

1995-96 SESSION
COMMITTEE HEARING
RECORDS

Committee Name:

Joint Committee on
Finance (JC-Fi)

Sample:

Record of Comm. Proceedings ... RCP

- 05hrAC-EdR_RCP_pt01a
- 05hrAC-EdR_RCP_pt01b
- 05hrAC-EdR_RCP_pt02

➤ Appointments ... Appt

➤ **

➤ Clearinghouse Rules ... CRule

➤ **

➤ Committee Hearings ... CH

➤ **

➤ Committee Reports ... CR

➤ **

➤ Executive Sessions ... ES

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➤ Hearing Records ... HR

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➤ Miscellaneous ... Misc

➤ 95hrJC-Fi_Misc_pt92

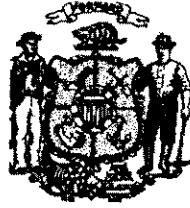
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STATE OF WISCONSIN

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ASSEMBLY CHAIR
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JOINT COMMITTEE ON FINANCE

February 15, 1996

Mr. James R. Klauser, Secretary
Department of Administration
101 East Wilson Street, 10th Floor
Madison, WI 53707

Dear Secretary Klauser:

On January 26, 1996, the Departments of Justice and Administration submitted a plan to the Committee for the enhancement of the Transaction Information for the Management of Enforcement (TIME) system. Under 1995 Act 27, a plan to convert the TIME system to a client-server system and to meet federal crime information standards was required to be submitted to the Committee for approval under a 14-day passive review process. The two agencies appear to have reached consensus on the redesign of the system. However, while DOJ indicates that additional staff resources are needed for the implementation of the plan, DOA indicates that the need for new state positions is unclear and requires further evaluation.

The Committee has no objections to the plan for redesigning the TIME system, as agreed to by DOJ and DOA. Pursuant to this approval, DOA is authorized to allocate \$533,200 SEG from unallotted reserve (under s. 20.455(2)(q)) to begin implementation of the plan. Additional SEG position authority would require approval by the Committee under s. 13.10 of the statutes. Any request should provide a full description and evaluation of redesign functions that require state staff resources, as well as of those functions that could be contracted for.

Handwritten signature of Tim Weeden in cursive.

TIM WEEDEN
Senate Chair

Sincerely,

Handwritten signature of Ben Brancel in cursive.

BEN BRANCEL
Assembly Chair

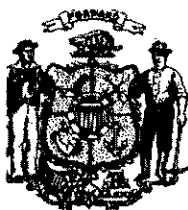
TW/BB/kc

cc: Members, Joint Committee on Finance

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JOINT COMMITTEE ON FINANCE

February 9, 1996

Mr. James Doyle
Attorney General
114 East, State Capitol
Madison, WI 53702

Dear Attorney General:

On January 26, 1996, the Committee received a plan for the enhancement of the Transaction Information for the Management of Enforcement (TIME) system. Under 1995 Act 27, a plan was to be jointly developed by the Departments of Administration and Justice to convert the TIME system to a client-server system and to meet federal crime information standards. Act 27 required that the plan be submitted to the Cochairpersons of the Joint Committee on Finance no later than January 1, 1996, under a 14-day passive review process.

Because the Committee did not receive the plan until January 26, 1996, we are notifying you that the 14-day review period will begin on that date. Therefore, the plan will be approved, and segregated funds could be allocated for the project, unless an objection is raised by February 15, 1996. It should also be noted that any request for additional staff would require action by the Committee at a meeting under s. 13.10 of the statutes.

Sincerely,

Handwritten signature of Tim Weeden in cursive.

TIM WEEDEN
Senate Chair

Handwritten signature of Ben Brancel in cursive.

BEN BRANCEL
Assembly Chair

TW/BB/dr

LAH

STATE OF WISCONSIN

SENATE CHAIR
TIM WEEDEN



ASSEMBLY CHAIR
BEN BRANCEL

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JOINT COMMITTEE ON FINANCE

February 9, 1996

Mr. James Klauser, Secretary
Department of Administration
101 East Wilson Street, 10th Floor
Madison, WI 53707

Dear Secretary Klauser:

On January 26, 1996, the Committee received a plan for the enhancement of the Transaction Information for the Management of Enforcement (TIME) system. Under 1995 Act 27, a plan was to be jointly developed by the Departments of Administration and Justice to convert the TIME system to a client-server system and to meet federal crime information standards. Act 27 required that the plan be submitted to the Cochairpersons of the Joint Committee on Finance no later than January 1, 1996, under a 14-day passive review process.

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TIM WEEDEN
Senate Chair

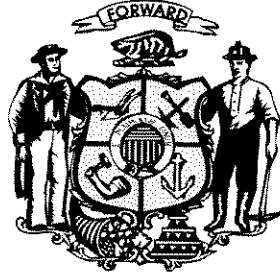
Handwritten signature of Ben Brancel in cursive script.

BEN BRANCEL
Assembly Chair

TW/BB/dr

STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
101 East Wilson Street, Madison, Wisconsin

TOMMY G. THOMPSON
GOVERNOR
JAMES R. KLAUSER
SECRETARY



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January 17, 1996

The Honorable Timothy Weeden, Co-Chair
Joint Committee on Finance
37 South, State Capitol Building
Madison, WI 53703

The Honorable Ben Brancel, Co-Chair
Joint Committee on Finance
107 South, State Capitol Building
Madison, WI 53703

Dear Senator Weeden and Representative Brancel:

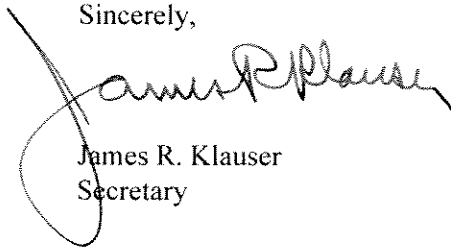
Pursuant to Section 9159 (12g) of 1995 Wisconsin Act 27, the 1995-97 biennial budget act, this letter submits for your review and approval a plan for the redesign of the Department of Justice TIME system.

As required by Act 27, staff in both the Department of Administration (DOA) and the Department of Justice (DOJ) worked jointly to develop the attached plan. Overall, I believe both departments have successfully developed a road map for the redesign of the TIME system and I concur with the general direction of moving to a client server- based system as outlined in the proposal. However, it is not clear that additional state staff are required to meet the objectives of the redesign. Therefore, I have directed staff in the DOA Division of Technology Management to continue to work with DOJ to further evaluate the staffing pattern required to successfully implement the redesign work. Specifically, we will look further at the feasibility of outsourcing for redesign services as well as reallocating base positions to meet staff needs. Upon the Committee's approval of the plan, DOA will release from unallotted reserve \$533,200 of segregated funding under s. 20.455 (2)(q) to enable DOJ to proceed with implementation of the redesign. The funding related to the requested positions will remain in unallotted reserve until additional options have been explored.

The redesign of the TIME system is an ambitious effort to improve a very critical application. While client server technology offers new opportunities, it also offers new challenges. Under our statutory responsibilities, DOA will continue to monitor DOJ's progress in developing and implementing the new system and will offer assistance when necessary.

If you have any questions regarding our department's review of this report, please direct them to Bruce Reines in the Bureau of Technology Policy & Planning, Division of Technology Management.

Sincerely,

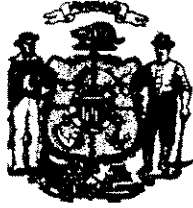
A handwritten signature in black ink, appearing to read 'James R. Klauser', is written over a large, stylized flourish that loops around the signature. The signature is written in a cursive, somewhat slanted style.

James R. Klauser
Secretary

STATE OF WISCONSIN

SENATE CHAIR
TIM WEEDEN

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JOINT COMMITTEE ON FINANCE

January 29, 1996

TO: Members, Joint Committee on Finance

FROM: Senator Tim Weeden
Representative Ben Brancel
Co-Chairs, Joint Committee on Finance

RE: 14 Day Review
Department of Justice
Plan to update the law enforcement information system known as TIME

Attached is a copy of a request from the Department of Justice for a 14-day review for approval of a plan to update the law enforcement information system operated by the Department, known as the TIME system pursuant to Section 9159(12g) of 1995 Wisconsin Act 27.

Please review this plan and notify Senator Tim Weeden's office not later than February 14, 1996 if you have any concerns about the plan or would like the Committee to meet formally to consider it.

Also, please contact us if you need additional information.

Sincerely,

Handwritten signature of Tim Weeden in cursive script.

TIM WEEDEN
Senate Chair

Handwritten signature of Ben Brancel in cursive script.

BEN BRANCEL
Assembly Chair

TW:BB:dr

Attachments

STATE OF WISCONSIN

SENATE CHAIR
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JOINT COMMITTEE ON FINANCE

January 30, 1996

Mr. James Klauser, Secretary
Department of Administration
101 East Wilson Street, 10th Floor
Madison, WI 53707

Dear Secretary Klauser:

On January 26, 1996, the Committee received a plan for the enhancement of the Transaction Information for the Management of Enforcement (TIME) system. Under 1995 Act 27, a plan was to be jointly developed by the Departments of Administration and Justice to convert the TIME system to a client-server system and to meet federal crime information standards. Act 27 required that the plan be submitted to the Cochairpersons of the Joint Committee on Finance no later than January 1, 1996, under a 14-day passive review process.

Because the Committee did not receive the plan until January 26, 1996, we are notifying you that the 14-day review period will begin on that date. Therefore, the plan will be approved, and segregated funds could be allocated for the project, unless an objection is raised by February 15, 1996. It should also be noted that any request for additional staff would require action by the Committee at a meeting under s. 13.10 of the statutes.

Sincerely,

TIM WEEDEN
Senate Chair

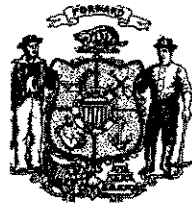
BEN BRANCEL
Assembly Chair

TW/BB/dr

STATE OF WISCONSIN

SENATE CHAIR
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JOINT COMMITTEE ON FINANCE

January 30, 1996

Mr. James Doyle
Attorney General
114 East, State Capitol
Madison, WI 53702

Dear Attorney General:

On January 26, 1996, the Committee received a plan for the enhancement of the Transaction Information for the Management of Enforcement (TIME) system. Under 1995 Act 27, a plan was to be jointly developed by the Departments of Administration and Justice to convert the TIME system to a client-server system and to meet federal crime information standards. Act 27 required that the plan be submitted to the Cochairpersons of the Joint Committee on Finance no later than January 1, 1996, under a 14-day passive review process.

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Sincerely,

TIM WEEDEN
Senate Chair

BEN BRANCEL
Assembly Chair

TW/BB/dr



STATE OF WISCONSIN
DEPARTMENT OF JUSTICE

1-26-96

JAMES E. DOYLE
ATTORNEY GENERAL

Burneatta L. Bridge
Deputy Attorney General

114 East, State Capitol
P.O. Box 7857
Madison, WI 53707-7857
608/266-1221
V/TTY 608/267-8902

December 28, 1995

The Honorable Timothy Weeden
Co-Chair, Joint Finance Committee
37 South, State Capitol
Madison, Wisconsin 53702

The Honorable Ben Brancel
Co-Chair, Joint Finance Committee
107 South, State Capitol
Madison, Wisconsin 53702

Dear Senator Weeden and Representative Brancel:

I am pleased to submit for your approval a plan to update the law enforcement information system operated by the Department of Justice, known as the TIME system.

The 1995-97 Biennial Budget required that the Department of Justice and the Department of Administration "jointly and cooperatively develop a TIME System plan to convert the TIME System to a client/server system and to meet federal crime information standards." The plan is to be submitted to your Committee by January 1, 1996.

Both the Department of Justice and the Department of Administration have worked diligently and cooperatively to develop the plan which we now submit to you. The plan, called TIME-2000, will use the latest technology to provide law enforcement agencies throughout the state with up-to-date criminal history records, telecommunications services, and electronic mail. It will also allow the state to be in full compliance with new federal standards for crime information systems.

The plan includes a request for additional resources to allow full implementation of the plan. If the requested resources are approved by your Committee, TIME-2000 can become a reality by the end of 1997.

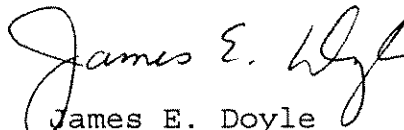
Your approval of this plan is extremely important to the needs of Wisconsin law enforcement. In this age of technology, fast, accurate information and communication is one of the most important tools which law enforcement officers can use to apprehend criminals, prevent crime, and protect themselves. We believe this plan greatly enhances the ability of law enforcement to do their job of protecting the public.

December 28, 1995

Page 2

I hope you will approve both the plan and the resources needed for its full and timely implementation.

Sincerely,

A handwritten signature in cursive script that reads "James E. Doyle". The signature is written in dark ink and is positioned above the typed name.

James E. Doyle
Attorney General

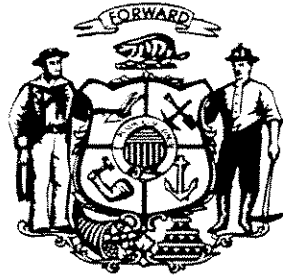
JED:sg

Enclosure

cc: Members of Joint Finance Committee

STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
101 East Wilson Street, Madison, Wisconsin

TOMMY G. THOMPSON
GOVERNOR
JAMES R. KLAUSER
SECRETARY



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January 17, 1996

The Honorable Timothy Weeden, Co-Chair
Joint Committee on Finance
37 South, State Capitol Building
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Sincerely,

A handwritten signature in cursive script that reads "James R. Klauser".

James R. Klauser
Secretary

Department of Justice
Criminal Justice Computer Network

TIME-2000
PLANNING FOR THE FUTURE

Prepared for:

The Joint Committee on Finance
December 28, 1995

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EXECUTIVE SUMMARY

The Department of Justice plans to move the TIME System off its current mainframe platform by December of 1997. The processing and data base functions associated with the TIME System will be transferred to a client/server environment. Work is scheduled to begin in early 1996. A client/server approach which will limit the need for local law enforcement agencies to purchase or write new software will be utilized.

This rewrite will benefit the law enforcement community in several ways. The Department of Justice will be able to make available additional communications protocols which have been requested by a number of user agencies. These protocols will improve the TIME System's ability to communicate with other law enforcement networks and other state agencies, such as the Department of Natural Resources. Law enforcement organizations will gain access to new files including the Department's intelligence file known as WisLEIN and an E-mail system.

This plan was recommended by a planning team that considered three client/server approaches. The team included representatives from DOJ, the Department of Administration, and the Department of Transportation. This group spent three days discussing user needs, department expectations, and current technology before making a recommendation. This proposal has the full support of the Department of Justice and DOA's Division of Technology Management.

The rewrite process will include an ongoing dialogue with the TIME Advisory Committee which represents customer agencies. DOJ will review system requirements with this group to ensure our plans meets the future needs of Wisconsin's law enforcement agencies. An in-house team will also review and evaluate current vendor offerings to determine if outsourcing any segments of this project is a viable alternative.

Additional resources, both staff and equipment, will be needed to complete this project. This project will be developed on a client/server platform using widely accepted data base software. Personnel costs will include a number of IT staff and a customer support position. Most of the staff will be hired as project employees for the duration of the rewrite.

BACKGROUND

History of the Criminal Justice Computer Network

The Transaction Information for the Management of Enforcement network, or TIME System, was developed in 1972 to provide law enforcement agencies with telecommunication services and access to critical criminal justice information. Prior to that time, only the Crime Information Bureau and a few Wisconsin law enforcement agencies were connected to the FBI's National Crime Information Center (NCIC) computer.

Today, more than 230 Wisconsin police agencies with more than 1800 devices are interconnected through the TIME System. This network gives them access to 400 different transactions and over 72,000 other law enforcement agencies nationwide. The TIME System computer, managed by the Department of Justice, serves as the hub of the network. The last major rewrite of the TIME System occurred in 1989.

TIME System users can immediately check wanted status on persons or check for stolen status on vehicles, guns, boats, articles and securities. Police agencies can obtain criminal history records through this network. They also can determine if a subject is on probation or parole or if he or she is considered a violent felon.

The complex communications network that makes up the TIME System also gives law enforcement agencies access to driver and vehicle registration information from Wisconsin, other U.S. states and territories, and the Canadian provinces and territories. This network also links police departments with the Department of Natural Resources boat, snowmobile and hunter registration files.

The Director of the Crime Information Bureau (CIB) is Wisconsin's designated "Control Terminal Officer". This position is required by the FBI. In addition to the TIME Agency Coordinator and CIB's Training Services Section, the TIME System is supported by one full-time programmer, a part-time database administrator, a part-time telecommunication/system-software administrator, and several computer operators.

Upgrading the System

The current mainframes on which the TIME System runs have been declared obsolete by the vendor. DOJ anticipates that they will handle demand through 1997, but a new platform must be found. In its 1995-97 budget request, the Department asked for a number of staff positions to assist in the migration of the TIME System to a new environment.

The DOJ proposal recommended that the new TIME System be developed on DOJ's UNIX client/server platform. This technology is also commonplace in other state agencies.

The limited life span of the current mainframes was only one reason for the DOJ budget proposal. The Department must bring the TIME System into compliance with the objectives of NCIC-2000, an enhanced national law enforcement computer system standard which will include image transfer. In addition, technology has changed since the DOJ mainframes were purchased. The current telecommunications protocol has been replaced by new network protocols. For all these reasons, a new infrastructure must be built to provide for future growth and network flexibility for the TIME System.

The Budget Compromise

The Governor's budget proposal also recommended moving the TIME System off of the current mainframes, shifting TIME System processing to the InfoTech mainframe computer at the Department of Administration.

The budget resolution approved by JCF called for DOJ and DOA to "jointly and cooperatively develop a TIME System plan to convert the TIME System to a client/server system and to meet federal crime information standards". This plan was developed in accordance with the JCF directive.

THE PLAN FOR CONVERSION

The Team Process

In accordance with the JCF resolution, the Department of Justice and Department of Administration named a nine-member TIME-2000 team (see Appendix A for a listing of team members). Team members included computing services and customer personnel from the Department of Justice, an IT staff director from the Department of Administration, and an IT supervisor from the Department of Transportation.

A two-day planning session was held in mid-August. The team mission was to design a law enforcement computer system that will serve and assist all police officers in the State of Wisconsin (see Appendix B). Prior to developing client/server models, the team discussed high level system requirements, issued to be resolved, and evaluation criteria. After consensus was reached on these items, team members began working on model development.

Approximately eight proposals were put on the table, but the team agreed all of these proposals fell into one of three categories. More specifics regarding each model were developed and shared with team members at a meeting in late September.

Option #1 was termed the "Centralized Approach". Client software will reside on personal computers located at law enforcement agencies. When a client selects a transaction, it will be transmitted to the Department of Justice message switch via the BadgerNet data communications network. The DOJ message switch, located on a server, will route the message to other servers on the network. The law enforcement data base files and criminal history records maintained by DOJ will also be transferred from the mainframe environment to a client/server platform.

The benefits of the Centralized Approach include a high degree of control over access, security and activity logging which is important to the law enforcement community. It can be implemented in the shortest time period without requiring any changes from the user community. It is flexible and extensible, and provides equal options to all users.

The Centralized Approach will require a second site for disaster recovery. Also, since all message traffic continues to flow through a central site, bottlenecks could develop during high use times.

Option #2 was termed the "Distributed Approach." Highly sophisticated client software would be developed for user agencies. The client software would allow law enforcement agencies to communicate directly with any information provider or servers

on the network. Individual agencies could develop specific transactions to communicate with the Department of Transportation or the Department of Natural Resources.

Because network traffic would be distributed to various servers, bottlenecks would be eliminated. Direct communication between the client and the server through open interface specifications would give law enforcement agencies more flexibility in the types of responses and reports they could generate through the network.

The Distributed Approach would be the most difficult and time-consuming model to make operational. Equality would be hard to maintain because user agencies have varying degrees of technical knowledge and skills. Each server would need a disaster recovery site. Monitoring this network would be difficult and support requirements, both at DOJ and user agencies, would be significant.

This option would also require software changes at every user site. The TIME System software currently provided by DOJ would be rendered obsolete. Local law enforcement interface agencies would need to rewrite their entire systems.

Option #3 was termed the "Regional Approach". Local law enforcement agencies would send transactions to a regional process server which would then route the message to other servers on the network. This proposal is a mid-point between the centralized and distributed models.

Regional sites could reduce the costs of system connection because local agencies could use local phone lines to connect to the regional site. The regional server could provide a connection point to local law enforcement databases within that region. Finally, each regional processor could serve as a "hot site" for the other servers in the event of a disaster.

On the negative side, it may be difficult to agree on where the regional sites should be located and how the costs of operating those sites would be distributed. All sites would have to be ready before the network cutover could take place. This proposal, similar to Option #2, would demand software changes at every user site and would also require interface agencies to rewrite their local systems.

(A graphical presentation of each option is found in Appendix C. Each model is followed by the assumptions, pro's, con's, resource requirements, and target date of implementation for each proposal.)

After evaluating the options based on system needs and requirements, the team agreed that the centralized approach (option #1) was the most feasible while the distributed approach (option #2) offered the widest variety of service to users. However, the team recognized that the distributed approach could not be developed without laying

the foundation of the centralized approach first. The team agreed that DOJ should begin the development of a client/server TIME System using the centralized approach. This would provide a solid foundation for a network that will evolve into a distributed model as technology continues to improve.

Support for the Plan

The Departments of Justice and Administration have reviewed the process and the alternatives and support the general recommendation of the re-write team. Current staff have already begun exploring the migration of the current network to a client/server environment. The centralized approach will provide the infrastructure for our new network. Unlike the mainframe environment, this will not be a stagnant system. Once the infrastructure is in place, DOJ staff will continue to work with user agencies to develop a distributed network.

The pace of this maturation will be dictated by technological advances and user needs. The advantage of a client/server platform is flexibility and extensibility. With a sound infrastructure in place, DOJ will be able to manage network growth well into the next century.

Resource Requirements

The migration from the mainframe platform to a client/server environment is not a simple task. The Department of Justice will need significant resources, both equipment and people, to complete this project.

The Department of Justice proposes to spend approximately \$3.3 million to implement the centralized model. This is just about half of what it cost for TIME System mainframe hardware alone in 1989.

DOJ has a number of other applications that use or will use a client/server platform. These applications include the Wisconsin Law Enforcement Intelligence Network (WisLEIN) and the Computerized Criminal History database. It is our plan to share certain developmental and diagnostic software tools with those applications. Grant money slated for those projects will purchase many of these tools.

We are requesting 5.0 new positions to supplement our current staff on this project. These positions are part of the mix which will include outsourcing various aspects of design and programming and perhaps the purchase of segments of the system. Two IT applications development 2-year project staff are needed beginning April 1, 1996. The IT technical support unit will also require 2.0 additional staff persons. These will be

three-year project positions with a start date of July 1, 1996. Finally, the Crime Information Bureau will need a Planning and Program Analyst for the duration of this project. We envision that two-year project position will need to be filled on April 1, 1996. This analyst, under the direction of the TIME Agency Coordinator, will research state and national policies as they relate to the system upgrade and compliance with NCIC-2000. The TIME Agency Coordinator and the analyst will represent CIB and their customers on the project design team. They will provide the law enforcement perspective to ensure that the system design meets the needs of Wisconsin law enforcement and NCIC-2000.

A detailed budget for this project is included in Appendix D. DOJ plans to research the marketplace to determine if there are any already developed products that can meet our needs with minor modifications. However, there will be staff and equipment needs even if parts of this project can be outsourced. This budget outlines the basic resources needed for this re-write. The money budgeted under "other contractual services" will be used one of two ways; to purchase a vendor package(s) or to hire contract staff to help build a system. If a package is purchased, DOJ would finance the acquisition through the state's master lease program. This would allow us to pay for the purchase over a 3-5 year time frame and leverage the SEG funds set aside for this project.

CONCLUSION

The current TIME System mainframes must be replaced and state-of-the-art technology needs to be incorporated into the TIME System. Client/server is the platform that will best meet the future needs of Wisconsin's law enforcement community. With adequate resources, the Department of Justice can migrate the TIME System from the mainframe platform to a client/server environment by the end of 1997 and be well on the way to compliance with NCIC-2000.

The legislature has set aside Department of Transportation SEG money for this project. Recognizing the important link between DOT and the law enforcement community, SEG money has been used for TIME System upgrades since FY90. We request to use the full amount of \$1,048,500 SEG appropriation in FY96, including the amount currently held in unallotted reserve. Since this is a long-term project, a similar amount must be included in DOJ base funding in FY97 and FY98. Our budget projection indicates more than \$1,000,000 in SEG money will be needed in each of those fiscal years to complete this project while maintaining our current hardware and software until this project is done.

This is a very complex project and we have put forward a conservative budget. We do, however, expect to stay within that budget. If unforeseen forces require changes to our plan, any additional expenditure authority will be justified to JCF in a further request.

This proposal was developed through a cooperative effort between the Departments of Justice, Administration and Transportation. Work on this project will begin in earnest as soon as the necessary resources are made available.

APPENDIX A

TIME-2000 Planning Team

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Department of Justice

Recorder:

Sharon Miemietz
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Department of Justice

APPENDIX B

MISSION STATEMENT

The mission of the TIME System Re-Write Planning Team is to design a law enforcement computer system that will serve and assist all police officers in the State of Wisconsin.

- The team will propose three options for the conversion of the TIME System to a client/server environment.
- Each option must meet federal standards (NCIC 2000), consider the needs of system users, and include cost projections and staff requirements for system maintenance, technical support and program development.

APPENDIX C

**CLIENT/SERVER
MODELS**

**Option #1
Centralized Approach**

**Option #2
Distributed Approach**

**Option #3
Regional Approach**

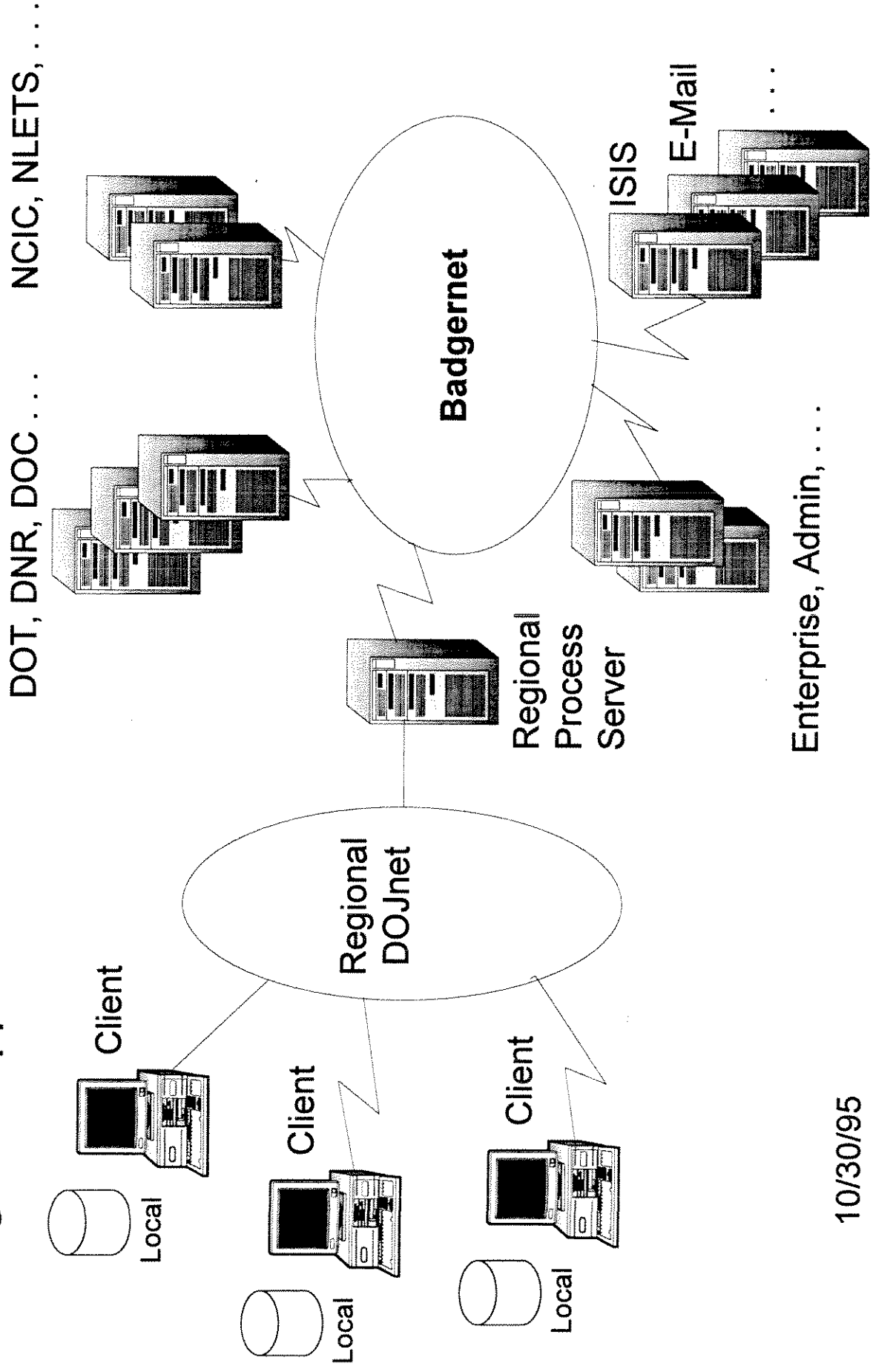
Model 3 - Regional Approach

- Assumptions
 - There will be a minimum of four regions
 - The regional site could be a local police agency
 - DOJ will control all regional servers from a central site
 - All logging messages will be forwarded to a central logging file
- Pro's
 - Cost of the connection to the system could be less
 - Regional databases could be more easily accommodated
 - May provide the foundation for a 'natural' hot-site disaster recovery plan
- Con's
 - Agreement on site selection and how operating costs would be distributed will be difficult
 - All sites would have to be ready for takeover to take place.
- Resources
 - 6 Apps Development, 3 Additional Tech Support at implementation and beyond.
- Target Date 3 to 5 years

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Model 3

Regional Approach



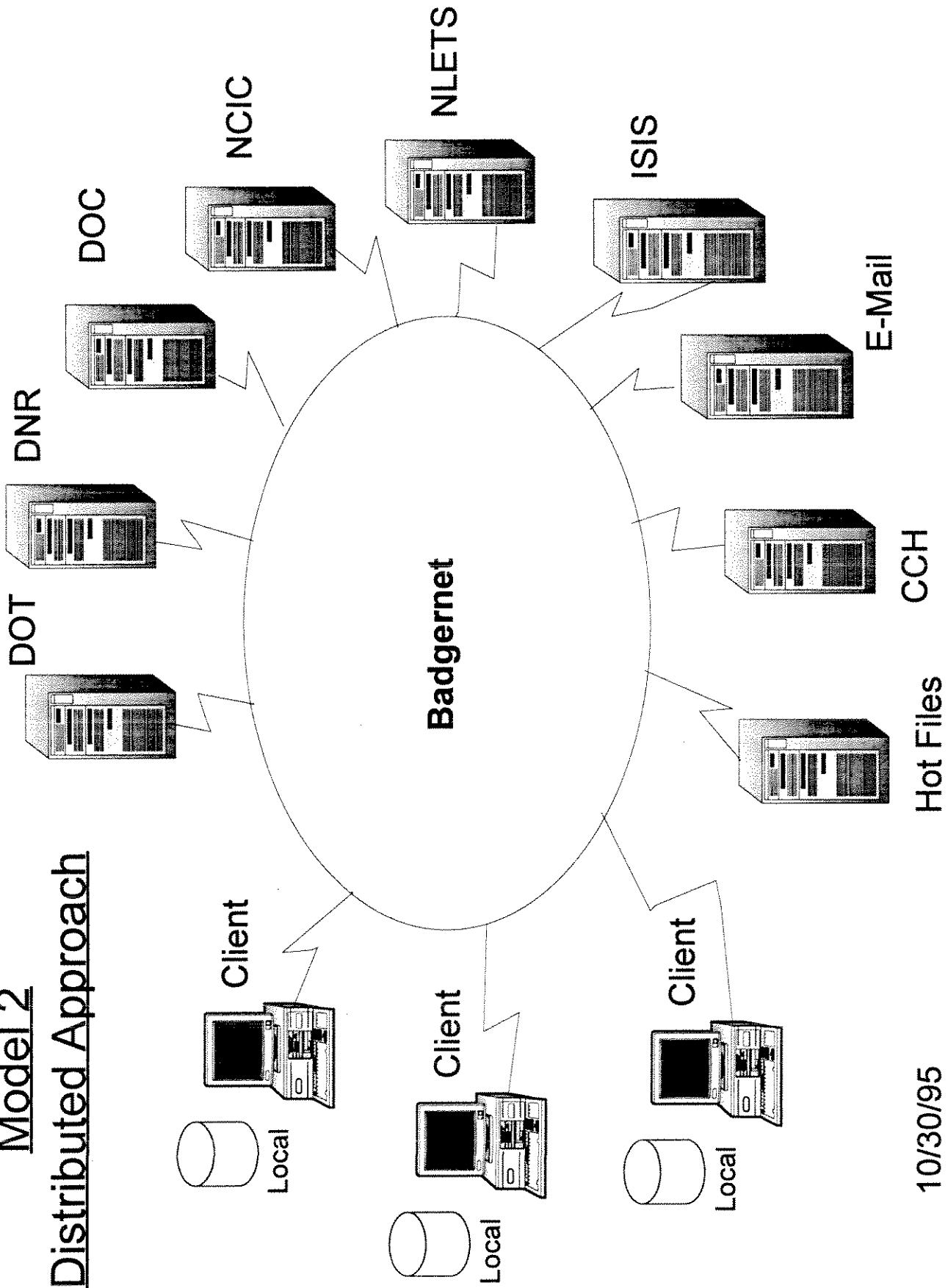
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Model 2 - Distributed Approach

- Assumptions
 - Every Terminal will be a PC
 - A high degree of interagency cooperation
 - Agreement on interface standards can be reached between local, state, and federal agencies
 - A single network protocol
- Pro's
 - Network traffic would be distributed
 - With open interface specifications, reports could be tailored to meet each agency's needs
- Con's
 - Problem determination will be difficult
 - Support requirements are likely to be significant
 - Administrative monitoring will be difficult
 - Each site will have to provide their own disaster recovery hot site
 - Interface standards will be very difficult to establish
 - Equality will be difficult to maintain
- Resources
 - 3 to 5 times the resources needed for Model 1 over a longer period of time
- Target Date 6 to 10 years

10/30/95

Model 2
Distributed Approach



10/30/95

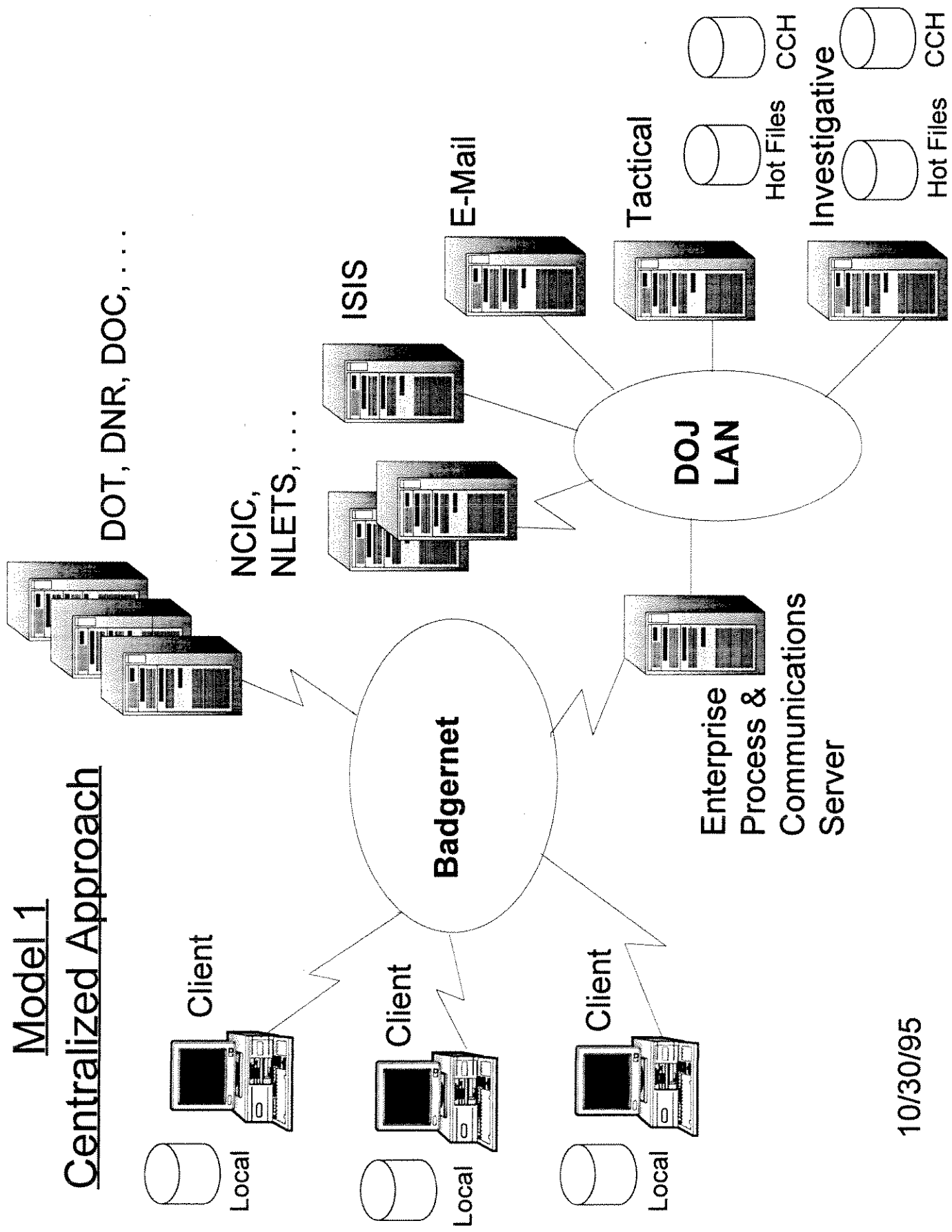
Model 1 - Centralized Approach

- Assumptions
 - All current interfaces (including Vendata) will be supported
 - All current protocols will continue to be supported
 - Only the Hot Files will be 'ready' (converted to a relational database that supports SQL) at cutover
 - Only a very limited number of investigative transactions will be ready at cutover
 - An E-Mail server will be provided
 - Support for TCP/IP will be added
 - A TIME System connection to ISIS will be provided
 - The development project will begin on or before January 15, 1996
- Pro's
 - High degree of control over access, security and activity logging
 - High degree of flexibility and extensibility
 - Does not require user to change the way they interface today
 - Can be implemented in the shortest time
 - Provides equal options
- Con's
 - All message traffic continues to flow through the central site
 - Disaster recovery will require a second site
- Resources
 - 5.3 Apps Development, 3 for Tech Support, and 1 additional support person in CIB
- Target Date End of December 1997

10/30/95

Model 1

Centralized Approach



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APPENDIX D

RESOURCE REQUIREMENTS

BUDGET PROPOSAL

For Fiscal Years 1996, 1997 and 1998

<u>December 19, 1995</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>
<u>Supplies and Services</u>			
Current Mainframe Hardware & Software Maintenance	\$142,400	\$142,400	\$142,400
Communications Protocols			
Network Design Consultant			
500 hours @ \$150/hour	\$ 75,000	-0-	-0-
Client/Server			
Applications Consultant			
1000 hours @ \$50/hour	\$ 50,000	\$ 50,000	-0-
Site Visits (3)			
5-person team	\$ 15,000	-0-	-0-
Software & Related Tools			
Network Managment Tools	\$ 28,159	\$ 28,129	\$ 6,768
Database Monitoring	-0-	\$ 59,119	\$ 8,750
Addl Oracle Licenses	-0-	\$ 46,870	\$ 33,490
Software Development			
Tools	\$ 38,000	\$ 9,500	\$ 9,500
Data Migration Tools	\$ 25,000	\$ 5,125	\$ 5,125
Training			
150 days plus travel	\$ 18,750	\$ 37,500	\$ 18,750
Other Contractual Services			
(FY96 = 2500 hrs. x \$45/hr)	\$112,500	\$187,920	\$187,920
(FY97 & FY98 = software purchase or addl hours at \$45 per hour)			
Staff Supplies/Services			
One-Time	\$ 11,000	-0-	-0-
On-going	\$ 11,065	\$ 44,250	\$ 39,440
<u>Permanent Property</u>			
Purchase of Software License for Current System	\$334,800	-0-	-0-
Server and related software	-0-	\$136,800	\$437,400
Telecommunications modifications to current system during conversion	\$ 80,000	\$ 85,000	-0-
PCs (x 7)	\$ 17,500	-0-	-0-
Furniture (x 7)	\$ 21,000	-0-	-0-
<u>Staff</u>			
Applications Development			
1 - MIS-4 (PROJ/04-01-96)			
Salary (15.068)	\$ 7,865	\$ 32,090	\$ 24,550
Fringe (x .33)	\$ 2,595	\$ 10,590	\$ 8,100
1 - MIS-5 (PROJ/04-01-96)			
Salary (16.307)	\$ 8,515	\$ 34,730	\$ 26,570
Fringe (x .33)	\$ 2,810	\$ 11,465	\$ 8,775
Technical Support			
1 - MIS-4 (PROJ/07-01-96)			
Salary (15.068)	-0-	\$ 32,090	\$ 32,735
Fringe (x .33)	-0-	\$ 10,590	\$ 10,805
1 - MIS-5 (PROJ/07-01-96)			
Salary (16.307)	-0-	\$ 34,730	\$ 35,425
Fringe (x .33)	-0-	\$ 11,465	\$ 11,695
CIB Support			
1 - PPA-3 (PROJ/04-01-96)			
Salary (13.785)	\$ 7,200	\$ 29,360	\$ 22,460
Fringe (x .33)	\$ 2,375	\$ 9,690	\$ 7,415
Current Staff (offset to TIME user fees)			
2 - MIS-4 (PROJ/01-01-96)			
Salary (15.068)	\$ 31,465	\$ 64,180	\$ 65,470
Fringe (x .33)	\$ 10,385	\$ 21,180	\$ 21,610
Budget Totals	\$1,053,384	\$1,134,773	\$1,165,153