



Electronic Bidding Status

2002 Trns•port User Group Meeting

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In a Nutshell

- Expedite continues to grow
 - More functionality
 - More users
- Bid Express use is spreading
 - Internet bidding is the driving factor
 - Lots of DOT success stories
- We have more ideas for the future



Recent Expedite Releases

- **5.0a** **December 17, 2001**
 - Major new release
 - Bid bond data and verification
 - Bidder entered item quantities
 - Windows version of PATCH
- **5.0a-1** **February 18, 2002**
 - Minor fixes and enhancements
- **5.1a** **June 28, 2002**
 - Cost+Time bidding
 - More DOT configurability



Expedite's Functional Growth Over the Years

Version	Functions Added
1.x	Schedule of Items, DOS program
2.x	Item import/export, still DOS
3.x	DBE commitments, miscellaneous data entries
4.x	Digital signatures, web integration, in Windows
5.x	Bid bonds, cost+time, still Windows More than 200,000 lines of code!



Expedite 2.6a

```
Command Prompt - BID.EXE

                                Electronic Bid System 2.6b
Bidder: ITI-01 - Info Tech, Inc.
Contract ID:                    Letting Date:                Call Order:
Description:

Line Item                        Quantity Unit            Unit Price            Extension

[Empty table area]

                                [ <Esc> to exit ]

File:                               Bid Total
                                Copyright (c) 1996 by AASHTO
F1-Help F2-Load F3-Save F4-Check F5-Print F6-Info F7-Import F8-Export F9-Ind/Jnt
```



Expedite 4.3b

Expedite Bid - 20sep005.EBS (0 Amendments) B31093-02-000-0

File Edit Tools View Help



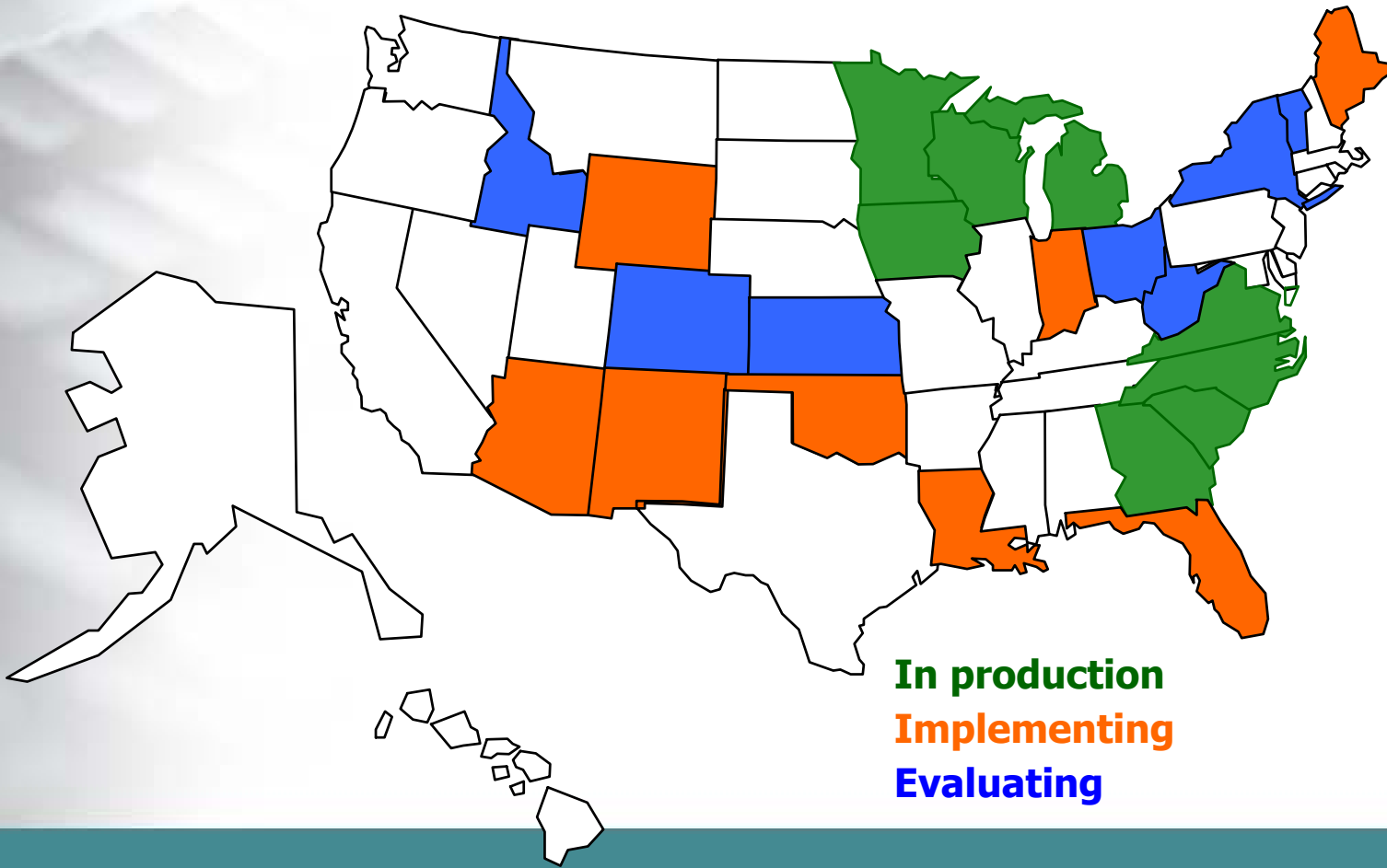
- 20Sep005
 - Schedule Of Items
 - Miscellaneous Data

Line	Item	Quantity	Unit	Unit Price	Extension
Section 0001					\$2,057,282.00
ROADWAY					
0005	150-1000 TRAFFIC CONTROL - SAMA-206-C0(3) 01	LUMP	LS	\$5,000.00000	\$5,000.00
0010	150-1000 TRAFFIC CONTROL - SAMA-31(72) 01	LUMP	LS	\$10,000.00000	\$10,000.00
0015	231-1200 MISC CONSTR, RDS, STS AND DRIVEWAYS	200.000	EA	\$4.00000	\$800.00
0020	318-3000 AGGR SURF CRS	1,035.000	TN	\$5.00000	\$5,175.00
0025	402-1812 RECYL AC LEVELING,INC BM&HL	13,947.000	TN	\$6.00000	\$83,682.00
0030	402-3130 RECYL AC 12.5MM SP,GP2,BM&HL	69,329.000	TN	\$7.00000	\$485,303.00
0035	413-1000 BITUM TACK COAT	66,900.000	GL	\$8.00000	\$535,200.00
0040	429-1000 RUMBLE STRIPS	6.000	EA	\$9.00000	\$54.00
0045	432-5010 MILL ASPH CONC PVMT,VARB DEPTH	101,384.000	SY	\$8.00000	\$811,072.00
0050	456-2015 INDENT RUMBLE STRIPS - GRND-IN-PL (SKIP)	31.000	GLM	\$7.00000	\$217.00
0055	647-6090	6.000	EA	\$6.00000	\$36.00

Proposal Total: \$2,057,282.00



Bid Express States



In production
Implementing
Evaluating



Internet Bidding States have Quadrupled Since Last TUG

- Georgia September 17th, 1999
- Iowa April 3, 2001
- Michigan November 2, 2001
- North Carolina November 20, 2001
- Minnesota January 19, 2002
- Virginia February 11, 2002
- South Carolina March 12, 2002
- Wisconsin August 13, 2002



Bid Express's Functional Growth Over the Years

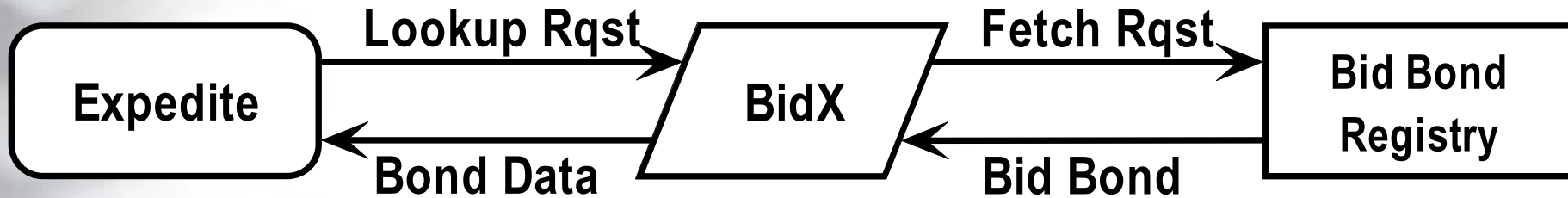
- 1997 Publication of letting schedule, items, Expedite files, and tabulations
- 1998 Support multiple states, file attachments
- 1999 Digital signature infrastructure, Internet bid submission
- 2000 More DOT self-management via web pages and Bid Express retrieval console
- 2001 Bid bond integration with sureties
- 2002 Shopping cart to order physical items



Recent Addition: Electronic Bid Bonds

- Bidder enters bond identification number into Expedite
- Expedite contacts Bid Express to look up bond information
- Bid Express connects to bond verification services
 - Surety 2000 and InsureVision as of now
- Expedite locks returned information against user editing

Bid Bond Data Flow



Note: same protocol is used with all surety verification services



What's Next?

- In Progress
 - On-line Plan Sheets (Bid Express)
- Further Ideas
 - Integrate plan sheets with Expedite, too
 - Enhance subcontract quote work flow
 - Use Bid Express for Expedite file storage
 - Support an all on-line “one minute bid letting”



On-line Plan Sheets

- Only affects Bid Express (for now, at least)
- Conceptually simple; just treat plan sheets like any other file attachment in the system
- But there are unique issues
 - How does a DOT capture them electronically?
 - What technology is available for viewing and printing?
 - Can we serve such large files in reasonable times and affordable bandwidth?



Idea: Integrate Plan Sheets with Expedite

- Make it appear to the user that plan sheets are available on another Expedite tab
- Actually leave the plan sheets on Bid Express, and fetch (and cache) on first use
 - Requires incorporating viewer software into Expedite
 - See Estimator 2 web integration prototype
- Assists users in managing all information related to a proposal



Idea: Enhance Subcontract Quote Work Flow

- Support quotes like we do bidding
- Key differences
 - Private solicitation of quotes
 - Quotes not sealed
 - Quotes are often negotiated after submission
- Benefits
 - Faster communications
 - Elimination of errors and disputes
 - Potential to increase pool of subcontractors



Idea: Use Bid Express for Expedite File Storage

- Now, a bidder downloads a bid file from Bid Express to PC, and processes it locally
 - Expedite submits to Bid Express when complete
 - Addenda are handled the same way
- There are data management, security, and back up responsibilities placed on the user
- Thanks to the encryption infrastructure created for bid submission, all files could be stored on-line without disclosing their contents

Idea: “One Minute Bid Letting”

- One DOT has is already requiring Internet bid submission
 - More are certain to follow
- Current DOT workflow of “download, process, upload” data can be automated
- Software would download bids to DOT, process them, and upload them immediately
 - Download needed for decryption no matter what
- Letting might take more than “one minute”
 - But not much more

Summary

- Expedite continues to be the *de facto* standard for DOT electronic bidding
- Internet bidding has entered the mainstream
 - Usually voluntary, and still very popular
 - Legal, procedural, user acceptance issues can all be resolved
- How many DOTs will be accepting Internet bids next year?



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