VALCOM IP Solutions
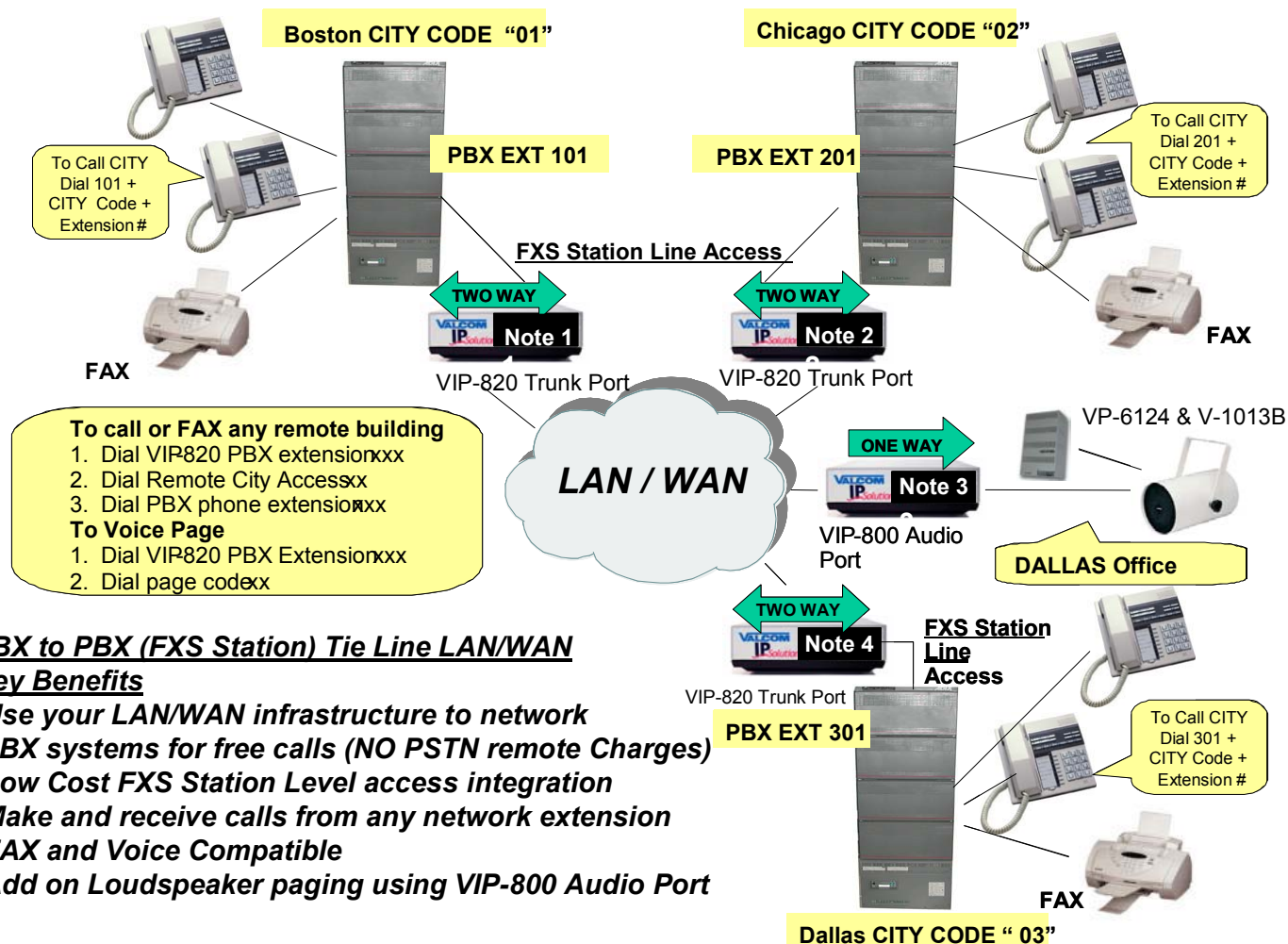
PBX to PBX LAN/WAN Station Level Tie-Line Interface

VoIP Application Brief Number: 10

- Using VIP-820 Trunk Ports with PBX (FXS) Station Lines to provide telephone communications and loudspeaker paging control.
- Using VIP-800 Audio Page Port with Valcom speakers to provide facility loudspeaker paging

Overview:

Valcom VoIP products provide LAN/WAN connectivity for loudspeaker paging and telephone tie-line communications. The VIP-810 is used with PBX (FSX) Station Lines to network remote PBX systems over the LAN/WAN to eliminate PSTN line charges. Any network phone can dial remote VIP-800 paging point(s) for all call or specific group or zone loudspeaker paging. The VIP-820 Trunk Port provides station to station level access for voice and FAX communications. Using VoIP solutions has been proved to be both reliable and effective in controlling rising utility telephone line costs.

Boston CITY CODE "01"

Chicago CITY CODE "02"

To Call CITY Dial 101 + CITY Code + Extension #

PBX EXT 101

PBX EXT 201

To Call CITY Dial 201 + CITY Code + Extension #

FXS Station Line Access

TWO WAY — Note 1

TWO WAY — Note 2

FAX

FAX

VIP-820 Trunk Port

VIP-820 Trunk Port

To call or FAX any remote building
1. Dial VIP-820 PBX extension *xxx*
2. Dial Remote City Access *xx*
3. Dial PBX phone extension *xxx*

To Voice Page
1. Dial VIP-820 PBX Extension *xxx*
2. Dial page code *xx*

LAN / WAN

ONE WAY — Note 3

VP-6124 & V-1013B

VIP-800 Audio Port

DALLAS Office

TWO WAY — Note 4

FXS Station Line Access

VIP-820 Trunk Port

PBX EXT 301

To Call CITY Dial 301 + CITY Code + Extension #

FAX

Dallas CITY CODE " 03"

PBX to PBX (FXS Station) Tie Line LAN/WAN Key Benefits

- *Use your LAN/WAN infrastructure to network PBX systems for free calls (NO PSTN remote Charges)*
- *Low Cost FXS Station Level access integration*
- *Make and receive calls from any network extension*
- *FAX and Voice Compatible*
- *Add on Loudspeaker paging using VIP-800 Audio Port*

System Design Notes:

1. VIP-820 connected to (FSX) Station Line #101 providing handset paging and 2-way telecom with remote telephones.
2. VIP-820 connected to (FSX) Station Line #201 providing handset paging and 2-way telecom with remote telephones.
3. VIP-800 connected to a Paging zone of V-1013W Track-Style 1-way paging speakers with VP-6124 power supply.
4. VIP-820 connected to (FSX) Station Line #301 providing handset paging and 2-way telecom with remote telephones.

For further information on this or other system applications call us at 1-800-VALCOM1. Press 1 for Applications Support.