Business Day

TUESDAY, SEPTEMBER 12, 2000

C1

The New York Times

Digest

Documents Show Ford Knew About a Faulty Part

When thousands of car owners complained in the 1980's and 1990's that their Fords unexpectedly stalled, top executives repeatedly assured regulators that there was no way to know what might be causing the problem.

But throughout the period, Ford documents show, the company's engineers, safety officials and even its board were aware of growing problems with one particular part — a computerized ignition system attached to the engine's distributor — that would shut the engine down if it overheated. [Page A1.]

Tighter Control of Firestone Vowed

In his first public appearance since the recall of 6.5 million Firestone tires, Yoichiro Kaizaki, the president of Firestone's Japanese parent, Bridgestone, acknowledged that the company had not paid proper attention to quality control. He said the company would exert stronger control over its American subsidiary. [C12.]

While Ford has resisted a higher pressure for Firestone tires on Explorers in the United States, it switched to a different Firestone tire with higher pressure for Explorers in Venezuela during the 1999 model year. [C12.]

Big Brands Avoid 'Dr. Laura' Show



The premiere episode of the Dr. Laura Schlessinger syndicated television series clearly suffered from protests by advocates for gays and lesbians as well-known advertisers mostly shunned the show. Only a handful of recognizable brand names were spotted

among the sponsors of the initial episode. Protesters, complaining about remarks made by Dr. Schlessinger about gays and lesbians on her syndicated radio program, urged mainstream advertisers to steer clear of her foray onto TV. Stuart Elliott: Advertising. [C10.]

Sears Names New Chief Executive

Sears, Roebuck has named Alan J. Lacy, a financial trouble-shooter, to succeed Arthur C. Martinez as chief executive. [C2.]

Stocks Slide on Profit Concerns

Stocks slumped on worries about sagging corporate profits after an analyst lowered expectations for I.B.M. because of the strong dollar. The Nasdaq composite index fell 82.06 points, or 2.1 percent, to 3,896.35. The Dow Jones industrial average also moved lower, falling 25.16 points, or 0.2 percent, to 11,195.49, while the broader Standard & Poor's 500-stock index fell 5.24 points, or 0.4 percent, to 1,489.26. [C14.]

Hewlett Confirms Consultant Talks

Hewlett-Packard and PricewaterhouseCoopers confirmed they were discussing the sale of PricewaterhouseCoopers' management and

U.S. Approves Formation of Supply Web Site for Automakers

By CHRISTOPHER MARQUIS

WASHINGTON, Sept. 11 — Federal antitrust regulators approved today the establishment of an online venture that would allow five major automakers — including the top three in America — to buy supplies through a single Internet portal.

The Federal Trade Commission approved the formation of Covisint, the business-to-business Web site, which proponents said would streamline the annual purchase of as much as \$300 billion in parts for the Ford Motor Company, the General Motors Corporation and DaimlerChrysler A.G.

On the proposed site, automakers are expected to list parts they seek from suppliers, who will then offer bids to secure a contract. The procedure is commonly referred to as a reverse auction.

In addition, automotive suppliers, who spend \$500 billion a year, could turn to the site for everything from engine parts to office supplies, the proponents said. The Nissan Motor Company of Japan and Renault of France are also parties to the exchange, as are two information technology companies, Commerce One Inc. and the Oracle Corporation. The Toyota Motor Corporation is negotiating to join the joint venture, Covisint officials said.

American automakers praised the F.T.C.'s long-awaited ruling in favor of Covisint, which they said would enhance efficiency and yield significant savings by streamlining the procurement process. Brian Kelley, Ford's head of electronic commerce, said the exchange would ease online price quoting and collaboration on product designs, which in turn will "drive productivity throughout our supply network."

The F.T.C. decision ended a six-month investigation in which regulators explored concerns that the exchange might enable the big automakers to collude to force down the prices of suppliers.

The commission - which voted 4 to 0 in

Continued on Page 2

Market Place

Option Boards Are Censured By the S.E.C.

Regulators Say Markets Manipulated Pricing

By FLOYD NORRIS

The Justice Department and the Securities and Exchange Commission said yesterday that the four major options exchanges agreed for years to restrain competition by not seeking to trade options already traded on other exchanges.

The exchanges — the Chicago Board Options Exchange, the American Stock Exchange, the Pacific Stock Exchange and the Philadelphia Stock Exchange — signed a consent decree with the Justice Department and accepted a censure by the S.E.C. but did not admit any wrongdoing.

The existence of the investigations, coupled with the entry of another competitor, the **International Securities Exchange**, had already broken down the barriers that the regulators complained about, and most major options are now traded on multiple exchanges. It is not yet clear, however, whether that competition is benefiting investors or just the brokerage firms that send orders to the exchanges.

Joel I. Klein, the assistant attorney general in charge of the antitrust division, said that the agreement by the exchanges not to compete with one another's listings "harmed consumers by depriving some investors of better prices, lower transaction fees and higher quality services."

The S.E.C. and the Justice Department painted a picture of an active conspiracy that went on for years after the S.E.C. ended legal bars to multiple listing of options in 1990. As part of that conspiracy, exchange officials used "threats, intimidation and harassment" when some exchange members tried to promote competition, the Justice Department said.



information technology consulting practice to the computer maker for \$17 billion to \$18 billion in cash and stock. [C6.]

Goldman Sachs Shares Rise on Deal



MTWTFM

Goldman Sachs Group confirmed that it planned to make its most expensive acquisition by paying as much as \$7.4 billion to buy Spear, Leeds & Kellogg, the biggest trading firm on the floors of the

nation's stock and options exchanges. Buying Spear, Leeds would give Gold-

man a much bigger presence in some businesses it seemed to have written off. Shares of Goldman rose \$8.06, to \$132.31. [C2.]

G.M. to Replace 268,000 Air Bags

The driver-side air bags on 268,000 Oldsmobiles and Buicks are vulnerable to inflating when the car is started or during normal driving condition, General Motors said. The carmaker has not recalled the vehicles because it does not have the parts, but it plans to begin replacements by the end of the year. [C7.]

Frankfurt Exchange Puts Off Vote

The Frankfurt stock exchange's parent company decided to postpone a shareholder vote meant to ratify a planned merger with the London Stock Exchange. [C4.]

Glaxo-SmithKline Merger Delayed

Glaxo Wellcome and SmithKline Beecham said that their merger into one of the world's largest pharmaceutical companies was again facing delays as United States regulators examine their smoking cessation products. [C4.]

YESTERDAY

Dow industrials	11,195.49	-	25.16
Nasdaq composite	3,896.35	-	82.06
30-yr. Treasury yield	5.72%	-	0.02
The euro	\$0.8578	T	0.011
The dollar	106.02 yen	-	0.19

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Whirlpool Trainees Prepare for Real World

By DAVID BARBOZA

BENTON HARBOR, Mich. — Tony Barbee has never enjoyed household chores. Even in college, he regularly brought his laundry home to Mother, and he shunned the stove in favor of the local Burger King or Kentucky Fried Chicken.

Indeed, he knew so little about what goes on in the kitchen that when he applied for a job at **Whirlpool**, one of the world's largest makers of household appliances, he checked off the box that indicated the lowest level of cooking expertise: Hamburger Helper.

But for two months this summer, Mr. Barbee, now 30, and six other young recruits took part in an unusual training program that might be considered the corporate equivalent of realty-based television.

Hoping to create a better work force, Whirlpool essentially sentenced a group of new hires to live together in a large house, where during the course of their stay they prepared more than 900 plates of food; washed no fewer than 120 bags of laundry; and performed countless hours of loading and reloading of the company's refrigerators, dishwashers and dryers.

They smear white bags with mustard, relish and other stain-generating condiments, just to see if they can bleach them out; they prepare three times as much pasta as they need, simply to see how cooking in microwave and convection ovens differs from that in traditional ovens.

With breaks for only a couple of weekend trips home, the learning experience is intense. Who knew, for example, that one of the company's newest dishwashers was so powerful that when an entire carrot cake was set among the dishes — as it was during an experiment — the cake would entirely evaporate and the dishes would still come out clean.

"Company retreats have been around a long time, but two months living in a house, I've never heard of that," said Sonia Marciano, who teaches management and strategy at the Kellogg Graduate School of Management at Northwestern University. "I guess there are some people who are going to say this is a way cool thing, especially when you're dealing with something as unsexy as appliances."

Company executives, however, insist that the reality-based training program is not a gimmick. Rather, they say, it is a

Continued on Page 27

INDIVIDUAL	MARKET	5
MICROWA	VE OVENS	
Shipments in '99: 11,682,085	MARKET SHARE	RANK IN '95
Sharp	31%	1
Samsung	21	2
Matsushita	11	3
Whirlpool	10	+
Sanyo	9	6
WASHING !	MACHINES	
Shipments in '99: 7,508,200	MARKET SHARE	RANK IN '95
Whirlpool	53%	1
Mavtag	21	2

15

4

SHARE

38%

37

17

8

8

DISHWASHING MACHINES

Shipments in '99: MARKET RANK

†Less than 1 percent so not ranked

Source Appliance Magazine The New York Times

3

4

5

IN '95

2

1

3

3

5

General Electric

General Electric

§Less than 1 percent

Electrolux

Goodman

5,711,200

Whirlpool

Electrolux

Maytag

Others

But having set forth assertions of a longlasting conspiracy that harmed many investors, the S.E.C. and the Justice Department stopped short of penalizing the exchanges by imposing fines.

Instead, the exchanges, which are selfregulatory organizations responsible for monitoring the conduct of those who trade on the exchanges, agreed to spend more money on surveillance and the enforcement of trading rules. The four exchanges agreed to spend a total of \$77 million on such activities over the next two years, which the S.E.C. said represented about a 50 percent increase.

"The \$77 million will provide what we believe to be real concrete benefits to investors," said Richard Walker, the S.E.C.'s enforcement director, when asked why there was no fine. "We've structured the settlement to put the money where it counts."

While no fines are to be paid, the Chicago and American exchanges said they had reached tentative settlements of a classaction suit covering the same issues but did not elaborate.

A person briefed on the agreements said they called for the Chicago exchange to pay \$16 million and the American exchange to pay \$14 million.

In addition, market makers at the vari-

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Despite OPEC Decision, Home Heating Oil Reaches 10-Year High



Ministers of the OPEC nations, meeting over the weekend in Vienna, voted to increase oil production by 800,000 barrels a day.

By JONATHAN FUERBRINGER and NEELA BANERJEE

The price of home heating oil surged to a 10-year high yesterday as traders discounted the impact of a decision over the weekend by the Organization of Petroleum Exporting Countries to increase crude oil production by 800,000 barrels a day.

In trading on the New York Mercantile Exchange, the price of heating oil for October delivery jumped 5.49 cents, or 5.5 percent, to \$1.0498 a gallon, its highest since October 1990, after the Iraqi invasion of Kuwait. The price of crude oil rose \$1.51, or 4.5 percent, to \$35.14, just below the 10-year high it reached last Thursday.

At its current price in the futures market, home heating oil is now 51 percent higher than the average for last fall and winter and is likely to become a bigger issue in the presidential election, especially if October is cold.

"We welcome the reports that OPEC member governments will increase oil production by 800,000 barrels per day," Energy Secretary Bill Richardson said Sunday. "Whether such an increase will stabilize the market remains to be seen." He also said the administration was still considering releasing oil from the Strategic Petroleum Reserve.

The American Petroleum Institute, an industry group, urged consumers last week to fill up their home heating oil tanks early, instead of waiting for the first cold weather. More and more analysts have said that this increase in OPEC production — and any further increase OPEC may approve at its next meeting on Nov. 12 — will arrive too late to help. It takes about six weeks for the crude oil to get to the United States and another week or 10

Continued on Page 13

Goldman Sachs to Acquire Top Firm on Trading Floors

By PATRICK McGEEHAN

The Goldman Sachs Group confirmed yesterday that it planned to make its most expensive acquisition to date by paying as much as \$7.4 billion to buy Spear, Leeds & Kellogg, the biggest trading firm on the floors of the nation's stock and options exchanges

Goldman, one of the biggest securities firms on Wall Street, said it will pay \$4.4 billion in stock and \$2.1 billion in cash to acquire Spear Leeds from its 54 partners. Goldman also will set aside another \$900 million of its stock to retain Spear Leeds employees after the purchase, which Goldman expects to complete by the end of the year.

Buying Spear Leeds would give Goldman a much bigger presence in some businesses it seemed to have written off. Less than a year ago, Goldman officials were pushing for a restructuring of United States stock markets that would have hurt Spear Leeds, and just a few months ago a Goldman executive called one of Spear Leeds' main functions "unsustainable."

But now, Goldman's most senior executives are saying that Spear Leeds will put Goldman Sachs at the forefront of a global boom in stock trading, no matter which direction the markets take. "We think it's got the best technology," said Henry M. Paulson, Goldman's chairman and chief executive. "We're assuming the markets are going to keep changing and we're assuming that the U.S. market is going toward more electronic trading.

That trend has been in place for many years as trading on the allelectronic Nasdaq Stock Market has

exploded, raising doubts about the future of auction markets like the one housed in the New York Stock Exchange's cavernous building at the corner of Broad and Wall streets in lower Manhattan. Late last year, Mr. Paulson himself called for changes in the way stocks are priced and traded that would have threatened the existence of auction markets and the firms that keep them running.

Spear Leeds, one of the biggest private partnerships on Wall Street, is the biggest specialist, or operator of trading posts, on the floors of the New York and American stock exchanges as well as on the major options trading floors. In the non-stop auctions at those exchanges, specialists are charged with maintaining orderly markets by matching up traders who want to buy certain securities with those who want to sell them.

About one-third of Spear Leeds' operating profit comes from making markets on those trading floors, according to Goldman Sachs. But, in a cover story in Forbes magazine in May, Duncan Niederauer, a Goldman executive, described specialistbased auctions as "unsustainable" in an era of low-cost electronic communications

Goldman officials have not recanted those statements. But they clearly think there still is plenty of profit to be made in trading the old-fashioned way until it becomes clearer how and when the markets will change.

"There is no such thing as a real bargain" among the best financial companies, Mr. Paulson said, adding that Goldman "wanted to pay a full and fair price."

Some analysts applauded the deal as a smart strategic move for a firm

Henry Paulson and John Thain, left, chief executive and president of Goldman Sachs, shook hands with Andrew Cader and Gary Goldring, right, co-chief executives of Spear, Leeds & Kellogg. that is committed to being a leading provider of financial services to big

customers. Joan Solotar, an analyst at Donaldson, Lufkin & Jenrette, was not concerned that the deal will increase Goldman's dependence on trading-"They're not running the firm to

smooth earnings," she said. "If an investor wants a smooth earnings stream, he shouldn't invest in brokerage stocks." Investors also seemed to approve

of the transaction: Goldman's shares rose \$8.06 to \$132.31. Mr. Paulson said that Goldman

might buy other specialist firms. He also said that Goldman would consider purchases that would add heft to its money-management operations. But he said the firm had little interest in acquiring either a brokerage firm, such as Charles Schwab Corp., or another investment bank.

Goldman has always prided itself on its culture and Mr. Paulson said that Spear Leeds was a close cultural fit, despite its history of violating the rules of the exchanges on which it trades. Spear Leeds has repeatedly been fined and censured by exchanges and securities regulators for assorted transgressions, including failing to file timely reports of its short positions, or securities that it had sold but did not own.

gan Charles/The New York Time

In one case in 1998, the National Association of Securities Dealers fined a unit of Spear Leeds \$950,000 and censured it after finding that the unit had intentionally delayed reports of some trades "to secure a competitive advantage, protect its interests and maximize its profits or minimize its losses," according to N.A.S.D. records.

Andrew Cader, a co-chief executive of Spear Leeds, said that it was "not surprising that we have fallen short of perfection," given the size of the firm's trading businesses, But he said the firm's management was "very proud of regulatory record and we assume our new partners are.'

Mr. Paulson expressed no concern. "We feel very comfortable with the people and their standards," he said.

Formation of Supply Web Site for Automakers Is Approved

Continued From First Business Page

favor of the exchange - warned that it will remain vigilant against such anticompetitive maneuvers and said it "reserved the right to take such further action as the public interest may require." Commissioner Thomas B. Leary did not take part in the vote.

"Because it is not yet operational, and because its founders represent

such a large share of the automobile market, the commission cannot say that implementation of the Covisint venture will not cause competitive concerns," the F.T.C. said in a statement.

Thomas T. Stallkamp, an expert on automobile industry purchasing, said today's ruling was a "good step forward" for the formation of the site. But he added, "There is still a long road to getting Covisint up and running.'

Mr. Stallkamp, a former president of Chrysler, said the developers of Covisint would have to demonstrate their "true neutrality," so the exchange is accepted by suppliers and not seen as weighted in favor of the major purchasers.

He urged the developers to grant suppliers some ownership in the Internet site. Automakers have so far ruled that out, attempting to lure dozens of suppliers into the network by offering them the chance to link their sites to the portal's vast revenue pool.

By sharing equity, the automakers may allay concerns that they might use Covisint "as a cost-reduction tool against suppliers, rather than a communications tool for the suppliers," said Mr. Stallkamp, who now is chief executive of MSX International, a Michigan company that helps businesses hire engineers.

Covisint officials have yet to name a chief executive, define who will own the portal's data - a potentially valuable trove of purchasing information - or devise safeguards to protect suppliers' proprietary information.

The exchange also must still receive approval from Germany's antitrust regulatory agency, which is expected soon. Alice Miles, Covisint's interim co-chief executive, predicted the electronic marketplace will be operational within a month of that final approval.

In remarks to reporters,

Financial Trouble-Shooter Named New Chief at Sears

To Be Added Soon

By MILT FREUDENHEIM

Sears, Roebuck & Company has named Alan J. Lacy, a financial trouble-shooter, to succeed Arthur C. Martinez as president and chief executive, effective Oct. 1.

Mr. Lacy, 46, who climbed the executive ladder after he stanched losses in the company's credit card business, will add the title of chairman when Mr. Martinez, 60, retires in December. Mr. Lacy told analysts yesterday during a conference call that he would build on Sears's core strengths in retail, after-sale service and credit by "doing fewer things better."

He will take over at a time when the big retailer hopes to exploit the departure of the Circuit City chain from the home appliance business. Analysts said Sears, based in Hoffman Estates, Ill., already had 38 percent of the home appliance market. Appliance sales helped Sears gain 5.6 percent in sales at stores open at least a year in August, a lackluster month for many retailers as clothing sales faltered.

Wall Street analysts, who became familiar with Mr. Lacy when he was chief financial officer at Sears in the mid-1990's, praised the company's choice of an insider for the top position. "He is an excellent, realistic person," said Michael Exstein, a retailing analyst at Credit Suisse First Boston. "He has seen the consequences of overreaching in the credit and service businesses at Sears and he has been able to right many of those mistakes."

Sears ran into trouble by joining the rush to sign up credit card customers who, in many cases, were unable to pay their bills. It has written off losses and tightened its cardholder requirements, Mr. Exstein noted. In the service business, Sears can try to attract former customers of Circuit City while mainly attending to its own appliance customers.

Richard Church, an analyst at Salomon Smith Barney, said Sears would "continue to lead with their best punch, the home area." The goal is to attract young women and young families to the stores by emphasizing home furnishings, appliances, home electronics, tools and children's clothes. Sears is experimenting with home goods specialty stories that it calls The Great Indoors, but analysts

COMPANY INDEX

This index lists businesses mentioned in The New York Times today. It omits companies mentioned in passing and it does not cover statistical tables. Page numbers refer to the beginnings of articles. A dagger (†) denotes a parent company not directly mentioned in an article about a subsidiary.

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Alan J. Lacy has been chosen to be the president and chief executive of Sears, Roebuck.

said it was too soon to forecast their prospects.

Sears is the third big retailer this summer to announce a new chief executive. On May 31, Kmart selected Charles Conaway, who had been president of the CVS pharmacy chain. On July 27, J. C. Penney announced the appointment of Allen L. Questrom, chief executive of Barneys New York and former head of Federated Department Stores.

Mr. Lacy joined the company in 1994 as a senior vice president after holding finance and strategic planning jobs at Philip Morris and its Kraft General Foods unit. He was chief financial officer and executive vice president of Sears from 1995 to 1997, then president of the credit unit for two years, before adding responsibility for home services, customer responses and Internet business as president of services.

Mr. Martinez, who has been chairman and chief executive since 1995, announced his retirement plans last March. A former executive at Saks Fifth Avenue, he joined Sears as head of its troubled retail operations in 1992. Investors applauded as he cut costs, discontinued the famous but money-losing Sears catalog, closed 100 stores and eliminated 50,000 jobs. The company now has 860 department stores and 2,100 specialty stores.

But Sears stock began to slide in mid-1998 as Wal-Mart, Target and other discount stores offered low prices on household goods, and clothing chains like Gap and Ann Taylor captured apparel customers.

Sears, which has lost almost half its stock value over the last two vears, rose 50 cents vesterday, to \$35.25, on the New York Stock Exchange.

Phoenix Home Life Mutual Insurance

Phoenix Investment Partners C4

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Miles, a Ford employee, said Covisint might pursue an initial public offering next year after at least two quarters of operation.

"Covisint is poised to create a leading global e-business trading exchange," Ms. Miles said. "The completion of the F.T.C. review represents a significant milestone in our efforts to establish a transformational business-to-business entity.'

Covisint is the first business-tobusiness venture to be reviewed by the F.T.C. Such Internet sites are seen as a boon to global trade with implications that reach to all sorts of industries.

Business-to-business electronic marketplaces "offer great promise as means through which significant cost savings can be achieved, business process can be more efficiently organized and competition may be enhanced," said Robert Pitofsky, the F.T.C. chairman.

He cautioned, however, that his agency would scrutinize additional ventures to ensure they "are organized and implemented in ways that maintain competition."

Boeing Plan for St. Louis

SEATTLE, Sept. 11 (Bloomberg News) - The Boeing Company said today that it would invest as much as \$250 million in upgrades at its St. Louis military-aircraft division and sell some other facilities to the St. Louis Airport Authority to cut costs. Boeing, the second-largest defense contractor in the nation, plans to build a new hangar for flight tests and expand another building for assembly work. It will sell 1.8 million square feet of facilities to the operator of the adjacent St. Louis airport, cutting the amount of space it uses by 20 percent. The plan is part of a continuing consolidation of Boeing's operations. The company said in June that it planned to sell a 1,700worker parts-fabrication unit in St. Louis. Boeing is also shutting some rocket facilities in California. The new operations are scheduled to open in mid-2002.

> Other points of view on the Op-Ed page seven days a week. The New York Times

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BG 7/F3

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Date: July 18, 2000

To: John Flavin

From: Burton Grad

Subject: Additional Information from Review of Future Three Operations

As promised, I have prepared three attachments which are in addition to the Product Development Assessment from BGAI:

Attachment 1	Subjects which deserve special executive attention
Attachment 2	Interview Notes
Attachment 3	References to materials which should receive further examination by F3 management

Thanks again for your cooperation and that of your staff.

Additional Subjects for Executive Review

- Need to review the "deferred" projects (Windows mapping, Jwalk, Tools) and determine which, if any, should proceed. All key managers involved should contribute to the analyses and be informed of the results.
- 2. Set firm schedules and funding for selected AS400 product initiatives incorporating recommendations and insights from consulting, customer service and support as well as from development and sales and from customers.
- 3. Remind marketing/sales not to be too absolute in its positions and to provide some flexibility to adjust to changes which cannot be averted, even by good planning.
- 4. Decide whether there is a significant international market for the AS400 products and the Eclipz services. Use Synapz staff knowledge to help make this decision, and then fund and schedule it properly if you decide to proceed.
- 5. Carefully lay out the plans for strategic partnerships and affiliations. Ensure that these do not become simply tactical sales channels, but meet strategic industry goals.
- 6. Systems strategies need to be thought through. It is not clear whether there is anyone on board with the technological skill and imagination needed to structure the new products and services for both the automotive industry and potential related market opportunities.
- 7. The current personnel involved in business planning and product management need much better training and leadership to avoid the twin problems of weak processes (not knowing how to do the planning) and weak implementation (not knowing how to execute the plans).
- 8. With the new financial software from SoftTrax, an effective set of budgeting and cost management tools should be put in place to measure revenues and profits for each product and service offering (new sales, maintenance, consulting, trading partners, etc.).
- 9. The roles and responsibilities of the consulting organization need to be spelled out and staffed appropriately to the mission. There are currently far too many people for the level of revenues, and there is inadequate sales effort to increase the revenues sufficiently.
- Support still suffers from a lack of tools and a clear way to eliminate unnecessary backlog elements. This organization is probably over staffed.
- Documentation is leaderless with no focus nor a clear set of priorities. Do you really want and need computer based training? If so, it must be staffed and supported early in the development cycle because it is a long, arduous process.

- 12. Customer Service is a complex organization with lots of measurements and reports, but not a clear picture of what they are doing and why. Is this primarily a revenue-producing, profit-making organization? If so, the nonrevenue-producing elements should be taken away and the focus should be on adequate sales efforts, effective pricing and timely execution.
- 13. Does program management have any authority or accountability? How is it supposed to relate to business planning and to development? Who determines the specifications and the business cases?
- 14. The internal Information Technology function gets no respect and is not a serious player in determining or supporting the business processes.
- 15. Quality Assurance appears to be quite weak, with little attention paid to its concerns and recommendations. It does not have enough in the way of formal procedures and testing processes. It is used mostly as a release clearance group. It does not provide the quality planning and framework role to avoid making errors in the first place, but rather, simply tries to stop the mistakes from getting to the customers. This uses a substantial number of people who, to some extent, give development an excuse for not adequately testing their products before saying that they are ready for release.

Interview Notes

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- III. Templeton
- IV. Broccardo

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- VI. Marchi

Consulting, Support and Services

- VII. Littlepage, Trela
- VIII. Winkelmann
- IX. Jazowski, Parker, Vogrin
- X. Parker
- XI. Parker

Synapz Marketing and Sales

- XII. Marsolais, McGee, LaLiberte, Pittman
- XIII. McGee, LaLiberte
- XIV. Paul

Development, Documentation and Quality Assurance

- XV. Nissimov, Parker, Hart
- XVI. Jensen, Proctor
- XVII. Kormos
- XVIII. Nissimov
- XIX. Bridson

I. Flavin, Ternes, Winkelmann (June 26, 2000)

Dates Hired

John Flavin, 8/2/99 (at meeting) John Ternes, 8/2/99 (at meeting) Mark Winkelmann, 11/99 (at meeting) Klaban, V.P. Development, 11/99-5/00 Bob Paul, 2/00

Product

RPG AS400 250 customers Tier 1 = 150 Midwest = 80% Small east coast/west coast sales 240 trading partners (maybe 1/3 are customers) Up to 22 different transactions

Market

15-20 OEMs Tier 1: primary auto Tier 2: primary auto Tier 3: smaller/mixed

UNIX AutoRelease Home grown Harbinger: translations Sterling: translations

Trinary: full function Radley: full function Brain: full function + AS400 (German company)

Actions

- Canceled IPA (Progress)
- Introduced Moore structure ("Crossing the Chasm")
- AS 400 enhancements:
 - Windows mapping
 - J. Walk: screen scraper
 - Tools application

These have been postponed

Process

- Proposal sent by Business Development (LaLiberte, McGee) to Executive Steering Committee
- · If go, then assigned to Program Management to lay out work
- · 700 new product initiatives for AS400; may be 22 key items needed
- · Synapz: sales, marketing and business planning

II. Kingery, Alderson, Toufar (June 26, 2000)

Pat Toufar

International standards bodies; establish F3 recognition outside U. S. Odette, Edifact Launch international business More small suppliers Not a lot of EDI

Jessie Alderson

Technology watch in the auto industry ANX: Automated Network Xchange SAIC: owns subsidiary for ANX Commercialization of Internet Authentication and encryption were key issues Bandwidth was critical; some states do not have adequate point of presence Internet service providers had to agree to set up points of presence Extranet: transaction community XML: message structure for application use OAG: developing XML Putting together framework for handling tags (attributes)

Vic Kingery

Developing XML as a standard in auto industry Identify components which F3 does not have Develop value proposition for partners (with business development) Examples: ASP: selected CSC Technology partner: ICI Internet development: Java, XML Web bar coding: Freight Optimization Internet based quality system: ERP Supply chain management: i2, Manugistics; i2 partnering with IBM and Ariba

Covisint (Collaborative Visibility Integration): Consortium owned by Ford, GM, Daimler-Chrysler with Commerce One and Oracle

Strategy: Oracle, then DB2, SQL Industry trade exchange/digital marketplaces Vital to maintain trading partners/transaction sets

Vic Kingery helping to introduce new strategic planning and program management processes Need for rapid education of people to build up skills May need separate plans for different businesses Migration Plans for AS400 products and customers Internationalization for AS400

III. <u>Templeton</u> (June 27, 2000)

Morale has improved, stabilized No longer an exodus More structure and discipline Recruiting process for executives, technology, sales, etc. is now in place Some walls still exist between functions

IV. <u>Broccardo</u> (June 28, 2000)

Relation of Business Plan to Program Management Plan Program Manager Specification Estimating effort Authority Accountability

V. <u>Ternes</u> (June 27, 2000)

8/99 joined company Financial Planning process Bottoms up for expenses based on manager projections of headcount

Estimated new headcount for new areas Limited input from ex-development manager Should separate legacy business from startup business

Asked for 1999 business results less five aborted projects Asked for 2000 business results less Eclipz revenue and costs Produce plan to reduce AS400 operations costs

Need for business case for Eclipz V1 and V2 over 18-month period 2H2000 and CY2001 And accumulated cost to date CSC: \$18k/month for ASP

VI. Marchi (June 28, 2000)

Using NT on servers Purchased SUN UNIX boxes Acquiring SoftTrax IT functions: Support of development Support of operations

VII. Littlepage and Trela (June 27, 2000)

Consulting projects: Implementing AutoRelease and VendorRelease Auto Release is primary business

Vendor Release: initial suppliers 90-120 days

Cost \$35k-\$50k

Charge \$180-\$200/hour (\$1500-\$2000/day)

Problem was fixed price without a well-defined box for work to be performed

Debbie: Responsible for people management; also some internal programs Jim: Strategic responsibility for VendorRelease and Eclipz Ed Stutzman is responsible for AutoRelease; essentially those are cleanup projects

ANX

- Ford has been pushing its suppliers off of SOLMIS and onto ANX.
- Can run FTP (Ford Only) in AutoRelease.
- Do not have directions for GM and Chrysler
- 170 Ford customers for F3, expect 64 projects by YE00
- Typical project \$10k services, 5 days/project

External Education

- · At F3, AutoRelease, VendorRelease, etc. based on course materials from Cathy Jensen
- \$350/charge per seat, 6-8 people onsite per class yields \$2,250/day
- Target: \$200k
- 100 one-day classes/year; 80% on AutoRelease

Supplier Peak Performance

- · Review customer employee/project operations and recommend what needs to be done
- 3 days @ \$2k/day. This has failed so far.

Trading Partner Implementation

· Quick path assistance; little success; could consider Trading Partner sponsorship

AutoMap Education

- 1 day for engine training at \$350/seat
- 3 days for tool training at \$1200/seat
- 1st class now
- · Need to give input to development on improvements to AutoMap
- Setting up round table on specific products to discuss functionality
- Will need formal modification and extension release level procedures as well as version level enhancement procedures (ala Chasm)
- \$4.5m revenue target for consulting
- Commission structure does not encourage sales reps selling consulting
- Eclipz: Plan for alpha consulting
- Eclipz: Plan for beta consulting
- · R&D relations are weak; no forum for market input for Eclipz or AS400

- How should consultants learn new products?
- Now involved in beta
- Where is documentation?
- 25%-30% utilization of consultants

VIII. Winkelmann (June 27, 2000)

4% commission for consulting

6-8% on product sale with 12% when exceed quota

No commission on renewals

Would like to have own sales reps

Purpose of consulting: install what sales sells, supply chain consulting, auto release \$6m consulting revenue needed to keep 20 consultants busy

About 70 people total in the Support, Services and Consulting organization

Enhanced Communications needed for AS400

ANX for AS400

Trading Partner Business

IX. Jazowski, Parker, Vogrin (June 26, 2000)

AS400:

- Makes changes for urgent items only
- All customer problems come to help desk
- But 200-300 problems per month are logged outside of help desk
- Significant bugs in AutoMap
- AutoScan not functionally complete
- · From Support to Developer if new update
- · From Support to CS Development if non-critical
- · From Support to Urgent Problems group if critical
- · OEM-specific changes in programs
- Maintenance responsibility
- Need tools
- Need correct organizational structure

X. <u>Parker-Customer Service</u> (June 20, 2000)

Auto Release

Vendor Release

AutoMap

AutoScan

- · New trading partner development
- · OEM mandates: changes, new transaction sets
- OEM's: manufacturers
- · Trading Partners: direct suppliers to OEM's
- · Suppliers: provide materials and parts to Trading Partners
- Research Office: Identify changes needed from Trading Partners and Suppliers

- · Create business requirement definitions and conceptual design
- · For each trading partner, identify set of transactions and design
- Transaction set is one type of transaction like an 830
- · Change processes: receipt and actions
- Support fixes: Level 1 support and urgent fixes
- Services: normal fixes and enhancements
- Development: new products only
- QA tests all
- · Walls between groups
- · Good relations with Support
- · Better relations than before with consulting, but consulting siphons off resources
- · Poor relations with development

XI. Parker (June 28, 2000)

Trading Partner: manufacturer of components and manufacturer of autos Each F3 customer identifies trading partners; who do they do business with:

- Specifications
- Transaction sets

12-step process established 10/99 AutoMap design is not a user's tool Can it be changed to make it easier to use? Multiple screen users cannot be on at same time

XII. Marsolais, McGee, LaLiberte, Pittman (June 26, 2000)

Roll-out of Eclipz V1 Eclipz development team meetings Schedule for all pieces

McGee and LaLiberte

Business case for Eclipz V1 and V2: Are they still needed? Todd Meek and Smolinski: Developed plans for VendorNet Need for CTO or Systems Architect

Pittman

Continues AIAG leadership role

XIII. McGee, LaLiberte (June 27, 2000)

No compelling reason to implement VendorRelease, except for Eclipz

Migration

- AS400 to go to Eclipz
- AutoRelease functionality
- Equivalent Trading Partner capability (AutoMap or alternative)
- VendorRelease function (if currently using)
- AutoScan
- · And only if customer wants to migrate from AS400
- · Otherwise, F3 would have to force customer across the bridge
- Need technology adviser/consultant; need technical direction
- AutoMap translation is not sufficient for migration
 - Keyword facilities also needed
 - Reports, inquiries
 - Shipping functions variations

Invoicing variations

• Where is the business plan outline?

XIV. Paul (June 27, 2000)

Sales force had disappeared

Better market opportunity in supplier communication

- Phase I: Stabilize personnel
- Phase II: Listen to marketplace

Phase III: Create the strategy

Goal: replace of AutoRelease would have taken until 1Q01

Initial delivery of Eclipz in 8/00 will be a proof of concept

Internal Training

Application training, support, quality: new technology New product training: support

Getting on board early is needed

Who should do the specifications for new products?

Market "pain" is in Tier 2 and below

- Expect to get a product to market earlier
- · Access to new piece of market not currently accessible
- Tier 1 to Tier 2 through TierT N: more pain, simplified problem
- · Choice of ICI because of
 - Scalability
 - Interoperability
 - Performance
 - Deal with multiple platforms

XV. Nissimov, Parker, Hart (June 26, 2000)

AS400:

AutoRelease VendorRelease AutoMap AutoScan

Is there a new sales future for AutoRelease?

Ben Hart went to Java team (Bridson) for Joy Blair 3-person staff

Should be focused on architectural enhancements to AS400

Process which should be followed:

- Specifications
- Market value
- Design
- Cost/schedule
- Project authorization: Prioritization Programming Unit Testing
- Integration testing
- System testing: should include regression testing
- Release Plan: weekly using ESS
- · People need to learn Java and object-oriented approach
- Issue is with defects and OEM changes
- Multiple programmers may be working on changes to the same program (core programs)
- · Feasibility of meeting time lines imposed by OEMs
- · OEM requirements affects many aspects of programs

F3 has only used AutoMap for new transactions

- Translation of EDI messages
- Maintenance of EDI messages
- Changing data in EDI messages
- · Value is the fact that F3 performs whole range of functions
- Do ICI rules modeling capabilities cover data changes in transactions?
- · Could AutoMap be rewritten in Java so as to reuse all current AutoMap transactions?
- Should "all" RPG transactions be rewritten in AutoMap?
- This should be reviewed as a strategy.: could AutoMap be used as a translator only for new and current trading partners, leaving only maintenance functions in RPG?

XVI. <u>Jensen, Proctor</u> (June 26, 2000) Documentation is in paper form

Not notified on new projects

Customer presentation of field names is inconsistent, and too much information on screen (ASN's) Cleaning up existing documentation and preparing for on-line access Computer Based Training Started in Fall 1999 Intended for distribution with Eclipz V1 (1 on board and 1 person authorized)

Customer Training done by Consulting Developing courses by Documentation/Training group

XVII. Kormos (June 22, 2000)

Eclipz VI Development

Background

- · In 7/99-8/99, started concept of VendorNet based on marketing/sales input
- · Expected to have whole application outsourced because internal staff was too busy
- · Used IPA team to staff the VendorNet team in Fall 1999 -- planned to use Java
- · In Winter 2000, made "time schedule" for May delivery a primary objective
- · Was to be "bolt on" to Vendor Release ... to sell both product and service
- To be a service offering primarily
- CSC platform was target

1. Organization and Training of Development People

Formal Training: two weeks of class for Mormos and Byrd, but no object-oriented training; would have liked to make some changes in approach. Kormos and Byrd started in October 199; manager (Jan Gillespie) left. Do not feel well skilled in Java.

2. Development Methodology

Broccardo involved since April 2000 as program manager

3. Scheduled Enhancements/customer Commitments

- 1.1 and 1.2 are planned enhancements
- 1.1 customer site user interface (host only)
- 1.2 Credit card processing (customer and host site)

4. Current Maintenance Activities

Maintenance experience (document to Broccardo)

- 5. <u>Current Development Projects</u> See #3
- 6. <u>Testing and Quality Assurance Procedures</u> Jeri Hart: August 1999 doc. Has it been modified?
- 7. Effort and Cost Records for Development Historic effort level (doc to Broccardo)
- Product Release and Update Procedures
 QA will set release plan; John Marchi to deploy Java code to AS400 Vendor Release customers
- 9. <u>Installation Procedures</u> To be developed jointly with CSC
- 10. <u>Availability and Procedures for International Usability and Service in Nonautomotive Industries and Internationally</u>

No current international requirements

11. Use of Third-Party Developers

Three outside contractors from CSC started in 1/00 for design, programming and unit testing

+1 Oracle DBA from CSC (April)

Relationship with CSC has been great

CSC has added five new people on ASP

Contractors have done almost all programming; performance has been good Contractors are Indian; some communication problems

12. Detailed Review of Schedule and Progress for New Product Releases

Broccardo will review schedule

July 31, 2000 is target for CSC ASP operation; this is a makeable date per Kormos Worked with Vendor Release development

Worked with QA (Johanna Milz)

Orientation for tech sales and doc (May 2000)

Demoing product since March for customers and sales and business partners

Other Comments

- Objected to Oracle database choice because of high cost, but in retrospect, it will turn out well because it can handle much larger volumes (would have selected Progress database)
- · Looking forward to joining Eclipz V2 team and enhancing Java and XML skills
- Eclipz V1 is reasonably well-documented

AS400 Development

- Vendor Release does not handle: X.12 parsing (in Eclipz) supply chain for Tier I... receiving side is weak
- · Vendor Release sales have not been very successful
- Auto Release functionality: not in Eclipz V1 or V2
- Enhancements for AS400 How much? When?
- ERP Systems are taking over; not as open for interfacing
- EDI and Release Accounting, Queue Management
- Maintenance
 - Some in Parker area; also some in development and some in Jazowski area
- AS400 product needs XML Java add-ons

XIX. Bridson

Where are requirements for Eclipz V3 and V4? Initial Eclipz V2 market is ASP but could also be Tier I and OEM direct usage Where is program plan for all other functions to support Eclipz V1 and V2

Reference Materials

Many useful items were sent to BGAI to assist in the analysis. Appendix B-2 in our report lists all of the items which we received. Obviously, the Executive team should be familiar with most of these items as part of their managerial assignments. However, certain of these items may be outside the normal reporting stream, and it may be fruitful for you to get copies for review in conjunction with the suggestions in Attachment 1 and the Interview Notes in Attachment 2.

Listed below are the items which I think would be particularly helpful. For each item, I have provided the reference number in Appendix B-2 and the name of the person who gave us the material:

- 21. Maintenance Trend Analysis and Maintenance Revenue Recognized (Ternes)
- 22. New Customers/New Sales Analysis (Ternes)
- 24. Operating Plan with Cost Analysis: FY00 (Ternes)
- 25. Consulting Services Budget and Utilization (Winkelman)
- 32. Eclipz Program Plan (Broccardo)
- 34. New Development Projects Plan (Nissimov)
- 45. Eclipz V2 Development plan (Bridson)
- 46. Documentation Materials and Plans (Jensen)
- 47. Customer Services Development Process Flow (Parker)
- 48. Support Monthly Stats and Service performance by week (Jazowski)
- 54. Future Three Market/Product Plan Structure (LaLiberte and McGee)
- 56. Pro Forma Statement of Operations: AS400 and Eclipz for 2000 (Ternes)
- 57. Headcount Actuals with Terminations and New Employees (Templeton)
- 63. Program Status: Technology, People, Product, Tools (Broccardo)
- 64. Information Technology Internal Programs (Marchi)



Appendix B-2 Page 1

Materials Received — Future Three

- 1. Sample Project Status Report Consulting Services, 5/24/00
- 2. Newspaper Article: Future Three...Supply Chain Software
- 3. Executive Profiles: Paul, Winkelmann, Ternes, Flavin
- 4. Beta Test Best Practices: David Broccardo, 4/27/00
- 5. Program Management Best Practices Guide, 5/30/00
- 6. Project Status Report: Eclipz Phase II Beta 5/19/00
- 7. Organization Chart
- 8. CEO Reports: John Flavin, 4/6/00, 2/16/00, 1/28/00
- 9. Eclipz Phase II Beta: Software Requirements, 5/8/00
- 10. VendorNet Enablement: CSC Technical Design, 4/20/00
- 11. User Group Conference Survey, 6/99
- 12. Customer Satisfaction Survey, 1/99
- 13. Customer Services Development: Various Reports, 1H00
- 14. Customer Services: Support Line Statistics, 6/00
- 15. In-Process Customer Satisfaction Survey, 6/00
- 16. Eclipz Version 1: Product Planning Guide, 6/9/00
- 17. Marketing Materials: Products, Services
- 18. Sales Pipeline, 6/12/00
- 19. Software, Maintenance and Consulting Services Price List, May 2000
- 20. Strategic Network of Alliances and Partnerships (Kingery)
- 21. Maintenance Trend Analysis (Ternes)
- 22. New Customers/New Sales Analysis (Ternes)
- 23. Headcount by Department (Ternes)
- 24. Operating Plan: FY00 (Ternes)
- 25. Consulting Services Budget and Utilization: FY00 (Winkelmann)
- 26. Supplier Peak Performance Program (Winkelmann)
- 27. Education Services Course Catalog (Winkelmann)
- 28. Consulting Services for Auto Suppliers (Winkelmann)
- 29. Competitive Analyses (Marsolais)
- 30. Supply Chain Linking: Web Enablement Design Document (Broccardo)
- 31. Proposed CSC Eclipz Web Hosting Statement of Work (Broccardo)
- 32. Eclipz Program Plan (Broccardo)
- 33. Standards Plan for Eclipz GUI (Bridson)
- 34. New Development Projects: 5/15/00 (Nissimov)
- 35. Future Three Product Architecture (Nissimov)
- 36. Vendor Release 5.0 Plans including Vendor Release System Plan (Nissimov)
- 37. Auto Release Interface Testing (Nissimov)
- 38. Automap Flow Diagrams and Interfaces (Nissimov)
- 39. VendorNET (Eclipz I): Impact Analysis to Vendor Release 5.0 (Kormos)
- 40. Customer Services: Priority 1 Issue Procedure

- 41. Twelve-Step Process: Customer Support/Service
- 42. Summary Statement of Operations 1Q98-4Q00 (with maintenance analysis)
- 43. ANX Project Overview 6/16/00 with ANX descriptions
- 44. Automotive Supplier Report--XML and EDI: The Next Generation Format of Business Information Transfer
- 45. Shipper Prototype Plan: Eclipz II (6/19/00)
- 46. Documentation Department and Education Services: Course Materials/User Manuals
- 47. Customer Services Development Process Flow
- 48. Other Support Stats 2000
- 49. Customer Support: AS400
- 50. Quality Assurance Project Status Information
- 51. Quality Assurance VendorNET Test Plan (Eclipz I)
- 52. Eclipz Network Diagram
- 53. Future Three Executive Summary (Business Description)
- 54. Future Three Market/Product Plan Structure
- 55. Consulting Services P&L (2000) and Utilization
- 56. Future Three Pro Forma Statements for Eclipz and AS400 (2000)
- 57. Employee Head Count Changes with Terminations and Hires
- 58. Additional Quality Issues (Hart)
- 59. Analysis of Backlog of Projects
- 60. Eclipz Marketing Plan Summary
- 61. Product Defect Procedure
- 62. Eclipz Revenue and Cost Projection Model
- 63. Eclipz Program Status



BURTON GRAD ASSOCIATES, INC. 7 WHITNEY STREET EXTENSION WESTPORT, CONNECTICUT 06880 (203) 222-8718 FAX: (203) 222-8728 E-MAIL: BURTGRAD@AOL.COM

Date: July 6, 2000

To: John Flavin

From: Burton Grad Sunta June

Subject: Preliminary Product Development Report on Future Three

Enclosed are five copies of the report from BGAI covering F3's product development and related functions. I have only included one copy of the appendices to reduce the volume of paper being sent.

We would appreciate any feedback to correct any substantive errors or to clarify our comments and recommendations.

Unfortunately, in any project of this magnitude, many subjects can only be given short shrift and many topics have to be ignored in order to focus on the highest priority items. I plan to send you a letter identifying some of these other matters which were brought to my attention, but which I did not have time to deal with. You may wish to have your executives review these areas and take appropriate corrective actions.

I will enclose with this letter an edited copy of my interview notes and refer to specific materials sent to me which may be useful for your personal review.

Also enclosed is a final invoice for this project.

Enclosures 5293

BURTON GRAD ASSOCIATES, INC.

7 WHITNEY STREET EXTENSION WESTPORT, CONNECTICUT 06880 (203) 222-8718 (203) 222-8728 Fax BURTGRAD@AOL.COM

Future Three Software, Inc. 41780 Six Mile Road Northville, Michigan 48167

Invoice #2989

July 6, 2000

Project: 237-3

Attention: John Flavin

INVOICE

Project: Review and Analysis of Future Three's Product Development and Related Operations

Consulting Services:	June 2 - July 6, 2000		
Burton Grad	5 days @ \$2,800/day		\$14,000.00
Sid Dunayer	5 days @ \$1,600/day	·	8,000.00
Total Fees			\$22,000.00
Expenses Incurred:	June 25 - 28, 2000 o	n site at Future Three	
Burton Grad: Westp	ort, CT to Livonia, M	fI and return	
Airfare		\$ 248.00	
Hotel (2 nights)		236.70	
Meals		145.64	
Local travel and parking (NY area)		172.00	
Rental car		188.00	
Miscellaneous, tips		10.00	\$1,000.34
Sidney Dunayer: Ne	w York, NY to Livon	ia, MI and return	
Airfare		\$580.00	
Hotel and meals (3 nights)		420.00	
Local transportation		50.00	\$ <u>1,050.00</u>
Total Expenses			\$ 2,050.34
Total Fees and E	Expenses		24,050.34
Less Advance Pa	ayment		(5,000.00)
Total Invoice			<u>\$19,050.34</u>

Payment Is Due Within 15 Days of Receipt of Invoice

7 WHITNEY STREET EXTENSION WESTPORT, CONNECTICUT 06880 (203) 222-8718 (203) 222-8728 Fax BURTGRAD@AOL.COM

July 6, 2000

Mr. John Flavin Future Three Software, Inc. 41780 Six Mile Road Northville, Michigan 48167

Dear John:

Enclosed is the Burton Grad Associates, Inc. report regarding Future Three's product development activities with additional findings and suggestions about other related business activities.

These conclusions and recommendations are based on a review of materials which Future Three provided to Sid Dunayer and me and on a large number of interviews with Future Three executives, managers and senior employees. Nevertheless, this was a relatively short-term assignment and there may be errors (factual or interpretive) in our findings. Therefore, these suggestions and recommendations should serve as a starting point for internal analyses and discussions in order to assess their applicability, appropriateness and practicality.

This was a most interesting assignment since I had previously examined Future Three on three other occasions (in 1992, 1993 and 1998); I was quite excited by the new market and new application opportunities that the Future Three management team has identified and is pursuing.

I have included as appendices to the report a variety of resource materials provided by F3 which I considered particularly relevant to the findings.

Please thank your staff and all participating Future Three employees for their cooperation and openness. They made the assignment both interesting and rewarding.

Sincerely,

Burton Grad

Enclosure BG:5283 cc: Sidney J. Dunayer

Assessment of Product Development Status and Plans as of June 2000

Prepared for:

Prepared by:

Future Three Software, Inc. 41780 Six Mile Road Northville, Michigan 48167

Burton Grad Associates, Inc. 7 Whitney Street Extension Westport, Connecticut 06880

> Burton Grad Sidney J. Dunayer

Date:

July 6, 2000

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SECTION III.	Product Development and Support: AS400; Eclipz V1; Eclipz V2
SECTION IV.	Principal Findings and Concerns
SECTION V.	Action Recommendations

Appendices

- A-1 Burton Grad Profile
- A-2 Sidney J. Dunayer Profile
- B-1 Information Requested
- B-2 Materials Received
- B-3 People Interviewed
- B-4 Interview Schedule
- C-1 Organization Chart
- C-2 Head Count by Organization
- C-3 AS400 Product Structure and Description
- C-4 Eclipz V1 Description
- C-5 Eclipz V2 Description
- C-6 Financial Statements: 1998 and 1999
- C-7 Financial Plans: 2000
- C-8 Synapz Business Description
- **D** AS400: Technical Due Diligence Appendix (10/12/98)
- E-1 Eclipz V1: Development and Support
- E-2 CSC ASP Plans and Status
- F Eclipz V2: Development and Support

EXECUTIVE SUMMARY

Based on a somewhat limited review of Future Three's current and planned products and their related operations other than sales and finance, BGAI has the following principal findings, concerns and recommendations:

Principal Findings

- F3 has two quite diverse businesses:
 - A traditional legacy software business for automotive suppliers using IBM's AS400
 - A start-up Web-enabled business for tier 1 automotive suppliers to communicate with their suppliers on an electronic basis
- F3 has an entirely new management team which still needs to hire development and sales executives.
- F3 has essentially discontinued all of its previous development projects and has focused on the new supply chain linking capability.
- F3 just has a small internal development staff and is dependent on using contractors from CSC and ICI to carry out their new development projects.
- F3 has a large number of customer support and services employees and a substantial number of quality assurance and documentation/training materials preparation employees, almost all of whom are focused on AS400 work.
- The AS400 product line has been profitable, but not at the level one would expect from a 17year-old product line.
- The current operations processes are people intensive with little use of computers to track transactions or improve productivity.
- The employee culture is very much of an 8-5 mentality with some walls still up between certain departments.
- · There is still no strong team spirit evident in the new Synapz/Eclipz product/service business.

Principal Concerns

- There is not yet a strategic plan for the new supply chain linking business, although a first version of a business concept has been drafted.
- There is no plan for the AS400 product line other than continuing in response mode making mandated trading partner transaction changes and making priority 1 program fixes.

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- The high dependency on the ICI technology (which is not yet proven commercially) for Eclipz V2 is of serious concern, particularly since Eclipz V3 which may need these tools more fully is neither defined nor specified.
- The heavy use of CSC programmers for Eclipz V1 may have put F3 in a weak position for maintenance and extension.
- The lack of integration between Eclipz V1 and V2 may lead to significant transition problems.
- The third-party costs for Eclipz V1and V2 are quite large and may limit F3's ability to hire and train its non-development staff.
- The target dates for initial customer tests and general availability for Eclipz V1 is somewhat too ambitious and for Eclipz V2 is much too early.

Principal Recommendations

- Focus on retaining the AS400 customer base, holding/increasing AS400 revenues, improving client support/services and sharply reducing costs by use of AutoMap and then introduction of computer supported processes.
- Focus on defining and implementing the Eclipz ASP system for trading partner/supplier networks including target market selection (tier 1 manufacturers), functions needed, performance requirements and use of ICI technologies for efficient development/maintenance.
- Focus on defining and determining the business case for another Synapz product line to serve OEM direct suppliers (front end EDI/XML) with modified Auto Release System functionality. This may well use the same ICI tools as Eclipz and reuse some of the Eclipz software
- Focus on reorganizing the company into a business unit oriented structure, separating all AS400 operations functions from Synapz related functions.
- Focus on improving mid-level management, particularly in development and on strengthening communications: down, up and sideways.
- Focus on substantially enhancing internal information systems capabilities so as to be able to more productively plan, execute, measure and manage all operational functions.

SECTION I. Objectives and Work Plan

Objectives

Future Three (F3) requested Burton Grad Associates, Inc. (BGAI) to perform an independent study to determine whether F3's product development and maintenance plans are technically sound and appropriately scheduled and resourced, and to be sure that there are no serious organizational, technical or support issues which would significantly impact F3's strategic plans or projections of future profits.

Specifically, BGAI identified the following objectives:

- · Assess product development and maintenance status and plans
- Assess product related operations and processes
- Analyze expectations and relations between product development and other business functions
- · Recommend actions to be taken to improve product and business performance

Work Process

- 1. BGAI requested certain information from F3 for the areas to be examined. The request list is attached as Appendix B-1. F3 provided the documents listed in Appendix B-2.
- BGAI conducted primarily on-site and a few telephone interviews with key executives, managers and senior employees of F3 and met or spoke with two significant third-party suppliers as shown in Appendices B-3 and B-4.
- 3. BGAI analyzed F3's materials and interview notes to identify areas of concern and any potential issues in the assigned areas. BGAI identified what it believed to be the principal opportunities and risks and referenced any problems it saw in implementing F3's future plans.
- 4. BGAI provided an on-site review of its initial findings and recommendations.
- BGAI prepared a report for F3 on its findings, concerns and recommended actions about F3 development projects and technical plans as well as other operational and organizational matters.

The project was managed by Burton Grad, president of BGAI, with BGAI Associate Sidney J. Dunayer and Grad as the consultants. The assignments are noted below:

Business and Development Analysis: Industry and competitive directions, F3 strategic plans, limited financial review, organization structure and management capabilities, development and operations processes and measurements – Grad

Technical Analysis: Technical assessment of current products, technical analysis of new products and plans, review of ASP plans and development staff assessment – Dunayer

Professional profiles for the BGAI consultants are enclosed as Appendices A-1 and A-2.

SECTION II. Overview of Future Three Software, Inc.

F3 has been an EDI supply chain software vendor to automotive suppliers since 1983. In the past, F3 has focused exclusively on producing RPG software running on IBM AS400 computers. Over the past few years, F3 has tried to enter the UNIX computer marketplace which represents almost 70% of the target automotive suppliers. Unfortunately, these development efforts did not produce a deliverable product in a timely fashion.

With a new executive team in place, a whole new direction has been formulated to put F3 into the automotive supply chain networking business. This involves providing a services-based offering which permits all smaller suppliers to be electronically linked to the tier 1 suppliers for order fulfillment activities.

In order to reduce time to market and to avoid or delay the heavy buildup of an internal development team, F3 has used design and programming resources from CSC and ICI to help develop these new products. CSC has also been selected to be the application system provider for the new service.

Organization

During 1999, there was a complete turnover in executive management: a new CEO; a new business management executive (president of Synapz); a new CFO; a new VP of Support and Services. Still to be filled are the positions for: VP of Development (the 1999 appointed manager was released in early 2000); a national sales manager. The current organization chart in shown as Appendix C-1.

The current staff level is at 158 people, with almost all product and customer support personnel (excluding development) assigned to AS400 products and customers. Appendix C-2 shows the June 2000 headcount by department with backup information on employee turnover.

Products

F3's current product line consists of AutoRelease, AutoMap and AutoScan, all of which are RPG programs used on the AS400 and all involved in helping tier 1 and equivalent direct suppliers to OEMs to process orders, shipping notices, invoices, etc. in accordance with OEM required formats and business rules. In addition, F3 has produced VendorRelease to enable tier 1 suppliers to communicate with their suppliers using EDI protocols. Appendix C-3 provides brief, marketing descriptions of these AS400 products.

Currently under development are two versions of a new ASP-based service called Eclipz V1 and Eclipz V2. These are to be the first steps for F3 to provide a supply chain networking facility available to all automotive tier 1 suppliers to communicate with their suppliers. Both of these offerings are scheduled to be delivered in 2000. Appendix C-4 provides a functional description of Eclipz V1 and Appendix C-5 provides a description of Eclipz V2.

These new capabilities will be delivered through an Application Service Provider; F3 has chosen to use CSC to perform this service and has signed an agreement with CSC to that effect.

Appendix C-8 is a copy of the draft business plan which the Synapz team has been preparing to build a foundation for a strategic plan and a formal business case.

Markets and Competition

F3 has been the leader in its niche (automotive suppliers using AS400 computers). But this market has not been growing. The remaining AS400 prospects (those who do not use F3 products) use offerings from three other companies or have in-house developed solutions.

The complexity of the relationship with the OEMs (automobile manufacturers) relates to the different format standards and decision rules required by each OEM for each type of transaction needed for EDI communication. F3's strength has been its knowledge of these format standards and decision rules and its ability to implement changes rapidly and accurately so as to enable its customers to deal with many OEMs and other automotive suppliers (trading partners). This unique set of automotive requirements has limited entry into the automotive supplier EDI market by the larger EDI companies like Sterling Commerce.

The other part of the automotive supplier market (70%) are users of UNIX-based computer systems. There are no dominant EDI vendors in this marketplace, although the larger EDI companies have their translator products and VAN capabilities used extensively.

The dynamics of the automotive supplier marketplace appears to be changing. OEMs wish to do business with fewer direct suppliers and have those tier 1 suppliers manage the parts and assembly inventories to give the OEMs cost-efficient, just-in-time deliveries. In turn, there is a trend toward consolidation of the tier 1 suppliers in order to achieve greater cost and schedule control.

F3 needs to determine whether it should continue to try to penetrate the tier 1 UNIX market with AutoRelease functions as well as trying to establish the new service to connect these tier 1 companies with their suppliers. In the supply chain linking market, they will need to interface closely with new ERP and supply chain management partners (Oracle, SAP, i2, etc.) and may well face new ASP competitors.

Financials

Since being acquired by Summit Partners in 1998, F3's financial results have been marginal. The 1999 financial results are shown in Appendix C-6. While the F3 business has been profitable (5.6% operating income in 1998 and 8.4% in 1999), it had little year-to-year revenue growth between 1998 and 1999 (and practically no new customers). The bulk of the AS400 profit has been eroded by R&D costs to build new products for the UNIX AutoRelease marketplace; this effort was discontinued in late 1999 with no deliverable and little to show for more than two years of development work.

Also, in late 1999, F3 geared up a new development effort to produce what was then called VendorNet (now called Eclipz V1) to provide ASP connections between tier 1 companies and their suppliers.

Various other smaller development projects were put on hold or canceled in late 1999 and early 2000 so that all new development efforts could be focused on Eclipz V1 and later on Eclipz V2 which was developed originally as an effort to build a new AutoRelease product for the UNIX and NT marketplace and potentially for migration of the AS400 users.

The financial projections for 2000 are shown in Appendix C-7. There is virtually no revenue shown for the Eclipz services, but the costs for the Eclipz development have a major impact on the operating profit projections. Note that the operating income for the AS400 business is projected at 24.3%, but at only 3.0% for F3 as a whole.

The current financial projections were not constructed on a solid bottoms-up basis for the new Eclipz products and essentially reflect a business-as-usual plan for the AS400 revenues and costs.

SECTION III. Organizational Structure and Responsibilities

F3 is caught in a typical revolutionary dilemma in its product development and support activities. On the one hand, it is fully engaged in trying to maintain and make necessary modifications to its AS400 AutoRelease product line. On the other hand, it is trying to develop and introduce a major new offering on a totally new platform to both existing customers and new prospects. Much of the business planning has been done on the fly without a clear vision of the future or a solid sense of direction.

However, credit must be given to the new executive team which has been willing to initiate a new plan and to make necessary mid-course corrections. The team appears to be evolving a longer-term strategy while moving forward with interim product developments.

The following relatively brief discussions try to highlight the status of the principal development and support activities related to the AS400 and Eclipz products.

A. AS400: Auto Release, AutoMap, AutoScan, VendorRelease

The AS400 products are written in a combination of RPG3 and RPG4 and contain 3,300 programs with about 1.2 million lines of code. AutoRelease is the foundation product and requires a lot of work to make fixes and to respond to OEM changes.

F3 built AutoMap in order to simplify the translation process, but F3 has never spent the time and effort to convert the existing RPG code which handles transactions for General Motors, Ford and Daimler-Chrysler.

AutoScan is used for bar code reading.

VendorRelease is focused on connecting F-3's customers to their lower tier suppliers. While almost 80 of F3's 250 customers have acquired VendorRelease, less than ten of them are actually using the product. One of the benefits to F3 of the Eclipz V1 (VendorNet) plan will be to require customers to install VendorRelease so as to provide on-line Web-based access for their lower tier suppliers. Note, however, that Eclipz V2 eliminates this requirement and provides direct interface to many ERP and supply chain management systems in addition to the VendorRelease interface.

Because of historic organizational roles, the development and maintenance responsibilities are split among three organizations: Development (4 employees); Support Line Urgent Issues (6 employees); Customer Service Development AutoRelease (8 employees), VendorRelease (6 employees) and EDI (8 employees). All of these organizations have open replacement position authorizations.

The organizational responsibilities are confusing. Supposedly, Development produces new programs (e.g., enhancements); Support Line makes those temporary fixes needed to keep the customers running until formal corrections can be made; and Customer Service Development makes the formal corrections and implements the trading partner and transaction set modifications.

While there has been substantial progress over the past few months in reducing the number of open problems and backlog of OEM mandated changes, the numbers are still quite large, representing delayed responses and a major catch-up task.

The AS400 products have not changed significantly since BGAI reviewed them in October 1998 as part of the due diligence review for Summit Partners. A copy of Sid Dunayer's 1998 technical due diligence report is enclosed as Appendix D. The comments regarding IPA in that report have not been eliminated since some of these are, in fact, still applicable to the Eclipz development projects and to any future AutoRelease type of UNIX/NT-based product.

B. Eclipz V1

This new product is the result of the VendorNet planning and design activity. The plan is to run the product on an ASP platform, although a few tier 1 customers may choose to set up their own Intranet (for their divisions) and extranet for their suppliers. However, if suppliers serve more than one tier 1 company, then it may be awkward for them to use different procedures to communicate with each supplier.

The specifications for Eclipz V1 are quite extensive; they were prepared by F3 employees. Appendix C-4 provides a basic functional description. Appendix E-1 shows the principal tasks to be completed in order to deliver a working program to CSC for them to set up as an ASP for use by Uniboring as an "alpha" site. After bringing on a limited number of Uniboring suppliers, the system will then be released for extended use by Uniboring and for use by other tier 1 companies and their suppliers. The CSC ASP plans are described in Appendix E-2.

Virtually all of the programming has been done by CSC personnel and for whatever reasons (style, lack of sufficient supervision, short schedule), there are practically no program comments or internal maintenance documentation.

F3 needs to gear up to take over the completion of the programming, prepare the internal documentation and conduct solid program testing.

All of the other support functions also need to get on board so as to be able to conduct comprehensive quality assurance, prepare user documentation and training materials and train customer support personnel. Trading partner/transaction preparation may not be vital for Eclipz V1, but consulting services for lower tier suppliers may be a real opportunity.

The greatest concerns with Eclipz V1 lie in the very short target dates. BGAI does not believe that these dates can be met with a quality, satisfactory performance product. This schedule should be reexamined to put in the proper time for testing and validation prior to general release.
C. Eclipz V2

This is effectively a new product designed to provide full XML functionality for tier 1 companies and their suppliers. It also opens the door for prospects who are on UNIX platforms by interfacing directly with their ERP or supply chain programs.

From an early stage, this has been a joint project with ICI, a three-year-old professional services firm which has recently started to construct a set of system building and Web-enabling tools. The original project goal was for F3 to use these tools to build an AutoRelease-like product to run on UNIX and NT platforms at tier 1 and other OEM direct suppliers.

However, in April 2000, F3 switched direction and decided to focus on the tier 1 communications with their suppliers and broaden the Eclipz V1 market base. At that time, F3 asked ICI to prepare a new planning document (see Appendix C-5) which would specify how the ICI tools could be used to produce what then became known as Eclipz V2.

Again, this has become a very intense development effort involving a number of people from F3 as well as a substantial number from ICI. Appendix F shows the current work schedule for development. Since the ICI tools have not been completed, each team is working relatively independently and the capability of the new product will not be evident until the pieces are put together.

There is no solid data yet to give to CSC so that they can plan for the necessary ASP facilities. And since Eclipz V2 depends on reusing some Eclipz V1 programs, there are many uncertainties in the transition to Eclipz V2 from Eclipz V1.

The support functions are just now being advised that they will need to support this offering. It will take substantial time to select and train the documentation, training, quality assurance and support personnel. The role of customer service development is not clear and if they need to write decision rules for new trading partners and transactions, then they will need to learn the ICI tools.

The current dates are far too aggressive; the sooner they are revised, the better. With reasonable dates, all of the various organizations can be brought on board and the current tension and confrontation can be reduced.

If ICI tools do not work properly, F3 could probably implement Eclipz V2 using Java and various commercially available products. However, the future plan for Eclipz may well require the power of the ICI tools or some equivalent set of capabilities.

SECTION IV. Research and Development: AS400

A. Findings

As a result of the extensive interviews, BGAI established what it considers a basic set of technical findings which accurately reflect the current development situation at F3.

These product development technical findings are described in the following categories:

- AS400
 - AutoRelease
 - AutoMap
 - AutoScan
 - VendorRelease
- Eclipz V1
 - VendorRelease interface
 - Enhanced GUI
 - Credit card processing
 - Eclipz V2
 - XML
 - Interface with ERPs, etc.

1. Technical Findings - AS/400

- Core programs represent about 15% of the total RPG code base. The remainder of the code is primarily in the OEM libraries.
- The AutoMap code contains a communications interface, EDI translation and a data maintenance function. Most problems with this code appear to be with the data maintenance function.
- Most OEM libraries have not been converted from RPG to AutoMap. In particular, Ford, Chrysler and GM, which represent about 50% of the OEM code, have not been converted.
- The development staff was unable to produce copies of any functional specs, design specs or system documentation.
- Certain fields in the database reportedly need to be expanded in order to handle future expected growth in the number of trading partners. Due to the large amount of RPG code, the expected effort and cost to perform such modifications are very high.
- The AS400 RPG products are difficult and expensive to maintain, modify or extend.

2. Technical Findings - Eclipz V1

- Eclipz V1 contains about 15K lines of Java code and 11K lines of JavaScript code.
- Three contract programmers from CSC primarily wrote the code. There is also an indication that much of the actual implementation design was performed by these programmers. In addition, there is a contract DBA, also from CSC, who is setting up the Oracle database.
- · There are no copyright notices in any of the code.
- While the code is structured and easy to read, the almost total lack of comments makes it difficult to understand.
- There are detailed functional and design specs for Eclipz V1. However, the actual implementation, while functionally correct, appears to implement more functionality in the client (browser) than is acceptable for thin client designs. I anticipate some potentially significant performance impact as a result.
- While the code appears adequate for an in-house application, it does not appear to be of industrial strength nor written to the higher standards required of commercial applications.
- The demonstrated system did not appear to perform well. In addition, QA also reports that response time was not always good. Development could provide no reasons for the slow response.
- The QA plan for Eclipz V1 does not appear to adequately test the product. In particular, there are no plans to perform either performance testing or stress testing of the system. This is reportedly due to insufficient time being allotted for QA testing.
- There are no user documentation or training materials currently available.
- There are no formal support plans for Eclipz V1 at this time.
- Since contractors performed most of the programming work, Future Three will need to be assured that they have all rights to the code and that no outside code was used in the product.
- While the CSC plans for hosting Eclipz V1 appear to be sound, much of the capacity planning is based upon estimates by Future Three. If the estimates prove to be low, then there is the possibility that insufficient resources will have been allocated by CSC for this task. Furthermore, as no performance testing is scheduled by QA, there is no way of knowing how well the applications or database processors will handle the anticipated volumes.

3. Technical Review - Eclipz V2

- Eclipz V2 is designed to enhance Eclipz V1 value by removing the dependency on Vendor Release and providing for XML capability.
- Future Three intends to achieve this goal by utilizing tools supplied by ICI and some new Java code that is under development at Future Three.
- There are no functional specs or design specs for Eclipz V2. The only document available is a high-level design document produced by ICI in early May. ICI indicates that this design is the result of a change in direction by Future Three.
- There are technical issues between Future Three and ICI that still need to be resolved. The most notable one is in the outbound side of Eclipz V2.
- The process for transferring data into and out of Eclipz V2 appears to be more complex than is necessary at this time.
- The OPSJ rules engine, selected by ICI, is reportedly difficult to use. Furthermore, the company that produces OPSJ may not survive. ICI is investigating alternative products or the possibility of a source code escrow arrangement for OPSJ.
- No data is currently available to allow CSC to adequately determine the infrastructure requirements for Eclipz V2. Much of this data will not be available until after ICI delivers their tools.
- The ICI tools are a work in progress and ICI will require time to complete the development and necessary testing.
- There is no QA plan in place for Eclipz V2.
- · There are no user documentation or training materials currently available.
- The ICI licensed materials (JDBC Elf, Java Elf, Java Gnome and XML Monk) are delivered as binary executables only. There appears to be no provision for either source code access or some form of escrow arrangement for F3. There is no apparent way to determine the quality of the ICI code in advance of its delivery to F3.

In addition, we reviewed various operational processes and organizational responsibilities. The following lists the principal areas covered without any specific findings or comments.

4. Processes

- AS400 development
- Eclipz development
- ► QA
- Documentation
- Training materials
- Support
- Maintenance
- Trading partners/transaction sets
- Consulting and training courses
- Program management
- Business development
- Information systems

5. Organization

- Executive management
- Team managers
- Development staff
- Morale
- Culture/effort level
- Relations
- Communications

Concerns

After examining the current business operations, BGAI identified a number of concerns regarding development and other related operations:

1. Organization, Management and Resources

- There are far more customer support and service personnel than development people
- · Consulting services are not integrated with development
- There is a new management team: CEO; Synapz president (Sales and Marketing and Industry Relations); Support, Services and Consulting VP; Finance, Administration, Human Resources and Legal CFO. There are still key two missing players: Sales VP and Development VP
- Lack of second-level management in Development and QA
- Expensive, but probably valuable, senior staff (Pittman, Alderson, Kingery)
- In general, all those interviewed felt that communications within the company had improved. However, information still does not always reach the lower levels (or even first line managers) in a timely fashion.

2. Strategy and Direction

- What is the future direction for AS400 Auto Release, Vendor Release, AutoMap and AutoScan programs and customers? Need growth and migration strategy for AS400 products and customers
- New market plan is almost entirely ASP oriented. This would imply that the market need is different for the two separate offerings (EDI and Supply Chain)?
- Need long-range strategy for Eclipz product line

3. Marketing and Sales

- Does F3 understand and have the skills to be a strong supply chain competitor in automotive?
- Is the shared database transaction vision really appropriate using a third-party ASP or is it more appropriate for OEM and tier I manufacturer installations
- Are tier 1 customers establishing customized requirements (like OEMs)?
- Marketing plans for Eclipz V1 and V2 need to be articulated
- · Effect and integration of XML and ANX with current and planned offerings

4. AS400 Development and Support

- Development is not responsible for trading partner and transaction set programming
- · Customer support and service are making enhancements and changes to AS400 programs
- There still seems to be a serious backlog on open maintenance and customer services projects, but much improved from earlier in 2000 and previous years.
- Where are the product and development standards? Where are the other process descriptions and monitoring? Where is the training of the people to use these standards?
- The AS/400 product is a mature product. However, the cost to maintain it is unusually high. Part of this is due to the large amount of RPG code still being carried in the OEM libraries. Any effort that significantly shrinks this code base will result in decreased maintenance costs.
- AutoMap implements both the translation and the data maintenance functions. While the translation part seems to work well, the data maintenance part does not. By splitting the process into two parts, Future Three could simplify the overall process, provide a more useable user interface and allow a customer to use an alternate EDI translator.

5. Eclipz Development

- Development is heavily dependent on third-party analysts/programmers for Eclipz V1 and V2
- Need clear program management responsibility for Eclipz V2 along with project management development
- Documentation, Education, Customer Support and Services, Consulting Services and QA do not appear to be well-prepared for Eclipz V1 or V2 releases
- Tight release schedules have precluded effective documentation of programs, and comprehensive tests for Eclipz V1 and for specifications and documentation of design, programs and tests for Eclipz V2
- Tight schedules and inadequate planning may limit effectiveness of QA and Beta test for Eclipz V1and V2
- Limiting release to ASP only for Eclipz V1 and V2 may limit technical exposure, but use
 of a third party may still make maintenance and modification relatively difficult
- Custom sales proposals to GM and others may interfere with Eclipz V1 and V2 and follow-on development
- · Where are the market requirements and the competitive analyses for the Eclipz products?
- Eclipz V2 is almost totally dependent on ICI technology. Is there any backup plan?
- Eclipz V1 and Eclipz V2 are being treated as two separate products, each with its own development team. While there are historic reasons for this structure, it will lead to future problems, since Eclipz V2 is clearly dependent on the code from Eclipz V1. While the input and output formats are different, the underlying application is the same.
- The contract programmers working on Eclipz V1 may not have had adequate supervision during the development cycle. Furthermore, it appears that they may have had too much influence in actual implementation decisions.
- The lack of adequate functional specs for Eclipz V2 and knowledge of the ICI tools has prevented the formulation of a comprehensive QA plan.
- There was a general feeling that Eclipz V1 was being rushed to production. Indeed, the current dates are unrealistic, as they do not provide for adequate testing.

- The Eclipz V1 code will probably need modifications to move more of the functionality from the client to the server. It's not clear from the documentation whether the fatter client was by design or as a result of implementation decisions. Whatever the reason, the implementation will need a more detailed review.
- There was notable stress between the Future Three Eclipz V2 development team and the development team at ICI. The Future Three staff feels that the ICI developers do not fully understand the logistics of the automotive industry and hence are not sensitive to their needs. In addition, the Future Three staff indicates that they have been requested to make changes to their code on several occasions in order to accommodate the ICI tools.

6. Financial

- Is there sufficient investment money available to build new product line and maintain/enhance existing product line? The development and support plan appears to be constrained by the amount of cash available from AS400 profits.
- Isn't the investment for supply chain management and for EDI partially "wasted" by just being automotive focused. The technology should also be usable in many other industries.

SECTION V. Action Recommendations

Based on analyzing the materials received, interview notes, findings and concerns, BGAI believes that a number of significant business actions are needed to obtain full value from both the current customers and products and from the new market opportunities with their associated product development activities.

We have organized the action recommendations into the following categories:

- AS400 development
- Eclipz V1 and V2 development
- AS400 operations
- Eclipz operations
- AS400 business planning
- Synapz business planning
- Organization structure
- Other Action Recommendations

A. AS400 Development

- AS400 AutoMap should be overhauled to:
 - Separate translation from data management
 - Make screens usable by users not just programmers
 - Provide opportunity to have customers use other translators
- Initiate an aggressive project to convert all significant OEM RPG libraries using AutoMap to:
 - Reduce maintenance and modification effort/time
 - Permit making database modifications
 - Reduce new trading partner implementation effort required
- Produce and update necessary system documentation to provide a solid base for future product plans

B. Eclipz V1 and V2 Development

- Combine into one development team
- · Focus principally on Eclipz V1 for timely, quality delivery
- Commit to achievable delivery dates for Eclipz V1
- Bring all support functions into the process now to ensure customer satisfaction on initial delivery
- · Perform full function and performance quality assurance testing
- Establish complete program objectives and plans for Eclipz V2

- Integrate ICI components with F3 Eclipz V2 programs
- Work out Eclipz V2 implementation plan with CSC
- Commit to new schedule for beta test and phased release for Eclipz V2

C. AS400 Operations

- Operations plans and integrated management should include specifically the functions of
 program development, program maintenance, customer support, documentation, quality
 assurance, training (materials and courses), new trading partner/transaction development
 and modifications, and consulting services regardless of how currently organized.
- Each of these AS400 operations should be analyzed in terms of purpose, processes, staffing, structure, tools and performance.
- Team efforts should be organized with representatives from each relevant organization led by designated individuals; each should have specific performance and cost improvement targets with explicit date objectives for various process changes.
- An appropriate reorganization and restructuring of all of the AS400 operations functions should be proposed to ensure accountability, concentration of skills and efficient execution of processes.
- A comprehensive information processing system should be designed and put in place to plan and track all projects (new, modification or maintenance) from initiation through closure.

D. Eclipz Operations

- Starting with a clean slate, all of the operations needed to produce an ASP-based start-up business should be defined and structured for near and longer term.
- Processes and procedures should, where possible, be modeled after updated AS400 systems and practices so as to reuse information systems capability and minimize retraining.
- The number of managers should be kept to a minimum until volumes dictate staff increases and separation of functions.
- Establish teamwork pattern from beginning with strong cooperation with sales and marketing.

E. AS400 Business Planning

- The F3 AS400 AutoRelease market needs to be reexamined to determine the future needs of the current customers. The goal is to be able to retain and possibly grow each customer through add-ons, upgrades, new functions, enhanced pricing or premium services, training and consulting services, interfaces to Eclipz and additional trading partners or transaction sets.
- The remainder of the U. S. automotive AS400 market needs to be reexamined to determine if there is any likelihood for penetrating these prospects who are currently using home grown solutions or using competitive products. What additions or changes to the F3 AS400 products would be needed to enable these prospects to justify switching to the F3 AutoRelease System?
- The market potential for F3 AutoRelease System outside of the U. S. should be examined again to size the market and its structure and the projects which would be required in order to make a significant penetration into this marketplace.
- Using realistic cost estimates based on the product improvement plans described in SectionV.A. and the process improvement plans described in Section V.C., business cases can be formulated to determine the most profitable strategy to follow to exploit the large inherent value in the current F3 AS400 products and its installed customer base.

F. Synapz Business Planning

The Synapz business has identified one major new opportunity to use modern Internet-based, Web-enabled technology to establish tier 1 to supplier linkage. But this is just the first concept to come from taking a fresh, startup view of the automotive order fulfillment management activities and how the new standards and implementation technologies can open doors for other products and services:

- The Eclipz business plans should be focused exclusively on providing efficient, effective ASP capabilities for tier 1 companies to integrate even their smallest suppliers into an Internet-based electronic order fulfillment system.
- A fresh, current business case should be built for Eclipz V1and V2 together for VendorRelease and general ERP interfaces operating on an ASP basis by CSC and appropriately using the ICI developed tools.
- A full-scale business plan should be created for Eclipz (Supplier Networks) which goes beyond V1and V2 to establish F3 as a leader in the ASP marketplace and for possible use on Intranets and Extranets by large tier 1 companies.

- A new strategy and business plan should be constructed to address the following opportunities:
 - Providing AutoRelease-like functionality to tier 1 companies using UNIX for their OEM order management activities
 - Providing a migration path for F3 AS400 AutoRelease customers who wish to move to other platforms
 - Providing a technical capability to serve other target industries for order management

G. Organization

In order to effectively plan, organize, implement and measure the two separate F3 businesses, BGAI recommends that the following business-unit oriented structure be considered, reporting to the F3 CEO:

- AS400 Business Unit
 - Development Architecture/standards

Sales

- Maintenance
- Documentation
- Training materials
- Quality Assurance

Consulting/training courses Trading Partners/transactions

- Synapz Business Unit
 - Marketing Business development
 - Sales
 Program management
 - Alliances
 Consulting and training
 - Industry relations
 Trading Partners/transactions
- Eclipz Development and Support
 - Development
 - Maintenance
 - ► QA
 - Support
 - Documentation and training materials
 - Architecture/standards
- Finance and Administration
 - Accounting
 - Administration
 - Human resources
 - Information systems
 - ► Legal

H. Other Action Recommendations

There are certain other areas where F3 can act to further improve business performance:

1. Employee Participation/Communication

- Keep managers and employees abreast of product and marketing plans so that resource planning and employee retraining can keep pace with operational needs.
- Establish programs to obtain employee commitment to current and new business directions; commitment relates to productivity, quality and team effort.
- Executives must lead in elimination of departmental walls through personal interaction and the attitudes communicated to their managers and employees

2. Business Operations Measurement

- For each manager, suitable performance measures need to be established and incorporated in the elements considered for personnel rating recognition and reward.
- Financial results should be analyzed by product and process and compared to business targets and objectives frequently.
- Business plans should be built bottom up with inputs and projections from each manager as well as top down using input from the operations executives.

3. Internal Investment and Acquisitions

- A clear investment plan needs to be formulated with Summit Partners as to their position regarding the ability to invest fresh money (besides AS400 product earnings) in the new supply chain networking business.
- A make and buy strategy needs to be formulated to establish the basis for identifying and selecting potential acquisitions and partnerships to fill product, service and marketing gaps for F3 to be able to become a premier supply chain networking provider.
- F3 needs to examine how to obtain extra value from its investment in networking through appropriate partnerships or technology licensing for other industries.
- In setting up what is effectively an automotive B2B portal, F3 needs to capitalize on its unique trading partner/ transaction knowledge to limit competitive entry by larger, multi-industry companies
- Explicit business cases should be produced for each major development or proposed acquisition, justifying the investment proposed.
- With an effective business unit type organization and sound measurements and financials for each business unit, F3 and Summit Partners can decide what approach to take for realizing long-term value through continued integration of the business, sale of either part of the business or an IPO of the supplier chain network business.



Professional Summary

Burton Grad, President of Burton Grad Associates, Inc. (BGAI), has a long record of significant contributions to the computer software and services industry. He has experience both as a user and developer of application and systems products and as consultant, innovator, businessman and leader in the computer software and services industry.

Since 1978 he has been a consultant to companies providing software products, software professional services, processing services and other computer software and services offerings:

- Strategic planning, management and organizational consulting, and product analysis, evaluation and review
- Company and product acquisition studies including due diligence and valuation for financial capitalization and write-off purposes
- Planning, assessment and analysis of business operations including quality and productivity measurements

Work is performed personally or with the assistance of experienced specialists in market analysis, customer services, systems programs and industry applications on mainframe and departmental computers as well as on client/server and personal computer systems.

This is a partial list from the more than 175 BGAI clients:

Broadview Associates	i2 Tec
Budgeting Technology, Inc.	Infosa
CIBER, Inc.	Keane
DA Consulting Group	Mediv
Decision Consultants, Inc.	Platin
Discount Investment Corporation	SPSS,
Elron Software, Inc.	Sterlin
Geocapital Partners	Sterlin
Grace Consulting and Technologies	TSI In

i2 Technologies, Inc Infosafe Keane, Inc. Mediware, Inc. Platinum Technology SPSS, Inc. Sterling Commerce, Inc. Sterling Software, Inc. TSI International

Work Achievements

Burton Grad Associates, Inc. (1978 - Present)

- * Strategic planning, management and organizational consulting, and product analysis, assessment and review
- * Company, product and technology valuation studies for financial, tax, capitalization and acquisition purposes
- * Due diligence studies on acquisitions of computer software/services companies
- * Business assessment studies and implementation projects for product strategy, development, quality management and customer service

Customer Care, Inc. (1992 - 1996)

- * Published *CustomerCare Newsletter* and *CustomerCare Survey* directed at software companies' customer services activities: support, documentation, training and product-related consulting
- * Provided consulting on customer service processes, and training for customer service personnel

Heights Information Technology Service (1979 - 1983)

- * Performed professional services for applications and systems development
- * Used professionals on a remote, work at home basis with effective project management

International Business Machines Corporation (1960 - 1978)

- * Definition, design and implementation of application development systems strategy resulting in release of IBM's development management systems
- * Development of application programs for every major industry
- * Establishment of joint planning and programming development with European operations
- * Announcement, development and initial support of CICS
- * Management of application development for small business and process control systems
- * Responsibility for the production, release and maintenance of almost 200 programs
- * Conception of approach to and programs for text processing and office automation systems
- * Development and expansion of computer based training systems
- * Development of management science and scientific programs
- * Participation in the structuring and unbundling of IBM program products
- * Creation of the Study Organization Plan for specifying and designing application systems

Burton Grad

General Electric Company (1949 - 1960)

- * Programming of the first commercial computer (Univac I in Louisville)
- * Development of discrete simulation techniques for manufacturing planning and control
- Invention of decision tables
- * Study of automated factory design and implementation
- * Initiation and use of advanced techniques for production, inventory and quality control

Other Professional Activities

1972-1996 ITAA

- * Computer Software and Services Trade Association
- President, Treasurer and Board member of American Software Association Division of ITAA
- * Member of ITAA Board
- * Chair and member of various committees (Industry Relations, Software Capitalization, Software Openness, Technology Information Services, Quality Management)
- * Executive Committee of Information Technology Foundation (Project Office)
- 1968 and 1979 Principal author of *Management Systems*, published by Holt, Rinehart and Winston. Used for colleges and businesses for computer application system methodology and design.
- **1950-Present** Speaker and chair at conferences and workshops and contributor to professional journals on various information technology subjects including decision tables, quality control, systems engineering and software capitalization.

Burton Grad Associates, Inc. 101 Post Road East Westport, Connecticut 06880 (203)222-8718 (203) 222-8728 FAX

EDUCATION

1949	Bachelor of Management Engineering Rensselaer Polytechnic Institute Troy, New York
POSITION HISTORY	
1978-Present	Burton Grad Associates, Inc., Founder and President Consultants to computer software and services companies
1992-1996	CustomerCare, Inc. Chairman Publisher and Consultants for software company customer services
1978-1984	Heights Information Technology Services, Inc., Founder and President Professional software services
1960-1978	International Business Machines Corporation Consultant - IBM Research Lab Director of Development - Data Processing Division (DPD) Manager - Development Services and Scientific Application Programs (DPD) Manager - Technical and Scientific Development (DPD)
1949-1960	General Electric Company Consultant - Advanced Application and Systems Development, Production Control Services Manager - Production Control Operation - Large Steam Turbine Divisior Manufacturing Training Program

Professional Profile Communications and Network Related Projects

Major International Chemical Manufacturer

Requirements analysis and design of the global network connecting the various product design centers worldwide. The network is currently implemented using Token-Ring and Ethernet local area networks connected via private TI/T3 service, Fiber links, Asynchronous and Synchronous dial connections, X.25 packet connections and SAA connections to the mainframes. Through this network, the chemists worldwide can share data and work together on new creations. The actual mechanism used to route any given "transaction" is dependent on the required response time for that transaction. Those that are "urgent" or require a timely response are routed via an appropriate network connection. The lower priority data replication messages are batched and sent using a cheaper network route.

Software Products Company

As part of a strategic planning study, analyzed various current and proposed message/document interchange models to establish requirements for an integrated messaging system, including analysis of transport mechanisms and use of available communications software packages.

Major Software Products and Services Company

As part of a study to determine whether to centralize company development and processing services, prepared requirements statement for installing an integrated communications network to cover development, processing services and corporate administration as well as telephone and fax services.

Network Services Provider

As part of a technical due diligence for an acquisition, performed an analysis to determine possible methods for connecting the newly acquired customers to the client's VAN. Analysis included the possibility of connecting the VAN to the packet network used by these customers. In this way, the packet service could reroute the customer transactions to the VAN. As customers were migrated from the packet network to the VAN, service on the packet network would decrease and eventually would cease, at which time the connection to the packet network would no longer be required.

Major Financial Institution

Designed and implemented a corporate-wide customer service network including the use of small computers (replacing mainframes), leased lines, dial-in backup units and other interconnect facilities for regional processing centers.

Information Request List

A. General

- 1. Organization chart and staffing levels
- 2. Business strategy and operation plans
- 3. Profiles of senior managers

B. Sales

- 1. Revenue and unit history by product line, geographic territory and types of revenue
- 2. Mix of new sales, maintenance, add-ons, upgrades and services
- 3. Backlog and current pipeline
- 4. Pricing and discount plans
- 5. Win/loss records and analyses

C. Marketing

- 1. Major customer analysis with revenues for 1998 and 1999
- 2. Resellers, alliances and partnerships
- 3. Product and service descriptions
- 4. Principal competitors
- 5. Auto Network Exchange (ANX) and its market impact

D. Customer Service and Support

- 1. Outstanding customer problems
- 2. Past year history of problems and time to resolve
- 3. Statistics and reports on product reliability and support requirements
- 4. Any customer satisfaction surveys or data
- 5. Customer base with historic growth and erosion

E. Professional Services

- 1. Customer requirements for professional services
- Past year history of professional services activity (customers, activities, revenues, direct costs).
- 3. Pipeline for professional services

F. Development: Current Products; New Products

- 1. Organization and training of development people
- 2. Development methodology
- 3. Scheduled enhancements/customer commitments
- 4. Current maintenance activities
- 5. Current development projects
- 6. Testing and quality assurance procedures
- 7. Effort and cost records for development
- 8. Product release and update procedures
- 9. Installation procedures
- 10. Availability and procedures for international usability and service in non-automotive industries and internationally
- 11. Use of third party developers
- 12. Detailed review of schedule and progress for new product releases

G. Technical Review: Current Products; New Products

- 1. Supported platforms and systems for each product
- 2. Major features of the products -
 - · functions performed
 - ease of installation and use
 - maintainability
 - · audits and controls
 - security
- 3. Development languages and special tools used
- 4. Number of programs per product and lines of code
- 5. Provenance of all program modules (where did code come from)
- Inclusion of proprietary notices in source and object modules, both current and previous releases
- 7. Method of change control
- 8. Volume and magnitude of change history
- 9. Number of product releases being supported
- 10. Architecture of the programs
- 11. Internal system documentation level and updates
- 12. Documentation of specifications and design
- 13. Prerequisites for running the products
- 14. Examination of source code
- 15. Access to usage/demo of operational code
- 16. Unit and system test cases

Materials Received — Future Three

- 1. Sample Project Status Report Consulting Services, 5/24/00
- 2. Newspaper Article: Future Three...Supply Chain Software
- 3. Executive Profiles: Paul, Winkelmann, Ternes, Flavin
- 4. Beta Test Best Practices: David Broccardo, 4/27/00
- 5. Program Management Best Practices Guide, 5/30/00
- 6. Project Status Report: Eclipz Phase II Beta 5/19/00
- 7. Organization Chart
- 8. CEO Reports: John Flavin, 4/6/00, 2/16/00, 1/28/00
- 9. Eclipz Phase II Beta: Software Requirements, 5/8/00
- 10. VendorNet Enablement: CSC Technical Design, 4/20/00
- 11. User Group Conference Survey, 6/99
- 12. Customer Satisfaction Survey, 1/99
- 13. Customer Services Development: Various Reports, 1H00
- 14. Customer Services: Support Line Statistics, 6/00
- 15. In-Process Customer Satisfaction Survey, 6/00
- 16. Eclipz Version 1: Product Planning Guide, 6/9/00
- 17. Marketing Materials: Products, Services
- 18. Sales Pipeline, 6/12/00
- 19. Software, Maintenance and Consulting Services Price List, May 2000
- 20. Strategic Network of Alliances and Partnerships (Kingery)
- 21. Maintenance Trend Analysis (Ternes)
- 22. New Customers/New Sales Analysis (Ternes)
- 23. Headcount by Department (Ternes)
- 24. Operating Plan: FY00 (Ternes)
- 25. Consulting Services Budget and Utilization: FY00 (Winkelmann)
- 26. Supplier Peak Performance Program (Winkelmann)
- 27. Education Services Course Catalog (Winkelmann)
- 28. Consulting Services for Auto Suppliers (Winkelmann)
- 29. Competitive Analyses (Marsolais)
- 30. Supply Chain Linking: Web Enablement Design Document (Broccardo)
- 31. Proposed CSC Eclipz Web Hosting Statement of Work (Broccardo)
- 32. Eclipz Program Plan (Broccardo)
- 33. Standards Plan for Eclipz GUI (Bridson)
- 34. New Development Projects: 5/15/00 (Nissimov)
- 35. Future Three Product Architecture (Nissimov)
- 36. Vendor Release 5.0 Plans including Vendor Release System Plan (Nissimov)
- 37. Auto Release Interface Testing (Nissimov)
- 38. Automap Flow Diagrams and Interfaces (Nissimov)
- 39. VendorNET (Eclipz V1): Impact Analysis to Vendor Release 5.0 (Kormos)
- 40. Customer Services: Priority 1 Issue Procedure

- 41. Twelve-Step Process: Customer Support/Service
- 42. Summary Statement of Operations 1Q98-4Q00 (with maintenance analysis)
- 43. ANX Project Overview 6/16/00 with ANX descriptions
- 44. Automotive Supplier Report--XML and EDI: The Next Generation Format of Business Information Transfer
- 45. Shipper Prototype Plan: Eclipz V2 (6/19/00)
- 46. Documentation Department and Education Services: Course Materials/User Manuals
- 47. Customer Services Development Process Flow
- 48. Other Support Stats 2000
- 49. Customer Support: AS400
- 50. Quality Assurance Project Status Information
- 51. Quality Assurance VendorNET Test Plan (Eclipz V1)
- 52. Eclipz Network Diagram
- 53. Future Three Executive Summary (Business Description)
- 54. Future Three Market/Product Plan Structure
- 55. Consulting Services P&L (2000) and Utilization
- 56. Future Three Pro Forma Statements for Eclipz and AS400 (2000)
- 57. Employee Head Count Changes with Terminations and Hires
- 58. Additional Quality Issues (Hart)
- 59. Analysis of Backlog of Projects
- 60. Eclipz Marketing Plan Summary
- 61. Product Defect Procedure
- 62. Eclipz Revenue and Cost Projection Model
- 63. Eclipz Program Status
- 64. Information Systems Internal Applications

Interviews Conducted June 26 - 28, 2000

Jessie Alderson	Johanna Milz	Johanna Milz					
Dave Bridson	Ralph Nissimov	Ralph Nissimov					
Dave Broccardo	Angie Parker						
Paul Byrd	Bob Paul						
John Flavin	Lee Pittman						
Jeri Hart	Sue Proctor						
Jamie Herman	Debbie Templeton	Debbie Templeton					
Chantel Jazowski	John Ternes						
Cathy Jensen	Pat Toufar						
Vic Kingery	Jim Trela						
Kevin Kormos	Nancy Vogrin	Nancy Vogrin					
John LaLiberte	Mark Winkelmann	Mark Winkelmann					
Debbie Littlepage	ICI Representatives:	Tony Stirtzinger,					
John Marchi		Kent Bimson					
Richard Marsolais	CSC Representative:	Philip Thies					
Bill McGee							

Interview Schedule June 26 - 28, 2000

Monday A. M.		BGAI
Kickoff Business Presentation Alliances Marketing, Business Development and Industry Relations Eclipz V1Technical Review	Flavin, Winkelmann, Ternes Flavin, Winkelmann, Ternes Kingery, Alderson, Toufar Marsolais, McGee, LaLiberte, Pittman Byrd, Broccardo, (Kormos, telephone)	BG, SD BG, SD BG BG SD
Monday P. M.		
Eclipz V2 Technical Review QA: Eclipz V1 and Eclipz V2 AS400 Development, Maintenance and QA AS400 and Eclipz Customer and Support Services AS400 and Eclipz Documentation and Education Discussion & Planning	Bridson, Herman Hart, Milz Nissimov, Hart, Parker Jazowski, Vogrin, Parker Jensen, Proctor Flavin, Paul, Winkelmann, Ternes	SD SD BG BG BG BG, SD
Tuesday A. M.		
AS400 Technical Review AS400 and Eclipz Transaction Sets and Trading Partners Financials: Revenues, Costs, Measurements Consulting Services Human Relations Consulting & Support Services	Nissimov, Parker Parker, Bridson, Nissimov, Broccardo Ternes Littlepage, Trela Templeton Winkelmann	SD SD BG BG BG BG
Tuesday P. M.		
Third Parties and Development Tools ICI (Eclipz V2) CSC (ASP) AS400 Migration Synapz Business Overview F3 Business Overview	Stirtzinger, Bimson Thies McGee, LaLiberte Paul Flavin	SD SD BG BG BG, SD
Wednesday A. M.	·····	
Trading Partners Program Management Information Systems Preparation of Presentation and Preliminary Report	Parker Broccardo Marchi	BG BG BG BG, SD
Wednesday P. M.		******
Presentation and Discussion	Flavin, Paul, Winkelmann, Ternes	BG, SD

f3



6/7/2000

Appendix C-1 (6 pages)

1

e-Commerce



Development



Jacqueline Frost

f3

Customer Service



6/7/2000

4

Consulting Services



6/7/2000

f3



Rambabu Kalidindi

Employees by Organization Budget June 2000

Customer Support	21
Customer Service	30
Consulting Services	23
Product Development Development: 13 + 3 consultants Documentation and Education: 8	23
Quality Assurance	16
Sales	11
Marketing	4
Channels	7
Industry Relations	2
Internal Systems	8
Finance and Administration	_13
Total	158

Future Three, Inc. Headcount by Department FY.00

	Dec.98	Jul.99	Sept.99	Dec.99	Mar.00	Apr.00	May.00	Jun.00	Jul.00	Aug.00	Sept.00	Oct.00	Nov.00	Dec.00	99 v 00 Change
					Budget	Budget	Budget	Budget							
Customer Support	21	20	22	22	20	20	21	21	21	22	24	24	24	24	
Support Development	26	32	31	30	28	28	29	30	30	32	33	27	24	24	2
Services	28	24	24	25	22	23	23	23	24	27	27	07	07	33	3
Product Development	23	26	26	22	19	19	20	23	27	21	21	21	21	21	2
Quality	12	16	13	13	14	15	16	16	10	30	30	36	36	36	14
Sales	6	8	8	10	10	10	11	10	10	10	16	16	16	16	3
Marketing	3	4	4	4	3	10		11	14	14	14	14	14	14	4
Channels	1	2	7	-	5	5	4	4	5	5	5	5	5	5	1
Inductor Deletions	1	4	2	2	D	5	1	7	8	8	8	8	8	8	6
industry Relations	3	3	3	3	2	2	2	2	2	2	2	2	2	2	(1)
Internal Systems	6	7	6	5	8	8	8	8	8	8	8	8			11
Administration	9	14	14	14	13	13	13	13	13	13	13	13	13	13	(1)
	138	156	153	150	144	146	154	158	168	182	186	186	186	186	26

Future Three, Inc. Employee Headcount Changes March 31, 2000

		A	Employe	es at mo	onthend	1.1		Activity for Quarter ended May 31, 2000				
Department	<u>Jun-99</u>	Dec.99	<u>Jan.00</u>	Feb.00	<u>Mar.00</u>	Apr.00	May.00	Hires	Terms	Out	In	Turnover
Development	36	22	23	22	20	21	17	5	(9)	(1)		33 3%
Quality	16	13	12	13	13	14	16	4	(1)		1	5 9%
Customer Support	20	22	20	22	22	23	24	5		(3)		0.0%
Suport Development	16	31	31	32	31	31	30	2	(5)		2	15 2%
Services	31	24	26	24	26	27	26	9	(6)	(1)	-	18 2%
Sales	11	14	14	9	10	11	14	5	(6)			31 6%
Marketing	5	4	4	4	3	3	3	-	(1)			25.0%
Industry Relations	3	3	3	3	2	2	2	-		(1)		20.0%
Channels	1	2	3	3	5	5	5	1		(1)	2	0.0%
Internal Systems	7	5	5	7	7	7	8	1			1	0.0%
Administration	17	14	14	15	12	12	12	2	(4)	-	-	25.0%
	163	154	155	154	151	156	157	34	(32)	(6)	6	17.0%

Future Three, Inc. Employee Terminations 2000

		Date	<u>Date</u>	Name	Title	Dept
1		1 08/16/99	01/07/00	R. Potasnik	Training Consultant	Candian
2	2	2 06/01/99	01/14/00	L. Plaver	Accounting Managar	Services
3	:	3 03/23/98	01/14/00	K. Sparks	HR Assistant	Admn
4	4	4 03/17/97	01/31/00	G. Rutkowski	Quality Assurance Analyst	Admn
5	5	5 08/09/99	01/31/00	J. Gillespie	Director of Dovelopment	Quality
6	6	6 01/10/00	01/31/00	J. Bost	Adv Developer	Dev
7	1	09/21/88	02/02/00	B. Lewis	VP of Sales	Salas
8	2	2 11/19/90	02/02/00	B. McGee	Sales Manager	Sales
9	3	06/28/99	02/02/00	K. Schmenke	Sale Representative	Sales
10	4	01/01/94	02/11/00	J. Oehlers	Sales Representative	Sales
11	5	12/13/99	02/11/00	C. Jones	Sales Representative	Sales
12	6	11/04/91	02/11/00	J. Smolinski	Director of Consulting	Sales
13	7	07/13/84	02/11/00	D. Maiorana	President	Services
14	8	10/23/95	02/25/00	C. Hechtman	Application Consultant	Sup Dev
15	9	10/23/95	02/25/00	D. Ellis	Consultant Services Sales Bon	Services
16	10	10/15/90	02/28/00	B. Nowak	IPA Director	Services
17	11	04/13/98	02/29/00	E. Fanelli	AS/400 Manager	Dev
18	12	05/07/90	02/29/00	R. Bouchard	Receptionist	Admin
19	13		02/29/00	W. Keyes		Admin
20	1	09/13/90	03/10/00	P. Fenwick	Marketing Director	Markotina
21	2	03/23/98	03/03/00	K. Zamboni	Internal Trainer	Development
22	3	04/04/96	03/24/00	M. Durham	Sales Representative	Salos
23	4	04/09/91	03/24/00	T. Petrey	Application Analyst	Supp Dev
24	1	04/19/99	04/20/00 1	M. Medlen	Training Consultant	Services
25	1	06/05/95	05/05/00	J. Callahan	Project Leader	
26	2	12/14/98	5/19/00	James Maynard	Advisory Application Developer	Support Dev
27	3	01/12/98	5/16/00 0	Glenn Puro	Project Leader/Integrated Dred	Support Dev
28	4	06/14/99	5/19/00 E	Bill Ciegla	Technical Writer I	Support Dev
29	5	10/19/98	5/19/00	lennifer Gaffan	Training Design Specialist	Development
30	6	03/09/98	5/12/00 0	Dave Fisher	Training Consultant	Development
31	7	10/25/99	5/16/00 7	om Klaban	VP of Development	Services
32	8	02/15/99	5/19/00 F	Rick Elliott	Application Developer	Development
33	1	04/17/00	6/1/00 J	eff Warren	Application Developer	David
34	2	04/19/99	6/8/00 F	Robin Tamm	Training Consultant	Services

Future Three, Inc. New Employees 2000

	Date Name	Title
1	01/03/00 G. Gerth	Admn Assistant
2	01/10/00 J. Bost	Adv Developer
3	01/26/00 D. Littlepage	Tech Services Director
4	01/24/00 C. Kelly	Implementation Consultant
5	01/24/00 J. Trezano	Custome Support Level II
6	01/24/00 U. Amir	Snr Developer
1	02/07/00 T.Turnbull	Implementation Consultant
2	02/07/00 C. Jerue	Technical Writer
3	02/21/00 P. Correy	Quality Assurance Analyst
4	02/28/00 K. McCloud	Receptionist
5	02/28/00 L. Barr	Administrative Assistant
1	03/07/00 E. Torres	Adv Developer
2	03/09/00 B. Paul	E-Commerce President
3	03/13/00 P. Fiedler	Customer Support Rep
4	03/13/00 D.Locey	Consultant
5	03/16/00 K. Atchison	Snr Sales Executive
6	03/27/00 T. Wheeler	Implementation Consultant
7	03/27/00 W. Mehmood	Implementation Consultant
8	03/27/00 S. Croy	Sales Representative
1	04/03/00 D. Brod	Implementation Consultant
2	04/10/00 C. Wallace	Implementation Consultant
3	04/17/00 L. Baker	CSR Level I
4	04/17/00 J. Warren	Development
5	04/17/00 V. Shaouni	Quality Assurance Analyst
6	04/24/00 B. McGee	Director of Bus Developmer
1	05/01/00 V. Evans	Application Analyst
2	05/01/00 S. Lozen	Senior Sales Rep
3	05/01/00 J. LaLiberte	Director of Bus Developmer
4	05/01/00 R. Kalidindi	RPG Programmer
5	05/15/00 S. Jacobs	Snr Customer Support III
6	05/22/00 R. Mersolais	Direct of Marketing
7	05/22/00 R. Baugher	Quality Analyst
8	05/22/00 J. Frost	Quality Analyst
9	05/30/00 K. Feger	Advisory Application Analys
1	06/05/00 M. Sprinkle	Technical Writer
2	06/05/00 S. DeLange	Application Developer
3	06/19/00 S. Davis	Technical Writer
FUTURE THREE PRODUCT ACHITECTURE - AS 400



Appendix C-3 (11 pages)

AutoRelease

Engineered for Automotive Suppliers

AutoRelease is designed specifically for your company's needs in a changing automotive supplier environment.

AutoRelease, via EDI, automatically pulls releases and JIT schedules from your customers, processes them to the exact specifications for each trading partner, and tracks your CUMs while feeding net demand into your manufacturing system.

AutoReleas

AutoRelease features:

- release accounting
- shipping control
- configurable interface
- EDI maintenance
- archiving

At ship time, net requirements are compared with availability in finished goods inventory. The shipper, ASN and other shipping documents are prepared automatically.

Bar code labels can be scanned to verify the shipment, or to create the shipping paperwork. AutoRelease then updates your inventory, accounts receivable and general ledger modules.



AutoRelease

Meet customer requirements

AutoRelease provides support for over 120 trading partner requirements and their transaction sets in automotive, heavy truck, and manufacturing industries. AutoRelease is coded specifically for each OEM's unique requirements and updated for every change made to transaction sets. AutoRelease keeps you current with customer's business practices.

Save time with integrated business application

Interface with a wide variety of popular manufacturing software applications. AutoRelease works with your choice of MRP, scheduling, inventory, accounts receivable, general ledger, sales analysis and repetitive modules. The interface is configurable, allowing you to tie it into a customized system regardless of hardware platforms.

Save time retrieving information

Archive history of your releases/requirements, bar code labels, shipping and invoice documents, and ASNs, allowing you complete access to all this information on-line.

Easily manage your customer business

Track cumulative year-to-date shipping and requirement figures for the model year by customer, part number, and shipping destination. AutoRelease makes it easier for automotive suppliers to reconcile CUMs with manufacturing customers.

Flexible processing of JIT or weekly releases

Use any combination of requirement-bearing transaction sets by destination to provide flexibility for both your production scheduling and shipping needs. The system monitors your current demand schedule, tracking whether you are ahead or behind schedule in shipping. Adjustments are made automatically in AutoRelease to accommodate demand discrepancies.

Save time creating invoices

Automatically create invoices from shipments made. Invoice information is immediately passed to update your business system and ensure quick payment for deliveries.

800.444.2488 www.future3.com 41780 Six Mile Rd. Northville, MI 48167



demand management solutions have helped automotive suppliers since 1983. Future Three seamlessly integrates EDI, automotive release accounting and shipping control systems, and continues communication down the supply chain with our vendor demand application. A configurable interface works with numerous MRP, inventory and financial applications. Users automatically receive enhancements and OEM updates; a bar code label and scanning application speeds shipping. Future Three also offers comprehensive training, education, customer service, and consulting services.

Future Three's fully integrated



AutoMap

Future Three's Powerful Mapping Tool Engineered for Automotive Suppliers

Automotive suppliers now have the power to map routine transaction sets of standard business practices using their own in-house expertise. Future Three's AutoMap Configuration Tool provides the capability to efficiently create and manipulate specific EDI maps to meet the requirements for automotive trading partners.

The AutoMap Configuration Tool addresses the majority of major transactions sets within set parameters, including Daily Production Requirements (862), Material Releases (830), Purchase Orders (850), Advance Ship Notices (856), PO Acknowledgements (860), Text (864) and Functional Acknowledgments (997).

With the Tool, users enter and maintain their own EDI maps directly into Future Three applications. The maps translate EDI data to and from Future Three database files.

Designed to maximize flexibility and efficiency, AutoMap Configuration Tool puts the power to develop and modify specific EDI maps in your own hands. The Tool eliminates the need for programming modifications when maintaining maps, and integrates requirement data directly with Future Three applications. This gives you a flexible, consolidated and efficient approach to EDI communications. Future Three's fully integrated

demand management solutions

have helped automotive suppliers

since 1983. Future Three

seamlessly integrates EDI, auto-

motive release accounting and

shipping control systems, and

continues communication down

the supply chain with our vendor

demand application. A

configurable interface works with

numerous MRP, inventory and

financial applications. Users

automatically receive enhance-

ments and OEM updates; a bar

code label and scanning applica-

tion speeds shipping. Future Three

also offers comprehensive train-

ing, education, customer service,

ing, edocation, costomer service

and consulting services.

Flexibility and Control

Suppliers needing to develop routine trading partner requirements gain flexibility. Choose the AutoMap Configuration Tool to map your own routine transaction sets. Future Three still delivers its maps through Electronic Support System (ESS), which you simply apply as you would any other Update. Future Three developedmaps coexist with customer-created maps in the same AutoMap Engine.

Service and Support

While the AutoMap Configuration Tool is most appropriate for those organizations with in-house expertise, Future Three provides instruction, support and documentation on the usage of the tool. Future Three Consulting Services also offers a wide range of services to help suppliers maximize the benefits of the AutoMap Configuration Tool. Services include comprehensive EDI and database education programs and trading partner research.

Complete Integration and Maintainability

Communications developed with AutoMap are fully integrated with Future Three applications. The tool also offers complete transaction set maintainability.

Ease of use

All trading partners defined in the AutoMap Configuration Tool are managed through one intuitive menu option. AutoMap contains a built-in diagnostic tool to verify the setup of both inbound and outbound transaction sets. This provides on-line viewing of processing and error messages.

Standard Templates

Standard templates are available to develop tier-to-tier transactions. These can be used as a starting point for map creation and then simple "key words" will further manipulate data. Templates can also be created from scratch.

Map Comparison Utility

To assist in comparing two maps when copying or changing, the Configuration Tool features a built-in utility that will list all differences between two maps.

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AutoScan

Engineered for Automotive Suppliers

AutoScan is Future Three's bar coding application that allows you to meet trading partners' label scanning and printing requirements, while speeding up the shipping process and increasing accuracy and flexibility.

AutoSca

Beginning with label generation, Future Three supplies your company with all OEM mandated label templates for all major printers. We create label specifications exactly to your trading partners' requirements, and continue to maintain those templates if and when changes become necessary. AutoScan also includes an easy to use, Windows-based, label design tool.

Printing labels with AutoScan is as easy as one keystroke. Because Future Three stores all in-bound EDI data necessary for the label, and combines it with additional AutoRelease data, there is no need to key in any label information. Examples of additional flexibility include printing labels without requirements and regenerating lost or damaged labels from history files.

Users have the option to either scan-to-create or scan-to-verify shipments. By capitalizing on radio frequency technology, users are instantly notified with real time messaging as to the details and accuracy of all scans. Consequently, scan-to-verify routines only allow users to scan exact items and quantities created on the previously built shipper, increasing shipping accuracy. The ASN is created when scanning is completed, automatically including the precise serial numbers to ensure timely payments.



AutoScan

Record data faster

AutoScan automatically creates labels from requirements, avoiding timely processes of keying label data into other databases. By harnessing the power of Smart Labels, scanning time is reduced by only scanning one field. You'll also speed up operations through pallet staging, which allows "pre-association" of single containers to a master label, reducing the number of scans at ship time. Our scan-tocreate routine quickly and automatically creates the bill of lading, eliminating several shipping steps.

Increase accuracy of information

Increased accuracy of shipping and ASN information results from the elimination of manually keyed data. AutoScan's automatic routines prevent users from making mistakes ranging from transposed and missing numbers to miscommunication. AutoScan also eliminates errors when printing labels. Because label data is automatically pulled from files and merged with bar-code label templates, it is unnecessary for users to input any label data. Similarly, serial numbers are not keyed in to the ASN.

Organize data more effectively

AutoScan's archived and history files are on-line and instantly accessible for changing or reprinting shippers, or retransmitting ASNs with bar code data. Producing clear data at your finger tips results in a streamlined, organized shipping process.

Make your processes more cost-effective

By reducing the efforts associated with manual scanning and paper handling, you can accomplish tasks more quickly while freeing up staff for other duties. Also, AutoScan does not require an investment in third party printing. Plus, many AutoScan users report that by increasing the accuracy of ASNs, they receive more timely payments.

Meet your customers' business requirements

AutoScan allows you to meet bar code processes mandated by your trading partners. Take, for example, many recent changes by trading partners such as the General Motors B-10 label, Subaru's two dimensional labels, and Honda Star and Delta requirements. Future Three's dedicated participation in the automotive industry keeps your company ahead of upcoming developments and specification changes.

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demand management solutions have helped automotive suppliers since 1983. Future Three seamlessly integrates EDI, automotive release accounting and shipping control systems, and continues communication down the supply chain with our vendor demand application, A configurable interface works with numerous MRP, inventory and financial applications. Users automatically receive enhancements and OEM updates; a bar code label and scanning application speeds shipping. Future Three also offers comprehensive training, education, customer service, and consulting services.

Future Three's fully integrated

VendorRelease

Engineered for Automotive Suppliers

VendorRelease allows suppliers to continue the benefit of electronic communication down the supply chain.

The VendorRelease system was developed to allow automotive suppliers to automate the ordering and receiving process by creating and sending material releases and JIT shipping schedules to their suppliers and receiving elec-

tronic Advanced Ship Notices (ASNs) in return.

VendorRelease features:

Because it integrates seamlessly with AutoRelease through your

business system, VendorRelease provides a complete solution

for supply chain information management.

- industry compliance
- inventory control
- shipment tracking
- configurable interface
- data maintenance



VendorRelease

Meet manufacturers mandates

Many major auto manufacturers are requiring integrated EDI throughout the supply chain. VendorRelease provides integrated business system processing along with reports and inquiries.

Save time tracking shipments

Suppliers can use your releases for their MRP systems, and send you ASNs with the EDI system of their choice.

Save time figuring purchasing requirements VendorRelease can automatically create shipping releases based on your MRP schedule, or directly from your purchasing system.

Improve purchasing and inventory control Reduce the time spent manually calculating vendor requirements. Instant visibility of late, delayed or partial shipments helps avoid the expense of rush delivery and reduces the need for "just in case" stock.

Monitor suppliers' performance

Easy-to-read reports and inquiries allow you to identify shipping variances and ASN discrepancies on all your suppliers.

Save time sending releases

VendorRelease prepares the releases/shipping schedule in print, fax, or EDI formats and transmits them to your suppliers.

Reduce administrative costs

Eliminate time spent manually creating, updating, printing, faxing and filing suppliers' orders.

Save time confirming orders

VendorRelease notifies you that releases have been received by your suppliers.

Save time monitoring inventory levels

In-bound ASNs are reviewed on the shipping dock and can be automatically processed into your business application to update inventory.

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demand management solutions have helped automotive suppliers since 1983. Future Three seamlessly integrates EDI, automotive release accounting and shipping control systems, and continues communication down the supply chain with our vendor demand application. A configurable interface works with numerous MRP, inventory and financial applications. Users automatically receive enhancements and OEM updates; a bar code label and scanning application speeds shipping. Future Three also offers comprehensive training, education, customer service, and consulting services.

Future Three's fully integrated



Future Three Toolset

Engineered for Automotive Suppliers

Future Three's ToolSet is a base grouping of powerful tools for use with all Future Three applications. The ToolSet gives you enhanced capabilities for forms printing and menu creation, all within a common interface for simple navigation. The components of Future Three's ToolSet are as follows:

- Window Menu Engine
- JetForm Engine
- Future Three's Electronic Support System (ESS)
- Version Control

Future Three Toolset

Engineered for Automotive Suppliers

Window Menu Engine

A menu generation tool that will replace all hard coded menus within AutoRelease, VendorRelease, AutoMap, and AutoScan. Window Menu will enable Future Three users to join separate applications like AutoRelease and any ERP system. Other features include built-in date, time and day of week security; user, menu and menu option security; history tracking of usage by user, menu, and menu option; it also enables identification of security breach conditions. As an added function, the Window Menu Designer is capable of maintaining all user specific menu and menu option changes.

JetForm Engine

To enable users to print base forms included with AutoRelease on a laser printer. Base forms include: Shipper, Invoice, Commercial Invoice, Pool Bill, Hazardous Material, and other import/export documents. The JetForm Designer can be added to allow custom form development. Application data is merged with an electronic form. No programming is required to make formatting changes. Page size; font type; line spacing; justification; logos; bar codes, etc. are all specified within the form itself, which is independent of the application sending the data.

Future Three's Electronic Support System (ESS)

Now included in the ToolSet. All Future Three users will continue using ESS to receive updates to all Future Three applications.

Version Control

Future Three's emphasis on version control of new products, in which all changes will be issued and applied to separate libraries from the production libraries. Once a new version production library is released, it will be locked from further changes. All modifications will be issued as Updates and applied to a separate library. This gives greater control over application variances. Documentation is always coordinated with the latest version of software.

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Future Three's fully integrated demand management solutions have helped automotive suppliers since 1983. Future Three seamlessly integrates EDI, automotive release accounting and shipping control systems, and continues communication down the supply chain with our vendor demand application. A configurable interface works with numerous MRP, inventory and financial applications. Users automatically receive enhancements and OEM updates; a bar code label and scanning application speeds shipping. Future Three also offers comprehensive training, education, customer service, and consulting services.

Product Information

Appendix C-4 (9 pages)

Product Overview

The EclipzTM Product Line is a web-based solution that allows both Future Three and non-Future Three customers to publish their requirements on the Web, where their suppliers can access, view and print their individual requirements. The suppliers can also enter shipping information, and that information is automatically flowed back to the customer to notify them of the shipment.

Product Name

Official Name

The official name of this product is Eclipz. Version 1 of Eclipz[™] shall be called Eclipz[™] Version 1.

Proper use of the Future Three trademark

All documents, screens, help text and correspondence *must* refer to the product using the correct name, with the correct capitalization, in order to protect our product. Always include TM or the characters "(TM)" immediately after the name EclipzTM. This helps Future Three protect its products, and makes it more difficult for a competitor to release another product with the same or similar name.

Hint: In Microsoft Word, when you type (TM) and press the spacebar, Word should convert it to the superscript letters TM automatically.

Internet Web Address

We have registered the domain name www.SynapzITE.com for future use.

Key Contacts

Contact	Role	Phone/Fytension
Bob Paul	Executive Steering Committee Representative	3413
Dave Broccardo	Program Manager	3217
Kevin Kormos	Project Manager, Eclipz™ 1 Development	3217
Sandy Ray	Project Manager, Eclipz TM 2 Development Quality Assurance Project Manager, E1 & E2 Alpha Test Project Manager for Uni Boring	3368
Tony Stirtzinger	ICI Project Manager (Eclipz™ 2)	



Contact	Role	Phone/Extension
Jim Trela	Uni Boring Implementation Consultant (Eclipz TM 1)	3210
Dave McRoberts	Services Project Manager	3358 3359
Andy Stratton Mike Tooley	Presales Consultants	3259
Sue Proctor	CBT Project Manager	3200
Cathy Jensen	Documentation Project Manager	3264
Bridget Cundiff	Administration Project Manager	3295
Rich M	Marketing Project Manager	3333
John Marchi	Internal Operatinos Project Managers / Credit Card Billing	3267

Changes from Previous Version

Not applicable.

Product Strategy

Version 1 of Eclipz[™] is designed to work directly with VendorRelease Version 4. Our customers currently running VendorRelease in a live production environment are prime candidates for quickly implementing Version 1 of Eclipz[™].

Future versions of EclipzTM will incorporate our unique new business rules engine, allowing us to leverage our 10,000 business rules. This will also allow EclipzTM to interface with *any* business application to present demand and accept shipping information, not just VendorRelease customers.

We plan to add significant product enhancement on an aggressive schedule throughout 2000 and 2001. Some of these features include printing shipper forms, barcode scanning, and vendor managed inventory. Suggestions on what we should include in future versions should be directed to <u>Bill McGee</u> in our Business Development Group.

Change Control Process

Synapz has adopted a stringent change control process to manage the flow of changes to the program. Developers are not authorized to deviate from the design documents. *All* changes must be reported on the designated form (see Appendix B) and submitted to the Executive Steering Committee for review. This process helps ensure that "scope creep" does not impact the project.

Known Risks

Loss of key developers or other resources

Delay in development

Synapz Confidential

Delay in signing CSC hosting contracts

Delay in GUI development and retrofit

Unknown performance issues when solution is scaled up

Version Levels & Features

Due to our aggressive go-to-market strategy, we are phasing in features for Version 1 of EclipzTM. We expect to be at Version 1.2 at product launch.

Eclipz™ Version 1.0

EclipzTM Version 1.0 will be available in mid 2000. It extends the requirements and shipping notification functions of Vendor Release from the AS/400 to the web. Suppliers will be able to register with the Eclipz, and view and enter requirement and shipping data. The application will automatically synchronize data between the Customer's AS/400 and the host site.

This version will not have the ability to accept credit card payment processing.

The new user interface recently approved by the Business Development group will be in place only for the Vendor screens. The remaining screens will be the standard development versions of the screens.

We plan to perform limited testing in-house. Our first beta test customer (Uni Boring) is extremely enthusiastic about the opportunity to be our first customer on Eclipz[™]. We are currently preparing Uni Boring for a beta test in June.

Eclipz[™] Version 1.1

This version completes the UI for the remaining parts of the application: Customer Administration and Future Three Administration. This version affects only the host site; no changes are required to VendorRelease. This change will be made several weeks after the alpha at Uni Boring.

Eclipz™ Version 1.2

This version adds reoccurring credit card processing to EclipzTM, permitting vendors to subscribe using a credit card and be billed monthly. This feature will require changes to the Future Three *Customer Connect* web site, along with limited changes at the host site.

Detailed Feature Matrix

See Appendix A for a complete table of features supported in Version 1.

International Usage

Version 1 of the application will not support international configuration by the customer or supplier.



Testing

Internal Test Plan

TBD

Alpha Test at Uni Boring

Uni Boring has been selected as our first test site. Chuck Mick understands that this is a new product, and that some rework may be needed. He has selected 10 suppliers that he wants to get up on EclipzTM.

Implementation Consultant

Jim Trela is the implementation consultant for the Uni Boring implementation. He is responsible for the overall project plan, customer relations, and project implementation, drawing on other resources at Synapz as needed.

Alpha Test Lead

Sandy R is the technical lead for the duration of the Alpha test. She will be coordinating resources to ensure a successful alpha test.

Support Issues

While the exact support process is not yet defined, in general, all support calls from Uni Boring regarding EclipzTM or Vendor Release will be directed to the development area, where Sandy R will put in place a defect tracking system to track all calls. Once the product is released, the Customer Support staff will provide support.

Test Plan Overview

Application Updates Required for Testing

The development and QA groups have identified several Updates that each customer must apply to their VendorRelease, ESS, and Configurable Interface applications. When finalized, the specific Updates will be listed here.



Product Launch

Integration Issues

EclipzTM Version 1 uses the Configurable Interface on the AS/400 to extract relevant demand data and format it for transfer to the host site. The Configurable interface is also used to process inbound shipment messages into the standard VendorRelease ASN files.

Default maps for both outbound demand and inbound shipping messages will be supplied as part of the EclipzTM product offering. The default maps may be customized by the customer, or by Synapz representatives for a additional charge.

A Java application is used on the AS/400 to perform the actual data transfer to and from the host site.

Non-Future Three Integration

Version 2 of Eclipz[™] will support a integration with non-Future Three applications, such as QAD or SAP. Details to follow in the *Eclipz[™] 2 Product Planning Guide*.

Hardware & Software Requirements

Customer

 AS/400 at V4R4 of the operating system, up to date with all PTFs from IBM, with the following no-cost IBM licensed programs installed prior to implementation:

Licensed Program	Product Option	Description
5769JV1	*BASE	AS/400 Developer Kit for Java
5769JV1	1	Java Developer Kit 1.1.6
5769JV1	2	Java Developer Kit 1.1.7

Note: It is imperative that customer *reapply* the latest PTF cum package from IBM after installing the products listed in the table above.

- Direct, non-dial up connection to the internet that can be accessed by the AS/400
- At least on PC capable of running Microsoft Internet Explorer 5.0, with a connection to the Internet. The screen resolutions should be 1024 X 768 to reduce the need to scroll the images on the screens left and right.
- Enhanced Communications Module



Supplier

• At least on PC capable of running Microsoft Internet Explorer 5.0, with a connection to the internet, with direct or via a dial up connection.

Host Site

Hosting Partner

CSC has been selected as our first hosting site. CSC is responsible for maintaining the physical hardware in a secure location, as well as providing our application access to the Internet and ANX.

Host Site

CSC is hosting two servers, one as a web server, and one as a database server running Oracle 8i. All hardware is hot-swappable, that is, failed hardware can be removed and replaced while the system is in use. At this time, only one site in Southfield is used for hosting; future plans are for data to be mirrored at other location to prevent a disaster in Southfield from affecting operations.

Disaster Recovery

At this time, CSC has detailed disaster recovery processes in place for their data center. We will have more information as to the restore time we have contracted for at a later date.

Data Security

The link between the customer's router and CSC router is secured with IPSec6, the latest security technology to create a virtual "pipe" within the network for the duration of the connection.

Support

Alpha & Pre-Release

During the alpha, beta, and pre-release phase of $Eclipz^{TM}$ 1, the development group will be directly supporting our customers. This means that all development will be handling all calls from customers until the product is released.

Support at General Release

Synapz will provide standard telephone customer support to Synapz Vendor Release customers for issues regarding usability and technical issues during normal support business hours.

At this time, Synapz does not offer additional support options in the event the Customer wants Synapz to field calls directly from their suppliers. We continue to review this, and may offer this support in the future.

Pricing

Note: The pricing plan described below is subject to change.

Customer

Each customer will be charged a license fee that is tiered based on the number of suppliers they will be using with Eclipz. There will also be a yearly maintenance agreement fee (SSA), as well as an implementation services fee.

We envision Synapz being involved with customers to configure and test with a customer first set of "pilot" suppliers, then turning over the process of bringing up the remaining supplier to a third party.

Supplier

Each supplier will be charged a monthly fee for access based on the following criteria:

- Number of parts
- Number of seats
- Number of applications / features being used

Exact pricing has not yet been established.

One Supplier, Multiple Customers TBD

Administration

Administration will be required to review the pricing strategy and ensure that all necessary systems are in place to support it on product rollout.

Configuration

Development will document any configuration required during the alpha test so that the information is available for product launch.

Documentation

TBD

Marketing

Bob Paul is developing a Business Plan that will incorporate a marketing plan for Eclipz[™].

Services

Consulting and Implementation

The services area has responsibility for creating an initial Uni Boring implementation plan, as well as a generic template to be used for later implementations of EclipzTM Version 1.

Jim Trela has been selected as the Project Manager for our first alpha test at Uni Boring. Jim is responsible for managing the overall customer experience and project plan.

Training and Education

This area of Services is responsible for determining the type of education plans we plan to offer to our customers and their suppliers.

Business Partners (SNAP)

Strategic Partners Deloitt & Touche

Customer Migration

As all customers are at Version 4 of VendorRelease, there are no migration plans necessary to go live with $Eclipz^{TM}$ 1. (This does not include Updates that require ESS to copy data to new file formats.)

Application Updates

Future Three is responsible for changes to the host application. The customer is responsible for receiving, compiling and applying all Vendor Release updates.

Product Enhancements

Please refer any suggestions for product enhancements to Bill McGee or John LaLiberity, not to the developers.

Delivery

We expect to deliver the updates to Vendor Release via ESS, including the Java component used to send and receive data from the host system. Changes that cannot be sent via ESS will be distributed via CD.

Application Availability

Host Site Maintenance

Our hosting partner requires a 4-6 hour window Sunday morning each week for system maintenance and testing. During our alpha and beta tests, the exact time window for maintenance will vary depending on the needs of Synapz development and QA groups.

As we move into a production environment, the exact hours the website will be unavailable to customers and suppliers will be posted on the EclipzTM homepage. During this time, customers will not be able to publish or retrieve information, and suppliers will not be able to access their demand nor enter shipping information.

Internet Congestion

Customers and suppliers need to be aware that events outside of Synapz and CSC's control can limit, reduce, or prevent access to the $Eclipz^{TM}$ website. Both customers and suppliers should have backup processes in place in the event the Internet becomes unavailable or the performance becomes unacceptable.

Customers using the ANX to connect with CSC should contact their ANX CSP with any concerns regarding network availability or performance.

Internet Failures

Random cable cuts or other failures of the internet may prevent customers and suppliers from accessing EclipzTM for extended amounts of time.

I. ECLIPZ Phase II BETA Overview

A. Architectural Drivers

The ECLIPZ Phase II beta is being designed and developed in an attempt to satisfy the following architectural drivers:

- ECLIPZ Phase II beta shall be designed and implemented such that the ECLIPZ Phase I software can operate in a platform independent manner without sacrificing existing ECLIPZ Phase I features.
- Internet/Intranet enabled product Applications and Future Three "knowledge" should be accessible via World Wide Web (WWW) and browser technologies.
- 3. Component based architecture Future Three products should be designed and implemented as components in order to leverage component application architectures becoming available via Commercial Off The Shelf (COTS) packages (i.e. Transaction Processors (TP), Database Management Systems (DBS) and Enterprise Java Beans (EJB). Component based architectures also provide for the ability to roll out products in an incremental fashion without affecting the development of future components.
- 4. Loose coupling of components All Future Three components should be designed and implemented using loose coupling techniques as opposed to embedded systems or tight bindings. This will provide Future Three with the ability to replace components in the future with minimal cost and design impact.
- 5. More visibility into Future Three Intellectual Property (IP) Future Three products should be designed and implemented in a way to emphasize the business knowledge (tacit, implicit and declarative) that Future Three has acquired through years of experience in the automotive supply chain management industry. Identification of the Future Three IP will provide more flexible feature packaging options and provides greater market opportunities.
- Easier maintenance of rules Cycle time for configuring the Future Three products to include new Trading Partners and suppliers, and the new behavior implied by the addition of these entities, should be minimized.
- Separation of parsing, implementation, Trading Partner and supplier rules All rules in the Future Three products should be properly categorized and isolated to increase the maintainability and modifiability of the rules.
- Extensibility with respect to Enterprise applications Future Three products should be designed and implemented with an emphasis on providing solutions for the entire Enterprise. Early versions of the architecture should provide the extensibility and scalability for the Future Three products to integrate with Enterprise Applications and/or provide solutions to Enterprise problems.
- 9. Time to market Future Three marketing opportunities are greatly influenced by how quickly new products and features can be demonstrated and deployed to the target customers. Future Three product architectures will be designed and implemented in a manner that decreases the product development life-cycle leveraging reuse and components where applicable.

B. Functional Architecture

Figure 1.1 illustrates the functional view of the ECLIPZ Phase II beta architecture. All requirements and scheduled tasks are traced to these functional components.



Figure 1.1 Functional Architecture Components

C. Process Architecture

Figure 1.2 illustrates the process view of the ECLIPZ Phase II beta architecture. The Future Three ECLIPZ Phase II beta shall be developed within the constraints of this process architecture.



Figure 1.2 Process Architecture

6

Future Three, Inc. Summary Statement of (\$000's)

	1998	1999	2000
Revenue:			2000
License	\$ 5,646	\$ 3,762	\$ 4 529
Eclipz			1 225
TP Modules	991	1,258	986
Maintenance	8,398	9,579	10.845
Services	2,986	3,062	3,343
Total Revenue	18,021	17,661	20,927
Total Expenses	17,008	16,174	20,309
Income from Operations	1,013	1,487	618
Operating Margin	5.6%	8.4%	3.0%
Growth rate vs same			
period prior year	30.2%	-2.0%	18.5%

Appendix C-6 (2 pages)

Future Three, Inc. Statement of Operations (\$000's)

	Q1.98	Q2.98	Q3.98	Q4.98	Q1.99	Q2.99	Q3.99	Q4.99	1998	1999
Revenue:									1000	1000
License	\$ 1,849	\$ 1,164	\$ 1,511	\$ 1,122	\$ 1,020	\$ 501	\$ 1.109	\$ 1.131	\$ 5.646	\$ 3762
Add on Modules	62	171	97	661	325	604	204	125	991	1 258
Maintenance	1,987	2,069	2,205	2,137	2,204	2.295	2.537	2.542	8 398	9 579
Consulting	96	145	248	167	251	199	346	254	656	1 051
Training	395	632	671	635	550	575	435	452	2 333	2 013
Total Revenue	4,389	4,181	4,732	4,722	4.351	4.175	4 632	4 506	18 024	17 663
Expenses:										
Payroll Expense	1,696	1,968	1,943	2.044	1.977	2 109	2 232	2 426	7 654	0 744
Commission Expense	357	194	251	286	118	20	303	145	1,001	0,/44
Payroll	2,053	2,162	2,194	2,330	2 095	2 129	2 536	2 571	1,000	
Payroll Taxes	180	158	140	135	197	170	167	2,371	8,739	9,331
Employee Benefits	194	228	225	225	223	250	273	200	613	698
Travel and Ent	163	190	97	133	158	118	123	299	872	1,044
Communications	72	78	82	95	80	96	123	04	583	483
Other Services	509	1082	931	516	419	537	103	70	327	348
Depreciation & Amort	88	102	115	107	126	145	329	240	3,038	1,525
Rent	138	136	130	137	152	145	101	1//	412	610
Repairs & Maint	50	65	60	56	155	150	162	158	550	631
Supplies	188	143	100	01	20	39	33	(11)	231	87
Marketing Programs	18	65	75	31	44	40	18	16	522	124
Cost of Revenue	10	05	15	33	67	55	104	40	191	266
Leased Equipment	10	12	10	0	40	98	89	150	31	377
Insurance	12	12	12	12	12	12	12	0	48	36
Other Taxes	24	14	55	1	19	28	39	40	100	127
Miscellaneous	5	17	3/	6	8	18	5	8	65	39
wiscellaneous			/	661	52	64	29	(232)	686	(87)
Total Expenses	3,715	4,468	4,275	4,550	3,718	3,965	4,183	3,773	17,008	15,639
Income from Ops	674	(287)	457	172	632	209	449	733	1,016	2,024

Future Three, Inc. Operating Plan P/L FY.00 (\$000's)

		11.00	Q2.0	0	Q3.00		Q4.00	20	00	Budget		% of Sa	les
Revenue:	A	Actual	Forece	st	Budget		Budget	Revis	ed	Original	Variance	Revised	Original
S/W license	\$	1,320	\$ 1.1	09	\$ 1.05	0	\$ 1 050	\$ 45	20	\$ 5 800	E /4 0741		
Eclipz		-		14	40	0	811	12	25	4 0,000	a (1,071)	21.6%	23.9%
TP modules		172	3	34	24	0	240	1,4	86	000	1,220	5.9%	0.0%
Maintenance		2,630	2.6	55	2 72	8	2 835	10.8	40	44 020	20	4.7%	4.1%
Services		690	7	11	97	0	972	33	40	5.040	(990)	51.8%	50.5%
Total		4.812	4.8	23	5 38	-	5 908	20.0	24	22,420	(1,097)	16.0%	21.5%
Cost of Revenue:				-		-	0,000	20,8	31	23,438	(2,507)	100.0%	100.0%
Customer Support		335	3	8	34		252	1			1.1.1.1.1.1.1.1		
Support Development		524	40	2	544		302	1,34	48	1,532	(184)	6.4%	6.5%
Cost of Services		541		2	D4L		046	2,10)2	2,396	(294)	10.0%	10.2%
Product Costs		55		14	044		643	2,41	11	3,089	(678)	11.5%	13.2%
				<u>u</u>	200		301	59	31	394	197	2.8%	1.7%
lotal	1	,455	1,42	0	1,735		1,842	6,45	52	7.411	(959)		
Gross Profit	3	,357	3,40	3	3,653		4,067	14,47	9	16,027	(1.548)		
Operating Expenses:									-				
Product development		756	1.01	5	1 091		838	2 70	4				
Quality		207	23	8	244		244	3,10	1	2,800	901	17.7%	11.9%
Sales		475	48	A	664		700	83	3	890	43	4.5%	3.8%
Marketing		120	19	0	460		703	2,39	0	2,484	(94)	11.4%	10.6%
e.Commerce		240	38	0	400		290	1,04	9	710	339	5.0%	3.0%
General & Admin		008	1 02		444		444	1,50	9	856	653	7.2%	3.7%
Total		200	-1,03	2 .	1,062	-	1,085	4,18	0	4,143	37	20.0%	17.7%
(Ctal)	_2	185	3,34	8 -	3,955	-	3,664	13,76	1	11,883	1,878	65.7%	50.7%
Operating Income		562	5	5	(302)	1	402	71	8	4 1 4 4	12 4001		
Interest Income (Expense)	_ ((225)	(22	3)	(229)		(229)	/01	31	/951)	(3,420)	3.4%	17.7%
Income Before Taxes		337	(17		15241	-	170		9	1001)	(02)	226.7%	-42.6%
Income Tax Expense		157	5	"	(531)	8-1	1/3	(19	5)	3,293	(3,488)		
Net Income	-	100		-	-	-	•	208	<u> </u>	1,298	(1,090)		
	*	100	<u>⊅ (22:</u>	2) 3	(531)	5	173	\$ (403	3)	\$ 1,995	(2,398)		
Gross Margin	69	.8%	70.69	6	67 8%		88 8%	60.00					
Operating Margin	11	.7%	1.19	6	-5 6%		6.904	09.27	0	08.4%			
Support Margin	69	.3%	73.09	6	70 2%		70 894	3.49	0	17.7%			
Services Margin	21	.6%	18 19		33 504		33.0%	10.89	0	69.3%			
Services Profit	14	8.9	128.8	-	325 1		320 4	27.99	0	38.7%			
Revenue/Employee	5 1	31	\$ 129		125		107	832.2		1,951.0			
			+ 120		120	4	12/	1 125	5	128			

Appendix C-7 (4-pages)

Future Three, Inc. **Operating Expense Comparison** 99 v 00 (\$000's)

	Oper	rating Expe	enses			
TOTAL CONDUNK	1998	1999	2000	Change 19	99 vs 2000	
IOTAL COMPANY				Inc(Dec)	
Wages	7,651	8,472	10,010	1,538	18.2%	A
Car allowance		91	108	17	18.7%	
Profit sharing			166	166	#DIV/01	
Bonus		65	607	542	833.9%	B
Commission	1,088	707	878	171	24.2%	-
Payroll	8,739	9,335	11,769	2.434	26.1%	
Payroll taxes	612	694	863	169	24.3%	
Employee benefits	798	933	1,025	92	9.8%	
401k Match	75	82	186	104	126.4%	c
Travel & entertainment	583	499	442	(57)	-11.4%	-
Training & seminars		95	252	157	165.3%	D
Employee relations		60	91	31	50.8%	-
Recruiting		383	438	55	14 5%	
O/S Services/Consultants	3,037	1,067	1,619	552	51.8%	
Communications	326	377	351	(26)	-6.8%	
Depreciation	412	590	584	(6)	-0.9%	
Rent	598	589	621	32	5 4%	
Repairs & maintenance	232	119	130	11	9.3%	
Supplies	:521	141	66	(75)	-53 0%	
Marketing programs	190	275	740	465	169.2%	
Cost of revenue	30	332	591	259	78 1%	
Leased equipment		91	129	38	42 104	
Insurance	98	110	100	(10)	-0 404	
Other taxes	66	37	40	3	7 30/	
Miscellaneous		38	88	50	132 10/	
Other	658	303	77	(227)	132.1%	
	16,975	16,150	20,203	4,053	25.1%	

NOTES:

A 25 new hires add \$1.3 million; full year of 1999 hires adds \$400,000; balance due to 5% ave pay increase

B Increase \$210,000 for Services bonus plan, balance due to new exec bonus plans

c Increase 401(k) match to 2% of pay

D Java and Sales training plus approx \$1,000/head for others; little training done in 1999

Future Three, Inc. Pro Forma Statementor Operations (\$000's)

		2000		Eclipz		AS/400	
Povonuo:		Forecast		Forecast		Forecast	
SW license	•	1 520				4 500	
Eclipz	Ψ	1 225	4	1 225	4	4,529	
TP modules		986		1,225		0.96	
Maintenance		10 845				10 945	
Services		3 343				3 3 4 3	
Total		20,927	-	1.225	-	19,702	
Cost of Revenue:	12.2		-		-		
Customer Support		1.348		50		1 298	> Hired 2 supr
Support Development		2,102		-		2 102	- Threa 2 Supp
Cost of Services		2,411		-		2 411	> Assumes no
Product Costs		591		426		165	> CSC hosting
Total		6,452		476		5,976	
Gross Profit		14,476		749		13,727	
Operating Expenses:					-		
Product development		3,701		2,705		996	> 12 FTE's: \$6
Quality		933		143		790	>2 FTE's
Sales		2,395		514		1.881	> Assume half
Marketing		1,049		400		649	> Program spe
e.Commerce		1,509		1,159		350	> Toufar, Alder
General & Admin	_	4,270	_			4,270	
Total		13,856		4,921		8,935	
Operating Income	-	620	-	(4,172)	_	4,792	
Gross Margin		69.2%		61 1%		60 79/	
Operating Margin		3.0%		-340.6%		24 304	
Support Margin		70.8%		n/a		71 3%	
Services Margin		27.9%		n/a		27.9%	
Services Profit		932.2		n/a		1 586 8	
Revenue/Employee	\$	125	\$	51	\$	138	
FTE		167	-	24		143	

port reps in Q3.00

services revenue from Eclipz g fee, ICI royalty, credit card transaction fee

> 12 FTE's; \$600 for ICI; \$519 for CSC	
> 2 FTE's	
> Assume half of sales effort for 2H.00	

ending in excess of prior year level erson and 1 BDM in AS/400, rest in Eclipz

Future Three, Inc. Eclipz Business Model (\$000's)

		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1.00	Q2.00	Q3.00	Q4 00	2000
Revenue:															
Alpha	1 V1			\$ 14	\$ 14	\$ 5	\$ 5	5 5	\$ 5	\$ 5		\$ 14	\$ 24	e 15	
Beta	4 V1				56	56	10	20	20	20		4 14	122	a 15 60	\$ 53
GA	4 V1					80	80	10	20	20			160	50	210
	4 V1						94	94	12	25			94	131	210
	4 V1							108	108	15			54	151	225
	4 V1							100	100	15				231	231
	41/4								108	108		-	-	216	216
	4 1									108			•	108	108
				\$ 14	\$ 70	\$ 141	\$ 189	\$ 237	\$ 273	\$ 301	\$.	\$ 14	\$ 400	\$ 811	\$ 1,225
Direct Expenses:															
Royalty	15%	6		2.1	10.5	21.2	28.4	35.6	41.0	45.2					
App Hosting					24.0	24.0	24.0	24.0	24.0	45.2		2.1	60.0	121.7	181.7
Transaction fee	3%	6		0.4	2.1	4.2	5.7	71	82	90			72.0	72.0	144.0
Customer Rebate	5%			0.7	3.5	7.1	9.5	11.9	13.7	15.1		0.4	12.0	24.3	36.3
Development - ICI		20.0	100.0	200.0	200.0	75.0	150.0	150.0	150.0	150.0	40.0	320.0	20.0	40.6	60.6
Development - CSC&Oth	er	50.0	75.0	70.0	70.0	25.0	25.0	25.0	25.0	25.0	217.0	195.0	425.0	450.0	1,235.0
		70.0	175.0	273.2	310.1	156.4	242.5	253 5	261.8	268.2	257.0	519.0	700.0	700.5	
Contribution		\$ (70.0)	\$(175.0)	\$ (259.2)	\$ (240.1)	\$ (15.4)	\$ (53.5)	\$ (16.5)	\$ 11.2	\$ 33.9	£ (257.0)	510.2	709.0	183.5	2,264.5
Contribution Margin		n/a	n/a	n/2	n/a	4 110.4	4 (00.0)	* (10.0)	4 11.6	· J2.0	\$(257.0)	<u>) (504.2)</u>	\$ (309.0)	\$ 27.5	\$ (1,039.5)
Margin Before Devel Exp				ina	iva	60%	64%	67%	4% 68%	11% 69%	n/a n/a	n/a n/a	-77% 59%	3% 68%	-85% 66%

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Executive Summary

Future Three provides next-generation Demand Management and EDI systems with a broad range of professional services for automotive suppliers. From its inception in 1983, the company has grown substantially through focusing on delivery of software products and services that automate the order management, delivery and procurement process that is unique to the automotive industry. Today, Future Three is the recognized leader in this market segment with over 250 automotive customers, including a third of the largest 150 suppliers as defined by Automotive News. Future Three is now poised for explosive growth by launching the industry's first trade exchange for production part procurement. With the deployment of hosted applications that have been built with the experience and domain expertise developed over 17 years, Future Three can now deliver web based low cost solutions to the entire automotive supply chain. The complexities involved in delivering these systems and meeting all the industry compliance mandates also mean that the barrier to enter this segment of the digital market is very high. The combination of the unique positioning Future Three enjoys in the market and the leverage that the existing customer base and revenue model brings, dramatically increase the likelihood of meeting and overachieving the company objectives laid out in this plan.

The Market Opportunity

Compliance:

The automotive industry has always been recognized as a leader in using innovative technologies to gain operational excellence. For over 3 decades, automotive original equipment manufacturers (OEM's) such as The Ford Motor Company and General Motors, have led the industry by taking

advantage of information technology to optimize delivery performance across the supply chain. Electronic Data Interchange (EDI) has been the methodology through which high volume orders, shipment information, quality issues, engineering drawings, etc. have been communicated. Although EDI standards are continually being established through industry organizations such as the Automotive Industry Action Group (AIAG) there are significant variations in how each OEM or trading partner uses the standards in their EDI



deployment. The differences exist in communication protocols, network infrastructure, transaction definition, and data definition just to name a few. Each OEM also has different EDI standards within their own divisions. The challenge to the suppliers is further compounded when more compliance issues such as bar coding and the unique ordering methodology known as cumulative accounting or release accounting is added to the delivery process. This means that each supplier must spend sometimes millions of dollars in technology and resources just to keep up with these mandates. The supplier community usually solves these problems through a combination of internal staffing and relying on third party software and service providers. The software and service providers must be committed to not only help meet the compliance standards but to keep up with the perpetually changing standards. On average each OEM division or trading partner has atleast one significant change per month. The penalty for not meeting the standards can be significant and can threaten a

supplier's existence if the problems are repeated. The pain that the supplier has in meeting the compliance issues are significant and the associated value in solving this problem is substantial.

Competition:

Many industries are now facing the threat of offshore competition. The North American automotive industry has been fighting this battle for over 20 years. The fierce competition has put extreme pressures on the automotive supplier community to increase operational efficiency, get product to market faster, while reducing costs. The OEM's are also continually putting more of the responsibility of manufacturing the vehicles on the suppliers, while passing on the associated costs. The OEM's are also continually looking to reduce the number of overall suppliers thereby creating a 'super tier' supplier. This will force many traditional suppliers to be acquired, to go out of business, or to become a supplier to the 'super tier'.

These trends can be seen in many formal initiatives. The OEM's have mandated to their suppliers global price cuts annually ranging from 2 to 5%. The OEM's are also requiring many suppliers to ship



parts in lower quantities and more frequently, so as parts arrive they are being used. In effect, this passes the inventory carrying cost down the supply chain. The OEM's have also announced the concept of the 10 or 8 day car from order to delivery. This will require great agility across the supplier community if component inventories are to remain the same.

All these trends are requiring the automotive suppliers to think differently about how they make and deliver parts. In most cases they are looking to information technology to help them become more efficient. The OEM's have gained significant benefits from the implementation of EDI with their suppliers. Those suppliers that have gone beyond just complying and actually integrate the EDI information in to their business systems have also gained significant value. It allows them very quickly to make decisions throughout the organization based upon rapidly changing demand. In order to achieve this, these suppliers have implemented a combination of EDI and Demand

Management systems that are tailored for the automotive industry. A 1996 study by AIAG reported that approximately 1.14 billion dollars would be saved with the implementation and integration of EDI processes.

A second trend is for the suppliers to take advantage of the benefits of EDI by implementing it with their suppliers. To date this has been done with marginal success. The lower tiered suppliers find that effective implementation of EDI is too costly and too complex. The benefits of EDI to the lower tiered suppliers are either not enough or in some instances not understood. In most cases, the first tier suppliers do not 'carry the weight' that the OEM's do to force compliance. Until now, the technology has not allowed the entire automotive supply chain to embrace automated EDI and Demand Management.

Technology:

Electronic Data Interchange is now being done direct from computer to computer over dedicated or dial-up telephone lines. This includes large data transmissions over closed networks. In most cases there is a 'Value Added Network' (VAN) in place which serves as a clearinghouse for the OEM to send the information and the supplier to pick up the data. With the advent of the Digital Market era, significant benefits can be achieved.

 A hosted web site where order and delivery information can be shared graphically can replace the VAN. This means information can be seen from customer to supplier more quickly and the immediate impact of supply and demand decisions can be seen.

- 2) The deployment of a hosted web site with EDI-like information is substantially less costly. This means the traditional benefits of EDI can be achieved throughout the supply chain. Rapid adoption of this technology is expected in the automotive industry.
- 3) A web environment allows information to be shared in a controlled environment. It opens up the information to other systems so that collaboration is possible. Collaboration allows for software and service providers to work together to increase the overall value provided to the industry. Examples of this would be web-based bar coding, quality management systems, or freight optimization.
- 4) Object oriented technologies allow systems to be much more scaleable and interoperable. This means that a single instance of software and hardware can handle massive amounts of data and work with other disparate applications. In this case a hosted application can process very quickly massive EDI-like transactions and pass the appropriate data directly into existing business systems.

Market Summary:

Intense global competition is rapidly changing the landscape of the automotive supply chain. In the unique position that the OEM's have, they are forcing the rest of the supply chain to cut costs and become more efficient. This has resulted in complex mandates that have been costly to meet and maintain. In order for the suppliers to succeed if not survive, they are looking to information technology to meet the compliance requirements and provide business value. Over the last 10 years most of the suppliers have spent money in becoming more efficient inside the four walls of the company. They now are looking for ways to become more efficient outside of the company across the supply chain. An example of this can be seen in the rapid growth of Enterprise Resource Planning (ERP) companies over the last decade. The ERP industry is now in a slow down period as the B2B industry takes off. As the suppliers look for increased supply chain optimization, they will find the potential of new technologies that can drive incredible value at much lower cost.

Products and Services

Future Three, 92% owned by Summit Partners L.L.P., is headquartered in Northville, Michigan. Future Three offers EDI and Demand Management systems with a wide range of consulting and technology services built around the implementation of the core product sets. Over the last 17 years, the company has typically grown between 20 and 30% per year to become the largest solutions provider in this space. Future Three's target customers are tier 1, 2, and 3 automotive suppliers. There are now two major product strategies. Since the company's inception, the 'AutoRelease' product series has been developed and sold on the IBM AS400 platform. Future Three has also now deployed the first Industry Trade Exchange for production part procurement. The trade exchange is called Eclipz and is being sold under a division of Future Three called Synapz.

AutoRelease:

The 'AutoRelease' product series can be broken up into three primary areas.

- EDI translation, mapping, and business rule processing
- Demand Management and Delivery Performance
- Supplier Management

Within these three areas, Future Three offers software products, professional consulting services, and data integration services.



- AutoRelease: EDI and Demand Management
 - AutoScan: Bar coding label design and printing
- AutoMap: End user mapping for EDI integration
- · VendorRelease: Outbound EDI for procurement with suppliers

This product series is designed to allow automotive suppliers to collaborate with any customers and supplier electronically using formal EDI X.12 and/or Edifact standards. The software supports over 240 different trading partners and 22 different transaction sets. More significantly the software handles on average 10-12 different business rules per transaction set which equates to tens of thousands of business rules supported. This is important to our customers so that they can review, process and ship against consolidated information in a single application without having to work through raw data. The system handles all the compliance issues of their trading partners including integrated bar coding, automated shipping, and cumulative accounting controls. The product also allows companies to send high volume orders to their suppliers using the same standards. The product series includes interface modules to highly used AS/400 business systems such as Mapics, JD Edwards One World, and JBA's System 21.

Market Strategy: On average the AutoMap product series sells for approximately \$250,000. New sales are steady and no increase in sales rates are expected. Resources will be used to keep up with compliance issues and create 'one-off' enhancements. In most cases Future Three receives 40% annual maintenance of the product list price due to the amount of changes required to keep up with the industry standards. Limited marketing will be done as we meet new significant industry requirements such as the new OEM –ANX requirement.

Eclipz:

Eclipz is not so much a product as it is a service. Eclipz is a hosted application with three major releases scheduled. Eclipz is the first of its kind 'Industry Trade Exchange' for the Automotive Market. The service allows an automotive supplier to receive orders, confirm shipment, and send orders to suppliers on the Internet. Eclipz handles all OEM compliance issues dealing with production part procurement and all the complex business rules associated each trading partner. The service will also protect the automotive suppliers from any future compliance changes. The hosted service allows our customers to also send their time phase orders (demand) to their

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suppliers via the web. The deployment schedule is as follows.

Phase 1: June 1st Hosted web site that will handle procurement for all production parts down the supply chain. The information is being fed from the VendorRelease product, which is installed at customer site.

Phase 2: August 22nd The same web site with identical functionality that can be driven from any existing procurement system

Phase 3: October 1st The same web site with EDI and Demand Management support for the top 10 trading partners. The site can process information coming from formal EDI transaction sets or from any new XML exchange. The web site will also have partner hosted applications for bar coding, quality management, and freight optimization.

Eclipz has a controlled rollout designed to make sure that the first 6 customers are strong references. Uniboring is the company that has been selected for alpha deployment. They plan on having 132 of their suppliers on line using the system. The first of their suppliers is JNB who will come on line mid July, with the balance of the suppliers using the exchange by the second week of August. The next 5 beta customers after Uniboring will all start implementation in mid July with their suppliers coming on line throughout August and September. We plan on having 32 customers signed up by year-end with over 3000 suppliers. The first two implementations of this product will effectively double our customer base from 250 to 500 customers. Synapz, as a division of Future Three, will also be positioned as the first entrant to this sector and market leader. Presently we have 37 qualified leads for the Eclipz service

Market Strategy: The announcement to the automotive industry of the Eclipz launch is significant. Formal marketing campaigns including advertising, mailings, Email blitz, and trade shows are already underway. The response to date has been extremely successful. The need to solve the supply chain problems and the need to have an E-Commerce strategy in our target market is real.

The pricing for Eclipz will include an initial customer license fee, a customer annual maintenance fee, a supplier subscription fee, and implementation services. There will also be a 'performance incentive' given back to the customer which will be a percentage of the supplier subscription fee collected. In effect, the more suppliers the customer gets online, the more revenue the customer gets back. Also if the supplier can get their suppliers on line, then they could start to offset the cost of the original investment.

Eclipz phase 1 launch is aimed at providing all lower tiered suppliers the benefits of EDI with a low cost web based solution. With the beta program we will be validating pricing strategies, ROI metrics, and implementation methodologies. The adoption rate of Eclipz is expected to be rapid for the following reasons.

- 1) Clearly defined and proven value proposition for Customers
- 2) Customers can increase their supplier ratings from the OEM's with this service
- 3) Clearly defined value proposition for the suppliers
- Customers can make it a compliance issue for their suppliers to be online and therefore strongly encourage them
- 5) Low cost of entry for both customers and suppliers
- Pricing strategy encourages customers to help get suppliers online due to 'performance incentive'
- Pricing strategy encourages the suppliers to get their suppliers online due to 'performance incentive'
- 8) Eclipz was developed with domain expertise that was built from over 17 years of industry experience. The expertise was used to solve the complex business rules associated the automotive supply chain. The barrier to compete in this space is high and this should be perceived by the market as the only valid solution.

Customers and Prospects

Future Three has over 250 accounts in the Automotive Industry, including over one third of the largest automotive suppliers.

Some of the sample customers include:

Magna International Inc. Robert Bosh Corp. TRW Inc. Denso International America Inc. Eaton Corp. Meritor Automotive Systems Yazaki North America Inc. Valeo Inc. Textron Automotive Co. BorgWarner Automotive Inc. Collins & Aikman Corp. Federal-Mogul Corp.

GKN Automotive Inc. Alcoa Fujikara Ltd. Autoliv North America Inc. Arvin Industries Inc. Dura Automotive Systems Inc. Takata Corp. Aisin World Corp. of America Oxford Automotive TG North America Corp. Delco Remy America, Inc. ASC. Inc. Harvard Industries

Future Three prides itself in high customer satisfaction and delivery of all services with the highest quality of consulting in an under-budget, on-time fashion. Due to of the use of advanced tools in the delivery of its services, Future Three and Synapz can perform rapid implementations of the new exchange. It is a defined goal to be able to have a customer and a majority of their suppliers up and running within 30 days. This will increase our ability to gain market share rapidly. Access to these suppliers will also drive a wide array of additional consulting services.

Future Three's pipeline consists of over 120 automotive suppliers with a weighted pipeline of over \$31million.

Organization and Coverage



Future Three has 165 employees primarily based in Northville, Michigan with strong automotive industry expertise. The sales coverage is exclusively through direct sales today. Due to the potential of significant services associated with Eclipz, we are currently under negotiations with three international consulting firms that could be potential channels partners to resell the Eclipz service. We are also exploring the opportunity with each of these firms to attack other industry segments and geographies. There is a search currently underway to find a firm in Europe with an automotive presence.

Currently Future Three's direct sales force includes

5 new account sales reps, 4 installed base reps, and 1 inside sale rep who is focused on customer care. They are supported by 3 presales consultants, 2 business development directors, and a VP of Strategic Alliances.

Strategic Alliances

Future Three believes that alliances and partnerships will be of great importance to the overall success of Synapz. A formal alliance program has been deployed with a dedicated management structure to insure the success of the overall program. The program is titled 'Strategic Network of Alliances and Partnerships' (S.N.A.P.). The objective of the program is to provide an overall framework so that each defined partner

- Fits within the strategic direction of the organization .
- Has the appropriate levels of resources dedicated
- Meets all business/contractual criteria
- Has defined performance objectives

The business objectives behind each partnership generally fall into three categories.

- Bandwidth-to assist in our ability to provide full service capabilities and sales/marketing 1) coverage
- Credibility-by partnering with larger more recognized organizations, we are perceived to 2) have lower risk to our target market
- Value Proposition-the web brings opportunities for collaboration in which we can 3) increase the value offered to the target market

The partnerships are defined into four categories

- Strategic-Critical component to Whole Product Strategy-managed by Senior Executive 1)
- Solution-important but not mandatory component to Whole Product Strategy-Executive 2) approval required-managed by VP of Alliances and Sales executive
- 3)
- Marketing Partner-typically involved in lead sharing and limited marketing campaigns 4)

Referral-commodity partner that will be referred to if inquired about by customer. Examples of key partnerships include:

Strategic Alliances:

Cisco: (June) Provide network/infrastructure that will assist in suppliers in deploying E Commerce strategy. Synapz provides Cisco leads in return for finders fees. Joint Sales/Marketing also in place

Oracle: (May) Provide ERP business systems for Automotive. Synapz is part of Oracle Partner Program with joint sales/marketing agreements in place.

Commerce One: (May) Provide B2B exchanges. Synapz has been announced as key content provider for Commerce 1's automotive strategy. Our products have been presented to Covisint (Auto Exchange) as part of their strategy Commerce One's solution inside the exchange.

Deloitte & Touche: (May) International consulting firm that will provide value added services around Eclipz implementation. They will run the QAD alliance practice for us.

March First: (May) International consulting firm that will provide value added services around Eclipz implementation program. They will provide much greater geographic sales coverage and may become a channels partner.

Solution Partners:

E-supplylink: (May) Web-based bar coding systems. Will become part of exchange and have over 600 customers to jointly sell to in Automotive sector.

IQS: (May) Web-Based quality management systems. Will become part of exchange and also have strong penetration into automotive market.

Nistevo: (May) Web-based freight optimization system that has strong value proposition for automotive sector. Will become part of the exchange as demand for product increases.

Financial Performance
Future Three's revenue has grown at an average rate of approximately 30% per year. The company is forecasting over \$20 million in revenue for fiscal year 2000, an anticipated growth of 18% year-to-year. The following chart shows historical growth in revenue and number of employees:



The company's projections are as follows:

Consolidated Proforma Income Statements

All numbers in thousands

1998 actual	1999 est.	2000 est.	2001 est.	2002 est
\$ 5,581	\$ 5,020	\$ 5,515	-	-
9,394	9,579	1,225	-	-
\$ 18,022	\$ 17,662	\$ 20,932	-	
N/A	N/A	6,452		_
18,022	17,662	14,480	-	-
-	-	69%	-	-
17,009	16,174	13,761	-	-
\$ 1,014 6%	\$ 1,488 8%	\$ 718 3%	-	-
	1998 actual \$ 5,581 9,394 3,047 \$ 18,022 N/A 18,022 17,009 \$ 1,014 6%	1998 1999 actual est. \$ 5,581 \$ 5,020	1998 1999 2000 actual est. est. \$ 5,581 \$ 5,020 \$ 5,515 1,225 9,394 9,579 10,849 3,047 3,063 3,343 \$ 18,022 \$ 17,662 \$ 20,932 N/A N/A 6,452 18,022 17,662 14,480 - 69% 17,009 16,174 13,761 \$ 1,014 \$ 1,488 \$ 718 6% 8% 3%	1998 1999 2000 2001 actual est. est. est. est. \$ 5,581 \$ 5,020 \$ 5,515 1,225 9,394 9,579 10,849 9,394 9,579 10,849 3,047 3,063 3,343 \$ 18,022 \$ 17,662 \$ 20,932 N/A N/A 6,452 18,022 17,662 14,480 69% 17,009 16,174 13,761 \$ 1,014 \$ 1,488 \$ 718 6% 8% 3%

Summary

Future Three and the Synapz division are uniquely positioned in the digital market to build upon the industry leading position and successful penetration into the automotive sector. With the deployment of the industry's first trade exchange for high volume production parts, automotive suppliers can now realize the value that has previously only been achieved through costly EDI implementations for much lower costs and in a much shorter implementation time frame. They can also use our products and services to solve additional supply chain challenges that will be critical to the success and survival in their competitive market through collaboration on the Internet. This poises Future Three for dramatic growth that will be difficult to challenge due to the complexity of the business systems and the unique domain expertise that has been developed in the company.

The unprecedented changes taking place in the world of information technology present impressive opportunities for Future Three. The technology strategy of deploying an industry trade exchange as an application server provider using Java, XML, and Network Business Objects mean that the most powerful information technologies are being uniquely deployed to solve the remarkable challenges that face this industry. Future Three has been able to manage its own expansion through internal growth from existing business models while preparing the company to be a market leader well into the next decade. Through the diligent selection of the channels strategy the company will also be moving into global markets and additional industry segments in 2001.

Appendix D Page 1

Technical Due Diligence of Future Three

Sid Dunayer - October 12, 1998

This report summarizes information obtained during an onsite visit to Future Three (F3) on October 1-2, 1998. I held interviews with Nancy Vogrin, Bruce Nowak, Enzo Fanelli, Jessie Alderson, John Smolinski, Sandy Ray, Jeri Hart, Dave Broccardo, Sue Proctor, Pat Toufar, Cathy Jensen and Vic Kingery. In addition, source code for both the AS/400 and new IPA products was inspected and a demo of each was also performed. A brief telephone interview was held with John Marchi on October 8, 1998 to discuss internal information systems.

In general, I found all involved to be cooperative and open. Unfortunately, I did not get the sense that information flows smoothly in the development organization. Much of this may be due to the unique way that F3 manages projects. Its matrix management approach to development projects is complex, questionably efficient and has extra levels of management that are not usually seen in software development. I could get very little information about how the various areas would handle the addition of IPA to the product set. While the IPA development staff moves forward, no substantial effort has been made to bring the other areas, like training, testing and documentation, up to speed on this new product and no clear plans exist as to how and when this will happen.

Development

- F3 has a large number of active and outstanding changes to the AS/400 product. The majority of these deal in EDI mapping changes required by the various OEMs.
- F3 has started to develop better testing and quality assurance procedures. The proposed QA procedures appear to be sound and should help to achieve a better quality product. The testing procedures are hindered by the lack of any historical testing library. F3 is in the process of attempting to build a testing library, but this will take time. Also note that a library of testing cases for IPA will need to be built.
- None of the managers interviewed had knowledge of the cost of running their respective departments. This makes it difficult to establish accurate cost records for the development process and related activities.
- F3 has well documented procedures for installing and maintaining the AS/400 product and performs extensive user training. No installation or training plans were available yet for IPA.
- The AS/400 product does not currently contain international support, although they are reportedly working on this. It was unclear as to whether or not IPA had the necessary support.

- F3 utilized the services of five outside developers for the IPA product, three from Progress and two independents. These developers are now getting ready to leave and five F3 developers who have worked with them will perform the work. It is not possible to assess how this will impact future IPA development, but I would expect that there will be some, hopefully minimal, effect.
- IPA is scheduled to be ready for alpha testing by October 23. The IPA development staff feels that the actual date will be about a week later. This version is expected to have all the core functions of the AS/400 product, but many of the "features" or "bells and whistles" will be missing. The feeling is that this version will be used to prove out the core functionality and the GA version will contain the omitted features. At that point, extensive testing will be required. There is no way of knowing what will happen once the alpha testing begins. I expect some number of problems that will require development time to correct. While the testing progresses, development work will be needed to implement the missing features and these will then need testing. In the best possible scenario, this full process will take not less than six to nine months to complete. If major problems arise or the missing features prove difficult to implement, this process could take up to 15 months.

Technical

- The AS/400 product runs on the AS/400 platform only. The IPA product will run initially on Windows/NT with eventual support planned for UNIX.
- The AS/400 product is a supply chain management software system that utilizes EDI for information transfer. The IPA product is designed to perform the same functions.
- The AS/400 product is written in a combination of RPG3 and RPG4 and consists of about 3300 programs with 1.2 million lines of code. IPA is written using the Progress database and its associated 4GL. It consists of about 450 programs each containing about 350 lines of code. In addition, IPA utilizes PaperFree, from PaperFree Software, for its EDI translation, and VSView, from VideoSoft, for its printer and report components. Someone should verify that F3 has the necessary licenses to distribute the runtime components of these packages.
- The AS/400 product was written at F3 and contains all the necessary proprietary notices. IPA was also written at F3, but the use of outside programmers may have introduced code to which F3 may not have the proper licenses. There are no proprietary notices in the actual Progress code, but a copyright message is displayed as part of the "Help About" screen.
- Change control is done manually for the AS/400 system. For IPA, F3 uses the RoundTable product from Progress.
- F3 supports, at most, two releases of the AS/400 product.

- There are some internal system design documents for the AS/400 software, but they are reportedly out of date. There is much documentation on the design and implementation of the IPA software, but only a detailed review would indicate how complete and accurate it is.
- The AS/400 product requires that the user have an RPG compiler available as F3 distributes source code for much, if not all, of the product. IPA will require the user to have a Progress runtime and a PaperFree runtime, which will be part of the standard installation materials.
- F3 has some unit and system test cases for both products, but they are not extensive and for the most part are being generated from recent incidents. There is no formal regression-testing library.
- F3 has received outside certification that the AS/400 product is Y2K compliant. As IPA is still a work in progress, it has not undergone any such certification. F3 considers IPA to be Y2K compliant, but outside certification will be necessary.
- F3 plans to support ANX in both products.

Observations

- The internal systems used by F3 do not seem robust enough to support future anticipated growth and will need replacing which will be expensive.
- The AS/400 product is a mature product and uses a character based interface. There were indications that the customer base would prefer a newer GUI look and feel. This is evidenced by the fact that F3 is preparing to utilize a product called NewLook to achieve this goal. NewLook is a program that can take character-based screens and display then in a GUI format. While this is a quick fix to the task at hand, it is probably not the best long-term solution.
- F3 chose to use Progress for the IPA development. Progress runs only on Windows/NT and certain UNIX machines. Progress does not run on the AS/400 and they have not announced any plans to do so. Given that there is a desire for a more modern look and feel in the AS/400 product, I fail to understand the logic behind going with Progress rather than with tools, such as those from Synon, that would run not only on Windows/NT and UNIX, but also on the AS/400. This would have allowed IPA to become the logical successor to the AS/400 product. In addition, there is little doubt that Progress applications will run on Windows/NT and UNIX, but there is no way of knowing how efficiently they will run without extensive performance testing. Such testing is necessary to specify the minimum system requirements for running the application for different customers.

- IPA utilizes third-party components for EDI translation, printing and reporting. This is a good approach as it allows F3 to concentrate on its core functions, supply chain management. The EDI translation in the AS/400 product has previously been programmed directly into the RPG source code. This is by no means a desirable situation. F3 has recognized this and they have created a new product for the AS/400 called AutoMap that will simplify the mapping process. I don't understand the need to write such a product when third-party mappers are available for the AS/400. In addition, since this was an issue on the AS/400, F3 should have taken that into consideration when they chose a mapping component for IPA. The product used in IPA, PaperFree from PaperFree Software, only runs on Windows/NT and certain UNIX machines. Therefore, it is not suitable for use on the AS/400 and a separate solution was needed.
- IPA is a bare bones implementation of the AS/400 functions. Much of the feature set from the AS/400 product is not implemented at this point. While this does not make IPA an unusable product, it does make it much more difficult to use than the AS/400 product. John Smolinski has a laundry list of features that are missing in Version 1. These will be implemented in Version 2, which Smolinski feels will be the GA release. Unfortunately, there is no definitive project plan in place for Version 2. Version 1 is also an untested product. We have no way of knowing if it will hold up under extensive testing. Assuming the best possible case, it might be possible to have a totally functional Version 1 in six months, but there is still the need to write documentation and get the necessary support functions in place. Furthermore, there is the need to begin development on Version 2 as soon as a stable Version 1 is realized. If we assume that the first GA release is Version 2, then we will probably add another three to six months before the GA release.
- Progress uses a two-tier approach to client/server implementations. That requires that the database server have sufficient horsepower to handle expected peak transaction volumes. This also means that more work is performed on the client machine and that larger amounts of data may need to be transported over the network. New client/server development is typically done using a three-tier approach, or the so-called "thin client". While I am not saying that the two-tier approach is bad, it may not be suitable for an application with large transaction volumes, no matter how good the database server is.

ECLIPZ PROGRAM PLAN

Wed 6/14 2:29 p



Tusks in RED Indicate highly variable task duration mult is subject to change.

SYNAPZ CONFIDENTAL

ECLIPZ PROGRAM PLAN Wed 6/14 2:29 p

1	0	Task Name						May	Jun	e		July	-	-	August		
3	4	Create Help Text	1 Dur	Tue 6/13	Finish	Predece	Resource	30 7 14	21 28	4	11 18 25	2	9 16	23	30 6	13	20
3	5	Polish Help Text	1.4	Wed 6/14	Mod R/14	24	Cathy J			0%	Cathy J			ar ann		10	
30	3	Integrate Help Text into Eclipz	1 d	Thu 6/15	Thu 6/15	34	Cathy J			0%	Cathy J						
3	7	Create VendorRelease Documentation	1.d	Tue 6/13	Tuo 6/12	33	Cathy J			0%	Cathy J				1		
38	3	Polish VendorRelease Documentation	1.d	Wed 6/14	Mod 6/14	33	Cathy J			0%	Cathy J						
39	,	Standardize Screen Standards	1.4	Tuo 6/12	Vved 6/14	37	Cathy J			0%	Cathy J						
40				100 0/13	Tue 0/13	33	Cathy J			0% E	Cathy J						
41		Computer Based Training	6.4	Mon 5/1	Man ElO			1							-		
42		Storyboard Design	1.4	Mon 5/1	Mon 5/6		Sue P										
43		Deployment Plan	1.4	MOI 5/1	Mon 5/1		Sue P	Sue P						100			
44	-	Data Preparation	1.d	Wed 5/2	Mad E/2	42	Sue P	Sue P									
45	-	Development	1.0	Thu 5/4	Thu E/A	43	Sue P	Sue P						-			
46	-	Test	1.d	Eri 5/5	Eri E/E	44	SueP	% Sue P									
47	-	Deployment to Server	1.d	Mon 5/8	Man E/9	40	Sue P	% Sue P									
48	-			WIOIT 5/6	NON 5/6	40	Sue P	0% 🛛 Sue P									
49		Eclipz 1.1 - Credit Card Processing	39 d	Mon 5/1	Eri 6/22									1			
50		Define Requirements	10 d	Mon 6/5	Fil 6/16				:					1			
51		Executive Signoff	5 d	Mon 6/19	Fri 6/22 6		Dave B		50%		Pave B						
52		Version 1.1 Development	1 d	Mon 5/1	Mon 5/1		BOD P			D	% Bob P			1			
53		Java Development	1.4	Mon 5/1	Mon 5/1					1	1						
54		Operations Development	1.d	Mon 5/1	Mon 5/1		Kevin K	Kevin K									
55		QA Testing	1.4	Mon 5/1	Mon 5/1			John M		1							
56		Install Upgrade at CSC	1.4	Mon 5/1	Mon 5/1		sandy R	Sandy R		1							
57		Eclipz 1.1 GA	Dd	Mon 5/1	Mon 5/1	P	Cevin K	Kevin K		1							
58			ou	MON 5/1	Mon 5/1			5/1		1							
59		Eclipz 1.2 - Full GUI	1.4	Mon 5/1	Man Ell												
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66		Eclipz 2.0 - Development to Alpha Test	80 d	Mon 5/4	Tue 0/22		:			1							
67		ICI Development	56 d	Mon 5/1	Ned 7/10								-	-		-	
68		Synapz Development	80 d	Mon 5/1	Tuo 8/22	1	ony S						Ton	ys :			
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Tasks in RED indicate highly variable task duration that is subject to change.

ECLIPZ PROGRAM PLAN Wed 6/14 2:29 p

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71		Alpha Test	1 d	Tue 8/22	Tue 8/22	69	Sandy R	30	7	14	21	28	4	1 11	11		25	2	9	16	23	30	6	13	20	0
72		Eclipz 2.0 Available for Beta Test	bO	Tue 8/22	Tue 8/22	71						-					-							09		2

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,	6	Task Name	Start	Elnich	Actual Start	th Quarter	Dee	1st Qu	uarter		2nd Quarte	r	
0	-	Version Control	Mon 11/29/99	Wed 3/22/00	Actual Start NA		Dec	Jan Fe	eb Ma	r Apr	May	Jun	-
3	1	Communication	Mon 11/1/99	Thu 2/3/00	Mon 11/1/99			-					
4	1	OUTQ	Mon 11/1/99	Thu 2/3/00	Mon 11/1/99	-	-	Ed.					
5		VendorRelease	Mon 11/1/99	Fri 3/10/00	NA								
	E	Communication	Fri 2/4/00	Thu 2/10/00	NA				Ralph N				
		Application Security	Mon 3/6/00	Fri 3/10/00	NA	1.4.8			Sh Sh	aun S			
		Menu Tool	Mon 2/7/00	Fri 2/11/00	NA	and the			Shaun S				
		Version Control	Mon 2/21/00	Fri 2/25/00	NA				Shaun S				
		AutoMap	Mon 11/1/99	Fri 2/18/00	NA			97 KORA 620 FO	Ralph N				
		Interface	Mon 11/1/99	Fri 2/4/00	NA		Adaptanta	Ral	ph N				
		ANX Connectivity	Mon 1/3/00	Fri 5/5/00	NA	1.12	L				all a		
		E5 version 1	Mon 1/3/00	Fri 2/11/00	NA		Ĩ	STATISTICS STATISTICS	Paul M				
		E5 version 2	Mon 2/14/00	Fri 5/5/00	NA						Paul M		
		Jwalk	Tue 1/25/00	Mon 7/31/00	NA			-					
		AutoRelease + 10 TPs	Tue 1/25/00	Mon 3/27/00	NA			VIIII	min	Mike H St	ave M		
-		VendorRelease	Tue 3/28/00	Mon 5/8/00	NA			12/////		2111111	7771		
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at: N	lew David	Plooment Task Critical Task		Summa 7///2 Rolled I	ny Up Task		Rol	led Up Progress					
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Appendix E-2 (7 pages)

Future Three Corporation

VendorNet Web Enablement

CSC Technical Design Document

PRESENTED: APRIL 20, 2000

This data, furnished in connection with this proposal, shall not be disclosed outside of Future Three, and shall not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate the proposal; provided, that if a contract is awarded to this offeror as a result of or in connection with the submission of this data, Future Three shall have the right to duplicate, use, or disclose the data to the extent provided in the contract. This restriction does not limit Future Three's right to use information contained in the data if it is obtained from another source without restriction.

F3VendorNetCSCDesignDoc

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Executive Overview

Future Three is in the process of implementing a supply-chain application referred to as VendorRelease[™]. A component of VendorRelease[™] is VendorNet[™]. The VendorNet component of VendorRelease[™] is primarily responsible for data transfer between a distribution of database engines, as well as data transfer between primary database engines and web publishing components. As well, the VendorNet[™] product allows for dynamic, web-based interaction between various data components and various suppliers and/or customers, facilitating a dynamic, interactive, data-based environment which automates the process of supplier/customer order interaction and product delivery – a vast improvement over current manual/labor-intensive processes.

Implementation of the "Web Enablement" portion of VendorNet[™] will allow Future Three to fully develop and implement its supply-chain product(s) currently and in the future. In addition, the Internet connectivity and security portion(s) of this project will secure Future Three's ability to compete successfully with its supply-chain/automation product(s), and maintain/expand its current market position.

The CSC design strategy for the Web Enablement portion of VendorNet is comprised of the following components: Hosting, Publishing, Connectivity, Security, and Management. This is a full-service, managed solution which will meet/exceed Future Three's design requirements, while also providing for future scalability. A brief explanation of these components follows.

The Hosting portion houses the raw data which drives the Publishing component. Data is warehoused in an Oracle database, and bi-directionally queried by local Publishing and remote VendorRelease[™] components. Connectivity is achieved via the Internet and secured using highly-evolved security methodologies and equipment – currently incorporating a firewalling component coupled with multiple intrusion detection points/technologies. The Management function monitors and controls security functions, as well as availability for the various Hosting, Publishing, Security, and Connectivity components.

All of these components are described in greater detail later in this document.

F3VendorNetCSCDesignDoc

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v2.2 - 04.18.00

Future Three Design Requirements

Design Overview -

To quote the *Future Three Design Document, Supply Chain Linking, Web Enablement – VendorNet™* document, "VendorNet™ is a two-part web application that would partially web-enable (provide a thin-client, cost-effective browser based solution) the Supply chain Linking process, and provide an alternative to the requirement processing and shipment notice generation using fax machines."

The VendorRelease[™]/VendorNet[™] product(s) are components of a Supply Chain Linking system which is implemented within a distributed database model and accommodates customer/supplier access via standard Internet browsing technology. Disparate databases are "linked" by way of the Internet, and updated by application-controlled "publish" and "receive" operations. These publishing and receiving activities are initiated by customers/suppliers via "thin clients" utilizing standard Internet browsing technology.

Requirement Components -

Future Three is looking for CSC to provide the following key components to facilitate its VendorNet[™] solution:

- Hosting While disparate VendorRelease[™] databases (hosted on the IBM AS/400 platform) are located at various customer sites, there is a need to centrally house specific data for the purpose of a common, Internet accessible communication point. This database is referred to as the Web Host Database. Per the current VendorNet[™] design documentation, this is an Oracle database, accessed from a Web publishing server via JDBC queries.
- Publishing Data housed in the Hosting portion of VendorNet[™] is made available to Internet clients by way of a Java Web Server generically available on the Internet. Common browsing technology is employed (IE/Netscape 4.0 or greater). There is a need to reasonably protect this information as it traverses the Internet as well.
- Connectivity Per the current design, all connectivity is over the Internet. There are two primary 'flavors' of connectivity specified in the VendorNet[™] design: 1) connectivity between VendorRelease[™] databases located at various customer sites and the central VendorNet[™] Web Host Database, and 2) connectivity between the VendorNet[™] Web Host Database and various suppliers. There are between 30-100 customer-VendorRelease[™] locations, with potentially a thousand or more supplier locations. These locations are currently national, with potential for international/global exposure.
- Security Data passing between the VendorRelease[™] databases and the Web Host Database, as well as data passing between the Web Host Database and supplier thin clients (browsers), must both be protected. Suppliers will need to be authenticated.

F3VendorNetCSCDesignDoc

- Monitoring The entire solution (housed in the CSC Southfield Datacenter) must be monitored, and automated notification technology/procedures implemented.
- Process Methods of periodic communication, contacts, escalation, and change control procedures will need to be put in place.
- Pilot Deployment Assistance Future Three will need technical and operational assistance at all levels (hosting, publishing, connectivity, security, etc.) getting the first pilot deployed. The initial pilot is to involve the Uniboring Corporation, and potentially five selected Uniboring suppliers.
- General Deployment Assistance Future Three will require ongoing assistance connecting additional VendorRelease[™] sites to the VendorNet[™] components located at CSC. This may come in the form of simple inter-firewall key exchanges and tunnel setup, or providing a full connectivity/security setup for a customer site. There is also a potential that a customer site may wish to have CSC remotely manage their firewall.
- Support While Future Three will be first-line support for all VendorNet[™] issues, they will occasionally require assistance resolving hosting, publishing, connectivity, and security-related issues. Support will be substantially greater during the pilot and customer-startup phases of the project.
- Maintenance Future Three will want CSC to maintain the VendorNet[™]-related equipment located within its Datacenter. This would include hardware break-fix, hardware upgrades, software upgrades (excluding VendorNet[™] application code/software), or other patches/fixes to keep the systems current and operational.
- Thin Client Future Three has decided to use a 'thin client' at the supplier site, comprised of little more that a standard Internet browser (IE/Netscape 4.0 or greater). This was an intentional effort to reduce the burden on a supplier wishing to connect to the VendorNet[™] product. Future Three views the supplier as a potential revenue stream, and may market additional products there in the future.
- Remote Support Future Three personnel will need to have limited access to the VendorNet[™] Web Enablement solution from their Northville office, as well as potentially from other remote locations (home, etc.).

In summary, Future Three is looking for CSC to install, configure, and maintain the hosting, publishing, connectivity, and security platform on top of which the Web Enablement portion of VendorNet[™] will reside – exclusive of the application itself.

F3VendorNetCSCDesignDoc

v2.2 - 04.18.00

The CSC Solution

In light of the previous requirements, the following components are suggested:

Data Hosting -

VendorNet[™] data will be hosted on an HP 9000 D-Class host running HP/UX v11. This host will be equipped with HP 'Auto RAID', which will be configured for combined RAID5/RAID0+1, serviced by 2 SCSI controllers with 96MB cache RAM each. This configuration will be fully hot-swapable and be pre-configured with 1 hot-spare. In addition, the host will have dual PA-RISC 160 MHz 64-bit processors, with 1.5 GB of RAM. An internal DDS3 tape drive with OmniBack software will provide system backup. CSC will acquire and configure the hardware to the OS level and provide assistance with the installation of Oracle (and other components) as needed.

Web Publishing -

Web Publishing will be provided by a Sun Enterprise 220R Server running Solaris 2.7 with Java Web Server 2.0. The server will be configured with one 18 Gig SCSI hard drive, 512 MB RAM, and 2-450 MHz UltraSPARC-II processors. CSC will acquire and configure the hardware to the OS level and provide additional assistance with the web hosting and data access components as needed.

Note: This platform was chosen for its ability to meet/exceed current publishing load requirements, as well as its ability to scale well into the future. Additional 220R's can be added and load-balanced directly from the firewall. An added indirect benefit would be 'implicit high availability' (if one 220R were to fail, the firewall would route all traffic to the remaining 220R).

Internet Connectivity -

Connection to the Internet will be provided by AT&T via dedicated Internet connection. AT&T will serve as the ISP, providing connectivity and DNS services.

Initial bandwidth will be 1.544 Mbps (full T1 pipe). While this will be more than sufficient for the initial pilot (and for some time to come), it may be necessary to implement some sort of bandwidth allocation solution in the future (e.g. CheckPoint's 'Floodgate' product). This will prevent inter-host 'publish' and 'receive' operations from dominating the Internet connection, and significantly degrading/impairing Web publishing performance to the suppliers.

The following chart indicates expected 'publish' and/or 'receive' times (in seconds), given the following sizing parameters, for 1, 5, or 10 simultaneous operations, at various bandwidth sizes from 128Kbps to 1,544Kbps (full T1). It should be noted that while these calculations are good for comparative purposes, actual times will vary due to Internet performance as well as supplier browsing competing for bandwidth.

F3VendorNetCSCDesignDoc

Parameters -

- 3000 bytes/records
- 1000 records/publish
- 1 publish/day/client
- 100 clients

NUDS	128	256	384	512	768		154
Simultaneo	ISAMA						
1	23.44	11.72	7.81	5.86	3.91	2 93	1.0/
5	117.19	58.59	39.06	29.30	19.53	14 65	0.70
10	234.38	117 19	78 13	58 50	20.00	14.00	9.12

Note: It is assumed that an IP address and/or domain name has already been reserved for VendorNet[™] Web Enablement. If not, this will need to be completed as well.

Security -

Security will be accomplished via a number of strategies:

- A Sun Netra running Solaris 2.7 and CheckPoint Firewall-1 (v4.0) will serve as the primary firewall. A separate management station will store the rulebase, objects, etc. as well as store firewall logging information.
- A Sun Netra running Solaris 2.7 and CheckPoint Real Secure will serve as a prefirewall intrusion detector. This will monitor traffic in front of the firewall, giving a clear picture of 'friendly' and 'hostile' traffic. This box will report to a central management station, and will alarm if any 'attack signatures' materialize.
- A Dell Appliance running Linux and a hand-picked set of intrusiondetection/snooping tools will monitor traffic post-firewall. This device will 'promiscuously' monitor all traffic behind the firewall, including interhosting/publishing traffic.
- VPN (Virtual Private Network) 'tunnels' will be established between all VendorRelease[™], VendorNet[™] and Web Enablement components (firewall to firewall). These tunnels will be 3DES and/or CAST, with MD5 or SHA-1 digests.
- Connections between suppliers and the Web Enablement publishing component will use SSL encryption endemic to the browser.
- <u>A 'two-phase' security methodology will be in place</u>. That is to say that Future Three will have exclusive administrative capabilities with regard to the VendorNet[™] application code and its data while CSC will have exclusive 'root' access to all VendorNet[™] hosting, publishing, connectivity, and security components housed within its Datacenter at OS and security levels. This prevents either entity from having eminent control of both the 'front and back doors' to/from VendorNet[™] and provides for mutual accountability regarding stability- or performance-impacting activities.</u>

Note: It will be necessary to clearly define a procedure for dealing with an immediate intrusion threat. Specifically, if a malicious intrusion is detected, is CSC permitted to manually/automatically terminate that (or all) connection(s) to preserve data integrity?

F3VendorNetCSCDesignDoc

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Monitoring -

The entire solution will be monitored by a Dell 2450, dual proc. server running firewall, intrusion, and hardware monitoring/availability/reporting applications. Any anomalies will generate appropriate log entries and pager notifications. This will provide 24x7 monitoring of the VendorNet[™] component(s) located within the CSC Datacenter. At Future Three's option, CSC can provide limited remote VendorNet[™] security/connectivity monitoring to the Future Three Northville office.

Process -

Communication – Selected Future Three and CSC personnel associated with the VendorNet[™] project will meet on a weekly basis (if not more frequently, as needed) to discuss project status, open items, or any other project anomalies. These meetings may be face-to-face, or via teleconference, but MUST happen at least weekly up until the time the first pilot has been in stable operation for at least one month – at which time a more lenient, mutually agreed-upon communication policy can be implemented. Either party (Future Three or CSC) can call a meeting at any time deemed necessary.

Significant effort should be put forth by both Future Three and CSC personnel to return communications (phone calls, emails, etc.) within a 24-hour period (or sooner) if at all possible. While not a mandate, this should be the goal.

Primary and secondary and/or backup contacts must be defined (Future Three and CSC) along with various phone numbers, pager numbers, and email addresses.

Contacts - The following Future Three contacts are formally identified:

Kevin Kormos (primary F3 project/technical contact)

Application Developer Future Three 41780 Six Mile Road Northville, MI 48167 248.697.3200 (Main) 248.697.3215 (DID) 248.697.3201 (Fax) KevinKormos@future3.com

David Broccardo (administrative contact)

Director, Advanced Technologies Future Three 41780 Six Mile Road Northville, MI 48167 248.697.3200 (Main) 248.697.3217 (DID) 248.697.3201 (Fax) DaveBroccardo@future3.com

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ID	0	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Otr 2	Qtr 3
1	-	DTD and XML Modeling	32 days	Mon 5/8/00	Wed 6/21/00				
2	VO	Define the DTD for the EDI XML Message	5 days	Mon 5/8/00	Fri 5/12/00		Joy		Colores II
3	VO	Define DTD/Model for the F3 XML Message	5 days	Mon 5/15/00	Fri 5/19/00	2	Joy		1 1 2 2
4	1	Incorporate ICI Comments	2 days	Mon 5/22/00	Tue 5/23/00	3	Joy	- Llov	
5	VO	Define DTD/Model for the Semantically Corr	5 days	Wed 5/24/00	Wed 5/31/00	4	Joy		
6	VO	Define DTD/Model for the Managed Require	5 days	Thu 6/1/00	Wed 6/7/00	5	Joy		
7		Define DTD/Model for Outgoing Messages	5 days	Thu 6/15/00	Wed 6/21/00	110	Usman		Usman
8		Protocol Segment	33.5 days	Tue 6/6/00	Mon 7/24/00				
9		Define FTP/communications	7 days	Thu 6/15/00	Fri 6/23/00				
10		Define FTP/Comm system	3 days	Thu 6/15/00	Mon 6/19/00	110	Usman		Isman
11	C	Implement FTP/Comm System	4 days	Tue 6/20/00	Fri 6/23/00	10	Usman		Usman
12	VO	Integrate COTS EDI Protocol Product	4 days	Mon 6/19/00	Thu 6/22/00	1			
13	VO	Identify COTS EDI Protocol Product	1 day	Mon 6/19/00	Mon 6/19/00	11	Jeff		leff
14	VO	Identify Required Configuration Informa	1 day	Tue 6/20/00	Tue 6/20/00	13	Jeff		
15	VO	Design Configuration Acess	1 day	Wed 6/21/00	Wed 6/21/00	14	Jeff		leff
16	VE	Implement Configuration Acess	1 day	Thu 6/22/00	Thu 6/22/00	15	Jeff		leff
17		Integrate With ECLIPZ Infrastructure	3 days	Thu 7/20/00	Mon 7/24/00				
18		Support Startup	1 day	Thu 7/20/00	Thu 7/20/00	104	Usman		billisman
19		Support Shutdown	1 day	Fri 7/21/00	Fri 7/21/00	18	Usman		litteman
20		Support Restart	1 day	Mon 7/24/00	Mon 7/24/00	19	Usman		Hieman
21		EDI Output Grammar Rules	13 days	Tue 6/6/00	Fri 6/23/00	1995 - 1905 - 19			
22		Define Rules	10 days	Tue 6/6/00	Tue 6/20/00				
		Task		Summary	-		Rolled Up Progress		
oject:	F3Shippe	rPrototypePlan Split , ,		Rolled Up	Task		External Tasks		
ate: M	on 6/19/00	Progress	-	Rolled Up	Split		Project Summary	For the second second second second	
		Milestone 🔶		Rolled Up	Milestone 🔿				

	0	Task Name		Duration	01-1				2nd Quarter	3rd	Quarter
23	-	AS/400	Program Research	Duration	Start	Finish	Predecessors	Resource Names	Qtr 2	-	Qtr 3
			or rogram research	Tuay	Tue 0/0/00	vved 6/7/00	95	Laura	H	Laura	
24		Trading	g Partner Specification Rese	5 days	Wed 6/7/00	Wed 6/14/00	23	Laura		Laura	
25	1	Busine	ss Practice Research	4 days	Wed 6/14/00	Tue 6/20/00	24	Laura		Laura	
26		Write Rules		3 days	Tue 6/20/00	Fri 6/23/00	25	Laura		Laur	a
27		VAN Output Gra	ammar Rules	6 days	Fri 6/23/00	Mon 7/3/00		200			
28		Define Rule	95	3 days	Fri 6/23/00	Wed 6/28/00			1.00		
29	136	AS/400	Program Research	1 day	Fri 6/23/00	Mon 6/26/00	26	Laura		Hau	
30		Trading	Partner Specification Rese	1 day	Mon 6/26/00	Tue 6/27/00	29	Laura		Hau	
31		Busines	ss Practice Research	1 day	Tue 6/27/00	Wed 6/28/00	30	Laura	-	Hau	
32		Write Rules		3 days	Wed 6/28/00	Mon 7/3/00	31	Laura	10000		
33		Parser Segment		70.5 days	Mon 4/17/00	Thu 7/27/00	16.5			- Lat	
34	VO	Research/Select I	DTD/XML Tools	1 day	Mon 4/17/00	Mon 4/17/00		Jamie	Jamie		1
35	~	Incorporate ICI Co	omments	0.5 days	Tue 4/18/00	Tue 4/18/00	34	Jamie	Jamie		
36		Parser Process		69 days	Tue 4/18/00	Thu 7/27/00					
37		Input Parser		45.5 days	Tue 4/18/00	Thu 6/22/00					
38	VO	In Parse	er Process Analysis	6 days	Tue 4/18/00	Thu 4/27/00	35	Jamie	Jamie		1000
39	VO	In Parse	r Process Design	7 days	Thu 4/27/00	Mon 5/8/00	38	Jamie	Jamie		
40	~	In Parse	r Process Design #2	6 days	Tue 5/9/00	Fri 5/19/00	68	Jamie			
41	VO	In Parse	r Process Implementation	12 days	Fri 5/19/00	Fri 6/9/00	40	Jamie		amie	
42		In Parse	r Process Retrofit for Monk	3 days	Fri 6/9/00	Wed 6/14/00	41	Jamie		Jamie	
43		In Parser	r Process Retrofit System	2.5 days	Wed 6/14/00	Fri 6/16/00	42	Jamie		Iamio	
44		In Parser	Process Test/Integration	3 days	Mon 6/19/00	Thu 6/22/00	43	Jamie		Jamie	
	19		Task		Summary			Rolled Lip Program			
Project	: F3Shipp	erPrototypePlan	Split		Rolled Up	Task		External Tasks	NAN STORE AND	100	
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ID	0	Task Name	13. T	Duration	Start	Finish	Predecessors	Resource Names	2nd Quarter	3rd Quarter
45		Output Pa	irser	46.5 days	Fri 5/19/00	Thu 7/27/00	11000033013	incesource maines	Quz	Cir 3
16	~	Out P	arser Process Analysis	7.5 days	Fri 5/19/00	Fri 6/2/00	40	Jamie		
7		Out P	arser Process Design	12 days	Fri 5/26/00	Thu 6/15/00	46	Jamie		Jamie
8		Out P	arser Process Implementatio	9 days	Fri 6/16/00	Thu 6/29/00	47	Jamie		Jamie
9		Out P	arser Process - Wrapper	3 days	Fri 6/30/00	Thu 7/6/00	48	Jamie		Jamie
0		Out P	arser Process - XML File sen	4 days	Fri 6/16/00	Fri 7/7/00	49	Jamie		Lamia
1		Out P	arser Process - Binder	10 days	Fri 6/16/00	Wed 7/19/00	50	Jamie		
2		Out Pa	arser Process - ICI Integratio	2.5 days	Thu 7/20/00	Mon 7/24/00	51	Jamie		Iamio
3	0.	Out Pa	arser Process Test/Integratio	3 days	Mon 7/24/00	Thu 7/27/00	52	Jamie		
1		Translator Segment		28 days	Thu 6/8/00	Tue 7/18/00				Gaine
5		Define Input Dat	a Mapping Rules	7 days	Thu 6/8/00	Fri 6/16/00	6	Ben[50%],Sally[50%]		Bent50% Sallyten
		Design/Write inp	out data mapping rules	7 days	Mon 6/19/00	Tue 6/27/00	55	Sally[50%],Ben[50%]		Sally 60%1 Bonf
		Define Ouput Da	ata Mapping Rules	7 days	Wed 6/28/00	Fri 7/7/00	56	Sally[50%],Ben[50%]		Sally 50%1 Bo
3		Design/Write Ou	tput Data Mapping Rules	7 days	Mon 7/10/00	Tue 7/18/00	57	Sally[50%],Ben[50%]		Sally 50 %], Bel
		Define Router Mech	anism	57 days	Mon 4/17/00	Fri 7/7/00				Gally[50%],E
	VO	Router Analysis		13 days	Mon 4/17/00	Thu 5/4/00		Erik	Frik	TI
	VO	Router Design		10 days	Fri 5/5/00	Thu 5/18/00	60	Erik	- Frit	1
		Router Implemen	ntation - Examiner	7 days	Fri 5/19/00	Tue 5/30/00	61	Erik		
		Router Implemen	ntation -XML report Doc	3 days	Wed 5/31/00	Fri 6/2/00	62	Erik		
		Router Implemen	ntation - XML Cfg Doc	2 days	Mon 6/5/00	Tue 6/6/00	63	Erik		
		Router Implemen	tation - balance of router pa	12 days	Wed 6/7/00	Thu 6/22/00	64	Erik		
		Router Test/Integ	gration	10 days	Fri 6/23/00	Fri 7/7/00	65	Erik		E
	1.3	Print and	Task		Summary	-		Rolled Up Progress		
ect	F3Shipp	erPrototypePlan	Split		Rolled Up	Task		External Tasks	ALL STREET, MARKING	
N	Non 6/19/0	00	Progress		Rolled Up	Split		Project Summary	A REAL PROPERTY AND INCOME.	
			Milestone 🔶		Rolled Up	Milestone 🔿	and the second second second			4 67

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1D 67	U	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Qtr 2	Qtr 3
07	V	Generator Segment	4 days	Mon 5/8/00	Fri 5/12/00				
68	VO	Define Trading Partner Search Rules	1 day	Mon 5/8/00	Tue 5/9/00	39	Jamie	HJamie	
69	VO	Write Trading Partner Search Rules	3 days	Tue 5/9/00	Fri 5/12/00	68	Laura	Laura	
70		Transition Segment	34.5 days	Mon 4/17/00	Tue 6/6/00				
71	VO	Identify Programs To Search	0.5 days	Mon 4/17/00	Mon 4/17/00		Dave	Dave	
72	~	Session/Transmission Semantics	23.5 days	Mon 4/17/00	Fri 5/19/00	Sec.			
73	VO	Rules Research	18.5 days	Mon 4/17/00	Fri 5/12/00				
74	~	AS/400 Program Research	1 day	Mon 4/17/00	Mon 4/17/00		Joy	hJoy	
75	~	Trading Partner Specification Re	ese 2 days	Mon 4/17/00	Tue 4/18/00		Laura	Laura	
76	~	Business Practice Research	0 days	Fri 5/12/00	Fri 5/12/00	75,69	Laura	5/12	
77	VO	Design/Write Business Rules	5 days	Fri 5/12/00	Fri 5/19/00	76	Laura	Laura	
78		Combine By Part	25.5 days	Mon 4/17/00	Tue 5/23/00				
79	VO	Rules Research	24.5 days	Mon 4/17/00	Mon 5/22/00		12		
80	~	AS/400 Program Research	1 day	Tue 4/18/00	Tue 4/18/00	74	Joy	hJov	
81	~	Trading Partner Specification Re	se 0 days	Mon 4/17/00	Mon 4/17/00			4/17	
82	~	Business Practice Research	1 day	Fri 5/19/00	Mon 5/22/00	81,77	Laura	Laura	
83		Design/Write Business Rules	1 day	Mon 5/22/00	Tue 5/23/00	82	Laura		
84		Combine By Release	27.5 days	Mon 4/17/00	Thu 5/25/00				
85	VO	Rules Research	26.5 days	Mon 4/17/00	Wed 5/24/00				
86	~	AS/400 Program Research	1 day	Wed 4/19/00	Wed 4/19/00	80	Joy	Volu	
87	~	Trading Partner Specification Res	se 0 days	Mon 4/17/00	Mon 4/17/00			A/47	
88	~	Business Practice Research	1 day	Tue 5/23/00	Wed 5/24/00	87,83	Laura	Laura	
		Task		Summary	-		Rolled Up Progress		
roject	F3Shippe	rPrototypePlan Split		, , Rolled Up	Task		External Tasks	TENER STREET	
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10		Milestone	•	Rolled Up	Milestone 🔷				
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10	0	Task Name	Duration	Chad	Fisish	Denderson		2nd Quarter	3rd Quarter
89	U	Design/Write Business Bul	es 1 day	Wed 5/24/00	Thu 5/25/00	Predecessors	Resource Names	Qtr 2	Qtr 3
00	12			VICU 0/24/00	1110 5725700	00	Laura	hLau	ra
90		Define EDI Semantic Rules	34.5 days	Mon 4/17/00	Tue 6/6/00		a series and		
91	VO	Define Rules	33.5 days	Mon 4/17/00	Mon 6/5/00				
92	~	AS/400 Program Rese	earch 0 days	Mon 4/17/00	Mon 4/17/00			4/17	
93	~	Trading Partner Specif	fication Rese 6 days	Thu 5/25/00	Mon 6/5/00	89	Laura		aura
94	~	Business Practice Res	search 0 days	Mon 6/5/00	Mon 6/5/00	93	Laura		6/5
95		Write Rules	1 day	Mon 6/5/00	Tue 6/6/00	94	Laura		aura
96		Manage Segment	58 days	Mon 5/8/00	Fri 7/28/00	- 91-4			
97	VO	Define Managed Requirement S	tates 2 days	Mon 5/8/00	Tue 5/9/00	Sec. 3	Usman	HUsman	M
98		Define Enterprise Model - working	ng 19 days	Wed 5/10/00	Thu 6/8/00	97	Usman		sman
99	1.5	Design Web interface for custom	ner setup 2 days	Fri 6/23/00	Tue 6/27/00	12	Usman	1.1.1	Usman
100		Define Web interface for supplier	r setup 2 days	Wed 6/28/00	Thu 6/29/00	99	Usman		Hisman
101		Design Web interface for custom	ner ASN/FA 2 days	Fri 6/30/00	Wed 7/5/00	100	Usman		Lisman
102		Design Web interface for supplie	r ASN notice 2 days	Thu 7/6/00	Fri 7/7/00	101	Usman		Usman
103	18.1	JSP/Servlets designs	5 days	Mon 7/10/00	Fri 7/14/00	102	Usman		Usman
104		Design queries for JDBC ELF	2 days	Tue 7/18/00	Wed 7/19/00	103	Usman		Husman
105		Implement JDBC ELF queries	5 days	Thu 7/20/00	Wed 7/26/00	104	Usman		Usman
106		Implement Web interfaces and J	SP/Servlets 20 days	Wed 6/28/00	Fri 7/28/00	99	Sandy		Sandy
107		Data Entry Segment	44 days	Mon 5/8/00	Mon 7/10/00	No. SP			
108		Define ECLIPZ Phase I Integration	on 3 days	Mon 5/8/00	Wed 5/10/00	3. 1. 1.6	Dave	Dave	
109	~	Define ECLIPZ Schema Modifica	tions 15 days	Thu 5/11/00	Tue 6/6/00	108	Dave		ive
110		Implement ECLIPZ Schema Mod	lifcations 3 days	Fri 6/9/00	Wed 6/14/00	109,98	Usman		Jsman
		Task		Summar	y 🛡		Rolled Up Progress	TI	
roiect	: F3Shipp	erPrototypePlan Split		Rolled U	p Task		External Tasks	(Assisted and a	
ate: N	Aon 6/19/0	00 Progress		Rolled L	n Split		Project Summer		
		Milestone		Rolled L			Fibject Summary	-	

ID	0	Task Name	Duration	C1 1			1.	2nd Quarter	3rd Quarter
11	0	Define Management Mechanism	10 days	Start Wed 6/7/00	Finish Fri 6/23/00	Predecessors	Resource Names	Qtr 2	Qtr 3
10		Devide Data					Dave		Dave
12		Populate Relations	10 days	Mon 6/26/00	Mon 7/10/00	111	Sandy		Sanay
13		EDI Output Segment	8 days	Wed 7/19/00	Fri 7/28/00		and the second second		
14	1	Define Data Mappings	5 days	Wed 7/19/00	Tue 7/25/00	58	Joy,Sally[50%]		Joy.Sally[
15		Write Data Mappings	3 days	Wed 7/26/00	Fri 7/28/00	114	Joy,Sally[50%]		Joy.Sally
16		Testing and Quality Assurance	20 days	Mon 7/31/00	Fri 8/25/00	1,8,33,54,59,67,70			
17		ICI Tasks	51 days	Mon 5/8/00	Wed 7/19/00				
18		Infrastructure Segment	46 days	Mon 5/8/00	Wed 7/12/00				
19		System Monitoring	27 days	Thu 6/1/00	Mon 7/10/00	Conservation of the	100-21	- Barte	
20		Rules Interface	11 days	Fri 5/19/00	Mon 6/5/00	No. Sala			T
21	-	Requirements Manager	31 days	Tue 6/6/00	Wed 7/19/00	120			
22		XML Monk	24 days	Mon 5/8/00	Fri 6/9/00			- REFERENCE	
23	-	Java ELF	19 days	Mon 6/12/00	Fri 7/7/00	12			
24		JDBC ELF	10 days	Mon 5/15/00	Fri 5/26/00	1. 3. 3.			
25		Java Gnome	25 days	Tue 5/30/00	Mon 7/3/00			Hard Hard Hard Hard Hard Hard Hard Hard	
		Task		Summary	-		Rolled Up Progress	100 - 300 	
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