @ 64 kbps: Mbps

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Requirements

- Excel 2000 or newer
- Macro security set to medium
- When spreadsheet opens click "Enable Macros" button

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Help

- Spreadsheet contains a brief description of the calculator and the input parameters
- For additional help contact:
rparkins@infotel-systems.com
- Website: <http://www.infotel-systems.com>

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