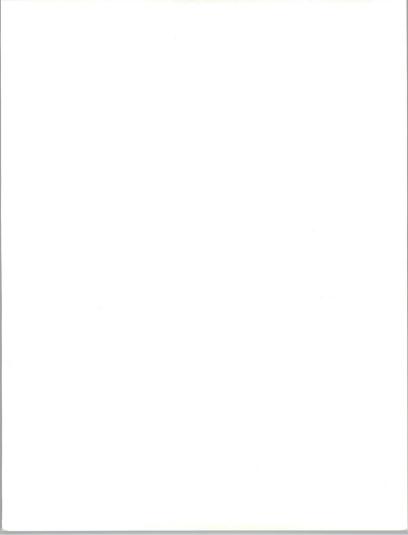
Banking/Finance Vertical Market Case Study: Investors Group—Client Account Servicing System

Charles N. Gregory Senior Vice President Atkinson, Tremblay & Associates Inc. (An AGS Information Services Canadian affiliate)



INPUT

1992 SYSTEMS INTEGRATION CONFERENCE

BANKING VERTICAL MARKET

FINANCIAL SERVICES SECTOR

* * *

CASE STUDY

DEVELOPMENT OF AN

INTEGRATED CLIENT

ACCOUNT SERVICING SYSTEM

THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992 COPYRIGHT



INPUT

1992 SYSTEMS INTEGRATION CONFERENCE

BANKING VERTICAL MARKET INTEGRATED FINANCIAL SERVICES - CASE STUDY

AGENDA

- 1 CLIENT BACKGROUND
- 2 SYSTEMS ENVIRONMENT TO BE REPLACED
- 3 BUSINESS OBJECTIVES
- 4 APPROACH TO ARCHITECTURE
- 5 PROJECT MANAGEMENT
- 6 DELIVERED SYSTEM

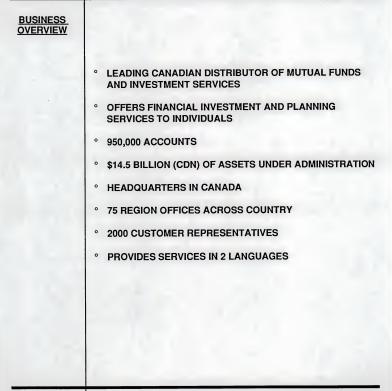
THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

CLIENT BACKGROUND



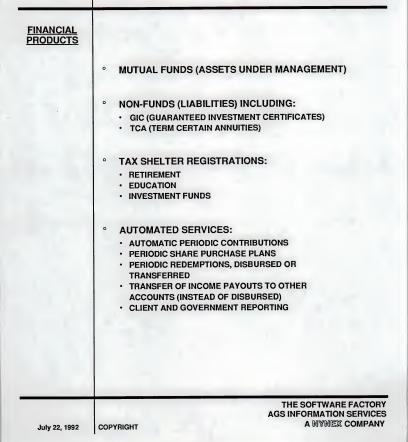
THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

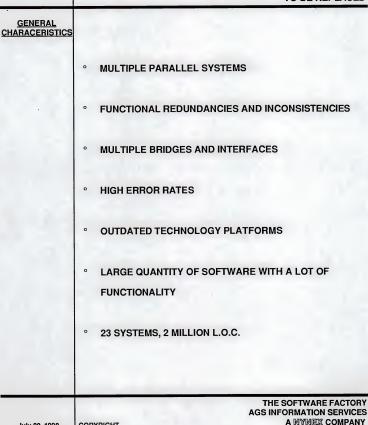
CLIENT BACKGROUND





INTEGRATED FINANCIAL SERVICES

SYSTEMS ENVIRONMENT TO BE REPLACED

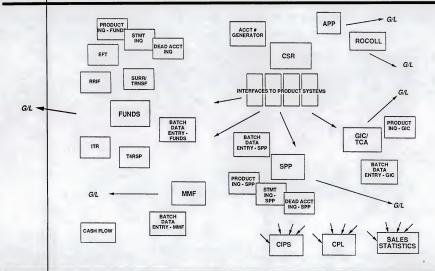


July 22, 1992



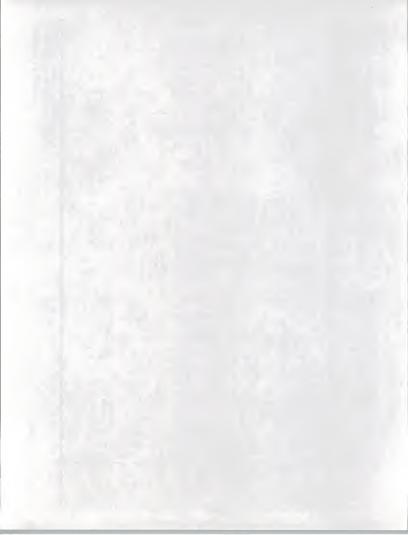
INTEGRATED FINANCIAL SERVICES

SYSTEMS ENVIRONMENT TO BE REPLACED



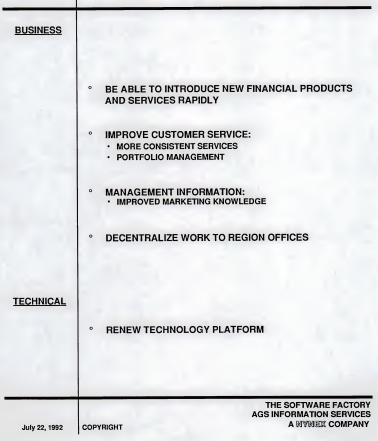
THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYWEX COMPANY

July 22, 1992 COPYRIGHT



INTEGRATED FINANCIAL SERVICES

OBJECTIVES





INTEGRATED FINANCIAL SERVICES

APPROACH TO ARCHITECTURE

OBJECTIVE

The system had to be relatively small less software would mean less time

In order to impose low maintenance costs and low risks, the system had to be independent of organization and procedures

> System had to overcome the pitfalls of today's systems

DEVELOP A SMALLER SYSTEM

FLEXIBLE CONSISTENT ACCURATE



ARCHITECTURAL APPROACH

CONCEPT - ING ™

THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYMEX COMPANY

July 22, 1992

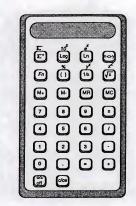


INTEGRATED FINANCIAL SERVICES

APPROACH TO ARCHITECTURE

CONCEPT-ING

ANALOGY OF THE SCIENTIFIC CALCULATOR



The goal of Concept-ing is to find the ideal set of "buttons" such that, for any business procedure, some combination of "buttons" will automate the procedure

> THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

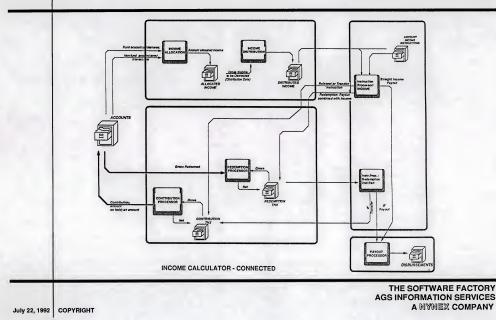
APPROACH TO ARCHITECTURE

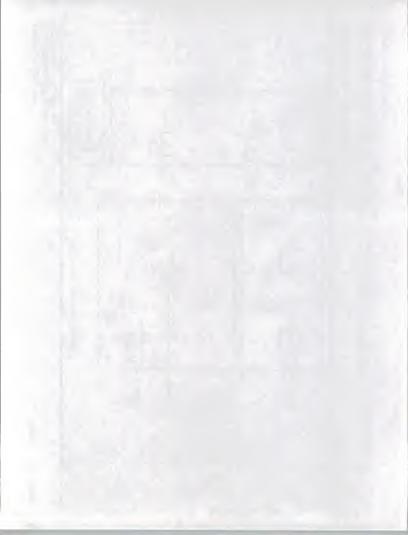
| | LISSATS | Contraction | Revealer Record |
|-------------------------|-------------|-------------|--|
| | Contraction | | The state is a state of the sta |
| July 22, 1992 COPYRIGHT | L | | THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY |



INTEGRATED FINANCIAL SERVICES

APPROACH TO ARCHITECTURE





INTEGRATED FINANCIAL SERVICES

APPROACH TO ARCHITECTURE



 HIGH LEVEL OF REUTILIZATION OF SOFTWARE COMPONENTS (70-80%)

SOFTWARE NOT CIRCUMSTANTIAL IN DESIGN

- STABLE
- ADAPTABLE

SEPARATION OF SYSTEM FUNCTIONS FROM USER INTERFACE

TESTING SIMPLIFIED:

- FOCUSED IN UNIT FUNCTION TESTING
- INTEGRATION ONLY CONSISTS OF TESTING LINKS

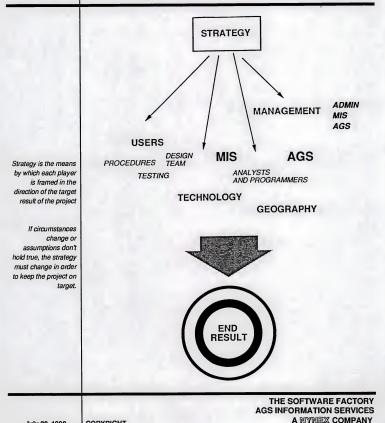
THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

PROJECT MANAGEMENT



July 22, 1992



INTEGRATED FINANCIAL SERVICES

PROJECT MANAGEMENT

PRINCIPLES OF PROJECT MANAGEMENT STRATEGY

CHANGE STRATEGY TO REMAIN ON TARGET

DEFENSE

NEVER GO BACK AND REDO

CONTINUALLY IMPROVE PRODUCTIVITY

TARGET

INCREASE IN \$ ----- MORE SOFTWARE

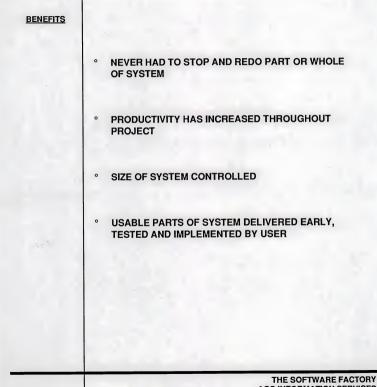
THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

PROJECT MANAGEMENT



AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



INTEGRATED FINANCIAL SERVICES

DELIVERED SYSTEM

SIZE

- FIRST VERSION 3500 FUNCTION POINTS
 ONE NEW PRODUCT NON-FUND
- SECOND VERSION 5500 FUNCTION POINTS
 NON-FUNDS
- THIRD VERSION 8000 FUNCTION POINTS
 - FUNDS

QUALITY

DEFECT REMOVAL RATE > 97%

PRODUCTIVITY

- SECOND VERSION 11.7 FP/PM (INCLUDING V.1)
- ° THIRD VERSION 20 FP/PM

PERTINENCE

- ^o USER DEVELOPED ALL PROCEDURES ON HIS OWN
- NO BUSINESS PROCESS FOUND THAT SYSTEM WOULD NOT DO

PERFORMANCE

 BATCH RUN TIMES IMPROVED WITHOUT DISRUPTING ARCHITECTURE

> THE SOFTWARE FACTORY AGS INFORMATION SERVICES A NYNEX COMPANY

July 22, 1992



Charles N. Gregory Senior Vice President Atkinson, Tremblay & Associates Inc. (ATA)

PROFILE

Charles Gregory is a Senior Vice President of ATA in Montreal and is responsible for the operations of the Montreal Consulting Unit and the ATA Software Factory.

Charles joined ATA in August 1983 as Vice President, Montreal Consulting Unit, and during the next five years increased business to over \$5 million in annual revenues. ATA offers a full range of information systems services, including strategic planning, systems development and implementation of advanced methodologies and tools.

In 1898, as Senior Vice President of Marketing, he was responsible for the launching of the ATA Software Factory. The mission of the Factory is to undertake the development of custom business software systems.

Prior to joining ATA, Charles worked for sixteen years for IBM Canada. When he left IBM, his position was that of Branch Manager, Montreal Banking and Transport. Prior to that he held a variety of positions in marketing management, marketing, business practices and systems engineering.

He was awarded a Bachelor of Science, Honors degree in Physics from the University of Bristol and a Diploma of Education from the University of Oxford. He started his career in education, working in France and England prior to emigrating to Canada in 1965.

Charles is an active amateur musician playing the violin and viola in orchestras and chamber music groups. He is a member of the Board of Directors of the Montreal International Music Competition.

Charles and his wife, Suzanne, live in Westmount, Quebec with their two daughters, Anne-Marie and Valerie, who both attend the Villa Ste. Marcelline school.



