

# BlueStar Server 2012 Overview

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# Agenda

- ◆ Cedar Software – the company
- ◆ BlueStar Server
- ◆ Configuration Overview
- ◆ Demonstration
- ◆ Questions/Next Steps

# Our Business

- ◆ Total Business Integration (TBI)
  - ◆ Streamline our customer's processes
  - ◆ Create value from existing critical systems through our Patented technology, the BlueStar Platform Integrate Business Processes with BPM
- ◆ Est. 2002-on 100%+ annual growth

# BlueStar Server 2012

**Easily orchestrate business processes within and between organizations**

- ◆ **Process automation**

Comprehensive solution for orchestrating business processes from the Enterprise to the Internet through integrate with BPEL , Workflow or any BPM tools (TIBCO, BizTalk, BEA)

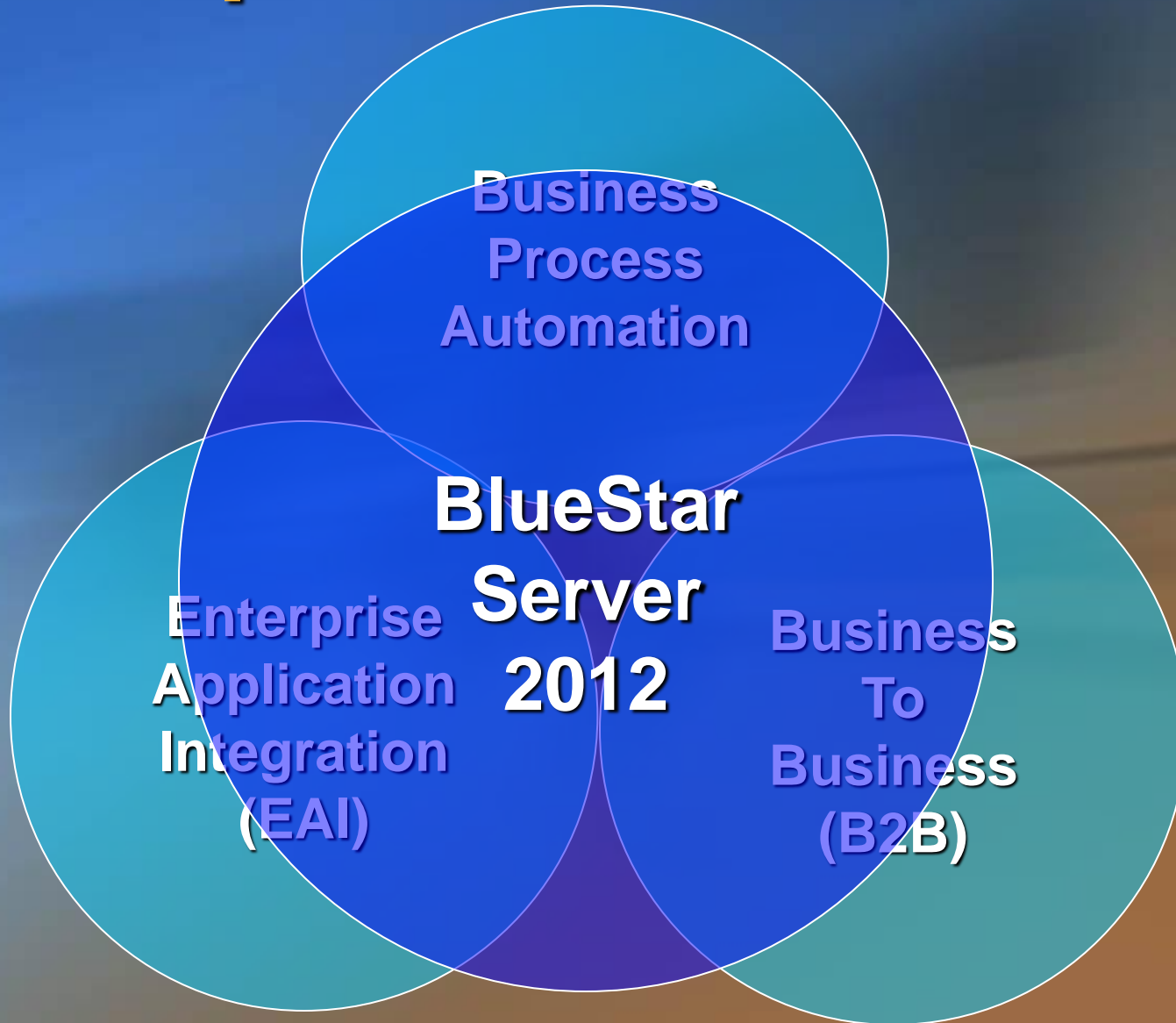
- ◆ **B2B**

Quickly implement secure, reliable trading partner relationships over the Internet

- ◆ **EAI**

Leverages XML to ease enterprise application integration, enable host transactions as Web Services code-free

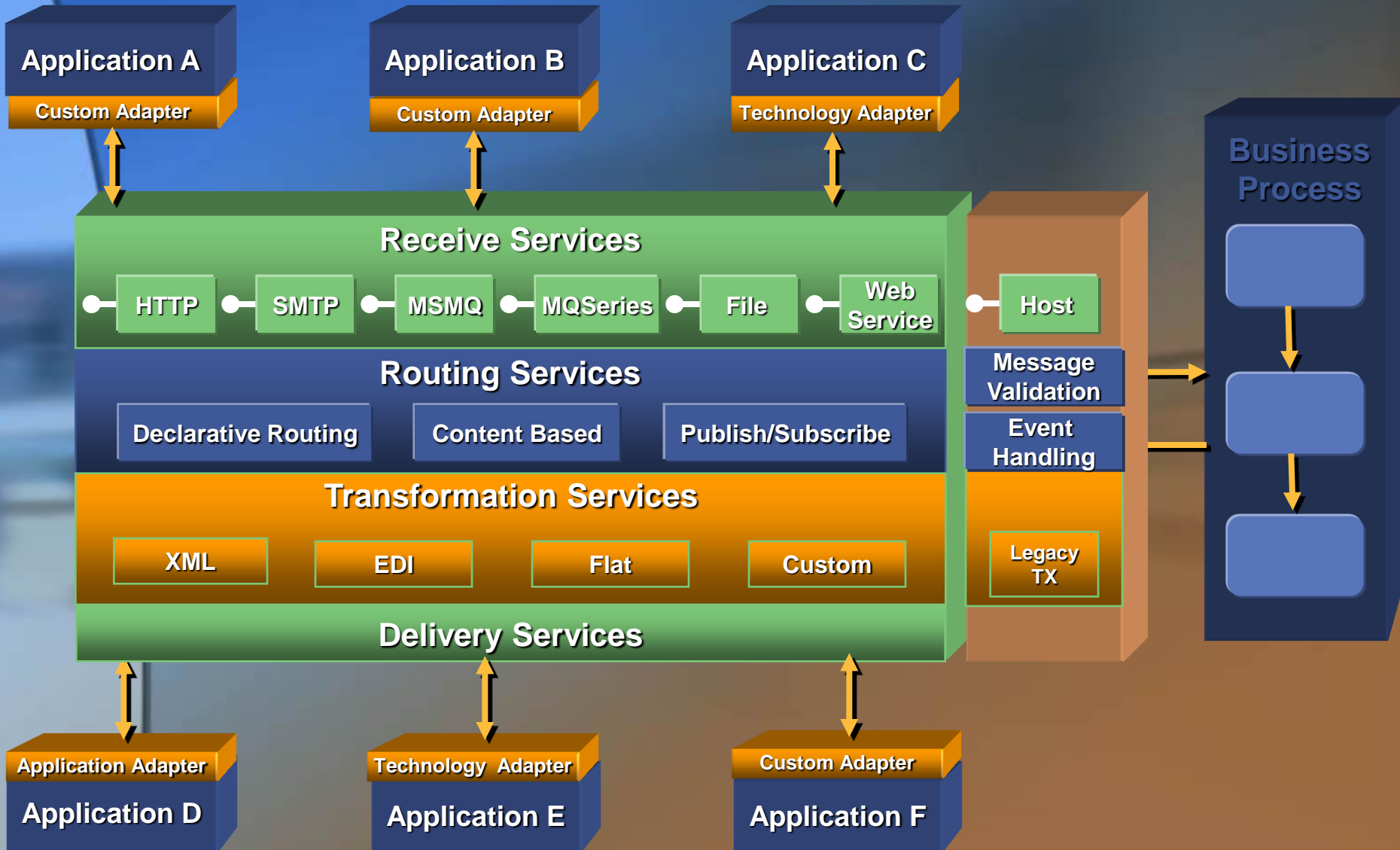
# Comprehensive Offering



# BlueStar Core Services

- ◆ **BlueStar Communication Service**
  - ❖ Legacy protocol support
  - ❖ Host, Terminal, DB, LDAP adapters
  - ❖ WCF
- ◆ **BlueStar Transformation Service**
  - ❖ Xml, Text
  - ❖ Legacy data format (COBOL ...)
  - ❖ Custom codepage, ETL (DL1, VSAM...)
- ◆ **BlueStar Workflow Service**
  - ❖ BizTalk, BPEL, WF
- ◆ **BlueStar Form Service**
  - ❖ Code-free asp.net form builder

# BlueStar Architecture



# BlueStar Key Features

- ◆ Implemented by C/C++ and support both .NET and Java
- ◆ Parameter driven (SQL)
- ◆ XML enabling
- ◆ Role based security
- ◆ “engines” do the work.
  - ❖ BPM for complex long duration workflow.
  - ❖ Compensating operations.
- ◆ Scripting philosophy (VBScript, JavaScript)
- ◆ Completely auditable
- ◆ OOAD - 100% .NET & EJB component technology
- ◆ Session management

# BlueStar Key Features

- ◆ **Multilanguage support**
- ◆ **Data mapping between flat-file and XML**
- ◆ **Dynamic load-balancing**
- ◆ **Automatic recovery**
- ◆ **Transport neutral**
- ◆ **Support synchronous, asynchronous and transactional connections**
- ◆ **Automatic code page conversion**
- ◆ **Windows 2003 & .NET Framework Certified**
- ◆ **J2EE Framework (support jboss-3.2.5, WebLogic 8.1 & Websphere 5.0)**

# Key Features – Standards-Based support

## ◆ File format

- ❖ XML and XML Schema
- ❖ Flat file
- ❖ Binary

## ◆ Security

- ❖ DES/3-DES, RSA, OCSP, PKCS#7 and W3C DSIG (Smart Card, HSM)

# Key Features – Standards-Based support

- ◆ Protocol support
  - ❖ File, FTP, SMTP, POP3
  - ❖ HTTP, HTTPS, Web Services
  - ❖ SNA LUA(LU0/LU2), APPC/LU6.2, AS/400 Data Queue
  - ❖ TCP/IP socket
  - ❖ MSMQ
  - ❖ MQSeries
  - ❖ DCOM
  - ❖ X.25

# Key Features – Standards-Based support

## ◆ Codec

- ❖ Unicode (UTF8, UTF16)
- ❖ ASCII/BIG5
- ❖ IBM EBCDIC
- ❖ Unisys mainframe Traditional Chinese
- ❖ CNS11643
- ❖ ...any custom code page support, direct mapping any codepage to Unicode

# Comprehensive Toolset

## ■ Development

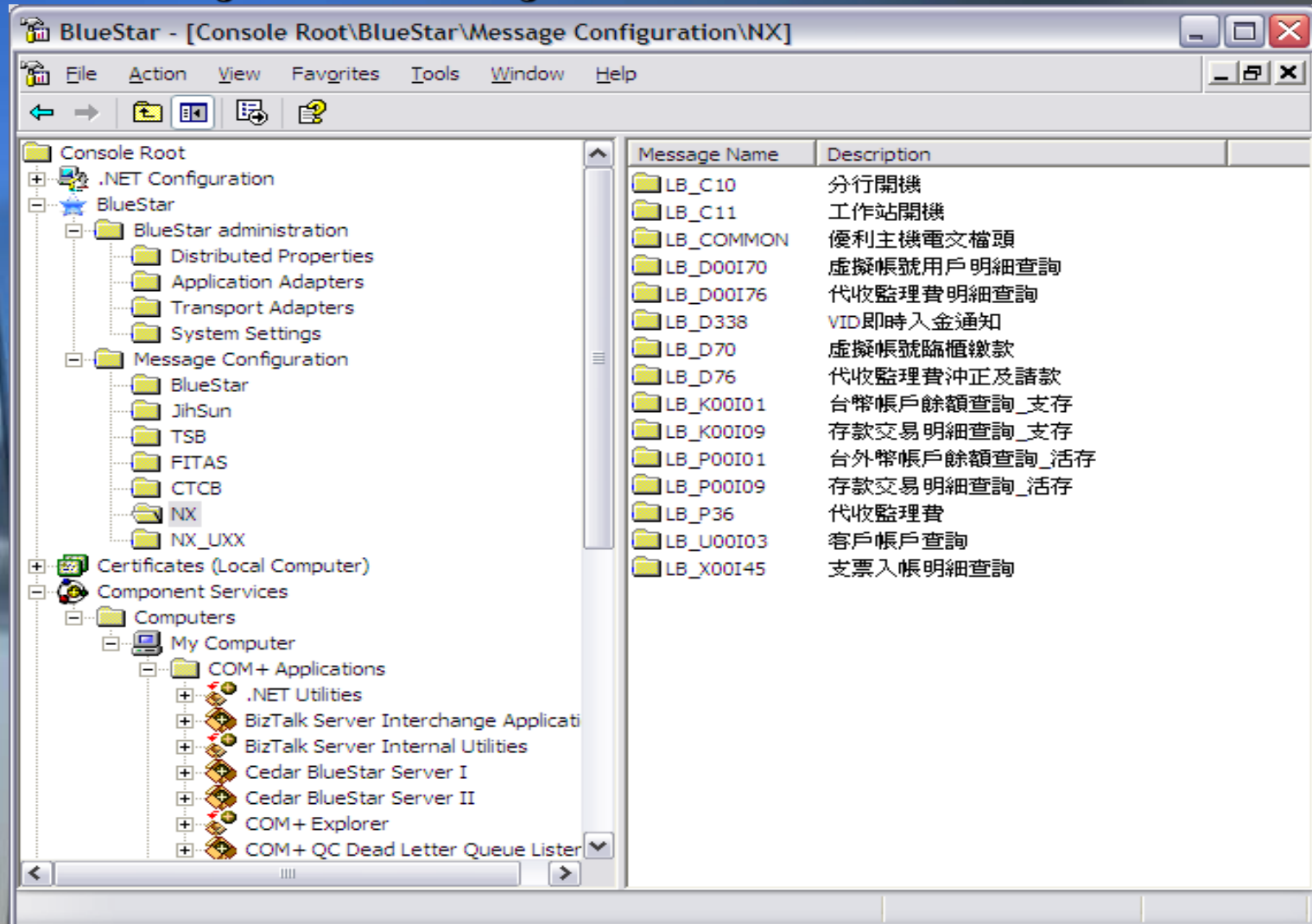
- BlueStar Message Manager
- Codecutility
- BlueStar Designer (C#, Java, XSLT, BPEL)
- Workflow
- Form Builder

## ■ Manage the System

- BlueStar Console
- BlueStar LogViewer
- BlueStar TraceTool
- BlueStar Alert

# BlueStar Message Mgr

- ◆ BlueStar Admin Console
  - ❖ Using Microsoft Management Console



BlueStar - [Console Root\BlueStar\Message Configuration\NX]

File Action View Favorites Tools Window Help

Console Root

- .NET Configuration
- BlueStar
  - BlueStar administration
    - Distributed Properties
    - Application Adapters
    - Transport Adapters
    - System Settings
  - Message Configuration
    - BlueStar
    - JihSun
    - TSB
    - FITAS
    - CTCB
    - NX
    - NX\_UXX
- Certificates (Local Computer)
- Component Services
  - Computers
    - My Computer
      - COM+ Applications
        - .NET Utilities
        - BizTalk Server Interchange Applicati
        - BizTalk Server Internal Utilities
        - Cedar BlueStar Server I
        - Cedar BlueStar Server II
        - COM+ Explorer
        - COM+ QC Dead Letter Queue Lister

Message Name	Description
LB_C10	分行開機
LB_C11	工作站開機
LB_COMMON	便利主機電文檔頭
LB_D00I70	虛擬帳號用戶明細查詢
LB_D00I76	代收監理費明細查詢
LB_D338	VID即時入金通知
LB_D70	虛擬帳號臨櫃繳款
LB_D76	代收監理費沖正及請款
LB_K00I01	台幣帳戶餘額查詢_支存
LB_K00I09	存款交易明細查詢_支存
LB_P00I01	台外幣帳戶餘額查詢_活存
LB_P00I09	存款交易明細查詢_活存
LB_P36	代收監理費
LB_U00I03	客戶帳戶查詢
LB_X00I45	支票入帳明細查詢

# BlueStar Console

- ◆ BlueStar Admin Console
  - ❖ Easy configuration for host transaction definition

The screenshot displays the BlueStar Admin Console interface. The main window is titled "BlueStar - [Console Root\BlueStar\Message Configuration\NX]". In the foreground, the "ZBLIBL11 Properties" dialog box is open, showing the configuration for a message named "ZBLIBL11".

**ZBLIBL11 Properties**

Message configuration

Group Name: CTCB

Message Name: ZBLIBL11

Description: 支存餘額查詢

Type: HEX-EBCDIC

Header: FNS\_HEADER

Transport:  PROGID POOLAPPC.HOSTAPPC  Receive Multiple

Auto Response

Request Message Definition:

```
1: Name=COM_BAL_ID:Len=11:Type=X:Del=40
2: Name=COM_ACT_NO:Len=16:Type=X:Del=4
3: Name=COM_BEGIN_DATE:Len=8:Type=X:Del=
4: Name=COM_END_DATE:Len=8:Type=X:Del=
5: Name=COM_QUE_TYPE:Len=1:Type=X:Del=
```

Receive Message Definition:

```
1: Name=S_MSG_CODE:Len=4:Type=X:Del=1
2: Name=S_MSG_TXO:Len=16:Type=X:Del=1
3: Name=<INDICATOR:Len=1:Type=X:Del=1:N
4: Name=S_ID:Len=11:Type=X:Del=1
5: Name=</S_NAME:Len=42:Type=X:Del=1:Rej
6: Name=S_TX_NO:Len=16:Type=X:Del=1
7: Name=S_ACT_N
```

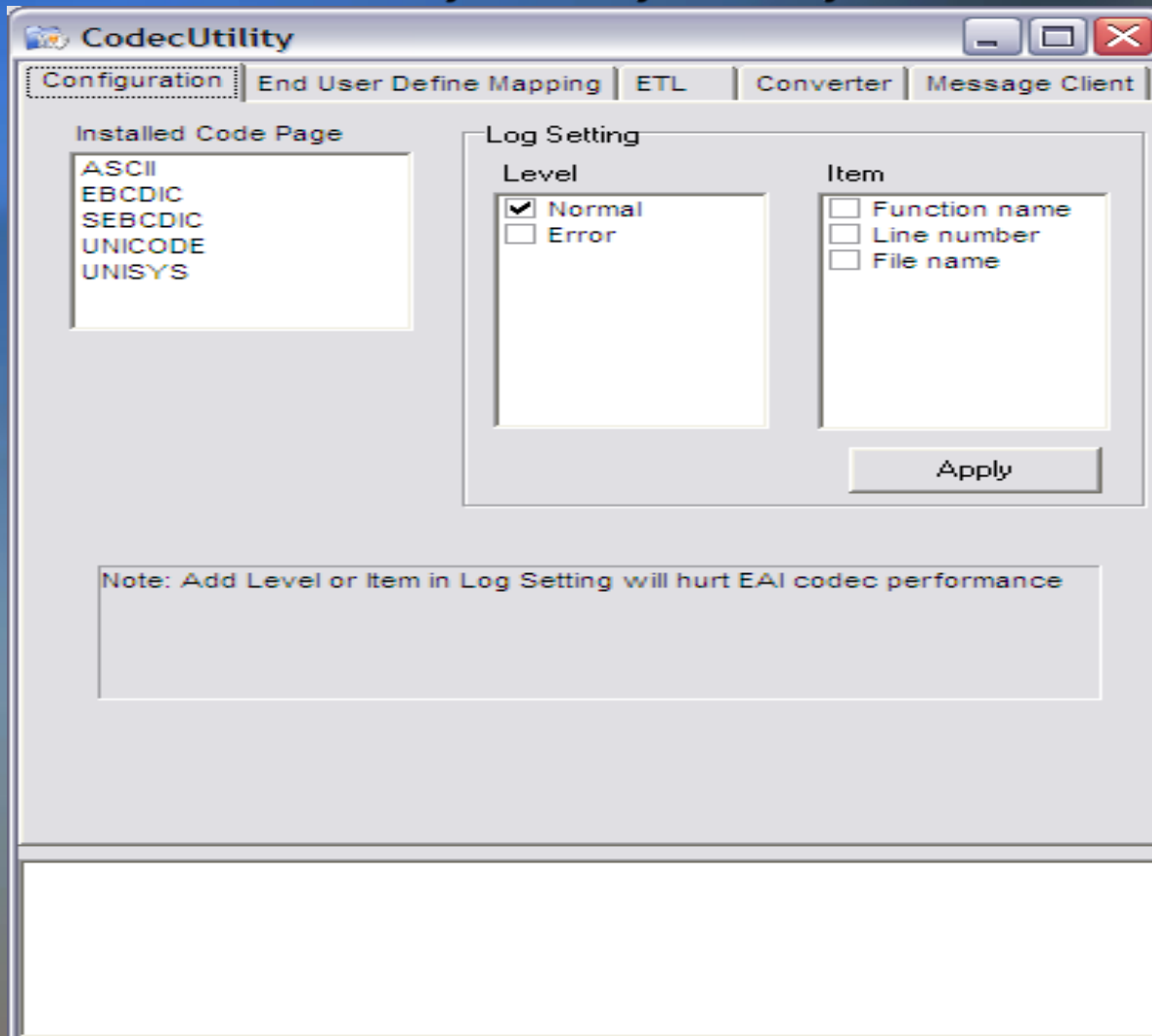
Buttons: Insert, Edit, Delete (for both definitions), OK, Cancel, Apply

The background window shows a tree view of message configurations:

Message Name	Description
LB_C10	分行開機
LB_C11	工作站開機
LB_COMMON	便利主機電文檔頭
LB_D00170	虛擬帳號用戶明細查詢
LB_D00176	代收監理費明細查詢
LB_D338	VID即時入金通知
LB_D70	虛擬帳號臨櫃繳款
LB_D76	代收監理費沖正及請款
LB_K00101	台幣帳戶餘額查詢_支存
LB_K00109	存款交易明細查詢_支存
LB_P00101	台幣帳戶餘額查詢_活存
LB_P00109	存款交易明細查詢_活存
LB_P36	代收監理費
LB_U00103	客戶帳戶查詢
LB_X00145	支票入帳明細查詢

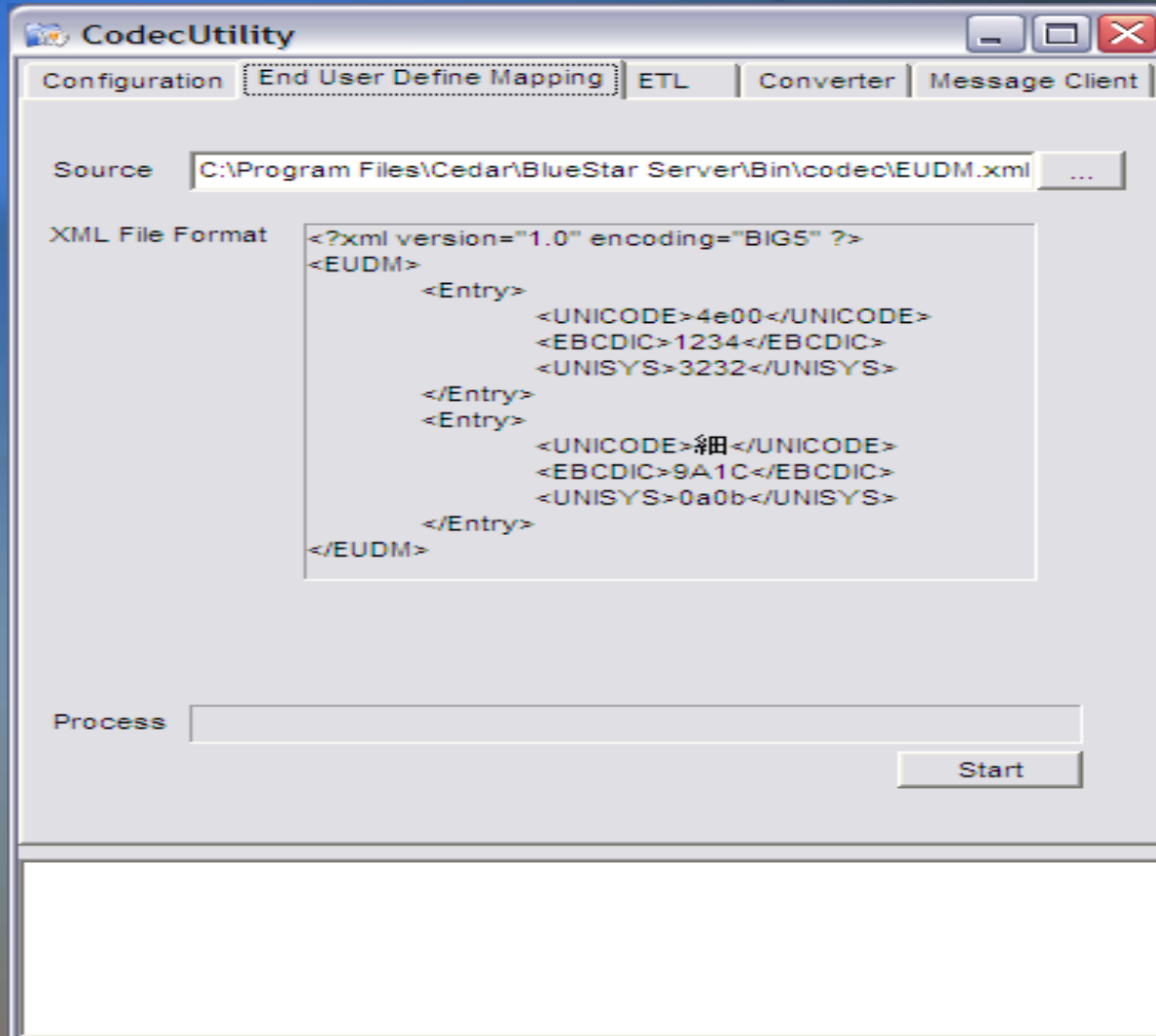
# Codec Manager

- ◆ BlueStar Codec Manager
  - ❖ Customer can add any codec dynamically



# End User Define Mapping

- ◆ BlueStar Codec Manager
  - ❖ Provide user define character mapping



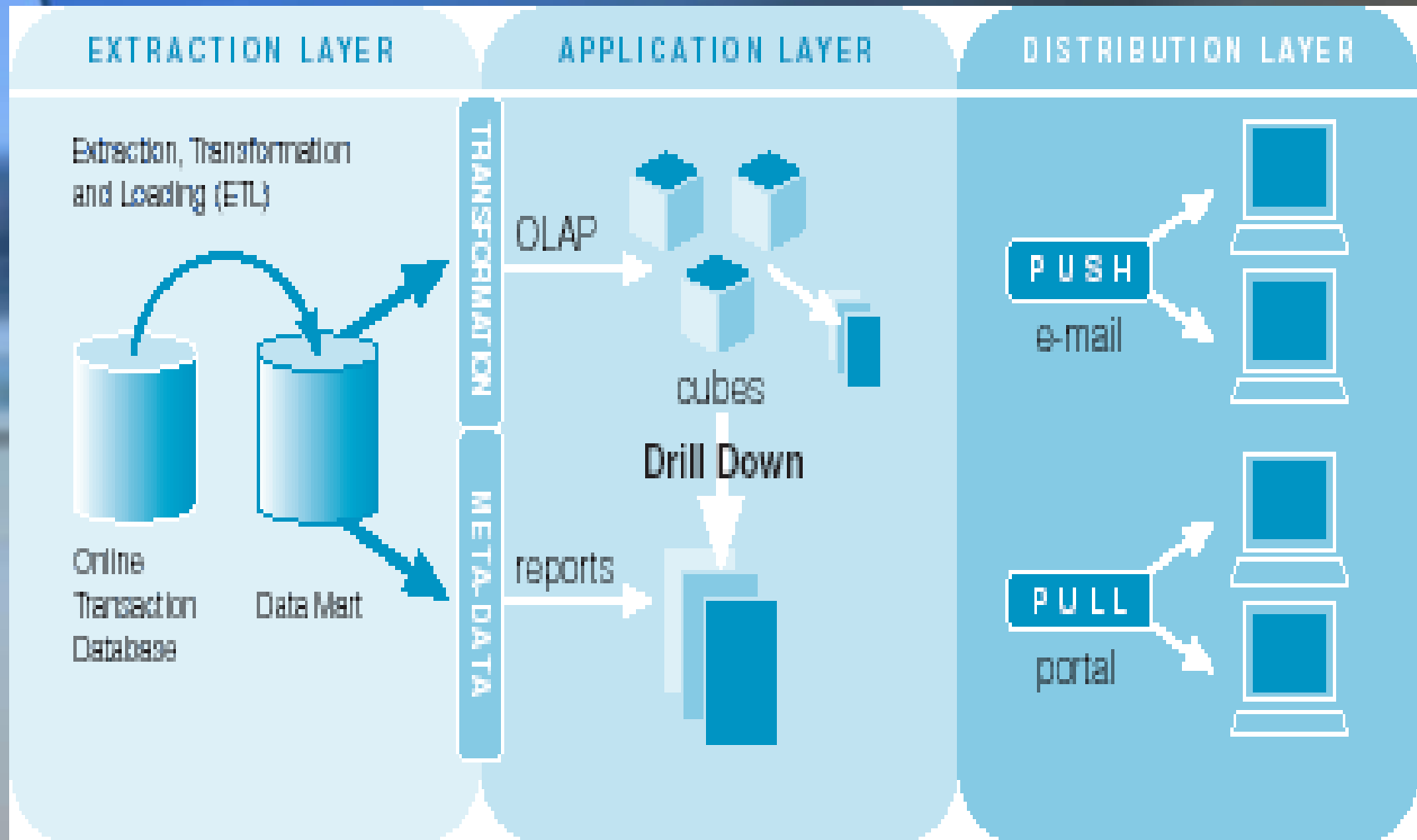
# Codepage Conversion

- ◆ BlueStar Codec Manager
  - ❖ Mapping legacy codepage to Unicode directly

The screenshot shows the 'CodecUtility' application window with the following configuration:

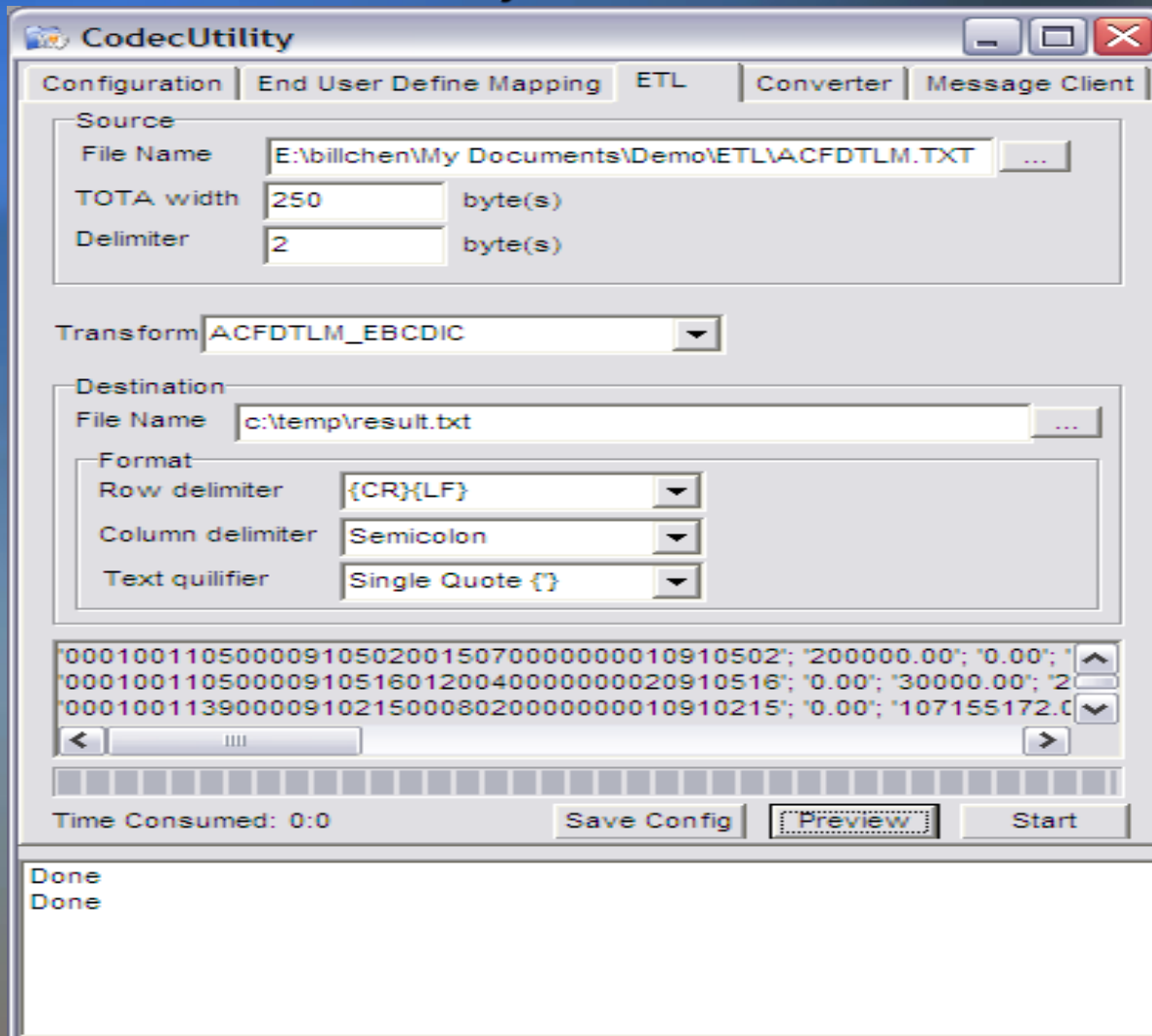
- Configuration:** End User Define Mapping | ETL | Converter | Message Client
- Transform:**
  - Direction:  Encode,  Decode
  - Code Page: EBCDIC
- Source:**
  - Format:  String,  Hex
  - Data: 0e1234f
- Destination:**
  - String: —
  - Hex: 004E
- Convert:** [Convert]
- Output:** Done  
Done

# BlueStar Business Intelligence

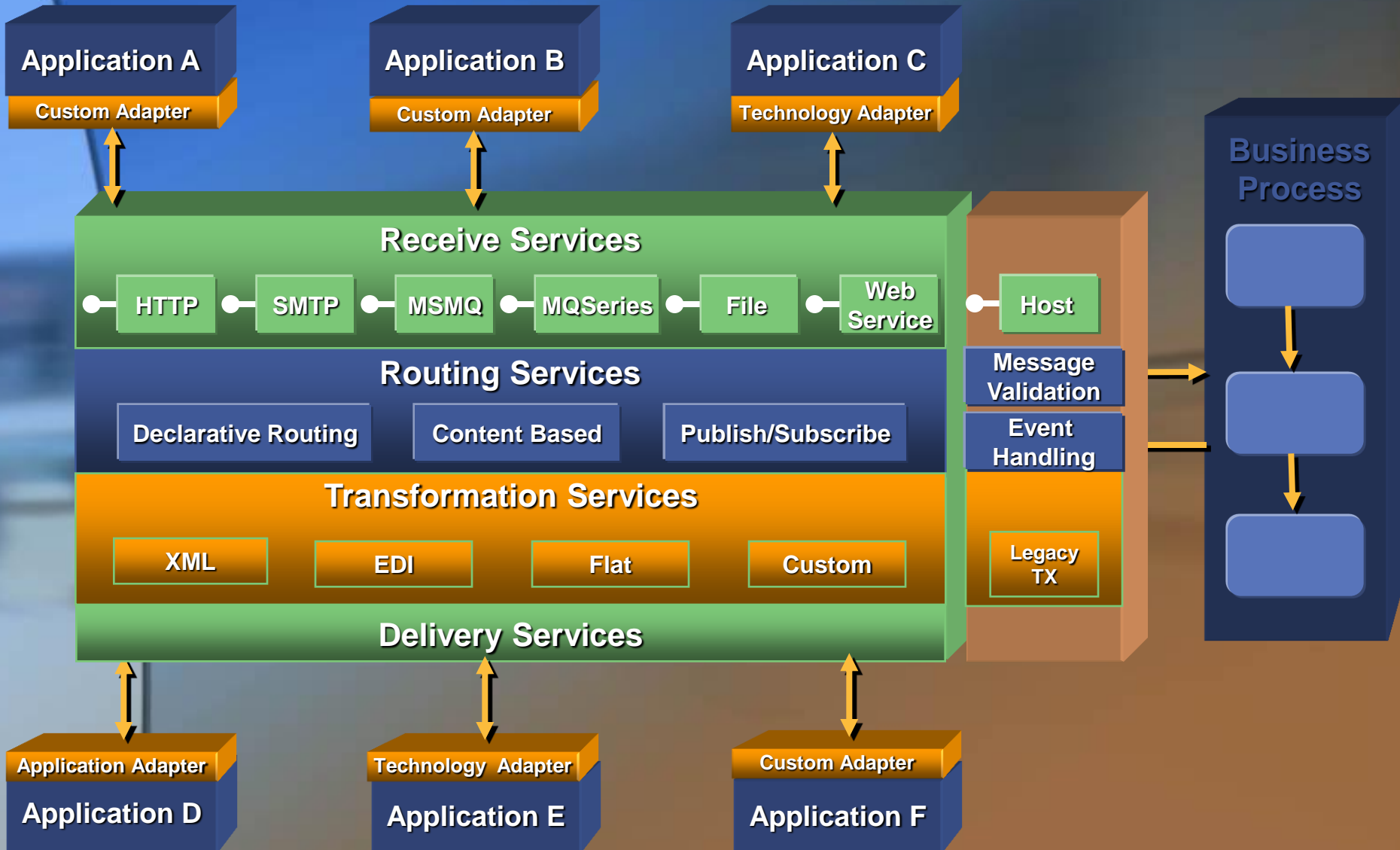


# ETL

- ◆ BlueStar ETL
  - ❖ Provide ETL functionality

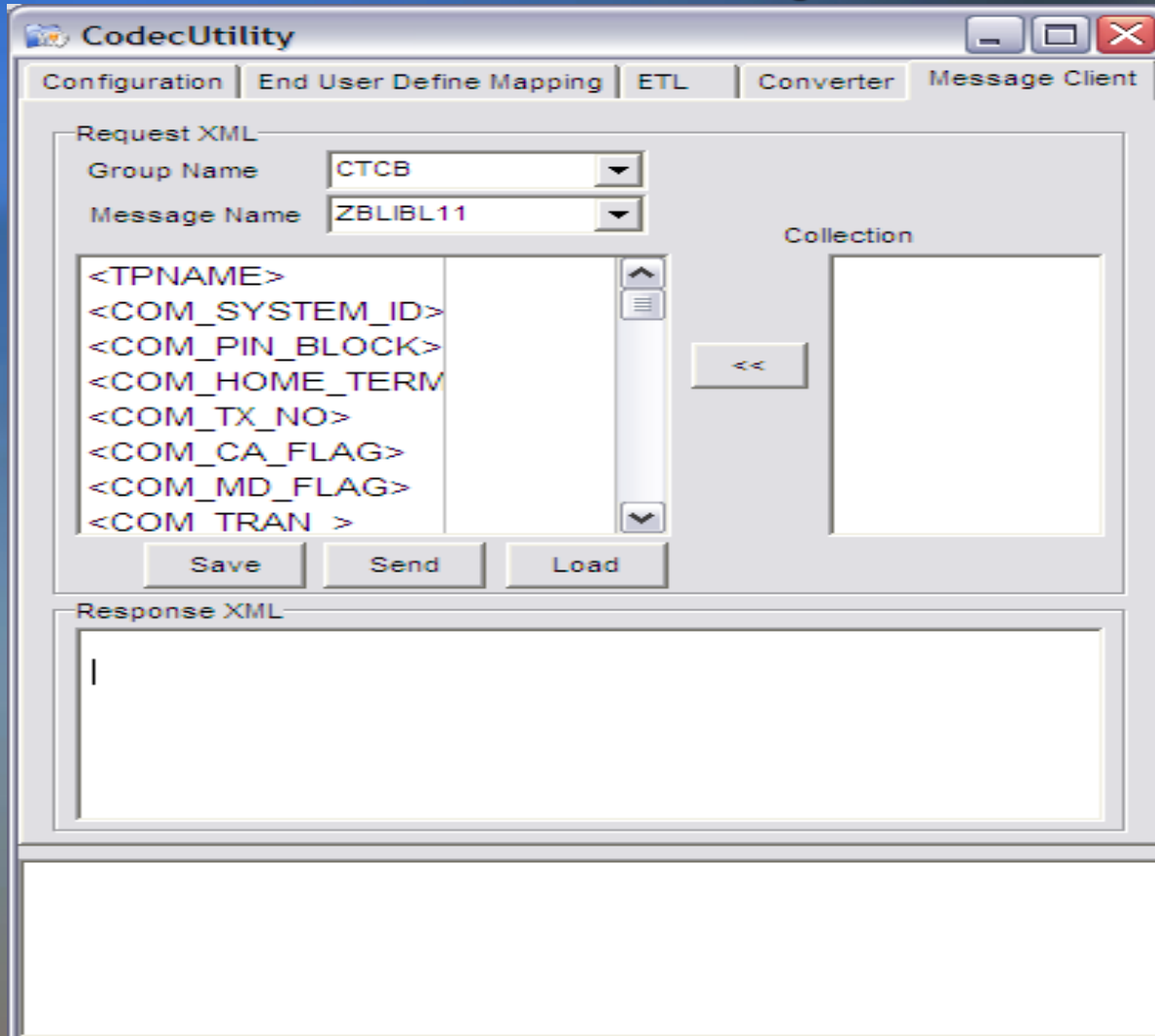


# BlueStar EAI



# BlueStar Tool

- ◆ BlueStar Utility
  - ❖ Provide tool for host transaction testing

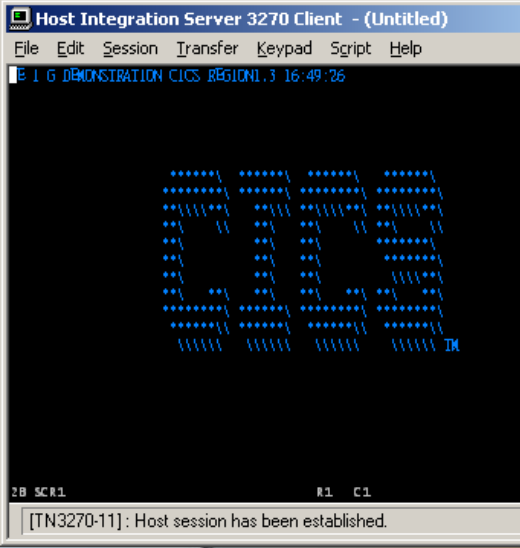
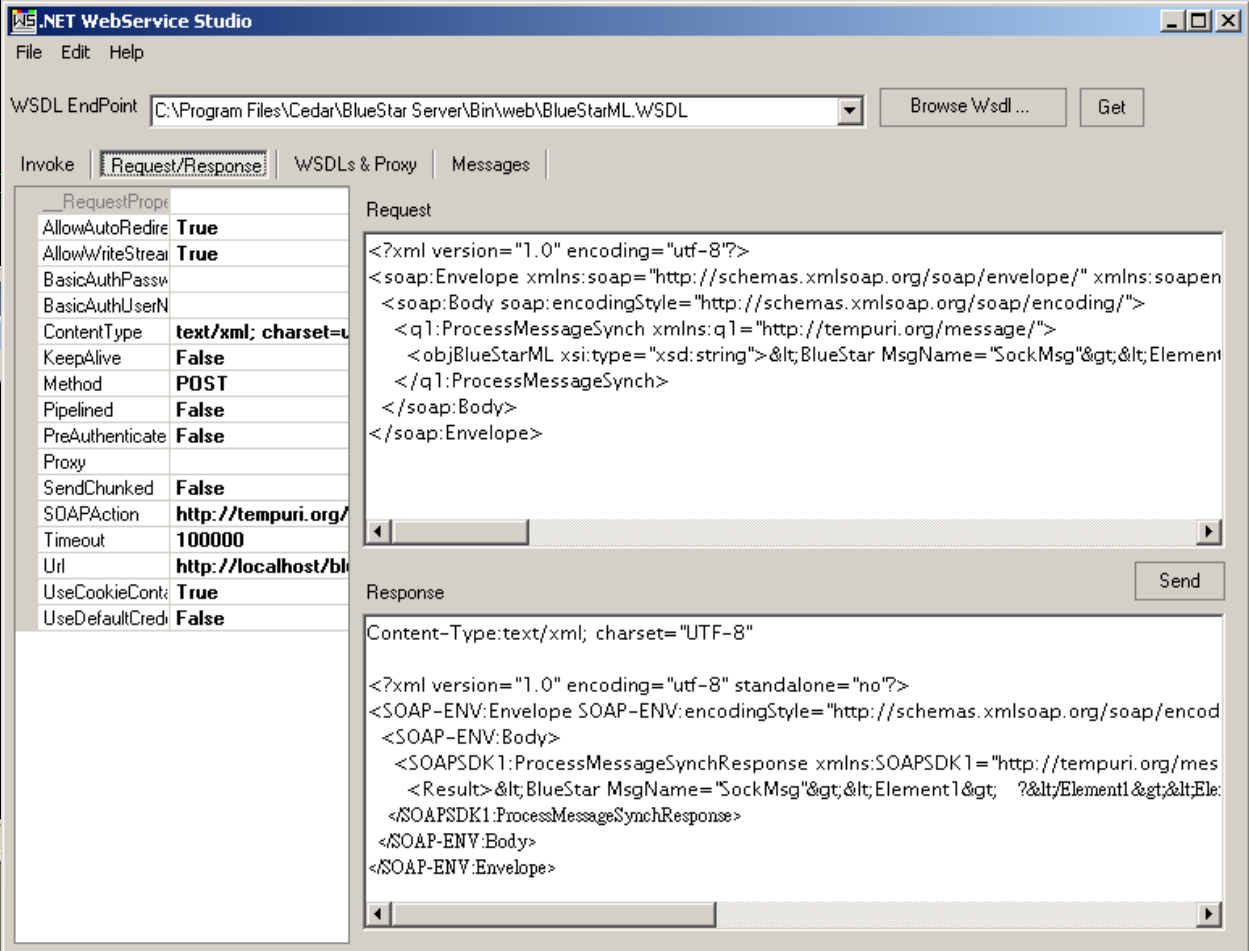
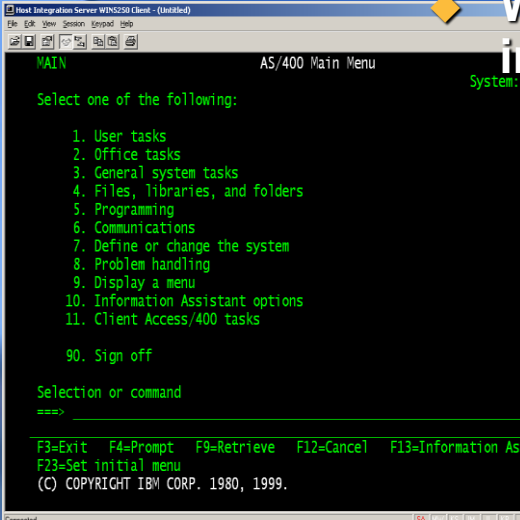
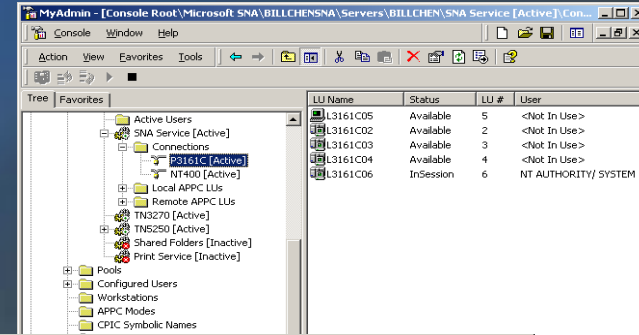




# Web Services

◆ Web Services for application integration

◆ Using BlueStar to enable host transactions as Web Services code-free.



# BlueStar Workflow

- ◆ Web Services for application integration
  - ❖ Using BlueStar workflow

The screenshot displays the Microsoft Visual Studio environment with a workflow diagram for 'TP370 Workflow'. The diagram is a Sequential Workflow with the following steps:

- Start
- 執行扣帳交易 (Execute Billing Transaction)
- 是否發生系統錯誤 (Check for System Error)
- Decision: 如果發生系統錯誤 (If System Error Occurs) / 系統無錯誤 (System No Error)
- 如果發生系統錯誤: 退出系統錯誤例外 (Exit System Error Exception)
- 系統無錯誤: 解析TP370AXmlRs (Parse TP370AXmlRs)
- Decision: 主機是否回應交易成功 (Check if Host Transaction Successful)
- 主機是否回應交易成功 (Yes): 扣帳交易失敗重傳回傳... (Billing Transaction Failed, Retransmit...)
- 扣帳交易失敗重傳回傳...: 將扣帳回傳重入回傳結果 (Re-submit Billing Return Results)
- 主機是否回應交易成功 (No): 交易成功繼續入帳交易 (Transaction Successful, Continue Billing)
- 交易成功繼續入帳交易: 執行入帳交易 (Execute Billing Transaction)
- End

The Solution Explorer on the right shows the project structure for 'TP370 Workflow', including files like AssemblyInfo.cs, Settings.settings, app.config, TP370.xml, TP370.rules, and TP370.xoml.cs. The Properties window shows the activity name 'TP370' and its base class 'System.Workflow.Activities.SequentialW'.

# Business Process Execution Language (BPEL4WS)

- ◆ Web Services for application integration
  - ◆ Using BlueStar Web Services to integrate with any BPEL execution server.

The screenshot displays the Eclipse IDE interface for a BPEL project named 'CallBS'. The Package Explorer on the left shows the project structure with files: CallBS.bpel, CallBS.bpelex, CallBS.wsdl, CallBSArtifacts.wsdl, deploy.xml, and MsgHandler.wsdl. The main editor shows a BPEL process diagram for 'Process CallBS'. The process starts with a 'main' activity, followed by a 'receiveInput' activity, an 'Assign' activity, an 'Invoke' activity, another 'Assign' activity (labeled 'Assign1'), and finally a 'replyOutput' activity. The Properties view at the bottom shows the following details for the selected process:

Property	Value
Info	
derived	false
editable	true
last modified	2008年5月17日 上午 11:11:06
linked	false
location	C:\Program Files\Apache Software Foundation\Tomcat 6.0\webapps\ode\WEB-INF\process
name	CallBS.bpel
path	\CallBS\CallBS.bpel
...	...

# BlueStar Console

- ◆ BlueStar Admin Console

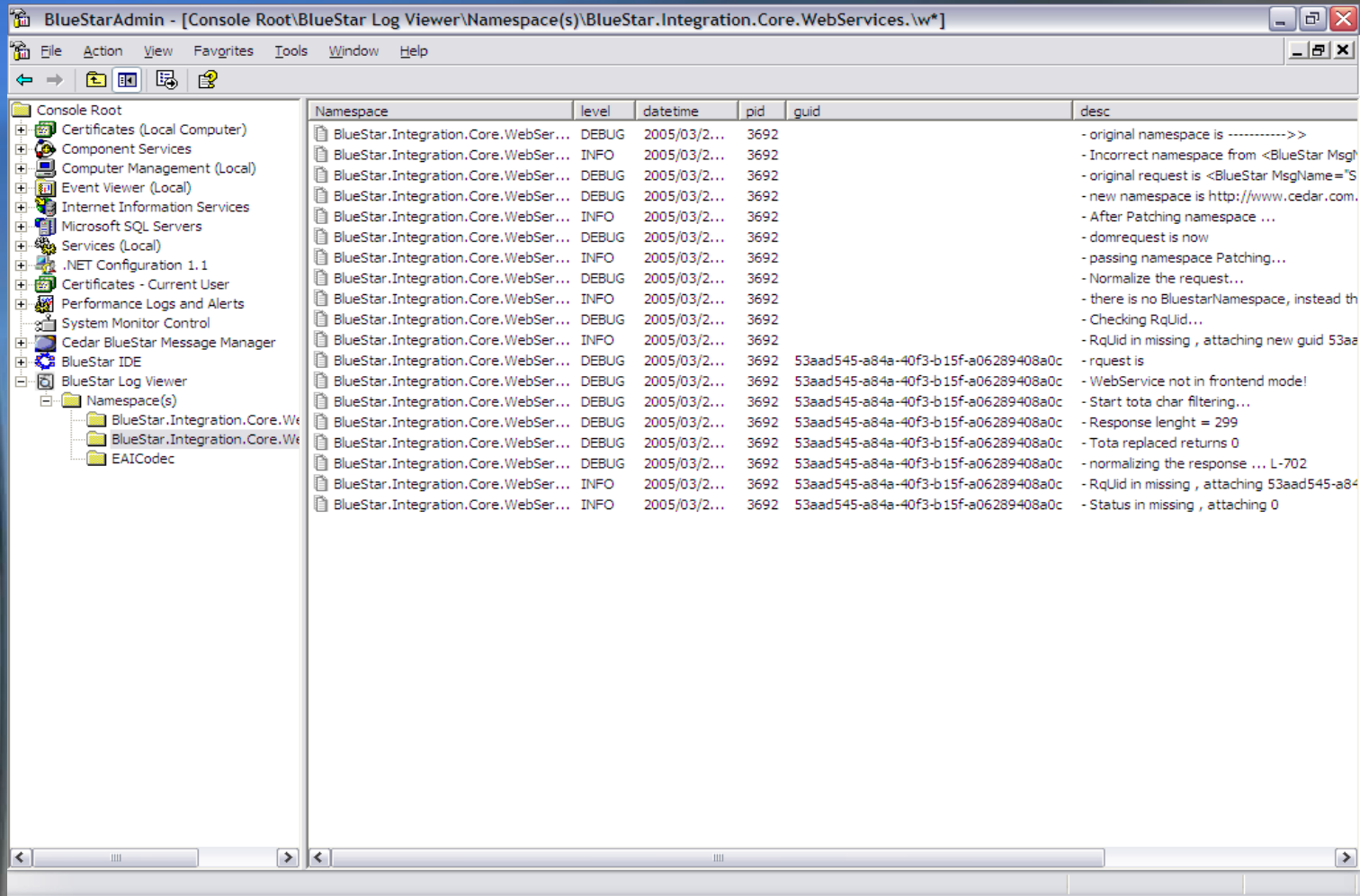
- ❖ Monitor/shutdown/recycle the BlueStar adapters or components

The screenshot shows the BlueStarAdmin console interface. The left pane displays a tree view of the console structure, including Certificates (Local Computer), Component Services, and My Computer. Under My Computer, the COM+ Applications folder is expanded, showing various BlueStar servers and components. The right pane displays a table of active objects, with columns for Prog ID, Objects, Activated, Pooled, In Call, and Call Time (ms).

Prog ID	Objects	Activated	Pooled	In Call	Call Time (ms)
BAADevNull, DevNull					
BSAddOn, Util. 1					
BSDLogger, Logger 1					
BTFMAILC, XMLMail. 1					
CharsetConverter, Convert. 1					
CharsetConverter, Unisys. 1					
DispatchMsg, Select					
EAICodec, TGCodec	0	0		0	0
EAIInfo, Codec. 1					
EAIInfo, TypeCodec. 1					
eAIParser, TGParser					
FXMLMessage, Signature					
FXMLMessage, Validate					
FXMLServer, ProcessMessage					
HostFTP, MyFTP					
HTTPAdaptor, HTTPSend					
MailAdaptor, POP3Receive					
MailAdaptor, SMTPSend					
MC_SimSvc, BlueStarML					
MsgHandler, MCMsgHandler	0	0		0	0
MSMQAdaptor, MSMQSend					
NameSpace, NameData					
NameSpace, Params					
NameSpace, Server					

# BlueStar Log Viewer

- ◆ BlueStar LogViewer
  - ❖ Provide tool for log analysis (support log4j)



The screenshot shows the BlueStar Log Viewer application window. The title bar reads "BlueStarAdmin - [Console Root\BlueStar Log Viewer\Namespace(s)\BlueStar.Integration.Core.WebServices.lw\*]". The interface includes a menu bar (File, Action, View, Favorites, Tools, Window, Help) and a toolbar. On the left is a tree view showing the system's console root and various services, with "BlueStar Log Viewer" expanded to show "Namespace(s)". The main area displays a table of log entries.

Namespace	level	datetime	pid	guid	desc
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- original namespace is ----->>
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692		- Incorrect namespace from <BlueStar MsgH
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- original request is <BlueStar MsgName="S
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- new namespace is http://www.cedar.com.
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692		- After Patching namespace ...
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- domrequest is now
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692		- passing namespace Patching...
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- Normalize the request...
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692		- there is no BluestarNamespace, instead th
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692		- Checking RqUid...
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692		- RqUid in missing , attaching new guid 53aa
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- rquest is
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- WebService not in frontend mode!
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- Start tota char filtering...
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- Response lenght = 299
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- Tota replaced returns 0
BlueStar.Integration.Core.WebSer...	DEBUG	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- normalizing the response ... L-702
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- RqUid in missing , attaching 53aad545-a84
BlueStar.Integration.Core.WebSer...	INFO	2005/03/2...	3692	53aad545-a84a-40f3-b15f-a06289408a0c	- Status in missing , attaching 0



# BlueStar Alert

- ◆ BlueStar Alert

  - ❖ Monitor adapters/components status and set the alert action

The screenshot displays the BlueStarAdmin console interface. The main window shows a tree view on the left with 'BlueStar Alert' expanded to 'Alert(s)'. A table in the center lists alert configurations, with 'Test1' selected. The 'Test1 Properties' dialog box is open, showing the following configuration:

- Name: Test1
- Counter: Cedar BlueStar Server SCSB
- Application: Cedar BlueStar Server SCSB
- Progid: [Empty]
- Counter: TotalCalls
- Trigger Criteria: Alert when value is Over, Limit 5
- Take action: Alert.Recycle
- Sample data every: 2 second(s)

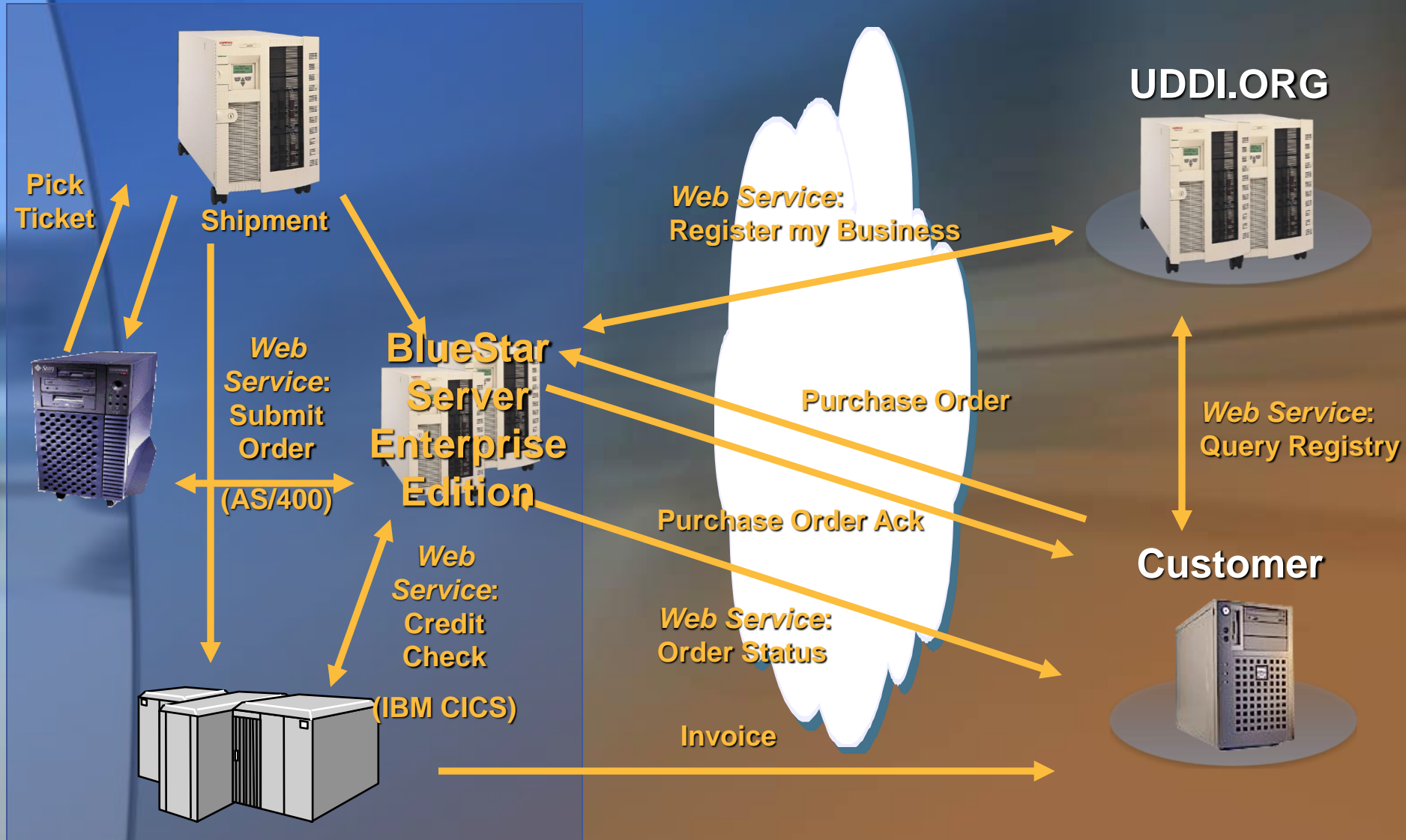
In the background, the 'BlueStar COM+ Viewer' window displays a performance table for various COM+ components:

ProgId	Bound	CallsCompleted	CallsFailed	InCall	Pooled	References	RespTime
COM+							
BlueStarAlertAction							
Alert.Recycle	0	0	0	0	-1	0	0
Cedar BlueStar Server .Net							
HostLU0.HostLU0.1	-1	-1	-1	-1	1	-1	-1
BlueStar.IIOP.Adapter	0	0	0	0	1	0	0
HostSocket.MySocket.1	-1	-1	-1	-1	-1	-1	-1
BlueStar.NET.loopback	-1	-1	-1	-1	-1	-1	-1
Cedar BlueStar Server I							
MsgHandler.MCMsgH...	0	0	0	0	-1	0	0
EAICodec.TGCodec	0	0	0	0	-1	0	0
System Application							
COMSVCS.TrackerSer...	4	16	0	0	-1	4	0
Catsrv.CatalogServer.1	1	342	0	0	-1	1	0
Pdump.ProcessDump.1	0	0	0	0	-1	0	0

The Windows taskbar at the bottom shows the Start button, taskbar icons for 'Inbox - Microsoft Out...', 'Microsoft PowerPoint ...', and 'BlueStarAdmin - [Con...]', along with system tray icons and the time '下午 07:55'.

# Orchestrating Business Interactions

Embracing web services while supporting existing systems



# Customers in Production

[http://www.cedar.com.tw/products/case\\_studies/](http://www.cedar.com.tw/products/case_studies/)

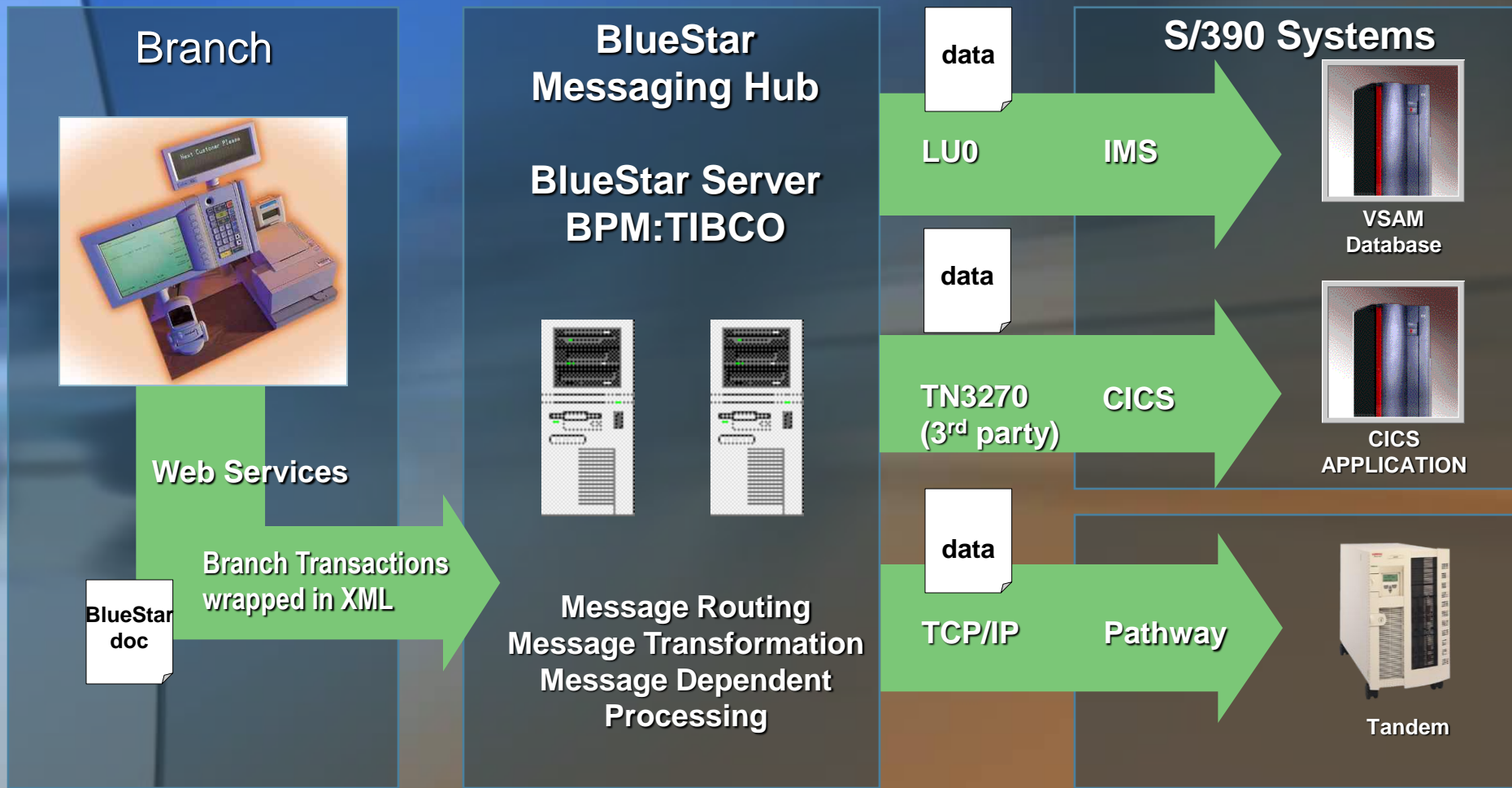
- ◆ 中國信託商業銀行
- ◆ 中國商銀
- ◆ 土地銀行
- ◆ 國泰世華銀行
- ◆ 華僑銀行
- ◆ 中信局
- ◆ 台灣銀行
- ◆ 彰化銀行
- ◆ 第一銀行
- ◆ 日盛金控
- ◆ 上海商業銀行
- ◆ 玉山銀行
- ◆ 合庫
- ◆ 中華電信
- ◆ 集保
- ◆ 郵局
- ◆ 花旗銀行
- ◆ 京城銀行

# 04 金融業 10大

◆ 70% of top 10 chose BlueStar Integration Server

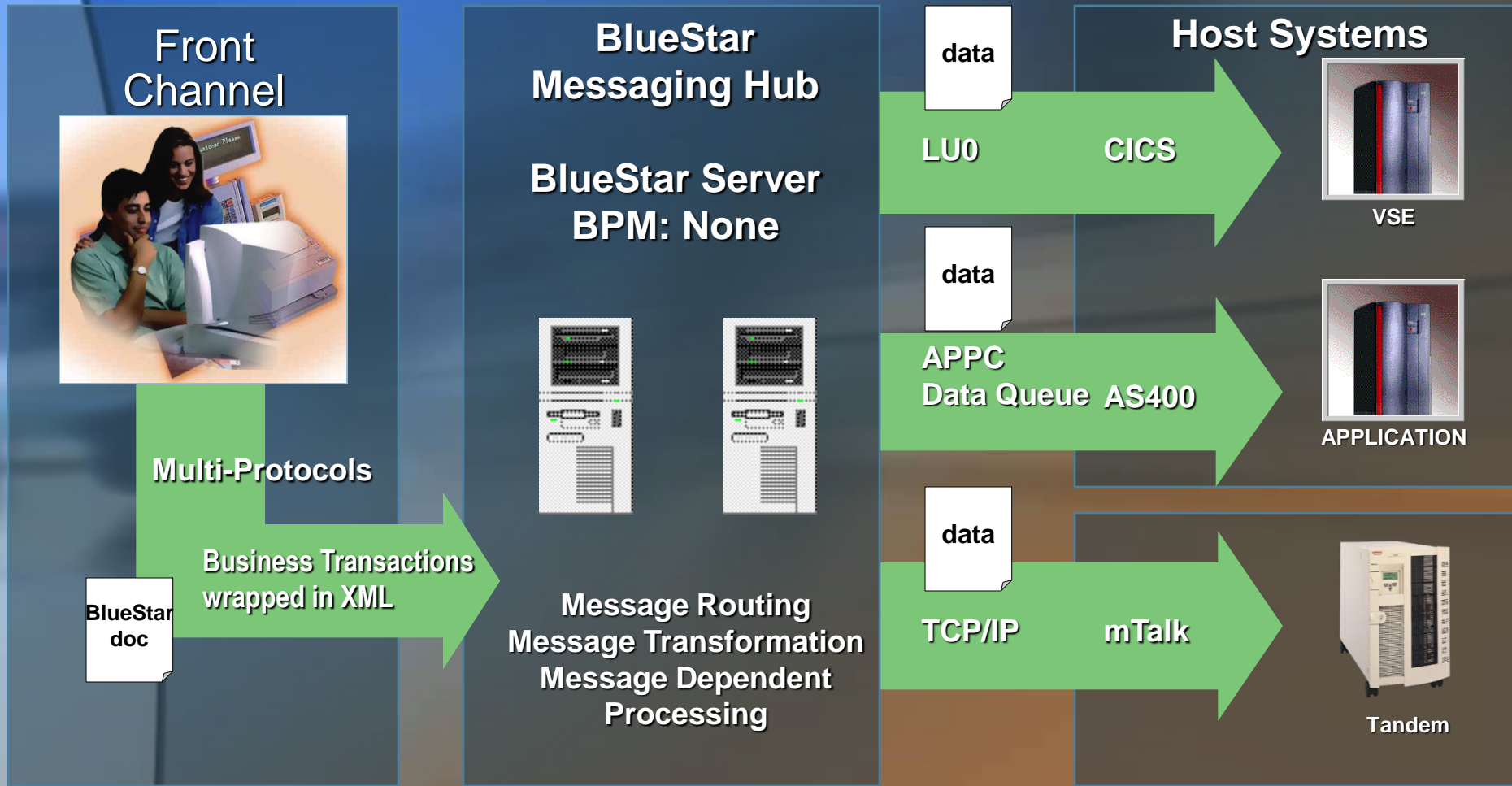
'04	公司名稱	資產總值	BlueStar
1	中華郵政	3,923B	√
2	國泰金融控股	2,650B	√
3	臺灣銀行	2,508B	√
4	兆豐金融控股	2,120B	√
5	合作金庫銀行	2,027B	√
6	台灣土地銀行	1,782B	√
7	華南金融控股	1,590B	
8	富邦金融控股	1,513B	
9	第一金融控股	1,502B	√
10	中國信託金融控股	1,428B	√

# EAI: 上海商業銀行 (SCSB)



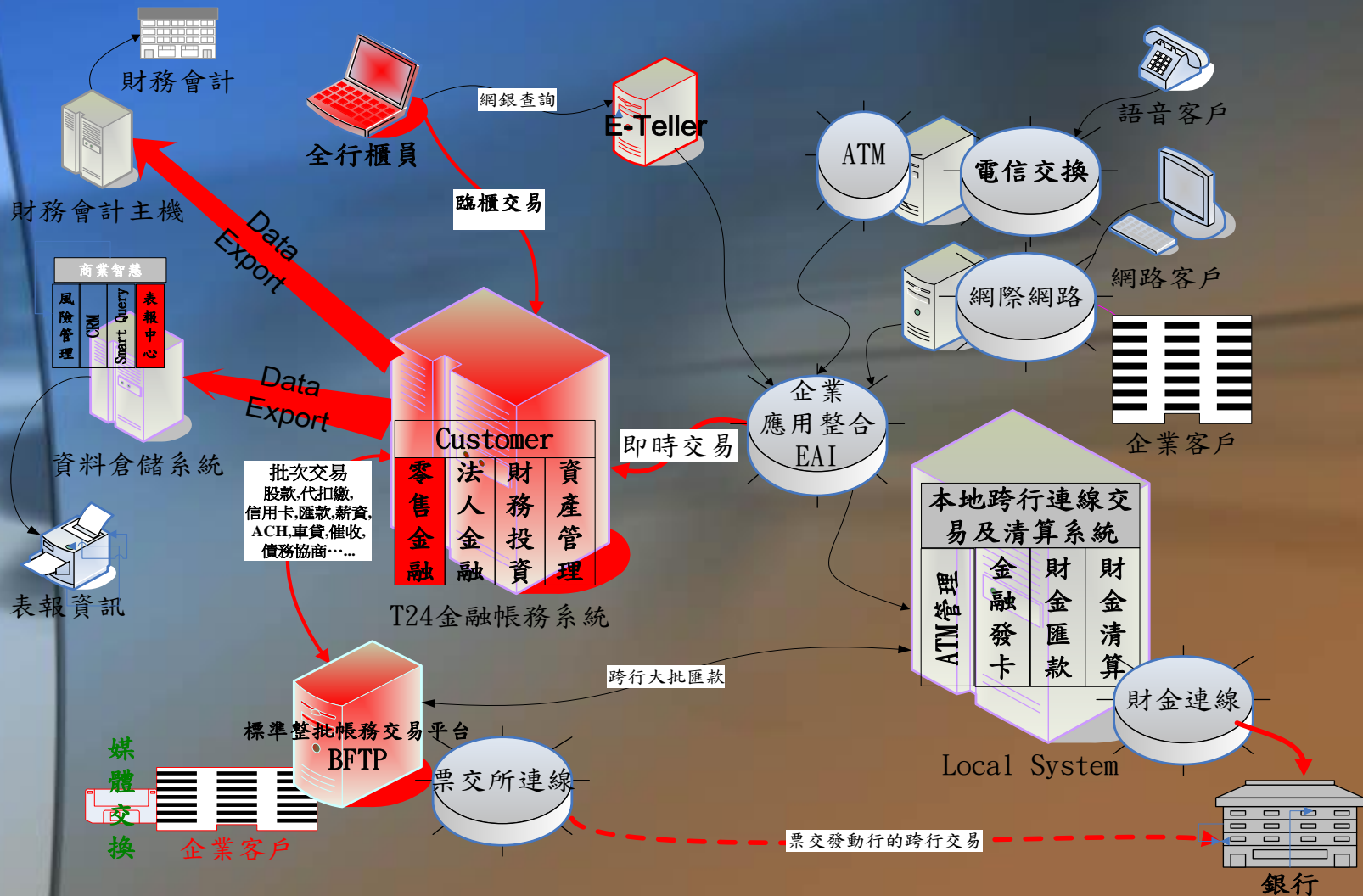
**Real-time integration for Branch transactions**

# EAI: 日盛金控 (Jihsun)



**Real-time integration for multi-channels**

# CBS 系統架構概覽



# Case Study: Jihsun FHC

- ◆ **Profile:** The Jihsun FHC request to implement an EAI framework to integrate all back-end legacy application and front-end channels across all sub companies.
- ◆ **Business Situation:** To help company/IT department maximize their software investments and more efficiently use staff and faculty time .
  - ❖ **TBI (Total Business Integration) :** Cost-effectively integrate applications within and between organizations
    - ❖ **EAI**
      - ◆ Lower the cost of internal application integration
    - ❖ **B2B**
      - ◆ Quickly implement secure, reliable trading partner relationships over the Internet
    - ❖ **Business Process Automation**
      - ◆ Define and implement integrated business processes using EAI and B2B services

# Case Study: Jihsun FHC

- ◆ **Solution:** To integrate product information, services and automated transaction applications based on the Orchestration/Web services.
- ◆ **Outcomes:**
  - ❖ Real-Time access & message for all applications
  - ❖ Scaled server from host system to all channels
  - ❖ Reduced the amount of application/product development
  - ❖ Improved customer services
  - ❖ Reduced data/transaction validation efforts
  - ❖ Reduced latency in delivery of services
  - ❖ Enabled 'self-service'
  - ❖ Avoid change/modification of legacy application whatever terminal based or message based

**Thank you**