



**UNIVERSITÉ DU
MAINFRAME**

Tivoli Enterprise Portal

François Lèbe

francois.lebe@fr.ibm.com





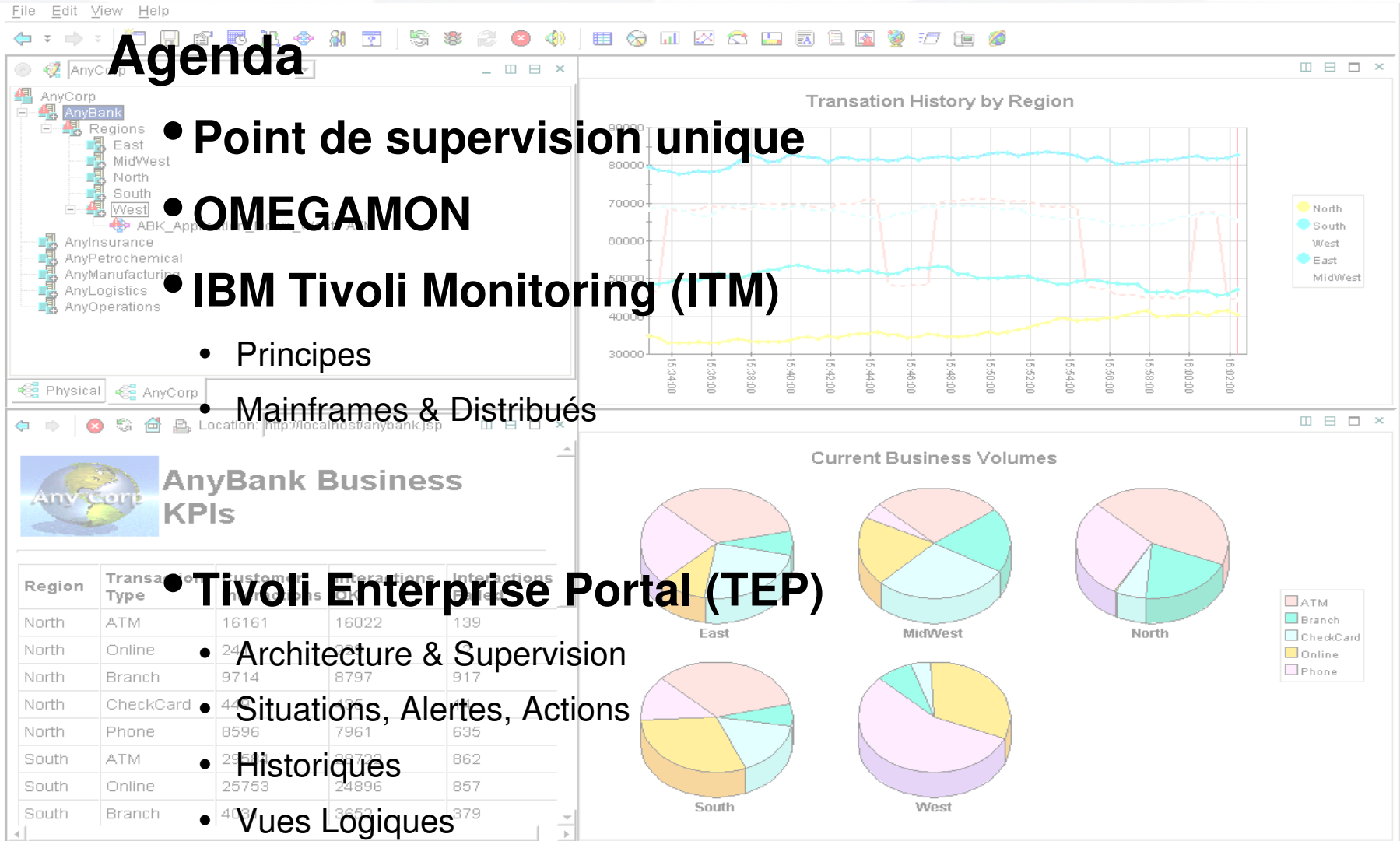
Point de Supervision Unique : ITM/TEP

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Agenda

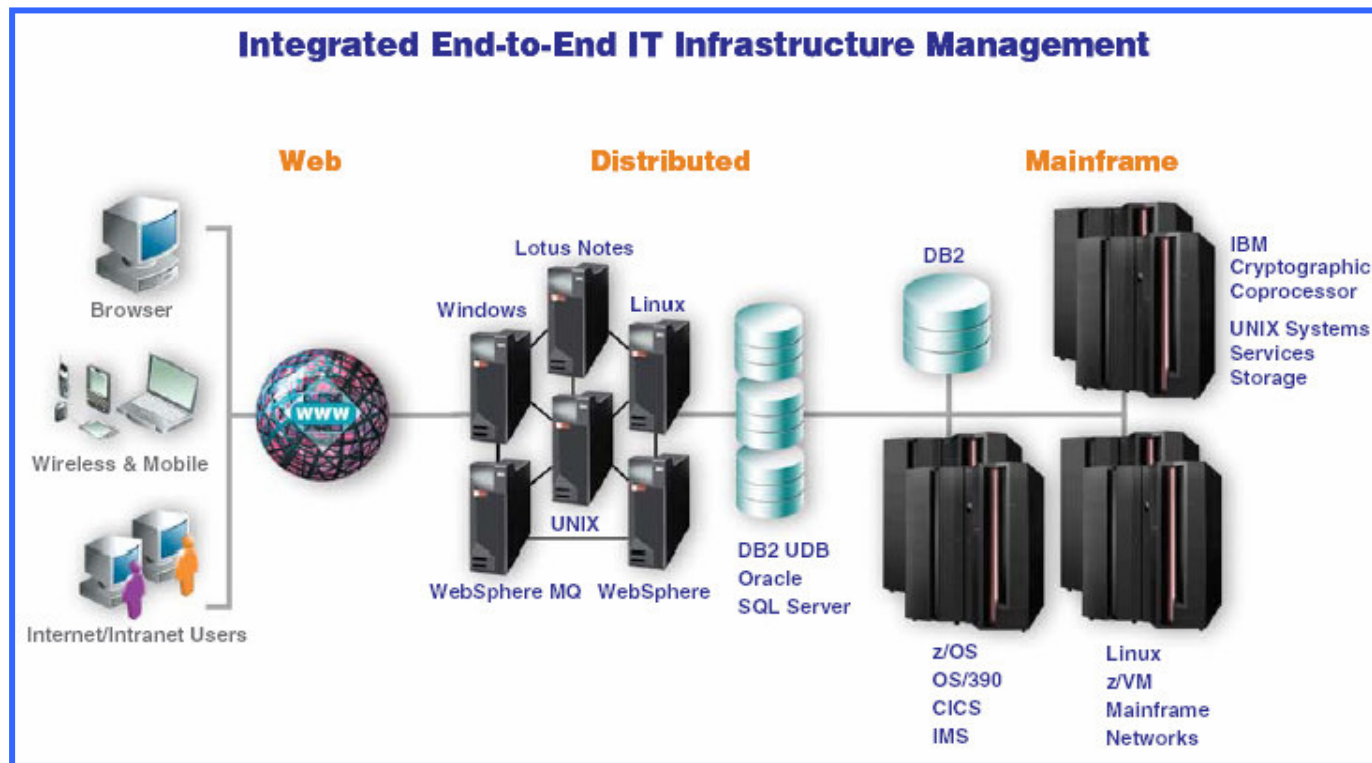
- Point de supervision unique
- OMEGAMON
- IBM Tivoli Monitoring (ITM)
 - Principes
 - Mainframes & Distribués

- Tivoli Enterprise Portal (TEP)
 - Architecture & Supervision
 - Situations, Alertes, Actions
 - Historiques
 - Vues Logiques



Gérer le "nouveau" Mainframe

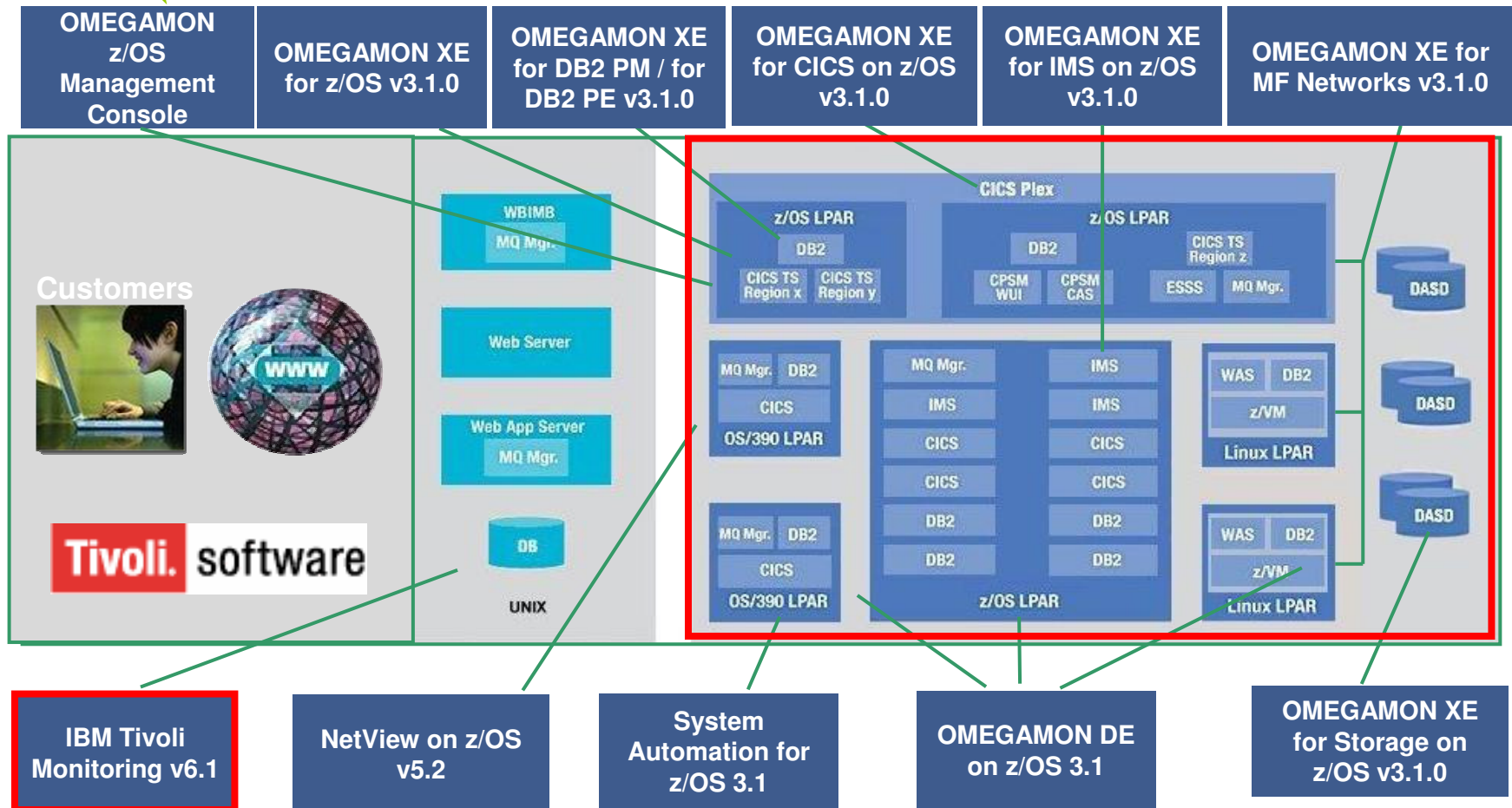
Contrôler la performance des Applications Composées



Mainframe & Distribu 

Supervision Mainframe Omegamon

Gratuit



IBM Tivoli Monitoring v6.1

NetView on z/OS v5.2

System Automation for z/OS 3.1

OMEGAMON DE on z/OS 3.1

OMEGAMON XE for Storage on z/OS v3.1.0

Supervision Globale IBM Tivoli Monitoring (ITM & TEP)

ITM Distributed Monitoring

ITCAM

OMEGAMON XE for zSeries

Region	Transaction Type	Customer Interactions	Interactions OK	Interactions Failed
North	ATM	16161	16022	139
North	Online	241	229	12
North	Branch	9714	8797	917
North	CheckCard	449	435	14
North	Phone	8596	7961	635
South	ATM	29584	28722	862
South	Online	25753	24896	857
South	Branch	4031	3652	379

Launch in Context

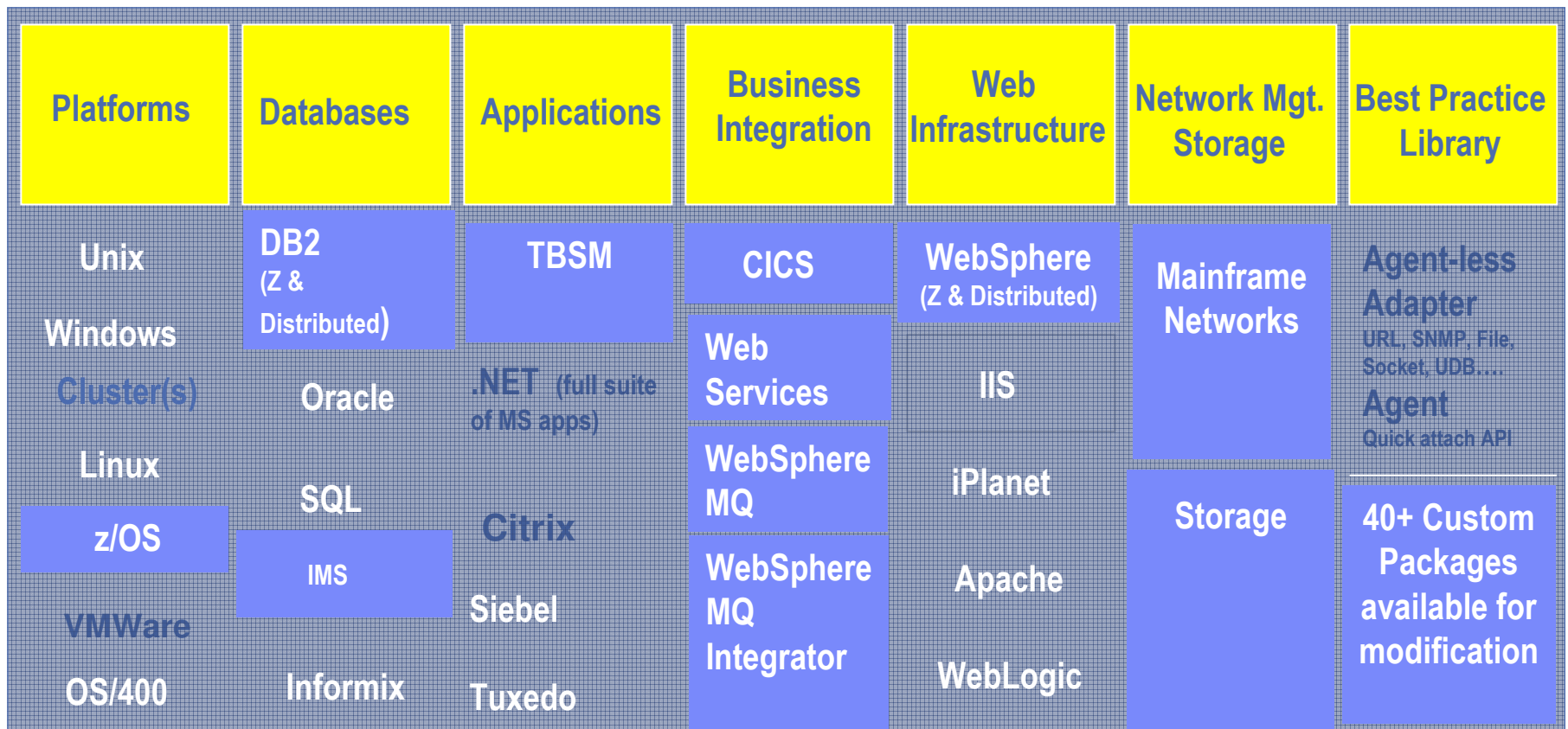
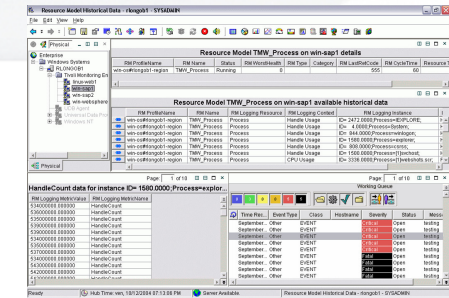
Tivoli Enterprise Portal



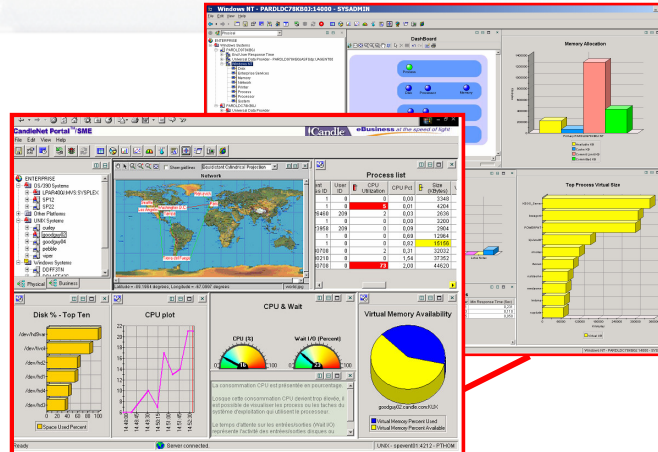
Supervision Globale ITM & TEP



- Point focal unique (ITM)
- Portail unique (TEP)
- zSeries, Distribués, Réseaux



Consoles TEP



Tivoli Enterprise Portal

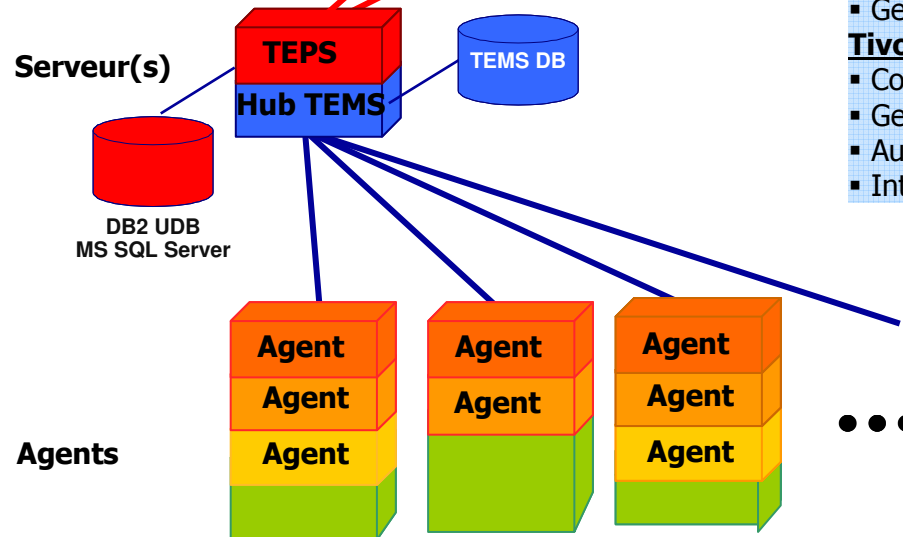
- Accès par navigateur (IE) ou client léger
- Présentation physique et logique
- Historiques
- Une seule console

Tivoli Enterprise Portal Server

- Portail d'accès
- Gestion de la présentation (Java)

Tivoli Enterprise Management Server(s)

- Concentrateur(s) Hub & Remote
- Gestion et distribution des règles d'alertes
- Automatisations transverses
- Intégrations avec des produits tiers



Tivoli Enterprise Management Agents

- Agents intelligents autonomes
- Chaque agent gère un domaine spécifique (OS, SGBD, Network, MOM ...)
- Collectes & alertes
- Disponibilité & Performances

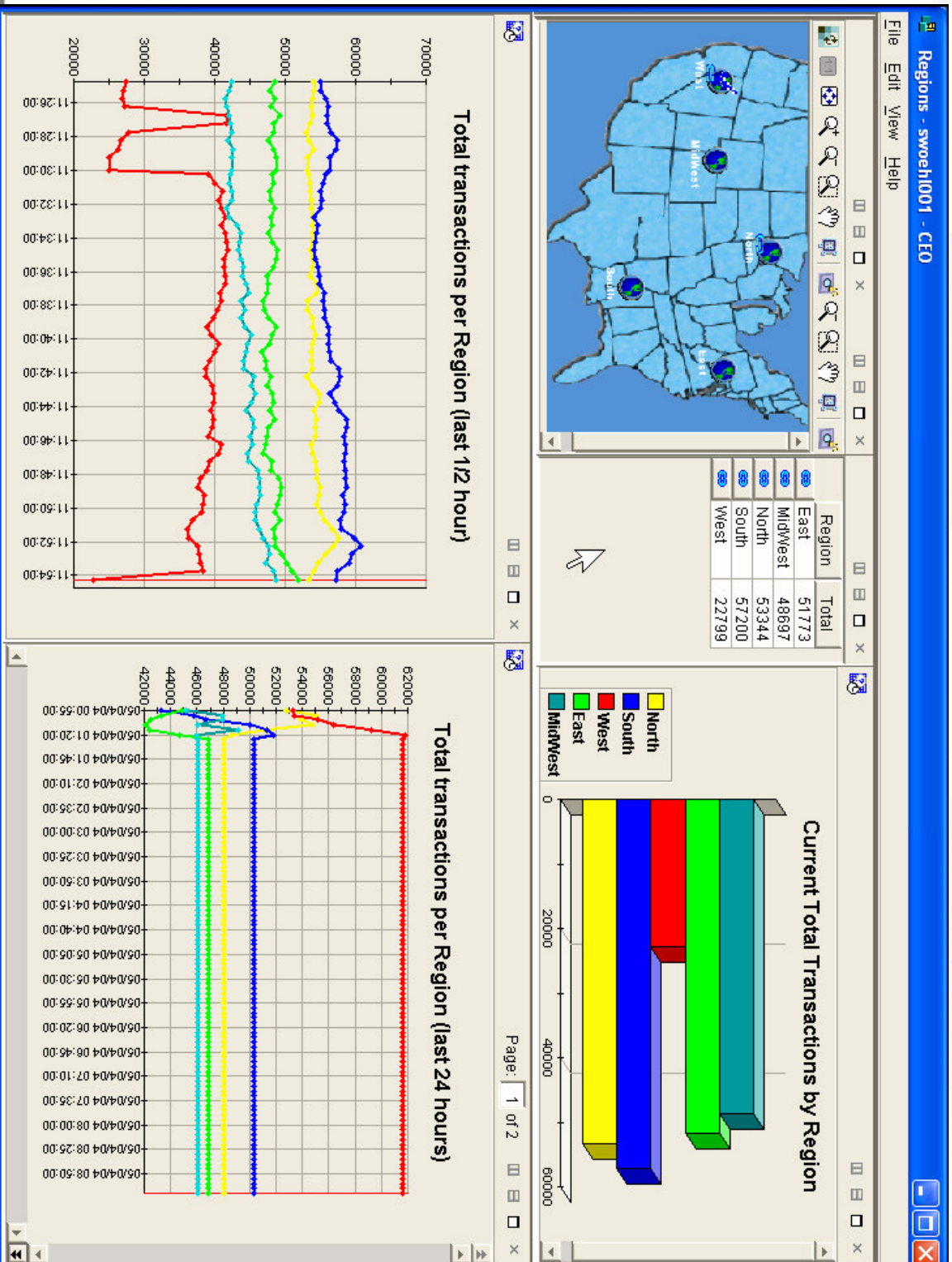
OS, Base, WebSphere, Composite Applications ...



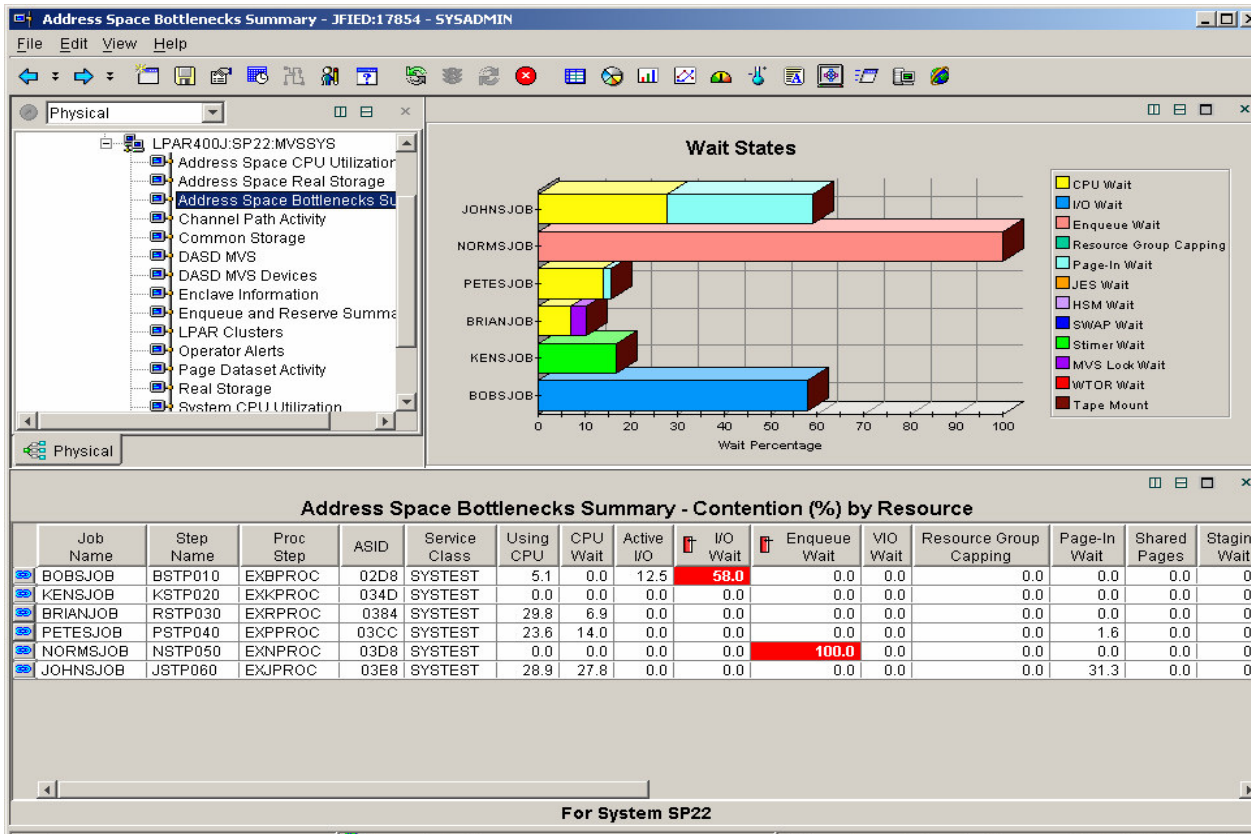
Un schéma plutôt qu'un discours

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TEP : Tivoli Enterprise Portal



ITM & TEP : Supervision



Accès par navigateur ou "Thin client"

Des graphiques ou des tables avec seuils

Des "views" personnalisées

Temps réel et historiques

Arbre physique des Managed Systems

Gestion intégrée des alertes et des liens

ITM & TEP : Supervision

The screenshot displays the Tivoli Enterprise Portal interface. At the top, the title bar reads "Tivoli Enterprise Portal" and "Tivoli software". Below the title bar is a menu bar (File, Edit, View, Help) and a toolbar with various icons. The main window is titled "Enterprise Event Console" and shows a table of events. The table has columns for Status, Situation Name, Display Item, Source, Impact, and Local Timestamp. Two events are listed, both with a status of "Open".

Status	Situation Name	Display Item	Source	Impact	Local Timestamp
Open	NT Log Space Low	Application	Primary:DZEUNERT:NT	System	12/14/05 11:26
Open	NT Log Space Low	Security	Primary:DZEUNERT:NT	System	12/14/05 11:26

Below the event console, there is a browser window showing the IBM Tivoli Enterprise Console website. The website has a navigation menu with "Home", "Products", "Services & solutions", "Support & downloads", and "My account". The main content area displays the IBM logo and the text "IBM Tivoli Enterprise Console". A sidebar on the left lists various resources like "Library", "Product manuals", "Technical documentation", "Technical support", "Solutions", "Software Demos", "Technical resources", and "News".

In the bottom left corner, there is a terminal window titled "OMEGAVIEW Version 310". It shows a command prompt with the text "Type one or more action codes, then press Enter. S=Show details, P=Problem management, I=Information, C=Change, G=GoTo". Below this, there is a table with four columns: "Session Name", "Workload Status", "Resource Status", and "Alert Status".

Session Name	Workload Status	Resource Status	Alert Status
CMSCOM			
02MFAA			
02MUSA			
02MSAA			



OMEGAMON z/OS Management Console

The screenshot displays the OMEGAMON z/OS Management Console interface. The main window is titled "Address Space Data for z/OS - RGATSKI - SYSADMIN". It features a tree view on the left showing the system hierarchy, including "Enterprise", "z/OS Systems", "ManagementConsole", and "z/OS Management Console". The "Address Space" option is selected, displaying a table of address space information.

Job Name	Step Name	Proc Step	SvcClass	SvcClass Period	ASID	JESJOBID	Waiting
MASTER			SYSTEM	1	0X0001	STC24674	Working
PCAUTH	PCAUTH		SYSSTC	1	0X0002		Working
RASP	RASP		SYSTEM	1	0X0003		Working
TRACE	TRACE		SYSTEM	1	0X0004		Working
DUMPSRV	DUMPSRV	DUMPSRV	SYSTEM	1	0X0005		Working
XCFAS	XCFAS	IEFPROC	SYSTEM	1	0X0006		Working
GRS	GRS		SYSTEM	1	0X0007		Working
SMSPDSE	SMSPDSE		SYSTEM	1	0X0008		Working
SMSVSAM	SMSVSAM	IEFPROC	SYSTEM	1	0X0009		Working
CONSOLE	CONSOLE		SYSTEM	1	0X000A		Working
WLM	WLM	IEFPROC	SYSTEM	1	0X000B		Working
ANTMAIN	ANTMAIN	IEFPROC	SYSTEM	1	0X000C		Working
ANTAS000	ANTAS000	IEFPROC	SYSSTC	1	0X000D		Working
OMVS	OMVS	OMVS	SYSTEM	1	0X000E		Working
IEFSCHAS	IEFSCHAS		SYSTEM	1	0X0010		Working
JESXCF	JESXCF	IEFPROC	SYSTEM	1	0X0011		Working
ALLOCAS	ALLOCAS		SYSTEM	1	0X0012		Working
IOSAS	IOSAS	IEFPROC	SYSTEM	1	0X0013		Working
IXGLOGR	IXGLOGR	IEFPROC	SYSTEM	1	0X0014		Working
SMS	SMS	IEFPROC	SYSSTC	1	0X0015		Working
SMF	SMF	IEFPROC	SYSTEM	1	0X0016		Working
\$AFOPG	AFOPER	OGEXEC	STCPROD	1	0X0017	STC24664	Working
ASCH	ASCH	ASCH	SYSSTC	1	0X0018		Working

ITM & TEP : Les Situations

Situation Editor

Situation Editor Assistance

- OMEGAMON for CICS
- OMEGAMON for DB2
- OMEGAMON for IMS
- OMEGAMON for MVS
- OMEGAMON for OPR
- OMEGAMON for SMS
- OMEGAMON for VM
- OMEGAMON for VTAM
- OMEGAVIEW
- Oracle
- OS/390 Unix (USS)
- OS/400 Omeгамon
- R/3
- R/3 Clients
- R/3 Groups
- R/3 Instances
- Storage Subsystem
- Sybase
- TCP/IP
- The MVS Sysplex OS
- UDB Agent
- Universal Data Provider
- Universal Database
- Unix
- VTAM
- WAS Plug In Server
- WebSphere Application Se
- WebSphere Application Se
- WebSphere Application Se
- Windows NT
- WMQI Agent
- WMQI Broker

Situation(s) for - LPAR400J:SP12:MVSSYS

Condition Distribution Expert Advice Action Until

Description
CSA Growth Warning Situation

Condition

	Area	Growth	Growth
1	EQ CSA	GE 35	LT 50
2			
3			

Area The name of the common storage area presented in this row of the table view. Valid values are:

- CSA -- Common Storage Area

Sampling interval: 0 / 0 / 15 / 0 (dd hh mm ss)

State: Critical

Run at startup

Buttons: OK, Apply, Cancel, Help

Ready

Situation "true" =
ALERTE

Distribution

Des corrélations
ou situations
logiques

Une aide en ligne
sur les indicateurs

Contexte
de l'alerte

La criticité de
l'alerte

ITM & TEP : Les Alertes

The screenshot displays the TEP interface with a tree view on the left and two tables of system metrics. The 'Initial Situation Values' table shows a critical alert (red bar) for LPAR400J:SP12:MVSSYS with a Total TCB% of 13. The 'Current Situation Values' table shows the same system with a Total TCB% of 11. An 'Acknowledgement - Create' dialog is open, showing event details for 'KS3_Vol_Free_Space_Pct_Critical - CXEGA01:SP12:STORAGE' and options for expiration and notes.

Total TCB%	Managed System	Average CPU Percent	CPU Flag	Undispatched Tasks	MVS Overhead	Total SRB%	Total Enclave%	Partition LCPD%
13	LPAR400J:SP12:MVSSYS	6	RMF	0	6	3	0	10

Total TCB%	Managed System	Average CPU Percent	CPU Flag	Undispatched Tasks	MVS Overhead	Total SRB%	Total Enclave%	Partition LCPD%
11	SP12:MVSSYS	11	RMF	0	5	2	0	9

Incident à son origine

Etat actuel (tendance)

Conseils des Experts, Guide, Consignes (données, fichiers, HTML)

Des tables d'attributs pour chaque agent

The 'Select attribute' dialog shows a list of attributes grouped under 'OSA_Express_LPARS'. The 'Item' list includes: Channel Number, Collection Time, Kilobyte Rate In Per Five Minutes, Kilobyte Rate In Per Hour, Kilobyte Rate In Per Minute, Kilobyte Rate Out Per Five Minutes, Kilobyte Rate Out Per Hour, Kilobyte Rate Out Per Minute, LPAR Name, LPAR Number, Origin Node, and Processor Utilization Per Five Minutes. A description at the bottom explains that these attributes are used to create situations monitoring OSA Express LPARS usage.

ITM & TEP : Les Historiques

Network Interface Activity (weekly)

SUMMARY DAY	Network Interface Name	TRANSFERSPERSEC
2005/04/24	eth0	112.11068672839505
2005/04/24	eth1	0.0
2005/04/24	lo	0.10787037037037037
2005/05/01	eth0	26.27579898446834
2005/05/01	eth1	0.0
2005/05/01	lo	0.014486260454002389
2005/05/08	eth0	68.11514336917563
2005/05/08	eth1	0.0
2005/05/08	lo	0.008288530465949821
2005/05/15	eth0	9.33549880525687
2005/05/15	eth1	0.0
2005/05/15	lo	0.0021654719235364396

Processor Utilization (weekly)

Maximum Memory Utilization (weekly)

Average Memory Utilization (weekly)

Disk Utilization (weekly)

Select the Time Span

- Real time
- Last: 4 Weeks
- Custom

Last parameters:

- Use detailed data
- Use summarized data
- Time Column: Recording Time
- Shift: All shifts
- Days: All days

Custom parameters:

- Use detailed data
- Use summarized data
- Interval: Hours
- Shift: All shifts
- Days: All days
- Start Time: 01/03/2005 04:47 PM
- End Time: 06/27/2005 05:47 PM

Apply to all views associated with this view's query

OK Cancel Help

ITM & TEP : Vues Logiques

The screenshot displays the eAgent Production Environment interface with several overlapping windows:

- Left Panel:** A navigation pane titled "Type of Problem" with categories: Problems, Performance, Storage, Security, and Communicat. Below this is a network diagram showing "Web Servers" in a "DMZ" connected to "SiteMinder Servers" and "LDAP Servers" via ports 8100, 8101, and 8102. A vertical bar on the left is labeled "eAgent Response Time".
- Top-Right Window:** "Suivi des incidents" (Incident Tracking) showing a table of incidents.

Status	Situation Name	Display Item	Source	Impact	Opened	Age
Open	WAS_Indisponible		Primary:EROUEPC:NT	WAS	14/02/04 21:31:48	3 Min
- Bottom-Right Window:** "Suivi des cartes" (Card Monitoring) showing a list of actions: Commande, Création, Utilisation, Resilition, and Renouvellement. Each action has a corresponding status indicator (green circle or red triangle).
- Far Right Panel:** "Consignes journalières" (Daily Instructions) with a highlighted entry: "Arrêt des services WEB de 22h00 à 22h30" and "Mise en œuvre du nouveau site le 24/12/03".