



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

DPS0811

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF

JOHN ABBOTT
304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

Penta Corporation

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/31/2007				
BID OPENING DATE:	11/19/2007		BID OPENING TIME	01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		725-16		
RADIO DISPATCH CONSOLE EQUIPMENT						
OPEN-END CONTRACT TO PROVIDE RADIO DISPATCH CONSOLE EQUIPMENT FOR THE WEST VIRGINIA STATE POLICE, PER THE SPECIFICATIONS.						
QUESTION PERIOD: QUESTIONS WILL BE ACCEPTED UNTIL 11/9/2007; 4:00 PM; AND SHALL BE ADDRESSED TO JABBOTT@WVADMIN.GOV OR FAXED TO 304-558-4115.						
EXHIBIT 4						
LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.						
EXHIBIT 3						
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>John Abbott</i>	504-733-1700	10/3/07
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Dir of Ops	22-0803188	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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Department of Administration
Purchasing Division
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WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

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10/31/2007				
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..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.						
UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.						
RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.						
CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.						
OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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<p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>VENDOR PREFERENCE CERTIFICATE</p>						

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<p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p>						

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<p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED</p>						

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<p>THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>Penta Corporation</u></p> <p>DATE: <u>12/3/07</u></p> <p>SIGNED: <u>[Signature]</u></p> <p>TITLE: <u>Dir. of Ops.</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <u>[Signature]</u>	TELEPHONE <u>304-733-1700</u>	DATE <u>12/3/07</u>	
TITLE <u>Dir. of Ops.</u>	FEIN <u>72-0803188</u>	ADDRESS CHANGES TO BE NOTED ABOVE	

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WEST VIRGINIA STATE POLICE

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SOUTH CHARLESTON, WV
25309 304-746-2141

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BID OPENING DATE: 11/19/2007		BID OPENING TIME: 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER: JOHN ABBOTT-----						
RFQ. NO.: DPS0811-----						
BID OPENING DATE: 11/19/2007-----						
BID OPENING TIME: 1:30 PM-----						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
504-734-5041-----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
Robert Chandler / Rae Macafore						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Robert Chandler</i>	TELEPHONE 504-734-1700	DATE 10/31/07	
TITLE Dir of Ops	FBN 72-0803/88	ADDRESS CHANGES TO BE NOTED ABOVE	

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***** THIS IS THE END OF RFQ DPSC811 ***** TOTAL:						214,487.40

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE

TELEPHONE

DATE

[illegible]

FEIN

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

SPECIFICATIONS FOR RADIO DISPATCH CONSOLE EQUIPMENT

The West Virginia State Police (WVSP) is requesting competitive bids for radio dispatch console equipment as per the attached specifications. The contract shall be available for use by all other entities of state government, as well as counties and municipalities.

All vendors bidding on any equipment listed in these specifications are required to submit in writing, an indication as to if the product(s) they are bidding meets or exceeds the specifications set forth for those item(s) they are bidding. If a vendor bids a product which does not meet the specifications as outlined for that item, but they believe exceeds the specifications then the vendor is required to submit their exceptions in writing specifically listing the item and line-specification(s) they are taking exception to. Vendors shall submit within seven days upon request, a product sheet for each item bid, which is to include at a minimum: picture, manufacturer, model number, and general specifications for the item.

Meets Spec	
<u>Yes</u>	<u>No</u>

1. CONSOLE SPECIFICATIONS

- 1.1. A console shall consist of two operating positions which shall come with all hardware and/or software required for the consoles to function together or independently. (Installation of the two position console shall be priced separately from the hardware and software. Installation shall include all hardware and software, and at the point of completion, for the console will be totally programmed and functional.

✓	_____
---	-------

Note: A price shall be provided to increase the number of console positions in single position increments, in which the cost will include all hardware and/or software required to expand by one full position. The quantities of this option will enable the console to be expanded to six or more positions. (For the additional positions, an installation price shall be provided for installation at time of initial purchase and a second price for installation of additional positions purchased after the time of the initial two position purchase.)

- 1.2. The console will be monitor based utilizing a mouse for pointing and PTT.

✓	_____
---	-------

1.3. Monitor shall measure at least 19" diagonally, and will be a Flat Screen LCD type. (Touch Screen may be available as an option. Pricing for this option shall assume deletion of the standard non-touch screen monitor and show the additional cost to be incurred for each monitor change. Additional console positions beyond the initial two positions will be assumed to utilize non-touch screen monitors and will also be capable of upgrade in accordance with option 1.3.)

✓ _____

1.4. Channels will be accessed via an icon on a display screen. (*A standard optical mouse should be used to interface with the display screen.*)

✓ _____

1.5. Base console must provide tone or local (E&M) control for a minimum of 8 radios. (Appropriate devices to control the associated base stations must be included in the base console system price.)

✓ _____

1.5.1. Console will interface with:

Local control lines (2 or 4 wire control)
Telephone lines (2 or 4 wire control)
Microwave interface

✓ _____

Any information related to these types of connection shall be provided, and notation made if pricing is dependant upon what type of connection is required, and quantities of each. Base stations cards should be capable of field configuration to allow the card to be setup for radio control or phone line access. Any line configuration (Tone, E&M and POTS phone lines) shall be made from the same interface card.

1.6. Console shall be expandable to add additional tone or local controls in groups not greater than 4 channels.

✓ _____

1.7. Expansion modules shall have a minimum capacity of one channel. (Specify quantity of channels contained in each expansion module).

✓ _____

- | | | | |
|---------|---|-------------------------------------|-------|
| 1.8. | A minimum of 4 (four) speakers shall be provided. Functionality for these speakers shall include Select, Unselect, and two auxiliary/monitor speakers assigned as desired. | <input checked="" type="checkbox"/> | _____ |
| 1.9. | All speakers shall function in conjunction with PTT, muting on PTT if desired. | <input checked="" type="checkbox"/> | _____ |
| 1.10. | Auxiliary speakers shall be driven by amplifiers capable of accepting 600 ohm audio from an external source, such as a Doug Hall Voting Comparator, and shall be capable of being muted by PTT. (Though separate from select and unselect, it is desired that they be "controlled" by the console.) | <input checked="" type="checkbox"/> | _____ |
| 1.11. | Each console position will be able to function independently. | <input checked="" type="checkbox"/> | _____ |
| 1.12. | Any equipment interfaced from one console will be available at other console positions. | <input checked="" type="checkbox"/> | _____ |
| 1.13. | Each console position will include: | | |
| 1.13.1. | A boom type high quality microphone. | <input checked="" type="checkbox"/> | _____ |
| 1.13.2. | Headset jack compatible with the hardware purchased for each position. | <input checked="" type="checkbox"/> | _____ |
| 1.13.3. | A headset for each position compatible with the hardware purchased. | <input checked="" type="checkbox"/> | _____ |
| 1.13.4. | The capabilities to interface a foot pedal for transmit. One foot pedal will be included with each console. (<i>Pricing for additional foot pedals shall be provided.</i>) | <input checked="" type="checkbox"/> | _____ |
| 1.14. | Console shall be compatible with IDA based E.F. Johnson 5300 P-25 trunked series tone controlled radios. | <input checked="" type="checkbox"/> | _____ |

- 1.15. Console shall be capable of generating paging tones. Specify capability. Two-Tone, 5/6 Tone, Knox, Electron, user programmable and DTMF paging are mandatory requirements. Provide details on how your system is configured for paging operation. Single button and group stacking is required. ✓ _____
- 1.16. Each console shall include a keyboard if it enables the ability to perform programming and/or configuration functions. (The keyboard shall not be required to make the console operate in normal communications mode.) ✓ _____
- 1.17. Programming ability shall be password controlled. Screen setups and configurations shall automatically push to each position from the screen building software. It shall not be required to configure each position separately. Screen configurations shall be maintained at a common location and not on each operator pc. In the event of pc failure the system shall push the screen and user database to a newly installed computer. ✓ _____
- 1.18. It is desirable for the console(s) to utilize IP multicast IP packet transmissions. If the console is IP capable, then 1.18.1 & 1.18.2 should be addressed. Consoles capable of Internet Protocol but utilizing unicast IP packets will not be considered. ✓ _____
- 1.18.1. An option should be provided for a radio control endpoint controlled by the IP Protocol in 1.18. Pricing for this option shall be for one remote base station. A second option should be provided in the event a larger number of connections are possible from one endpoint unit. ✓ _____
- 1.18.2. Is IP radio control endpoint necessary for tone or E&M control? (Vendor shall provide documentation detailing interface between endpoint and base station at time of bid.) No _____
- 1.19. The console shall be capable of interfacing with a Doug Hall Voter at each console position, and have the capability for at least one of the two auxiliary speakers to be assigned to that voter. (Any hardware or software necessary for this interface ✓ _____

shall be provided.)

- 1.20. Console should shall have the ability to interface with a conventional Digital Voice Recorder for purposes of logging. A minimum of a two wire audio path should be available from each channel position.

✓ _____

2. **GENERAL SPECIFICATIONS**

- 2.1. A complete set of installation documentation, as built documentation, all programming software and hardware (cables, interfaces, etc) shall be provided.

✓ _____

- 2.2. All updates to software and firmware will be provided at no charge for the length of the warranty.

✓ _____

- 2.3. Vendor shall provide access for purchaser to all manufacturers' field service bulletins, knowledge base support, and any other support available, preferably available via the Internet and/or FTP sites.

✓ _____

- 2.4. A complete set of service manuals will be provided to the West Virginia State Police.

✓ _____

- 2.5. A factory training class shall be made available to the customer if necessary at no additional charge other than travel and living costs. This training shall cover installation, configuration, maintenance and screen development. A cost shall be provided for a factory on-site training class for customer support personnel.

✓ _____

3. WARRANTY

3.1. The system shall be warranted by the manufacturer to be free from defects of material and/or workmanship for a minimum period of two (2) years from date of installation.

✓ _____

3.2. All software will be warranted to be free of defects for the period of the hardware warranty.

✓ _____

3.3. All available updates to programming software, console software, and console firmware shall be provided at no cost during the warranty period.

✓ _____

3.4. A price shall be provided showing any software subscription and/or annual maintenance fees that are expected after the end of the warranty period.

✓ _____

PRICE QUOTATION

15

<u>Item Description:</u>	<u>Cost:</u>	<u>Qty:</u>	<u>Extended Cost:</u>
Two position Console (with all associated hardware, software).	\$ <u>161,281.40</u>	1	\$ <u>161,281.40</u>
Installation option for above hardware and software.	\$ <u>20,700.00</u>	1	\$ <u>20,700.00</u>
Additional console positions (To include all associated hardware, software).	\$ <u>10,212.00</u>	1	\$ <u>10,212.00</u>
Installation option for each additional position hardware and software at time of purchase.	\$ <u>690.00</u>	1	\$ <u>690.00</u>
Installation option for each additional position hardware and software after initial purchase.	\$ <u>4,080.00</u>	1	\$ <u>4,080.00</u>
Additional conventional channels. (Specify quantity in each module. The price listed under Cost shall reflect the cost per channel, and the extended cost shall be the total number of channels in a card multiplied by the cost.)	\$ <u>1,100.00</u>	1	\$ <u>1,100.00</u>
IP Radio Control endpoint. (single point)	\$ <u>800.00</u>	1	\$ <u>800.00</u>
IP Radio Control endpoint. (greater than single point (specify)	\$ <u>800.00</u>	1	\$ <u>800.00</u>
<u>Console accessory options</u>			
Additional Headset	\$ <u>330.00</u>	1	\$ <u>330.00</u>
Additional Foot Pedal	\$ <u>190.00</u>	1	\$ <u>190.00</u>
Factory training course at customer's location	\$ <u>2,304.00</u>	1	\$ <u>2,304.00</u>
<u>Other</u>			
Annual software subscription fees after warranty	\$ <u>12,000.00</u>	1	\$ <u>12,000.00</u>
TOTAL:			\$ <u>214,481.40</u>

NOTE: Quantity of one (1) as specified in the Price Quotation form is for bid purposes only. Actual quantities to be purchased may vary with each order.

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name:

Penta Corporation

Authorized Signature:

[Signature]

Date:

12/3/07



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DPS0811

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

Penta Corporation
325 Edwards Avenue
New Orleans, La. 70123

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
11/15/2007				

BID OPENING DATE: 12/04/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDEDNUM #01		
				THIS ADDENDUM IS ISSUED TO ANSWER VENDOR QUESTIONS PERTAINING TO THE ORIGINAL REQUEST FOR QUOTATION SPECIFICATIONS, TO EXTEND THE BID OPENING DATE FROM 11/19/2007 TO 12/04/2007; 1:30 PM, AND ADD EXHIBIT 10 (ADDENDUM ACKNOWLEDGEMENT).		
				NEW BID OPENING DATE: 12/04/2007; 1:30 PM		
0001	1	LS		725-16		
				RADIO DISPATCH CONSOLE EQUIPMENT		
				EXHIBIT 6		
				PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE		
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Robert Clark</i>				TELEPHONE 504-733-1700	DATE 12/3/07	
TITLE Dir of Ops.		FEIN 720803188		ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DPS0811

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
11/15/2007				

BID OPENING DATE: 12/04/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>PREFERRED TERMS: IT IS PREFERRED THAT THE PRICES ON THIS CONTRACT ARE FIRM FOR LIFE OF THE CONTRACT, AS INDICATED IN THE LIFE OF CONTRACT CLAUSE CONTAINED HEREIN, NOT TO EXCEED ONE (1) YEAR.</p> <p>IF THE VENDOR CANNOT GUARANTEE A FIRM PRICE FOR THE LIFE OF CONTRACT, HE MUST INDICATE ONE OF THE PARAGRAPHS LISTED BELOW. FAILURE TO QUALIFY THE PREFERRED TERMS WILL BIND THE VENDOR TO A FIRM PRICE FOR THE LIFE OF THE CONTRACT.</p> <p>ALTERNATE TERMS: (<input checked="" type="checkbox"/>) THE PRICES ON THIS CONTRACT WILL REMAIN FIRM FOR <u>365</u> DAYS AFTER THE EFFECTIVE DATE OF THE CONTRACT. PRICES WILL REMAIN FIRM AFTER EACH PRICE ADJUSTMENT FOR A MINIMUM OF <u>365</u> DAYS. () THE VENDOR DOES NOT AGREE TO MAINTAIN A FIRM PRICE FOR THE LENGTH OF THE CONTRACT BUT OFFERS AN ALTERNATE PROPOSAL AS FOLLOWS:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DPS0811

PAGE
3

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/15/2007				

BID OPENING DATE: 12/04/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	EXHIBIT 10					
				REQUISITION NO.: ..D.P.S.0811		
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NO.'S:					
	NO. 1 <i>[Signature]</i>					
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.					
	VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.					
	<i>[Signature]</i>					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-733-1700	DATE 12/3/07
TITLE Dir. of Ops	FEIN 72-0803188	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DPS0811

PAGE
4

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/15/2007				

BID OPENING DATE: 12/04/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				SIGNATURE <i>Penta Corporation</i> COMPANY ...12/3/07... DATE		
***** THIS IS THE END OF RFQ DPS0811 ***** TOTAL:						<u>214,487.40</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Pat J. Chader</i>	TELEPHONE 504-733-1200	DATE 12/3/07
TITLE Dir of Ops	FEIN 12-0803188	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Addendum #01 – DPS0811

Question: Penta Corporation has the following questions for the above mentioned specifications:

1. Page 10 (1.5.1)
 - How many telephone lines?
 - How many radios?
 - How many consoles?
2. Page 2 (RENEWAL) For the two (2) one (1) one year periods, are we allowed any increase in the value to cover CPI?

Answer:

1. Console must provide tone or local (E&M) control for a minimum of 8 radios. The console will interface with Local control lines (2 or 4 wire control), Telephone lines (2 or 4 wire control), or Microwave interface. Any line configuration (Tone, E&M and POTS phone lines) shall be made from the same interface card. The number of local control lines/telephone lines/ microwave interface will depend on the number of these connections each card in the console can handle.
2. See page 1 of this addendum – price increase provisions have been added.

Modification: Page 9, 1.2, of the specifications state: "The console will be monitor based utilizing a mouse for pointing and PTT."

This requirement is being replaced and should state: "The console should be monitor based utilizing a mouse for pointing and PTT."

PENTA

CORPORATION

December 3, 2007

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

QUOTE NUMBER: P27168QT

Thank you for allowing Penta to provide the following quotation for an integrated communications system for the West Virginia State Police. Penta has been furnishing the public safety and transportation industry with quality products/services for over 30 years. We are pleased to offer state of the art solutions from our wide range of field proven products.

The PCx System will provide an economical, straight forward, and reliable solution for your communications system.

The PCx switch is furnished standard with the following features:

- Redundant power supplies;
- Redundant master processors operating in hot standby with automatic, bumpless switch-over;
- Universal line interface cards (LIC) for interface to field circuits;
- Individual console interface cards;
- Option for IMT trunking cards to allow interconnection of several PCx switches;
- Rack mounted modular construction;
- Non blocking switch matrix with unlimited connection and conferencing;
- Straightforward design requiring no special training or test equipment for maintenance.
- Option for remote consoles using network connections;
- Field programmable software to customize operator screens and shift configurations;
- Built in limited expansion capabilities through the addition of LIC or consoles cards;

Excellence in Communications & Controls

- Windows 2003 server on the master computers
- Windows XP Professional on the Control Consoles
- Network based PCx utilizing 10/100 Base T Ethernet Communications

Compliance Section:

1. Console Specifications

- 1.1 Compliance
- 1.2 Compliance
- 1.3 Compliance: To upgrade LCD to touch screen is \$750 per console position
- 1.4 Compliance
- 1.5 Compliance: Penta is providing line interface that can be configured for all types specified
 - 1.5.1 Compliance: Penta is not offering cards or hardware to be co-located with base stations. All line interface cards are the same, only the configuration changes from type to type.
- 1.6 Compliance: each card interfaces with one circuit
- 1.7 Compliance: each card interfaces with one circuit
- 1.8 Compliance
- 1.9 Compliance
- 1.10 Compliance: Each speaker is controlled by the console. The console software has control over muting and volume.
- 1.11 Compliance
- 1.12 Compliance
- 1.13
 - 1.13.1 Compliance: Penta is offering a Shure microphone and 13" gooseneck
 - 1.13.2 Compliance
 - 1.13.3 Compliance: Penta is offering Plantronics headsets
 - 1.13.4 Compliance: Each additional footpedal is \$190 each
- 1.14 Compliance: The Penta line card will send EI sequential tones to the IDA controller
- 1.15 Compliance: The Penta console contain a complete paging database capable of single pages, multiple pages. To make a page, the user selects the paging radio, at that point a window with the names and paging number database with pop up. The user should select the person(s), unit(s), facility(s), or group to page and click 'send'. The Penta system will then send the page(s) over the selected site.
- 1.16 Compliance: the keyboard is not required for operation of the console
- 1.17 Compliance
- 1.18 Penta is not proposing a VOIP console. While VOIP is a viable alternative, Penta feels that this specification will be met with less complication by offering its PCx system
 - 1.18.1 Where an IP endpoint is required; Penta would use a JPS NXU-2a unit at \$800 each.

1.18.2 IP radio control is absolutely NOT necessary. Penta will use standard tone or E&M for radio control.

1.19 Compliance: Penta has successfully interfaces and controlled the Doug Hall voter in previously projects.

1.20 Compliance: Penta is providing record output for each console and circuit

2. General Specifications

2.1 Compliance/Clarification: Penta is not proposing to transfer ownership of any software. We are providing licenses for the use of our software. Any source code will only be provided as an escrow under mutually agreeable NDA. Penta is not proposing the fee required for Escrow.

2.2 Compliance

2.3 Compliance

2.4 Compliance: Penta is proposing to provide all manual in electronic format.

2.5 Compliance: Cost is provided in provided in "Pricing" Section.

3. Warranty

3.1 Compliance

3.2 Compliance

3.3 Compliance

3.4 Compliance: Yearly support to include remote technical support via telephone and VPN. Pricing is included in Pricing section.

Services

Penta's facilities are located in New Orleans, Louisiana, USA. Penta provides telephone support M-F 8:00 AM to 5:00 PM CST. After hours 24x7 emergency support is via Skypager at 1-888-690-8663. A knowledgeable Penta representative will return your call promptly. If necessary, a Penta field engineer can be on site on an expedited basis.

Quality Assurance

Penta Corporation is ISO-9001:2000 certified as of April 1999. We currently have an ISO compliant program to insure product quality and consistency.

Validity

This quotation is valid for a period of 120 days and is subject to Penta's Standard Terms and Conditions.

We are pleased to have provided this quotation on the basis of the information supplied to us in the referenced specification. Other configurations are available to meet the performance specifications, however, the proposed equipment provides an optimum cost/performance yield.

We look forward to discussing this proposal with you in the near future and hope that, should you have questions or require clarification on any issue, you will feel free to call any of the professionals here at Penta.

Sincerely,



Bobby Chandler
Penta Corporation

PCx COMMUNICATIONS CONTROL SYSTEM

NOTE: This document lists all available options of the PCx System. The system proposed for your application may not incorporate all hardware and/or features referenced in this specification.

Equipment Specifications

SYSTEM CONFIGURATION- GENERAL

Penta's PCx Communications Control System is a non-blocking redundant switch matrix capable of integrating the control of as many as 256 circuits (in standard mode), 512 (in expanded mode). Further expansion of radio circuits (using Penta's Group Expansion Module) and system networking is also available. Circuit types include radios, telephones, PBX lines, intercoms, consoles, fiber optic lines, and microwave channels. A single interface card is assigned to each circuit terminated at the Main Distribution Frame (MDF).

The PCx is useful in both dispatch and public address applications.

Common Controls

The central control equipment is designed as a solid state, redundant, non-blocking switch matrix. The common control is connected to the external circuits by means of a protected distribution frame.

The common control equipment consists of the following:

- dual, redundant processors (MTUs with monitor and keyboard)
- switch matrices
- channel interfaces to radios, telephones, consoles, etc.
- dual power supplies

The aforementioned equipment is housed in enclosed cabinets of approximately 2' W x 2' D x 7' H. (Other cabinet sizes are available.)

Consoles

Each console position consists of an OEM grade Pentium IV Computer running MS Windows XP Professional, a XGA Display (CRT or LCD), four loudspeakers, a microphone, a footswitch, and a headset jackbox. Operators interact with the console GUI using a keyboard, mouse and/or touchscreen (optional). A VU Meter is standard on the console GUI display.

A Penta EASy Interface Console Audio Controller provides the audio and data interface to the PCx system. The Penta Console application requires only a serial

connection with the EASy. The EASy interface unit is 8"x6"x2" and can be easily located under the console desk.

Features

1. **Redundancy:** The PCx is based upon a redundant design using common microprocessors (Master Terminal Units - MTUs) operating in a hot standby configuration. Failure of the controlling MTU will result in an automatic transfer to the standby unit. MTUs are continuously monitored to preclude silent failures. Manual switchover between MTUs is available. These MTU computers are typically industrial grade rackmount Pentium IV or better computers running Windows2003 Server software.

Power supplies are redundant and configured in a hot standby fashion, as well.

Each line interface card has its own CPU tone encoder, tone decoder and compressor. Transmit and receive audio is between +7 db and -35 db, with 20 db of compression. A module slot accepts specialty signaling modules such as Penta's DSP module, Modem module, Delay module, etc.

2. **No Single point of failure:** The PCx's modular design permits a single interface card to be assigned to each circuit and console in the system. Therefore, a single console failure or single line interface failure will affect only that circuit. The system will be notified of the trouble, but no interruption of service will occur.
3. **Programmability:** Penta shall perform initial programming and data base entry before system shipment. The communications configuration of the system (line assignments to consoles, etc.) may be edited in the field using menu-driven software; no replacement or modification of hardware should be necessary.

Accessories

- **Maintenance Test Console:** Penta's MTC is, like the operator consoles, an OEM grade Computer. It will function as a dispatch position, but is designed to provide system diagnostic and testing capabilities for the user.
- **Management Information System:** Penta's MIS is linked via network connection to the Master Terminal Units. It receives all system activity information from this port, and stores that information in a Microsoft Access database. Connects, monitors, failures etc., may then be sorted based on a variety of parameters using Microsoft Access or SQL database queries. Hourly, daily, weekly, monthly, and yearly downloading of information is available.

Communications Facilities

The PCx is capable of controlling the following types of communications apparatus:

- two-wire and four-wire circuits to radios
- two-wire telephone type lines from PBX/PSTN
- automatic ring-down intercom lines
- "hoot and holler" intercom lines
- telephone lines from the public telephone network
- microwave channels
- fiber optic lines (require special interface)
- public address lines
- intercom lines

Specifications

1. Environment: The PCx central equipment shall operate without degradation of service from 0 degrees C to 50 degrees C.
2. Power: The system will operate at 120 volts (60 Hz) provided by the customers. Uninterruptible power supplies are available optionally. Incoming power supplies shall be short circuit and over-voltage protected.

The system draws between 300 and 900 Watts, depending on system size.

3. Technical: Total harmonic distortion of any audio path in the PCx does not exceed 2%. Frequency response is 300-3300 Hz \pm 3db. Crosstalk is below -70 db.
4. The maximum system connect time from initiation is 50 ms.
5. Maximum PTT time is \leq 50 ms.
6. DTMF Decode: Dynamic Range = 30 db, twist = \pm 10 db, acceptable signal to noise ratio = 14 db.
7. Tone Encode: Resolution = \pm .75 Hz
8. Mic input range to - 80 db.

COMMUNICATIONS CONSOLES

Configuration

Each communications console position shall consist of a Video Display, a keyboard, a push-to-talk footswitch, four loudspeakers, a VU meter, a microphone, a headset jackbox, a headset, and a Pentium IV (or better) computer control unit.

Video Display

- a) Display Size: 19" LCD nominal (standard),
other CRT/LCD sizes are available
- b) Resolution : at least SVGA 1024x768 pixels
- c) Scanning Frequency: Dependent upon the monitor model,
size and resolution selected
- d) Display colors: VGA - 16,
SVGA - 16, 256
- e) Mask Pitch: 0.13 mm dot
- f) Faceplate Glass: Non-glare
- g) Input connectors : BNC, DB9, DB25

Console Controller

As mentioned earlier, these are OEM grade PCs (Pentium IV). Penta's EASy Interface Console Audio Board is installed here for interface to the central equipment and for audio control.

Console Audio

Headset: Each headset shall conform to the following specifications:

- Microphone: Noise canceling
- Earpiece: Lightweight, over the ear
- Connection: 6-wire cable and plug to jackbox
- PTT button on grip

Loudspeaker: Each loudspeaker shall conform to the following specifications:

- Size: Desktop
- Power Handling Capability: 5-watts RMS
- Total Harmonic Distortion: 2% maximum
- Frequency Response: 300 to 5000 Hz \pm 5 db
- Mounting: Freestanding or Panel Mount

Microphone: Each microphone shall conform to the following specifications:

- Frequency response: 100 to 7000 Hz \pm 3 db
- Pattern: Cardioid with a 15-db front to back discrimination
- Mounting: Gooseneck, or Desk stand

Headset/ Loudspeaker Operation: Unselected audio always emanates from the unselected loudspeaker. Selected audio emanates from the select speaker unless the headset is plugged in; in this case the selected audio move to the headset. (Note: This feature can be disabled.)

System Attributes

Accessible via mouse, touchscreen and keyboard, the following dedicated functions are available at each console:

Connect: Enables the selected radio, telephone, intercom or patch for transmit and receive operation.

Monitor: Enables the selected radio for receive operation.

Hold: Places a connected telephone, intercom, console or PCx line on hold.

Add: Allows multiple circuits to be connected for a conference (includes originating console).

Patch: Allows multiple circuits to be connected for a conference (does not include originating console).

Channel

Mute: The default mode for all channels.

Dial: Summons a Dial keypad for manual input of numbers to be sent over a selected line.

Speed Dial: A feature of the Dial window, which lists, alphabetically, names of all people or locations for speed dial access. The operator can easily scroll up and down through this Rolodex to locate the desired speed dial entries.

Hookflash: Performs a standard hookflash on the connected line.

Last Number

Redial: Automatically redials the last connected or dialed circuit.

Transmit: A dedication button, which operates in parallel with the PTT footswitch.

Instant

Transmit: A dedicated function, which permits the operator to transmit a channel without having previously selected the channel.

Instant

Transmit

Edit: Permits the operator to dynamically enable a fixed number of stations for instant transmit.

Transfer: Allows the dispatcher to transfer a call to another console.

Alarms: Summons a page of alarms received at the console. The operator has the option to clear selective alarms or all alarms, or allow the list of alarms to remain on the alarm page for a later reference.

Incoming

Calls: Incoming calls will appear on the screen on the CALLS list. The operator can select the incoming calls for transmit and receivers on a first come basis. If multiple calls are received simultaneously, the operators may summon a call sub-menu, from which he can choose an individual caller.

Directory

Select: Allows the operator to change the active display on his screen. Since each "page" will allow 40 channel cells, systems with larger numbers of circuits will require multiple "pages" to permit operators to access all circuits in the system.

Page

(option): Allows the operator to send out paging tones to field personnel. A list of field sites is available to which tones can be sent, as well.

Volume

Control: Allows the operator to adjust the volume of the speaker, monitor speaker and the ring back level at his console.

Clean CRT

(for touchscreen

console): Disables the touch ability of the screen for a set period of time (typically 15-30 seconds) in order to clean the face of the CRT without making selections.

Status: Display a window which lists all stations currently in connect, monitor, hold, patch, as well as a list of incoming calls.

It also provides information regarding the console's recorder status.

Record: Optionally, consoles can be furnished with Penta's Digital Recorder Board for *instant recall recording* capabilities. The status screen will notify the operator if his console is in record and the current size of the voice file. The operator may access the recorder window to review different points of recorded activity. The "call back" window works similarly to a solid-state recorder. Functions such as pause, play, recall, etc. are provided.

Screen Load:

Downloads the station assignments or zone assignments associated with a particular console shift.

Log on/

Log off: Allows an operator to log on or log off of the console. Different access rights are assigned to different levels of authority. Generally, an operator will not be permitted to log off of his console until someone else has logged on first.

Voter

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Options: Allows the operator to enable and disable voters.

Emergency: Allows an operator to type an emergency message using a CRT-displayed keyboard for dissemination to designated locations.

Calibrate: Allows the operator to re-calibrate his touchscreen. Based on a series of these touches, the calibration software will realign the angle from which the operator approaches the screen.

Load

Database: Will reload the dial (rolodex) database entries from the master, as well as the pager and site database entries.

Service

Penta offers a variety of product assistance services to its customers.

Quality Control

Penta Corporation is an ISO9001:2000 certified company.

Training

Approximately three days of training is required for each PCx installation. Training can be provided on-site or at Penta's New Orleans manufacturing facility.

Installation

Penta's technical staff will provide product installation, if requested.

Maintenance

A one-year return-to-factory warranty is provided with all Penta products. On-site maintenance is usually available in most locations.

Documentation

Each PCx system is supplied with four technical/operational manuals for the central equipment, as well as a single console operations manual for each console sold with a system.

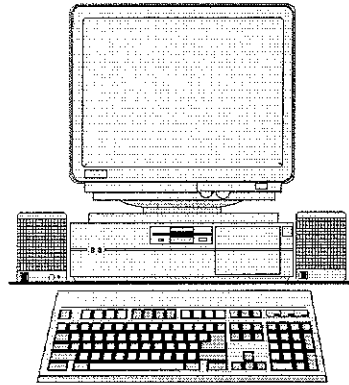
Spare Parts

These items are available at the time of purchase or may be purchased separately at any time thereafter. Penta normally recommends 10% spares for the replaceable cards in the system.

Penta's NT Console

Console Hardware

Penta's Operator Console is a PC-compatible computer providing a quick interface to the PCx communications switching equipment. The console and its software are designed to allow easy access to stations, circuits, field equipment, radios, lines, and other consoles connected to the PCx system.



Quick access to communication devices is possible by simply "clicking" the mouse pointer on the corresponding screen field.

The main screen enables most operations to be completed conveniently and efficiently. Pop-up windows for functions such as dial, status displays, and volume control also help quickly access features.

Main screen

Annotations:

- Title Bar
- Menu Bar
- Tool Bar
- Current Activity Section
- Hint Line
- Quick Dial Screen

Screen Content:

PENTA PCx WORKSTATION

File Edit Audio Misc

CALLINS 46% CONNECT 4% MONITOR ACTIVE 51%

Lic 6 Line 03

PTT AUTO SEL:

1 Lic 6					
2 Line 01					
3 Line 02					
4 Line 03					

QDial 0 QDial 8
QDial 1 QDial 9
QDial 2 QDial 10
QDial 3 QDial 11
QDial 4 QDial 12
QDial 5 QDial 13
QDial 6 QDial 14
QDial 7 QDial 15

CONNECT AND SPEAKERS

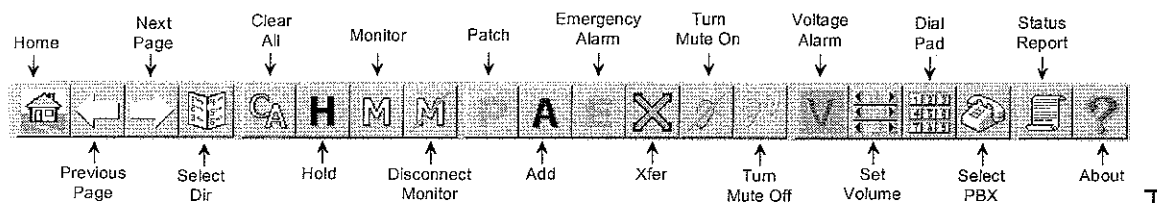
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Assignment Directories

To make the difficult task of finding a station in all the directory pages easier, each directory page has a directory label. Stations can be assigned to any page and appear in any order. This is useful when organizing and grouping stations for easy access.

Directory labels are used to identify a particular grouping of stations, e.g., all PBX lines can be assigned to a directory page labeled "PHONES". Directory page and label editing is done at the MTU system terminal. These directories are assigned to a particular console according to the user login ID.

THE TOOL BAR



THE TOOL BAR PROVIDES EASY ACCESS TO COMMON AND CRITICAL FUNCTIONS, IMPORTANT TO SAFE DAILY OPERATION.

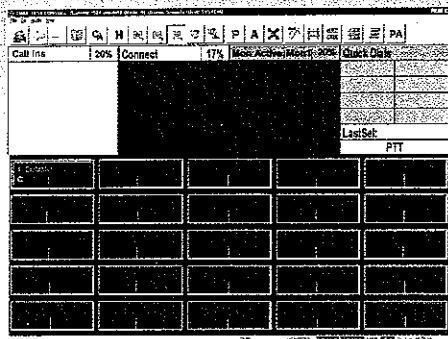
Quick Dials

Quick Dial provides a fast, convenient method to establish a telephone call from the console. Ten quick dial group buttons are displayed on the main console screen. Each button is associated with a sub-directory of quick dial contacts.

Console Databases

MS Access databases associated with the console program store data referenced by the quick and speed dial screens.

NTConsole™ Dispatcher Workstation



◆ Integrates and Manages

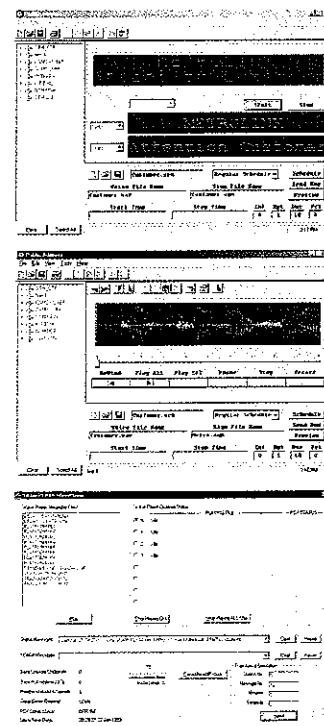
- ◆ Radios
- ◆ Telephones
- ◆ iDEN™ Networks
- ◆ Intercoms
- ◆ Emergency Communications
- ◆ WavWriter™ Passenger Information Messaging

◆ Decode/Encode Radio ANI formats including MDC1200™

◆ Seamlessly multi-task with other 32-bit Windows™ applications

◆ Standard 10/100 BaseT TCP/IP Interface

◆ Open SQL Database for Speed Dial list, Paging list, Selective Call list, iDEN™ User list



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**ISO 9001
Certified**

325 Edwards Avenue
New Orleans, LA 70123
504-733-1700 Fax 504-734-5041
www.penta-corp.com

PCx Communications Control System

Designed for dispatching, public address and other communications management applications, Penta Corporation's PCx Communications Control System integrates the control of radios, telephones, intercoms, PBX circuits, microwave channels, fiber optic lines and consoles into a single, affordable system. Custom software can facilitate networking, multi-tasking, voter steering and a host of other specific system requirements.

Overview

The PCx Communications Control System is based on Penta's proprietary network switch, featuring user-programmability, redundancy and no single point of failure. The non-blocking switch can control up to 512 lines and consoles, and the modular units can be networked to consolidate operations over large areas, providing a central point of control for operations of any size.

Penta's Windows-based control consoles provide touch-screen, mouse, trackball or keyboard control over any or all circuits connected to the network switch. The password-protected consoles allow operators to access radios, telephones and other consoles and to conference an unlimited number of circuits.



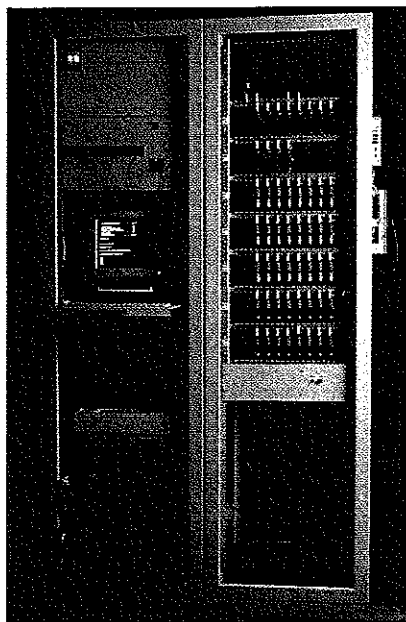
Features

- Integrates the control of all types of electronic communication.
- Offers unlimited patching and conferencing capabilities.
- Employs a non-blocking audio switch matrix design.
- Redundant processors and dual power supplies assure uninterrupted system operation.
- Modular architecture provides for the integration of virtually any number of lines or consoles.
- Custom software can facilitate networking, multi-tasking, voter steering and other specific system requirements.
- Operator consoles are PC-based units available with touch-screen, mouse, trackball or keyboard control.
- Console software runs in both DOS and Windows environments.

Applications

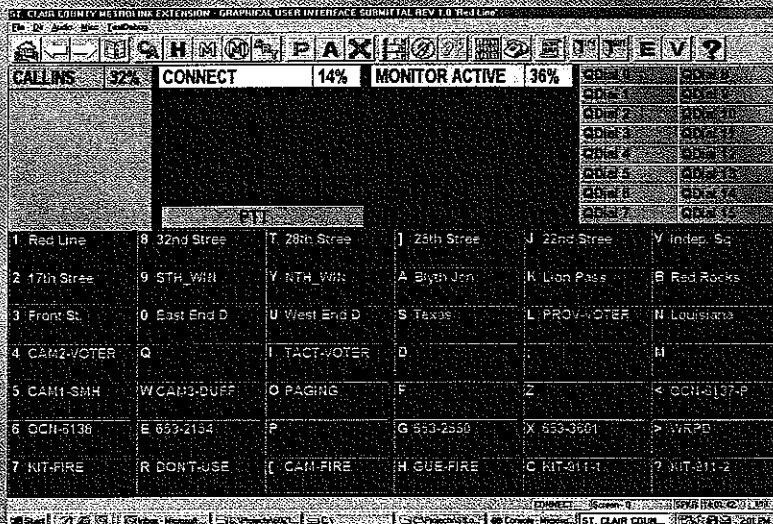
Networking, multi-tasking and interfacing to other subsystems (such as ATS, CAD, CTC, GPS and SCADA systems) are possible with the PCx system. Penta has designed the system for maximum flexibility so customers receive the most efficiently integrated packages available. The company has networked multiple PCx systems together, written console software to run in tandem with other subsystem programs, and combined dispatching and public address control functions in the same system.

The PCx system is evolving continually to incorporate new and innovative technologies. Operators can now create forms and generate faxes from their consoles — without exiting the Penta software. They can transfer data to and from the consoles (via e-mail) and on-line communications services. Data also can be employed to control radios (using ANI and other selective call protocols).



PENTA CORPORATION

PCx Communications Control System



Interface Cards

Microprocessor-based line interface cards provide the interface between the PCx system and most types of two- and four-wire communications circuits. Only one type of line card is used in the system; no special interface boards or control modules are required to communicate with various types of lines. Additionally, user programmability and configurability have been designed into the card to permit field adjustment of signaling and line designations.

Other unique features of the line interface card include adjustable transmit and receive levels, DTMF in and out, transformer isolation, voice activity detection (VOX) and receive-line compression. The line card also is available with a modem, a logging recorder output, a digital front end and other optional modules.

Operator consoles communicate with the PCx system via console interface cards and console audio cards. The console interface card provides the mechanism by which the console communicates with the switch. The console audio

card supports the audio portion of the console's operation with isolation, filtration, amplification and compression capabilities.

Console Configurations

A variety of console configurations are available with the PCx system. Typical console hardware consists of a fully equipped Pentium PC, a color SVGA monitor, a Penta PCx interface and associated audio components. The operator interfaces with the console via touch-screen, mouse, trackball or keyboard provided with each console position. Screen presentations are well-organized to facilitate quick access to all functions.

Penta console software is Windows-compatible to provide a level of systems integration unattainable with any other communications control system on the market. Desktop, phone-type consoles are also available with the PCx system.

Specifications

Line Types

Two-Wire
Four-Wire
Six-Wire (E/M)

Systems

PBX/Key
Radio (VHF/UHF, Individual, Multi-Dropped, Voted)
Microwave
Fiber Optic
Private Line
Metallic Pair
Trunked Radio
iDEN™ Networks

Signaling

DTMF In/Out
Pulse/Tone Dial
E/M LEAD
Voltage In/Out
Current In/Out
2175 Hz Tone
EIA Tones
20 Hz Ringout
VOX (Voice Activated)
CDRC
TRC
FSK, PSK, MSK
*/#
Penta Code
Loop/Ground Start
User-Defined DTMF Codes
TTY/TDD

Environment

0 °C to +50 °C, 90% Humidity, Non-Condensing

Power

120 Volts (60 Hz)

Configuration Options

256 Devices (Lines and Consoles) in Standard Mode
512 Devices in Expanded Mode
Virtually Unlimited Number of Devices in Network Mode

Technical

Total Harmonic Distortion of any Audio Path in the PCx: <2%
Frequency Response: 300-3300 Hz +/- 1 db
Crosstalk: <-60 db
Maximum System Connection Time: 50 ms
Maximum PTT Time: <50ms
DTMF Decode: Dynamic Range = 30 db, Twist = +10 db
Acceptable Signal to Noise Ratio = 14 db
Tone Encode Resolution = +/-75 Hz, Mic Input Range to -80 db
Compatible with FSK, PSK, MSK, ANI and ALI Protocols

PENTA CORPORATION

325 Edwards Avenue
New Orleans, LA 70123
504-733-1700 Fax 504-734-5041
www.penta-corp.com