



Project Description
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ENCORE
Infrastructure Analysis

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1.0 Contact/ Information Section

Project Name: ENCORE Analysis
PNMS# 407187
Expense# 29278
Date opened: October 20, 1995
Date closed:
Project Manager: Jeff Sicuranza (xxx)xxx-xxxx
Systems Engineer:
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Client: Chase CISG
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Customer Service: xxxx (xxx)xxx-xxxx

2.0 Project summary

CISG is developing a Client/Server based application for an initial 76 users.

This systems comprises a compiled executable Powerbuilder front-end to be loaded by a typical Chase TSG class workstation and access host IBIS and CORE DB2 data. This systems primary use is to create reports about Chase corporate clients that utilize and require status on DDA, Global payments, checking and money transfers accounts.

The information on the mainframe (DB2 based) will be accessed from users via an MDI SQL Gateway. The Gateway will handle all of the CICS and password conversions with a Password Manager module loaded in the same physical gateway. The gateway is currently OS/2 based but will be NT based for production.

A development system is currently in place that simulates 95% of the application function but is OS/2 based. The Front-end will be loaded from the user's application server via IPX and the access to the gateway will be TCP/IP based. The MDI Gateway will communicate to the host utilizing LU 6.2 protocols.

The application data-flows are very basic. There are no AD-HOC query features, all reports are "canned" where a user will click several options for data and a corresponding SQL statement will be used or created and the query sent to the gateway. There are four typical reports that will be used. The details of such reports will be uncovered during the analysis. All data transfer is query based. That means that there is no UPDATE or WRITE traffic. The users will take their report results and use them "as is" or integrate into other reports in MS-WORD or EXCEL.

The initial 76 users are located in the following locations:

Number of users	Location	Home or Application server
22	4CMC 3FL	4CMC03HA000
5	101 Park Ave.	HMA-GR01
17	4CMC 20FL	4CMC20HA00
9	1CMP 50FL	1CMP50HA00
7	4CMC 7FL	4CMC07HA00
16	4CMC 10FL	4CMC10HA00

Summary (continued)

This project requires an AT&T LAN Engineering(AT&T TSG) to perform a Traffic/protocol analysis against the main query functions and application front-end access so the proper determination of gateway placement can be made. Also, to review observations from the analysis and provide advice and/or approval to move forward to release this application to the production environment.

A data flow diagram is supplied with this document as well as a generic infrastructure diagram representing the hierarchy of application traffic. This infrastructure diagram also shows the main ANALYSIS points.

Also, the level of impact on the current infrastructure must be determined before deployment of such application.

The protocols used are TCP/IP, IPX/SPX, 802.5, LU 6.2, SNA, LLC2 802.2, Broadcast protocols and SRB packets.

Customer Objective:Provide production application to 76 users by 12/5.

2.1 Statement of Work Section

Provide recommendations and approval pertaining to optimal location of the ENCORE MDI Gateway and determine the impact of application usage in the local infrastructure.

2.2 Scope of Work Section

1. AT&T will perform a protocol/traffic analysis between various components of this application system.
2. Determine the impact of the application generated traffic on the current infrastructure and remote links to CMP and 101 Park Ave.
3. Provide recommendations/observations relative to the proper location of the ENCORE MDI Gateway.
4. Provide approval or restriction and recommendations about the application on the current infrastructure.

2.2 Project Task details

1. Perform site survey of segments where users reside on. Baseline local segments for utilization and home or application server usage.
2. Review the development configuration and trace basic application functions and front-end download.
3. Review and define the communication infrastructure paths from user locations to MDI gateway.
4. Analyze the traffic between the HOST and the MDI SQL Gateway.
5. Analyze the traffic between the MDI Gateway and user workstation.
6. Obtain segment baseline of user and Data-center backbones.
7. Perform traffic analysis of 101 Park Ave. and 1CMP. Trace traffic from local segments through 1CMP backbone, across the appropriate router, into 4CMC and through 4CMC infrastructure until it reaches Data-center rings.
8. Provide recommendations and observations pertaining to the analysis results that will include approval or restriction of the application into a production environment, optimized location of the MDI Gateway and impact to the infrastructure in 4cmc.

3.0 Key Assumptions/Roles and Responsibility

- CISG will provide a knowledgeable application person to assist AT&T TSG with the analysis.
- CISG must have a complete working application system from client to server in place before the analysis is to commence.
- CISG must notify the AT&T TSG LAN engineer and or project manager within 2 days of any project change and when work is to be performed if not scheduled.
- The CISG team will be responsible for the installation of the server.
- The application will reside on the production servers in 4CMC PTF.
- Chase TSG is responsible for procurement of IP address of it's client and server workstations in the CMC and remote sites.
- CISG must supply names, IP addresses and MAC address of all servers and test workstations involved.
- CISG must provide the number of users for the initial production date and two weeks following(for local and remote sites).
- AT&T TSG will provide only baseline data about user segments since the application is still being developed and it cannot be tested across the infrastructure to other sites.
- The production date of this project may be rolled back to due to negative results of the analysis and re-engineering efforts to change such results.
- CISG must provide information pertaining to HOST location, 1CMP and 101 Park Ave. The analysis may require additional time if other users/segments and sites are added.
- CISG and Chase TSG is responsible for the server distribution and installation, including providing racks and power.
- AT&T will not provide recommendations pertaining to internal scaling options of the MDI Gateway. AT&T will only provide impact and traffic results up to the Gateway and CISG must work in tandem to determine CPU utilization.

4.0 Deliverable section

AT&T TSG will provide a recommendations and observations document outlining the following:

- Statistical results of the analysis
- The proper segment location for MDI Gateway
- Re-engineering issues and tasks if results are negative
- Remote site issues and action items if applicable
- General findings and observations
- Approval or restriction of application into the production environment and rational.

5.0 Schedule section:

Desired Due Date CISG Customer: 12/5/95

Negotiated due date: NS

Schedule due date: NS

Actual due date: NS

NS= Not Set

Estimated hours 180

6.0 Budget section

This project will be billed to the CISG expense code of 29278.

7.0 Tools required

Network General Sniffer or Sniffer console.