

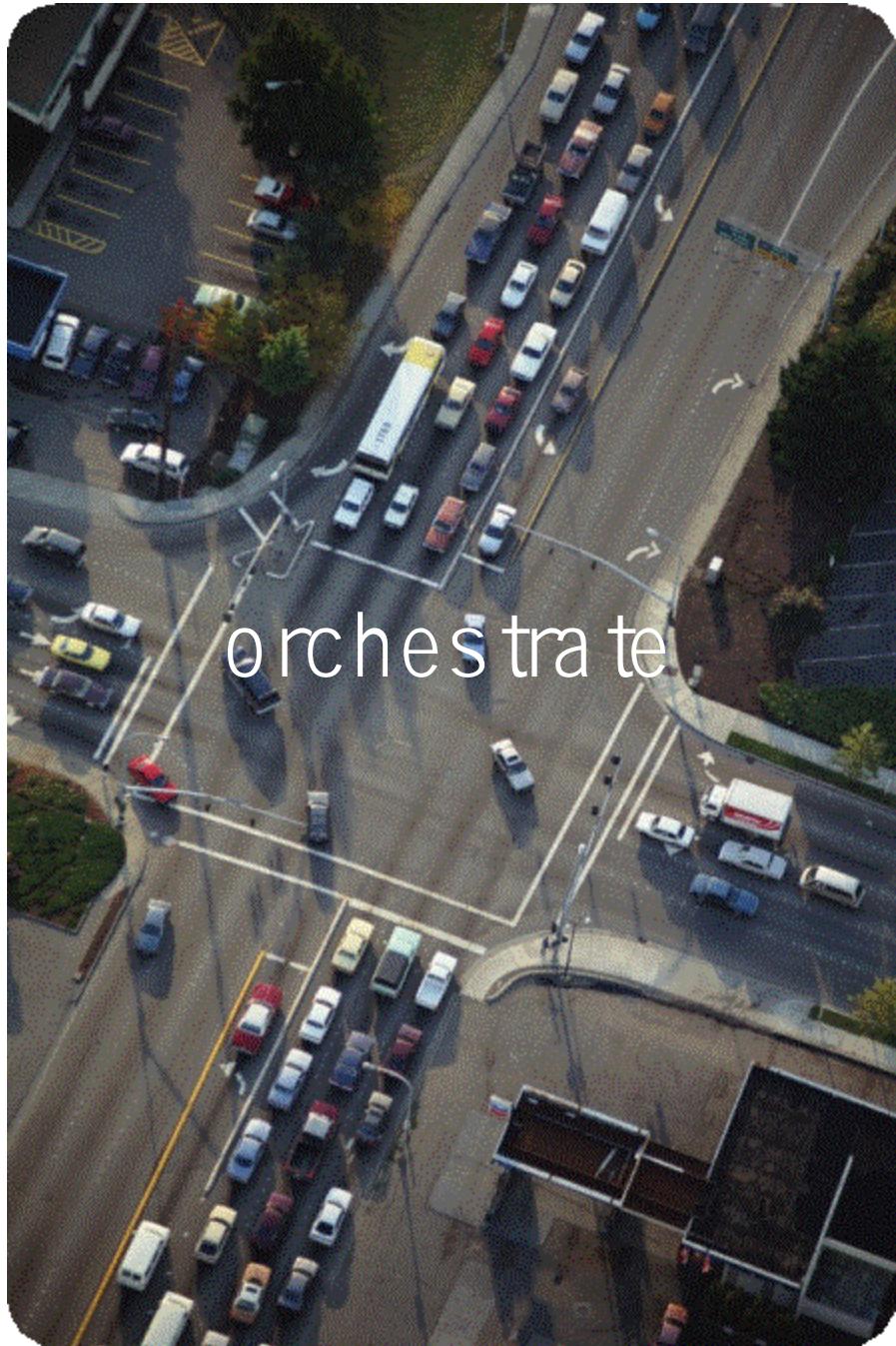


what is hp process manager?

richi jennings <richi@hp.com>
architect hp process manager family

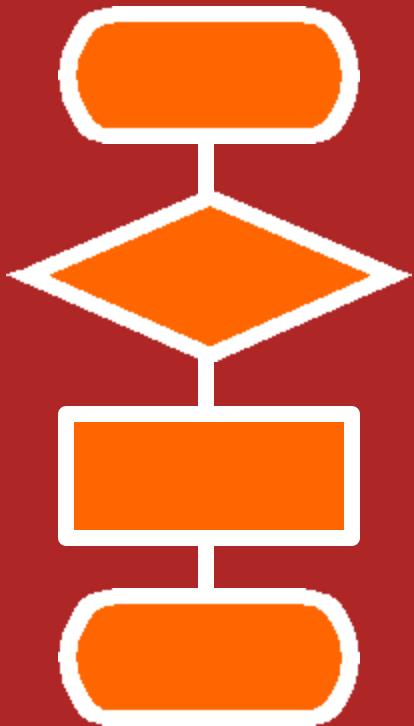
<http://www.hp.com/go/e-process>

tel:+44.1344.365870
fax:+44.1344.763686



the need for process management

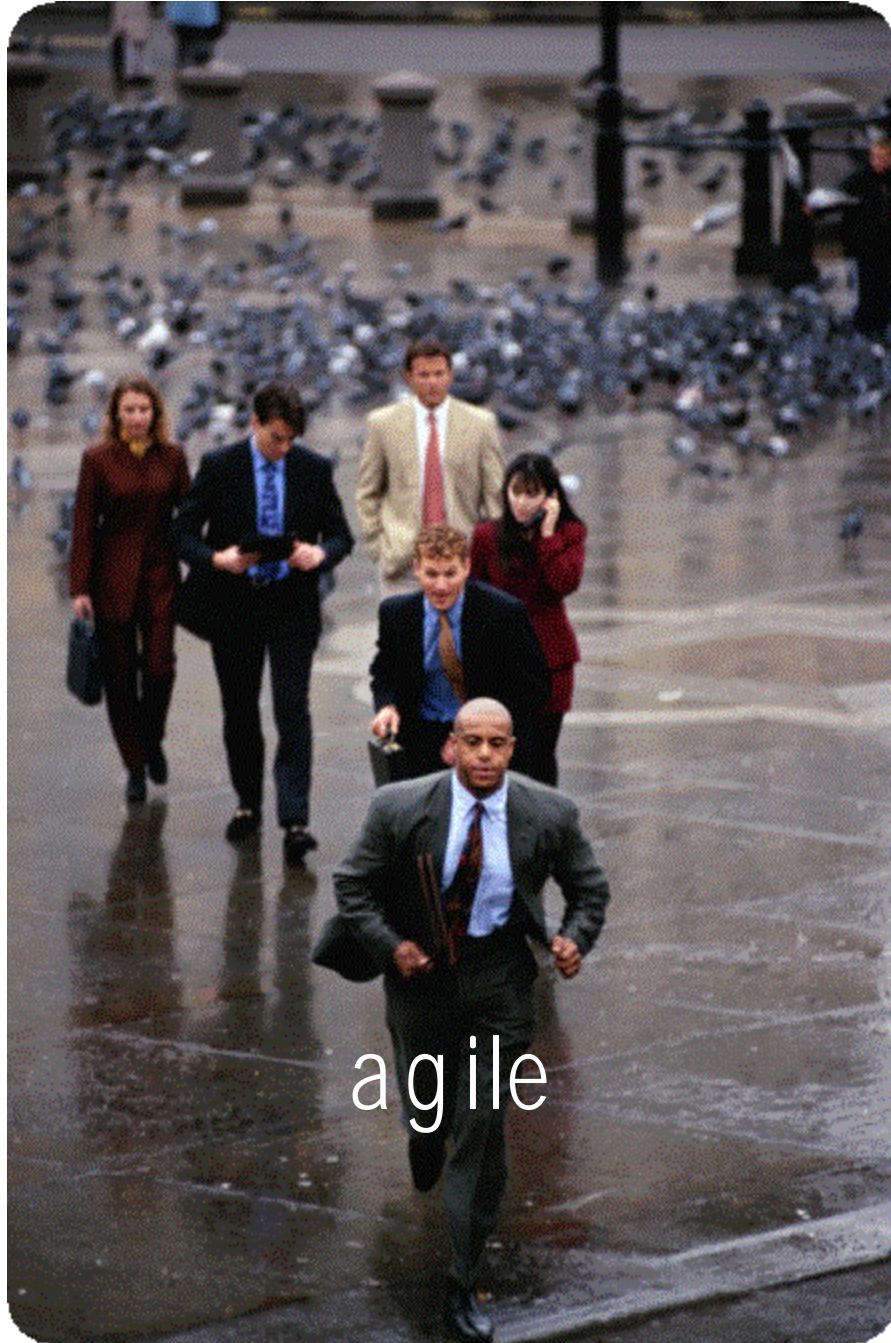
- co-ordinate, track and measure e-services
- manual processes are complicated and take too long
- integrate your systems and processes with everybody else's
- see problems before they occur
- introduce new products and services quickly!
- track and measure customers and business performance



process

what is a process?

- A series of tasks that achieve a common purpose
- Each task is performed by a person or a software application
- Work is automatically sent to recipient
 - People: web, email, software application
 - Applications: through an integration system
- Processes can be...
 - Across Departments
 - Across the Enterprise
 - Across companies - include customers and suppliers



agile

hp process manager

Maintain a competitive advantage
as the market changes

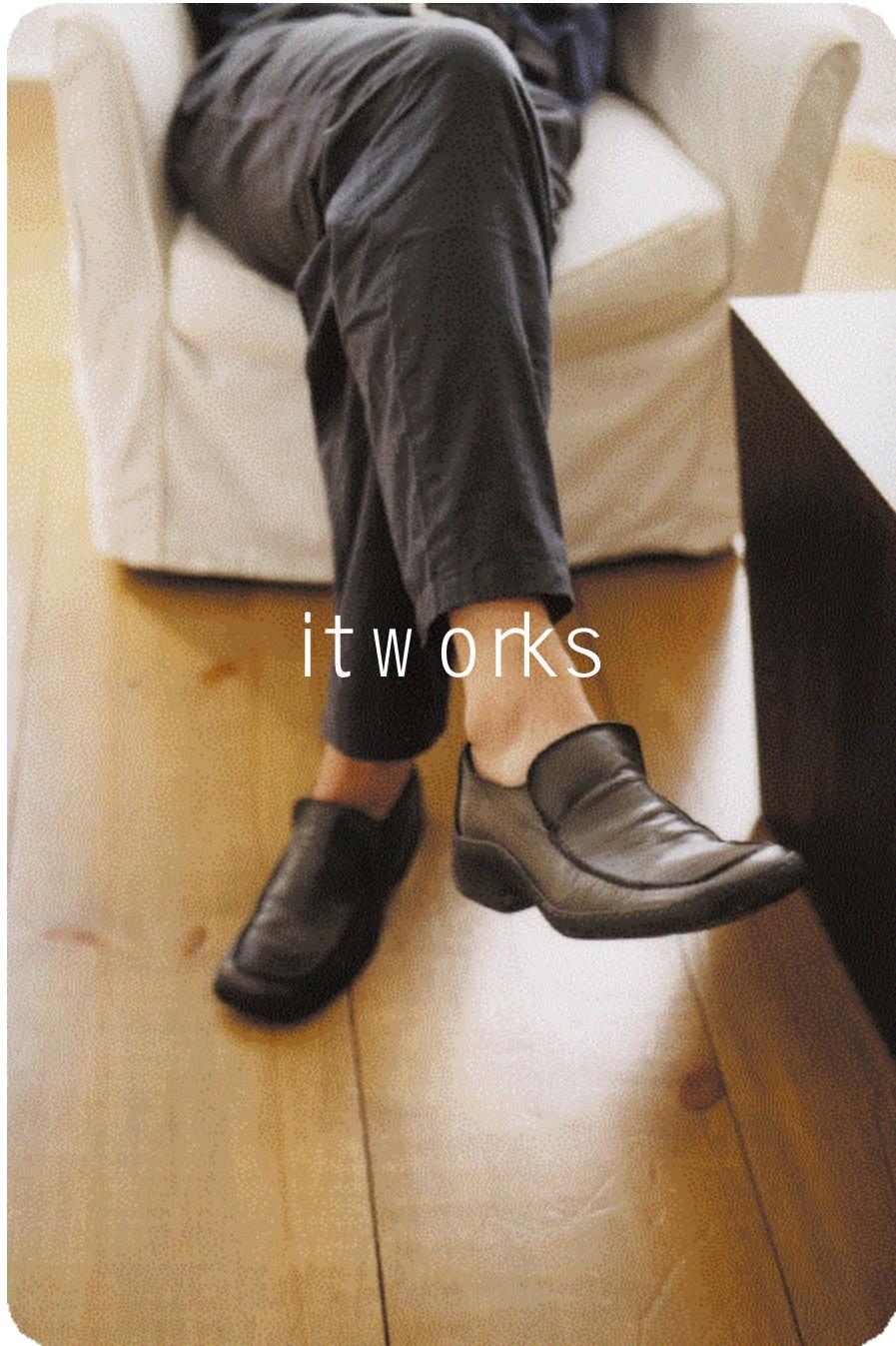
An environment for the rapid.
creation of process and service
centric solutions.

It allows the flexible, controlled
integration and co-operation
between employees and business
applications in order to meet and
deliver Enterprise objectives.



sm art

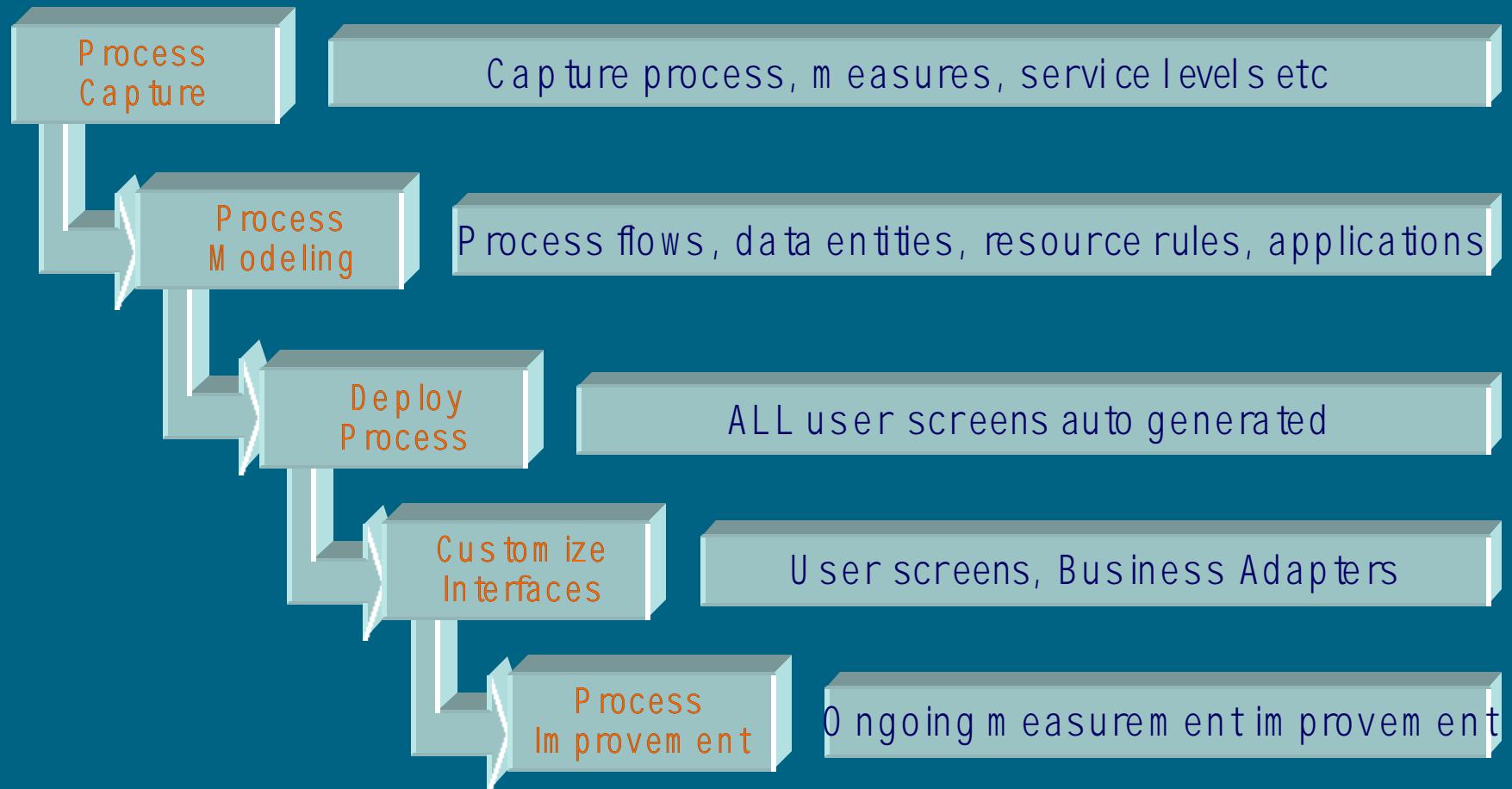
- rapid process development
- separation of
 - what (processes)
 - who (resources)
 - how (services)
- grows with you
- high performance
- reliable
- enterprise application integration
- tracking and monitoring



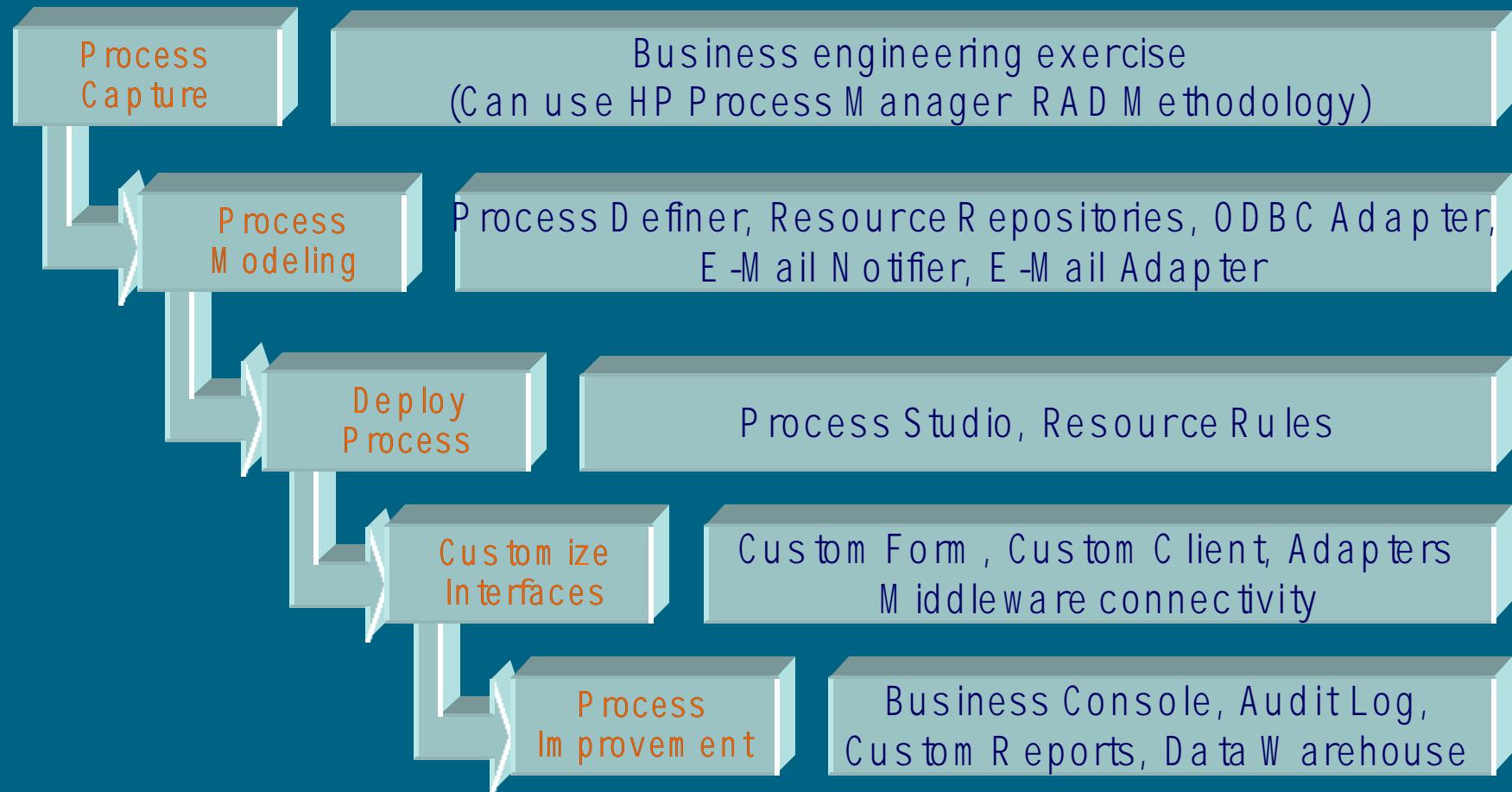
benefits experienced by customers

- greater control of the process
 - can track problems before they occur
- better planning
 - can cope with surges in demand
 - customers are not kept waiting for goods
 - reduction in over-production - less waste
- elimination of manual and paper-based procedures
 - reduction in time and effort
- which means increased sales

creating a solution - an iterative approach

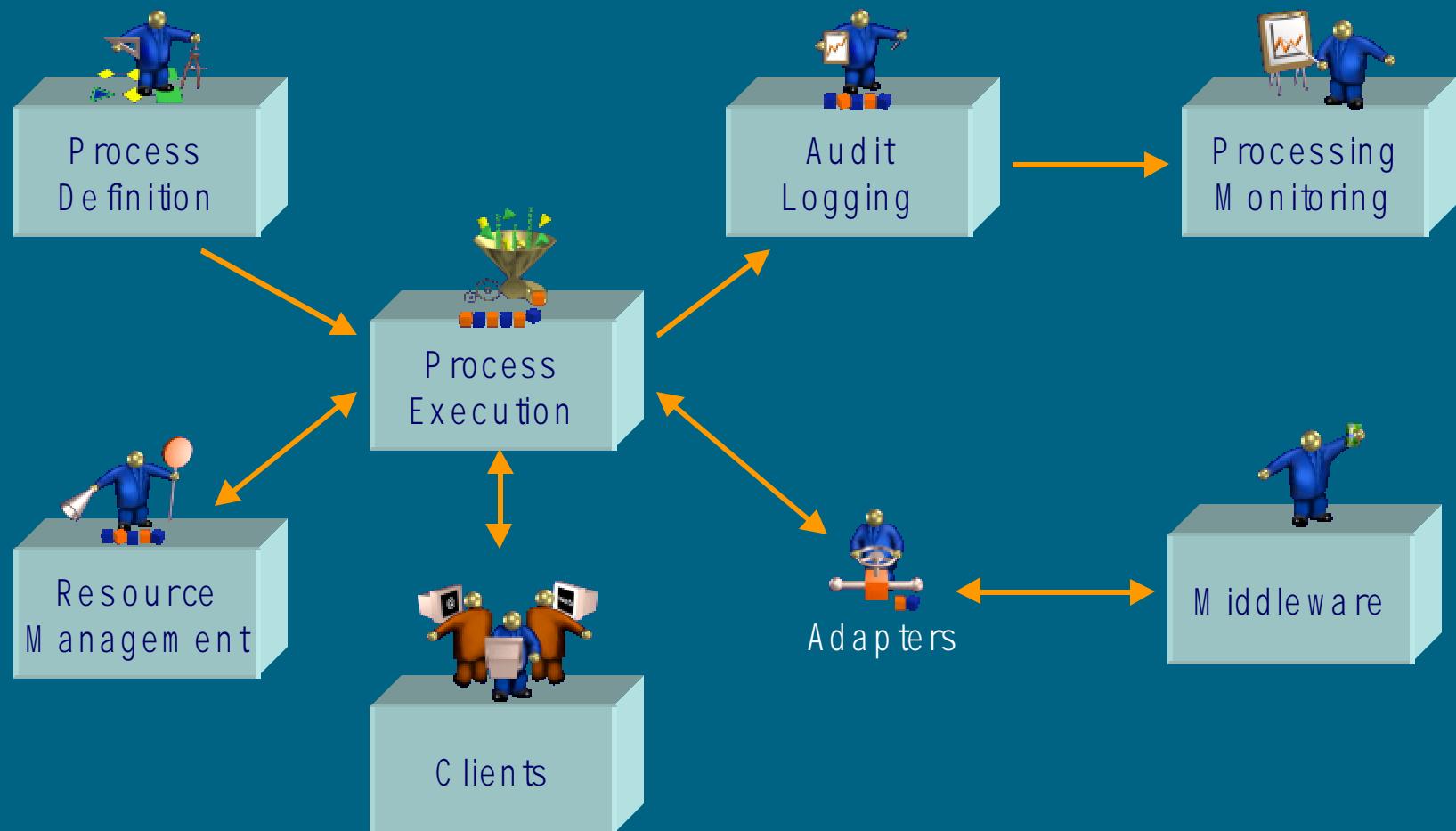


hp process manager technologies used

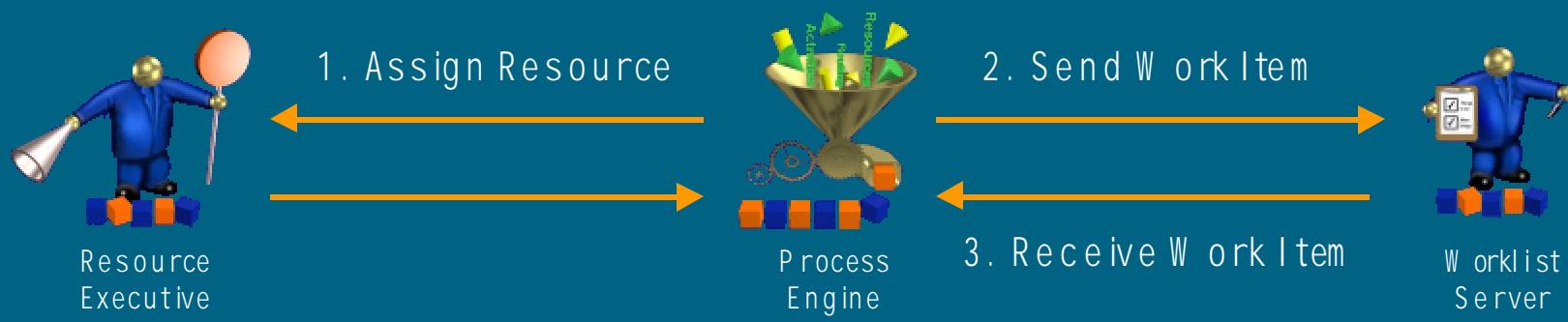


system architecture

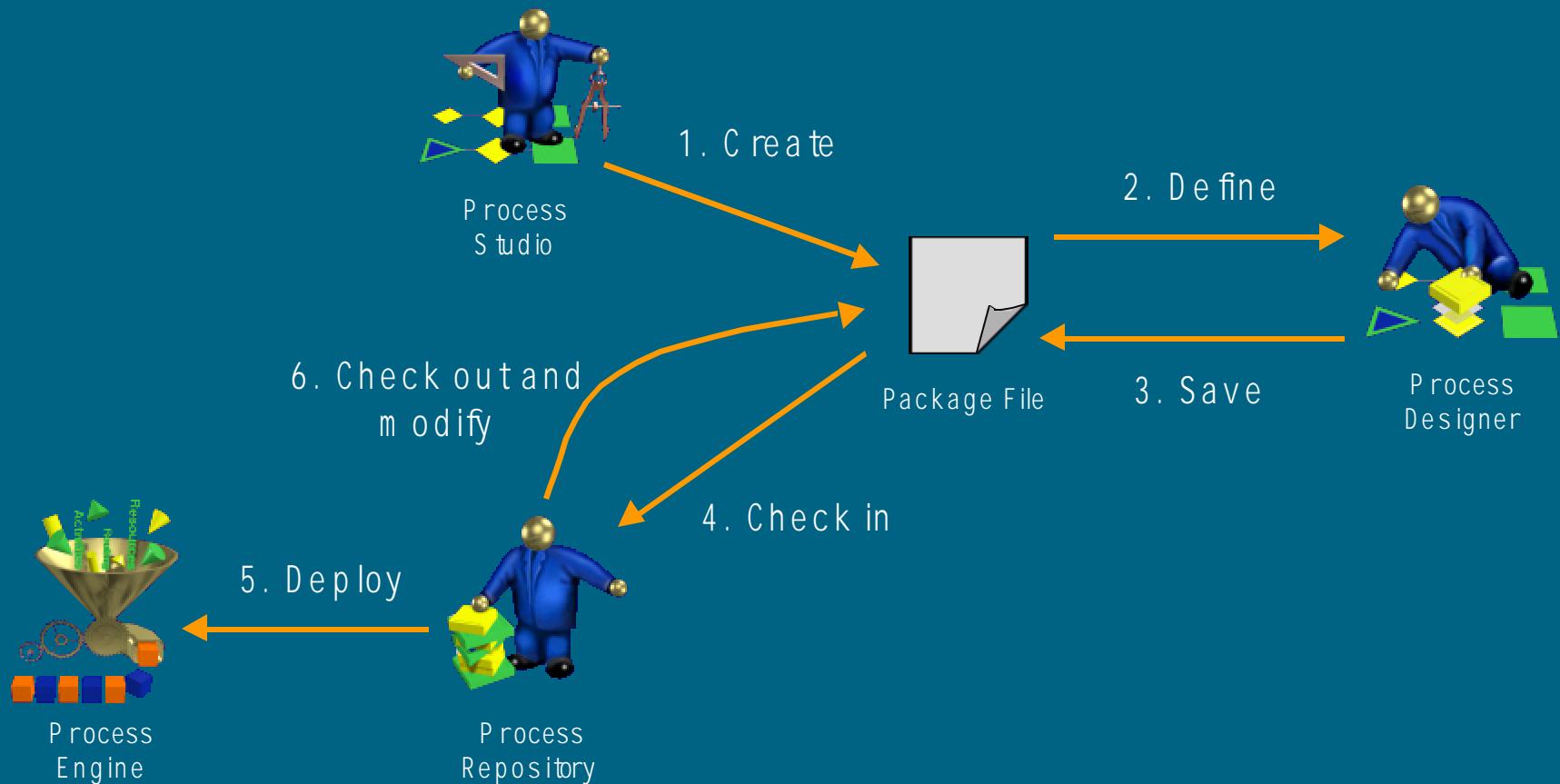
hp process manager architecture



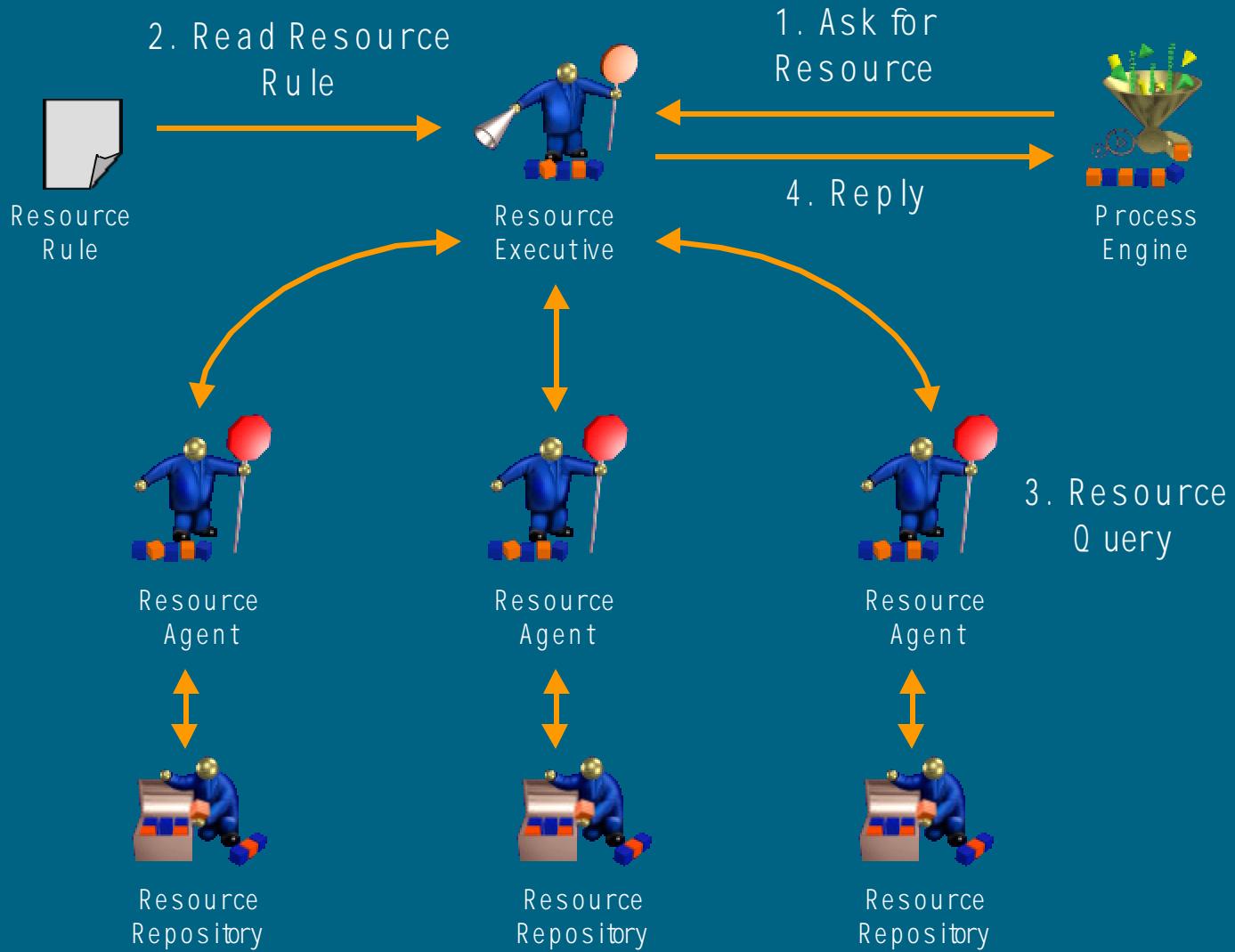
process execution



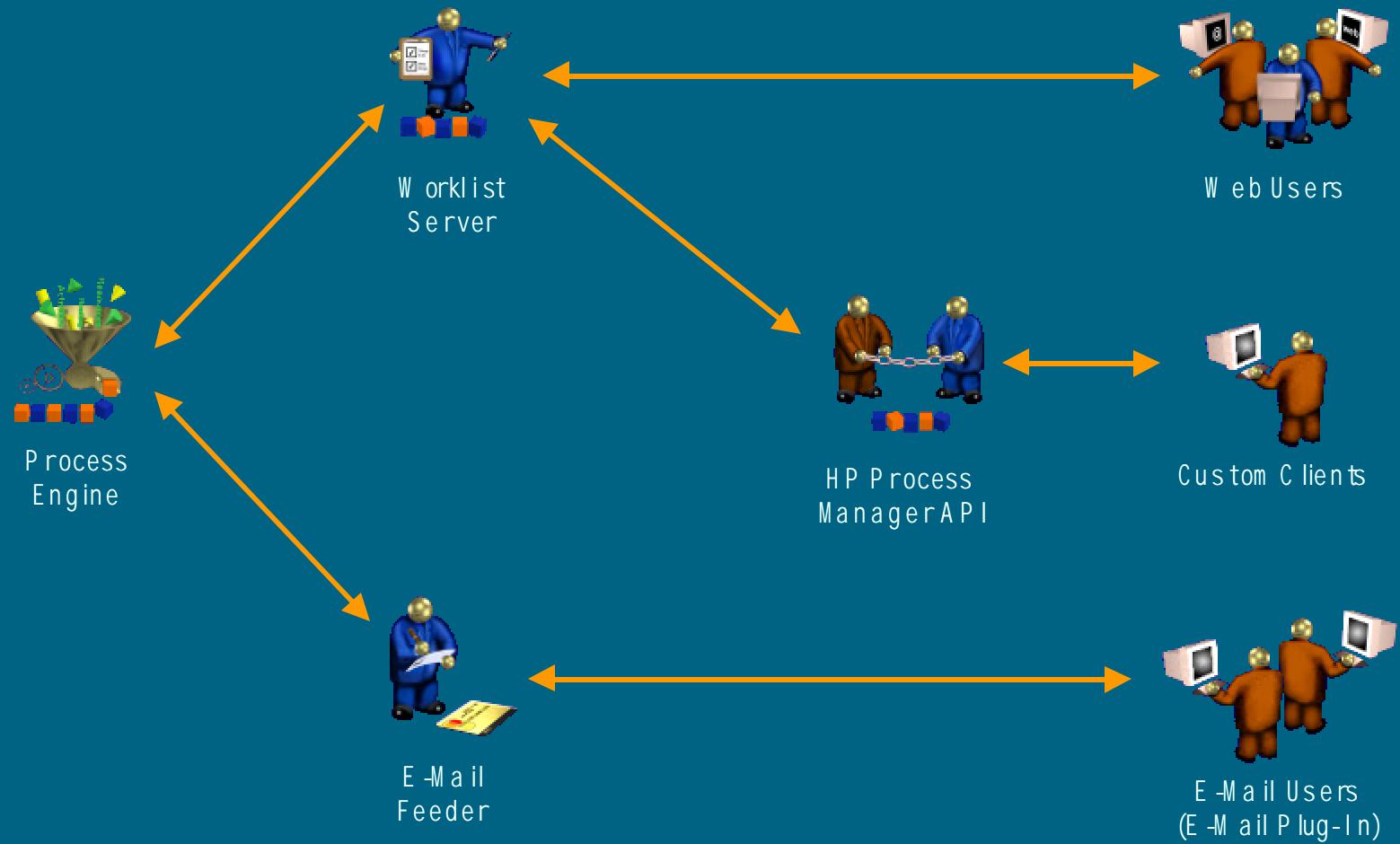
process definition



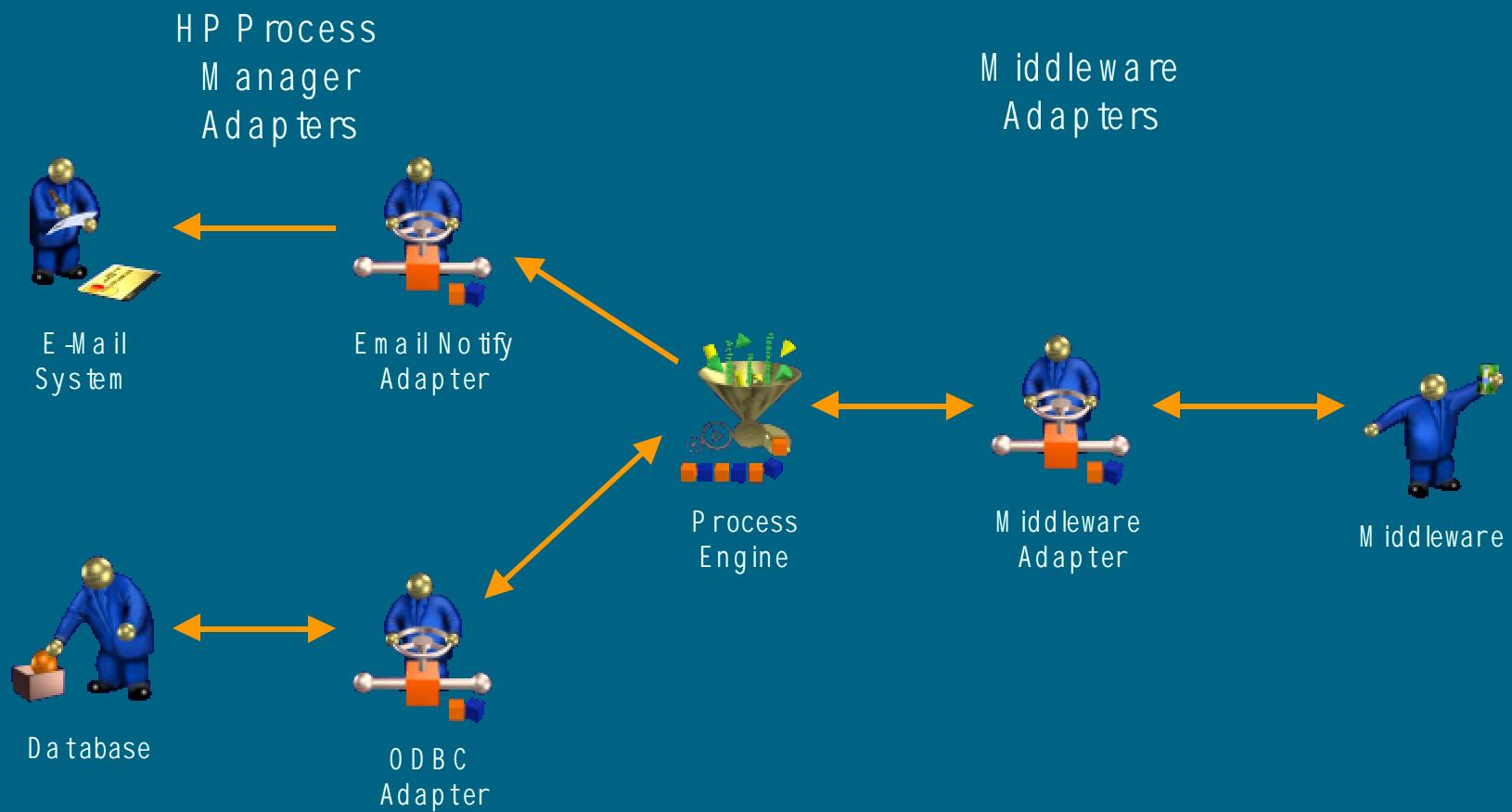
resource management



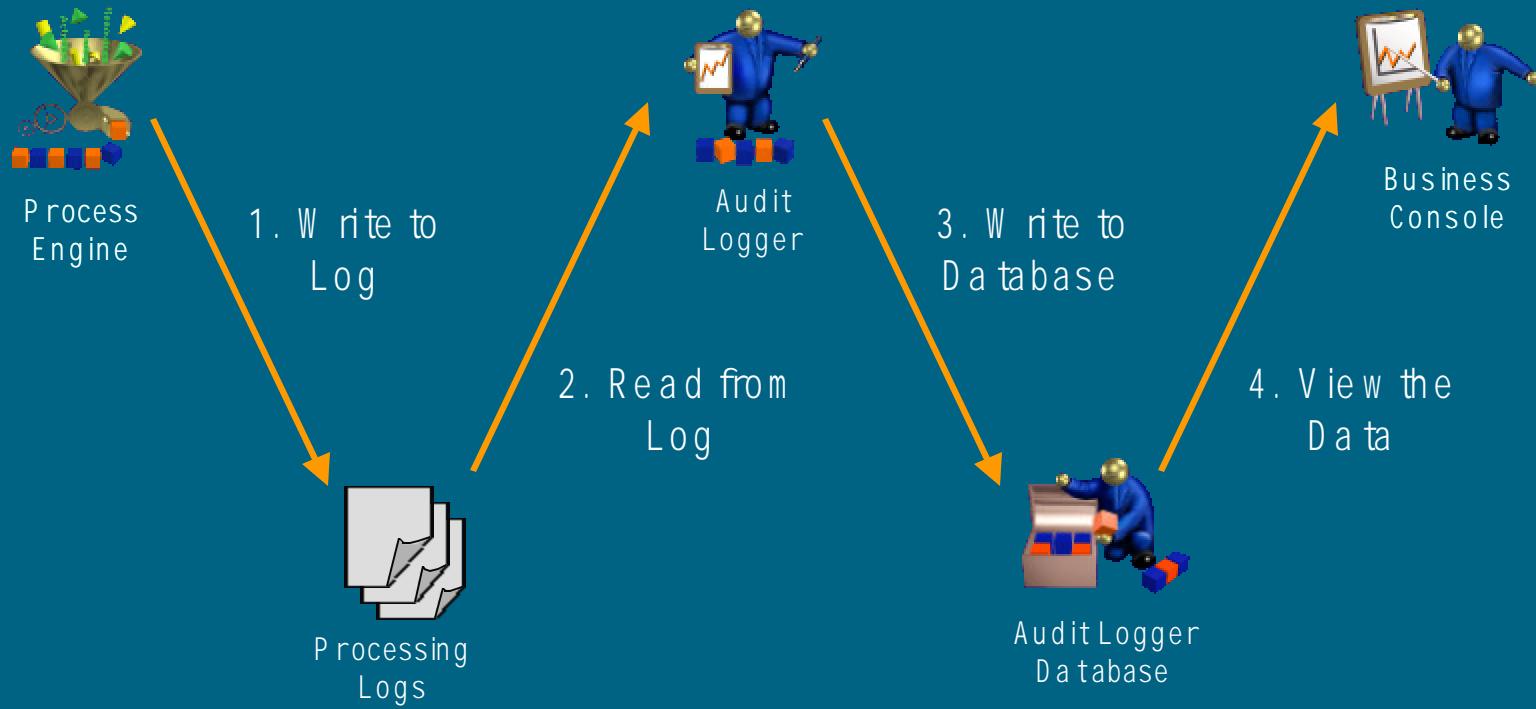
clients



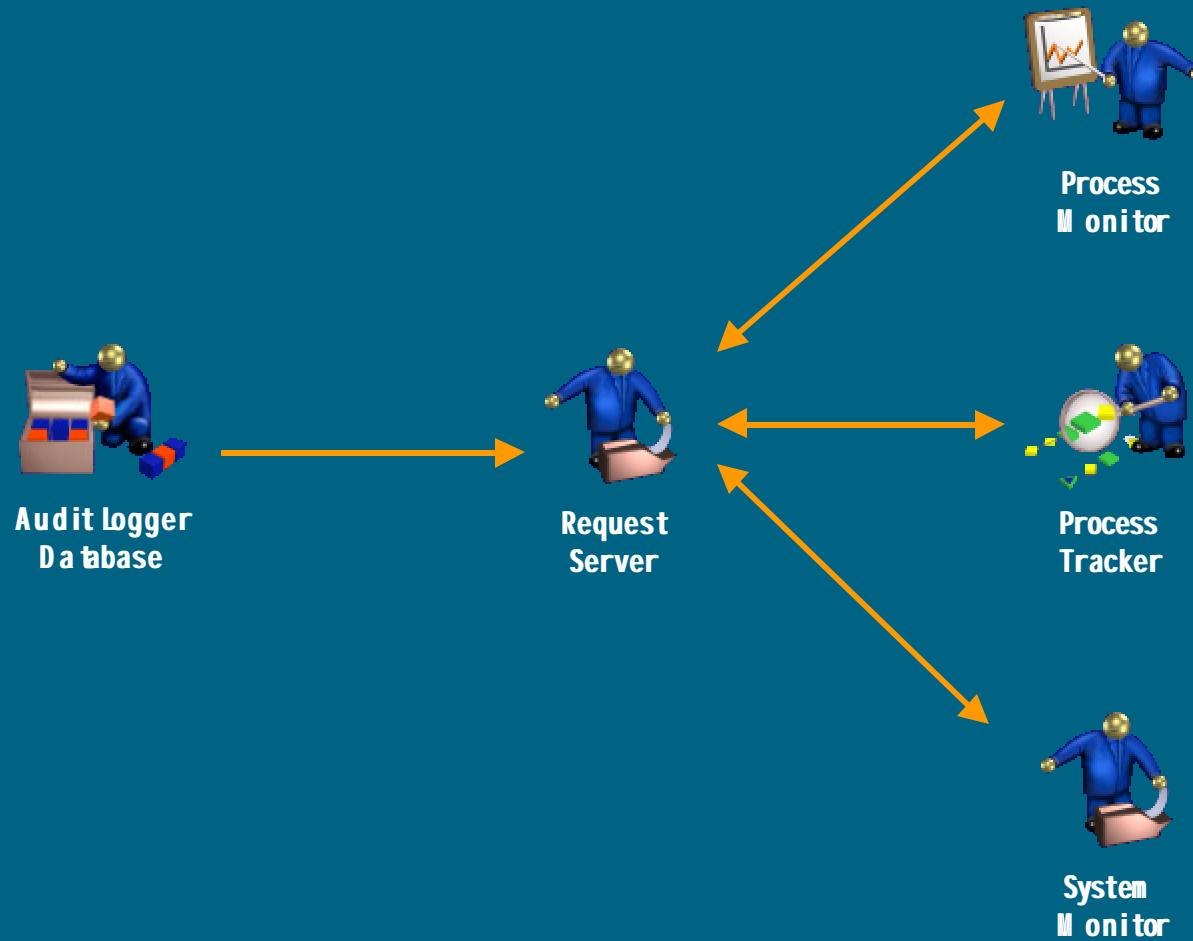
adapters



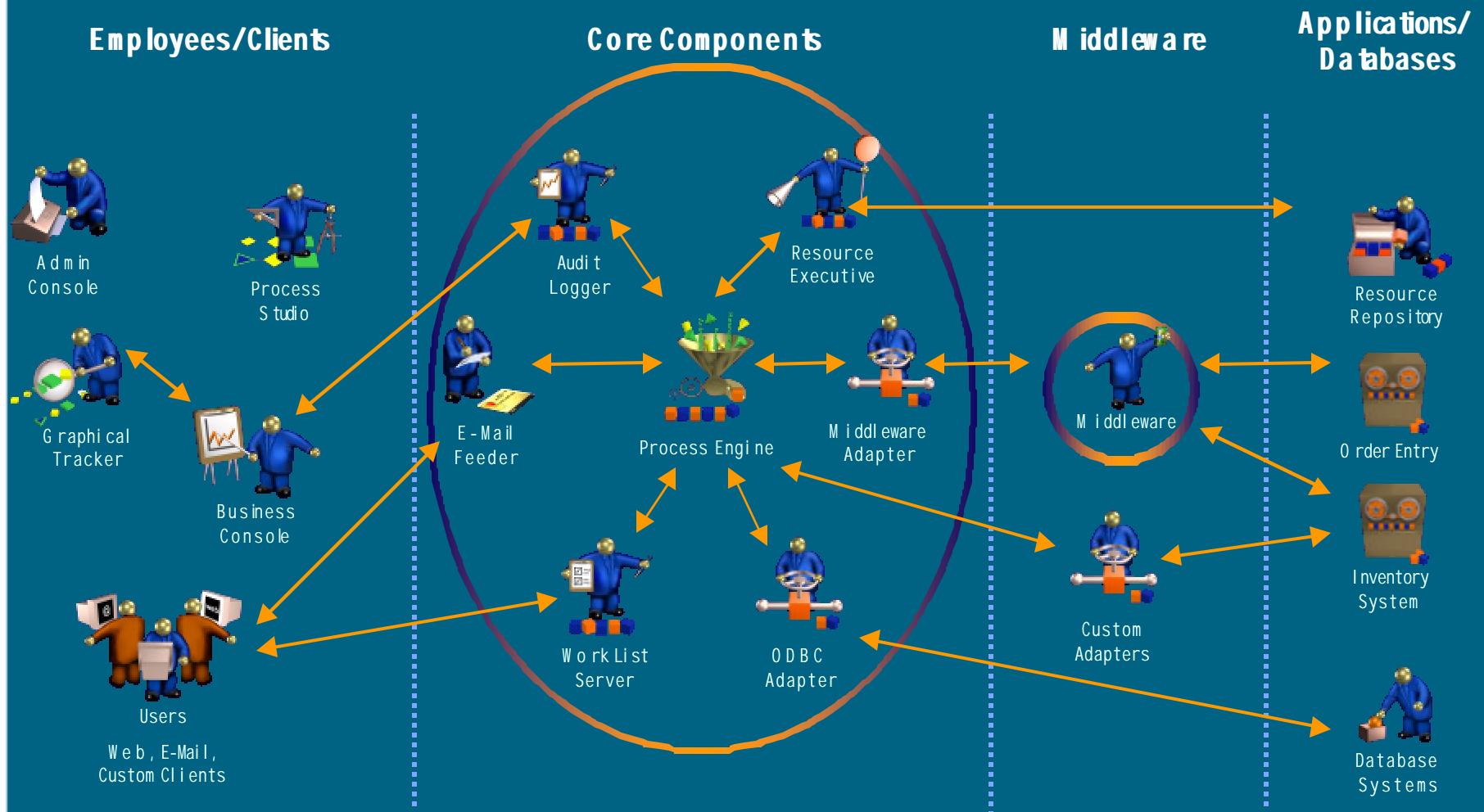
audit logging



process monitoring



hp process manager components - the BIG picture!



hp process manager consoles

Four Web-based interfaces:

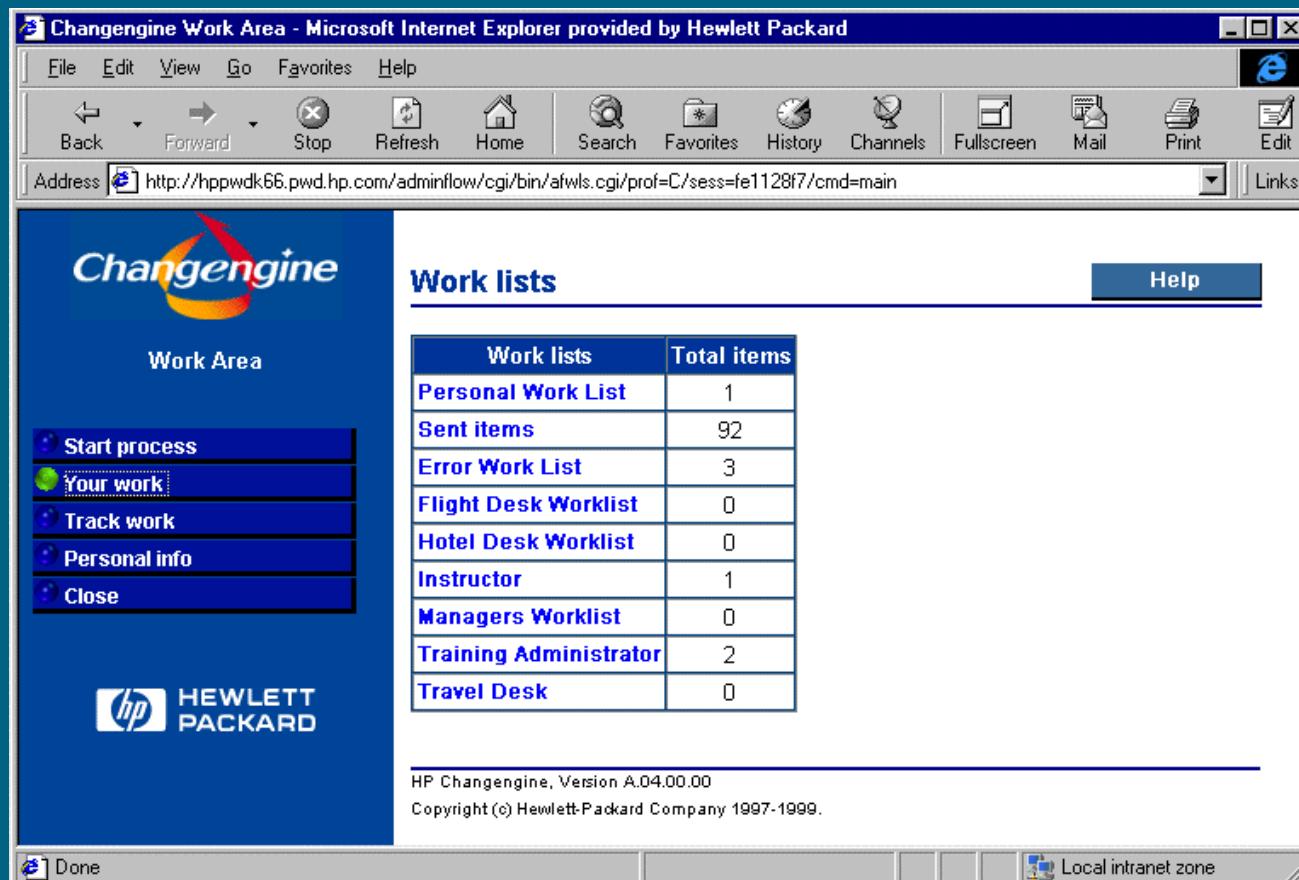
- Work Area
 - Provides user access to work
- Process Studio
 - Provides developers access to process definitions, resource rules, services, etc
- Admin Console
 - Provides administration tasks
- Business Console
 - Allows business managers to track and monitor processes

work area

Allows Users to...

- Start processes
- Access work in their personal work list
- Access work in shared work lists
- Complete work items
- Configure personal information
 - Password
 - Default data values,
e.g. Employee Number

Work area - screen shot

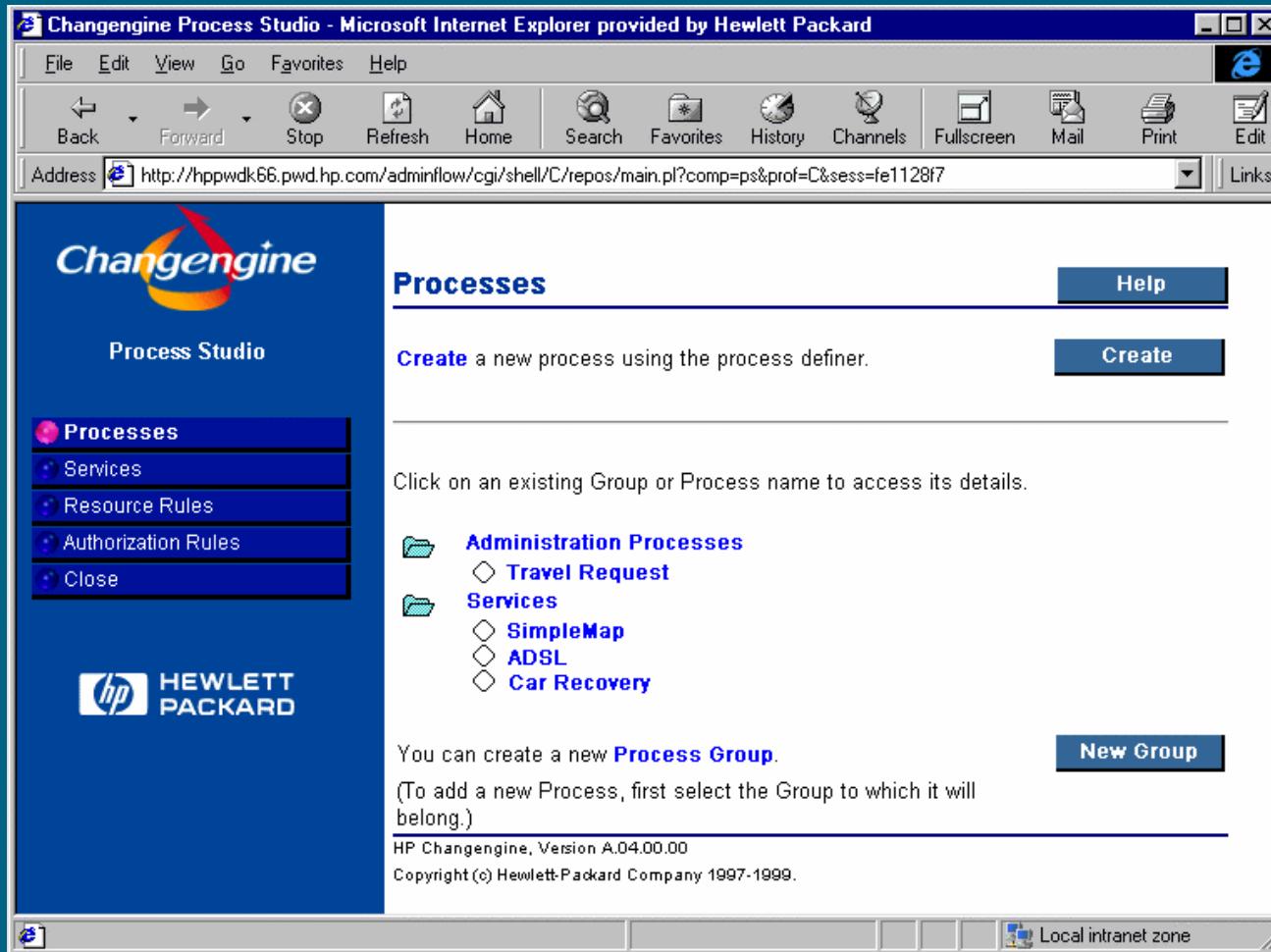


process studio

Allows Process Developers to...

- Create new processes
- Check-in, check-out or deploy...
 - Process definitions
 - Services
 - Custom forms
 - Resource/authorization rules
- Use the Process Repository for versioning of process definitions, custom forms and rules

process studio - screen shot



adm in console

Allows Administrators to...

- Monitor components
- Maintain users
- Configure components
- Administer remote HP Process Managers

adm in console - screen shot start/stop components

Changengine Admin Console - Microsoft Internet Explorer provided by Hewlett Packard

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address http://hppwdk66.pwd.hp.com/adminflow/cgi/shell/C/adm/main.pl?comp=ac&prof=C&sess=fe1128f7

Links

Start/Stop Components

Help

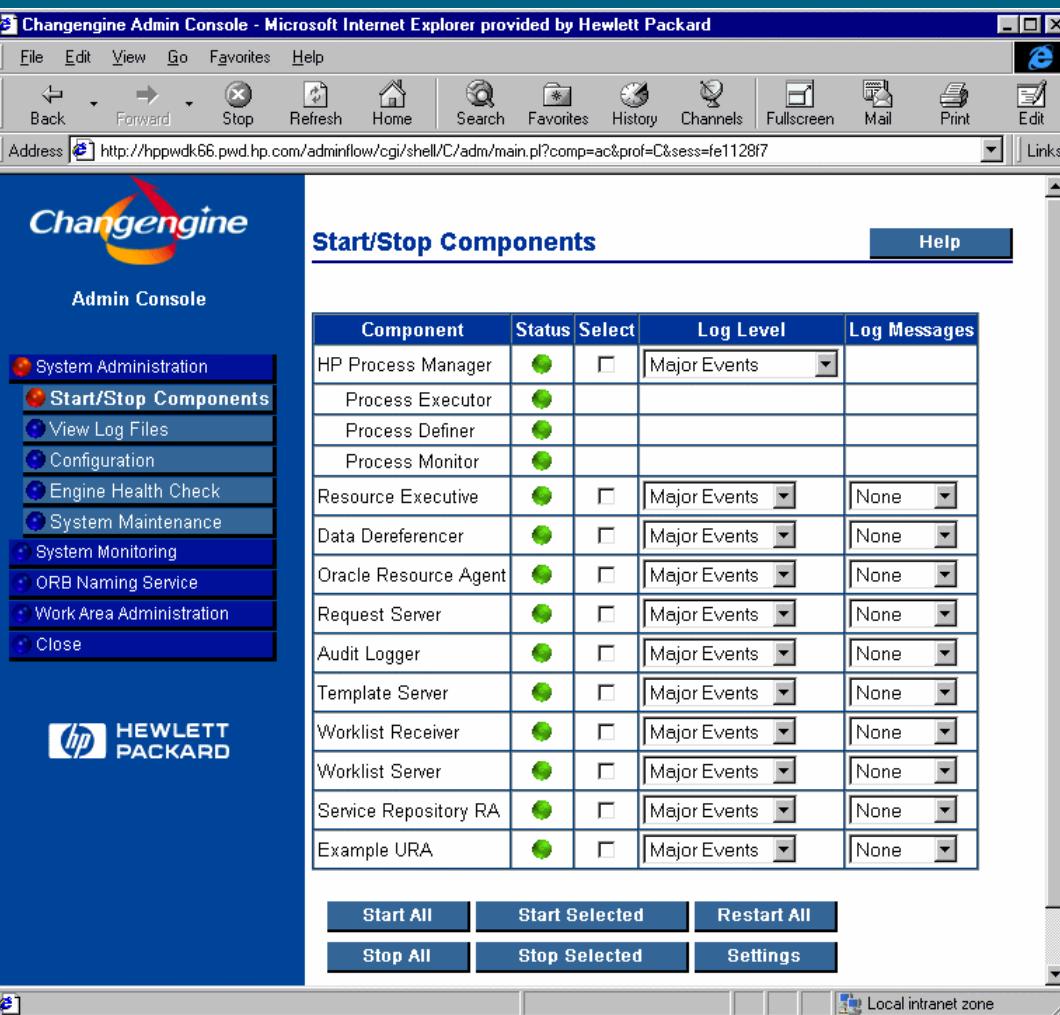
Component Status Select Log Level Log Messages

Component	Status	Select	Log Level	Log Messages
HP Process Manager	Green	<input type="checkbox"/>	Major Events	
Process Executor	Green	<input type="checkbox"/>		
Process Definer	Green	<input type="checkbox"/>		
Process Monitor	Green	<input type="checkbox"/>		
Resource Executive	Green	<input type="checkbox"/>	Major Events	None
Data Dereferencer	Green	<input type="checkbox"/>	Major Events	None
Oracle Resource Agent	Green	<input type="checkbox"/>	Major Events	None
Request Server	Green	<input type="checkbox"/>	Major Events	None
Audit Logger	Green	<input type="checkbox"/>	Major Events	None
Template Server	Green	<input type="checkbox"/>	Major Events	None
Worklist Receiver	Green	<input type="checkbox"/>	Major Events	None
Worklist Server	Green	<input type="checkbox"/>	Major Events	None
Service Repository RA	Green	<input type="checkbox"/>	Major Events	None
Example URA	Green	<input type="checkbox"/>	Major Events	None

Start All Start Selected Restart All

Stop All Stop Selected Settings

Local intranet zone



business console

Allows Business Managers to...

- View Audit information for processes
- Track process execution
- Monitor the performance of processes
- View custom reports



Business Console



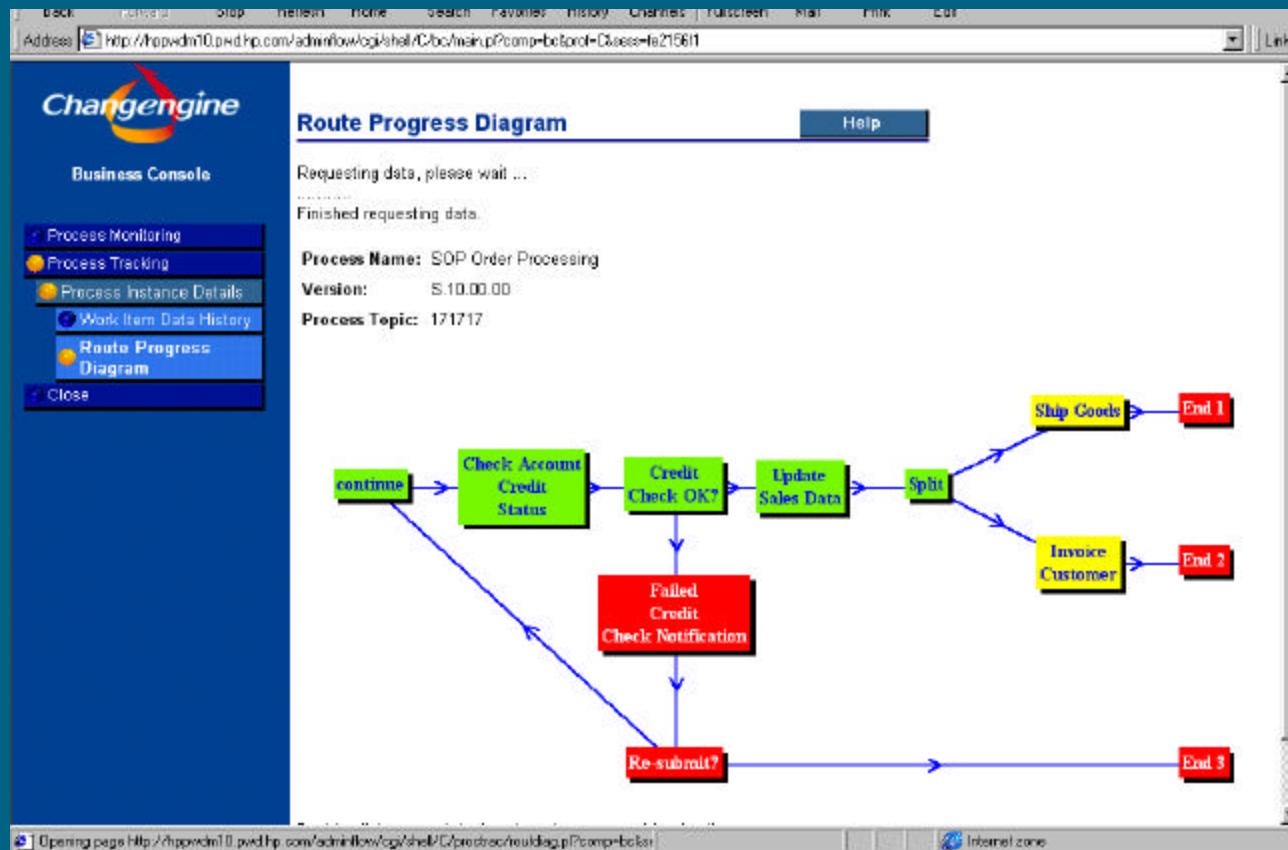
Audit Logger

business console - process tracker

Allows a Business Manager to...

- Track an individual process instance
- View a process instance in diagrammatic form

process tracker - screen shot process diagram

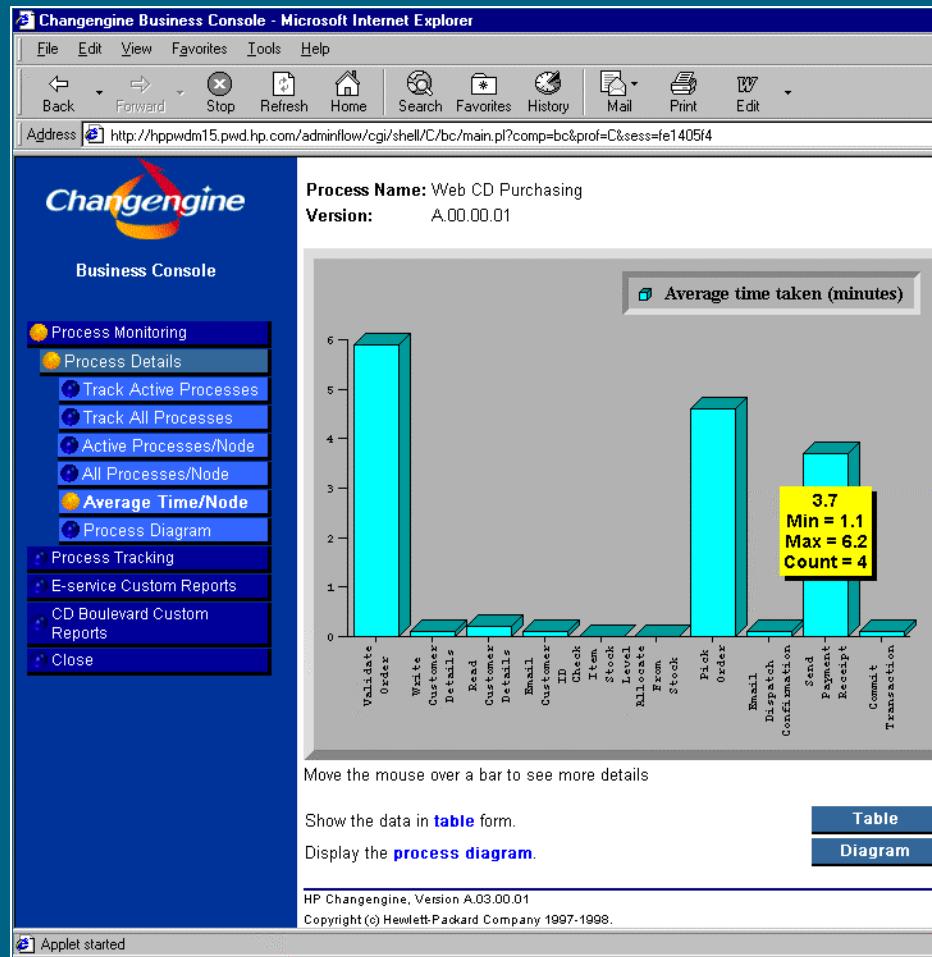


business console - process monitor

Allows a Business Manager to...

- Monitor individual customer cases
- View weekly, monthly and daily averages
- Identify bottlenecks
- Combine Process data with Business data
- View chart based statistics

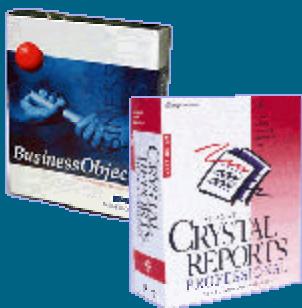
process monitor - screen shot ave time/node



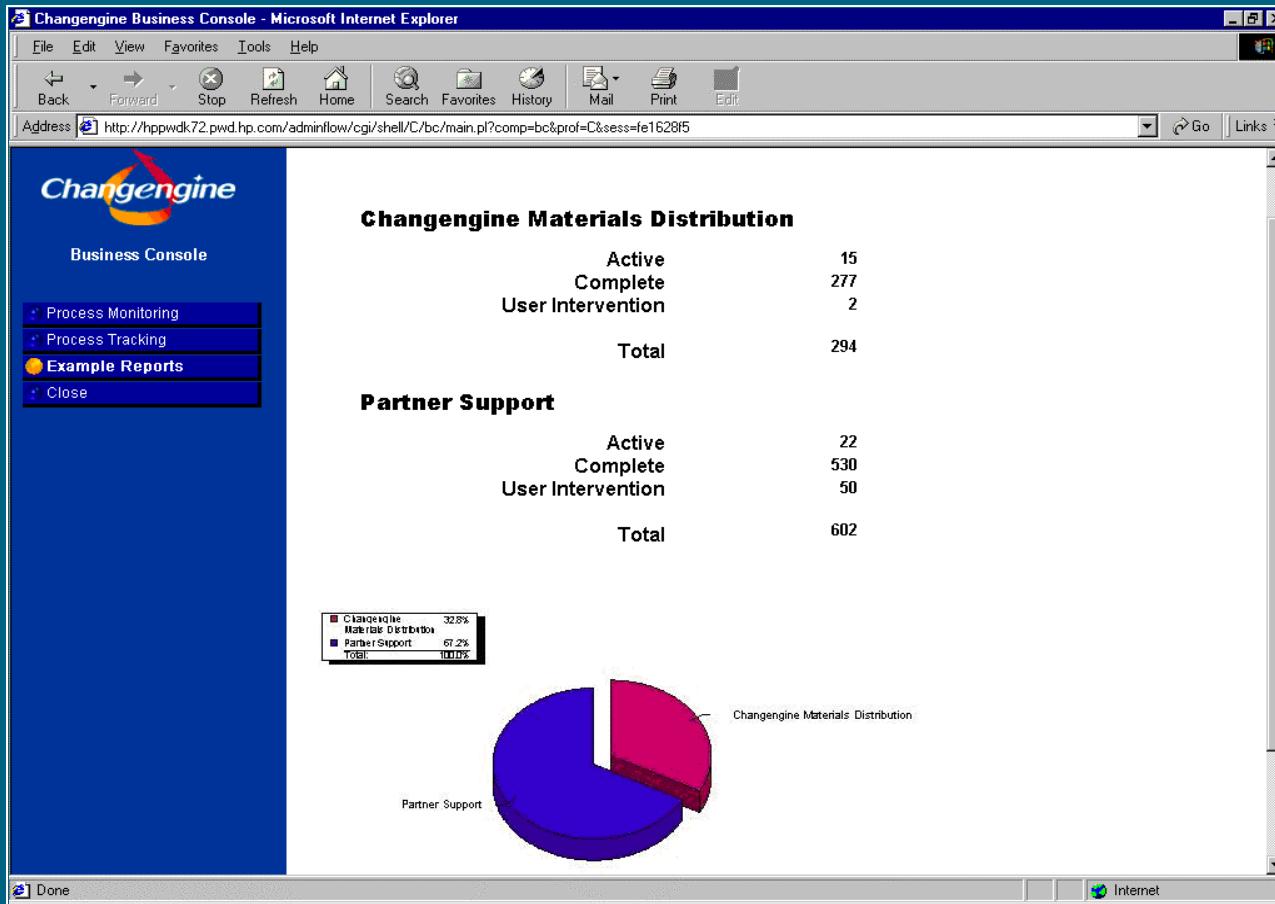
business console - custom reports

Allows a Business Manager to...

- Use 3rd party reporting tools to produce custom reports
- View reports based on data in the Audit Logger database



custom reports - screen shot using 3rd party tool

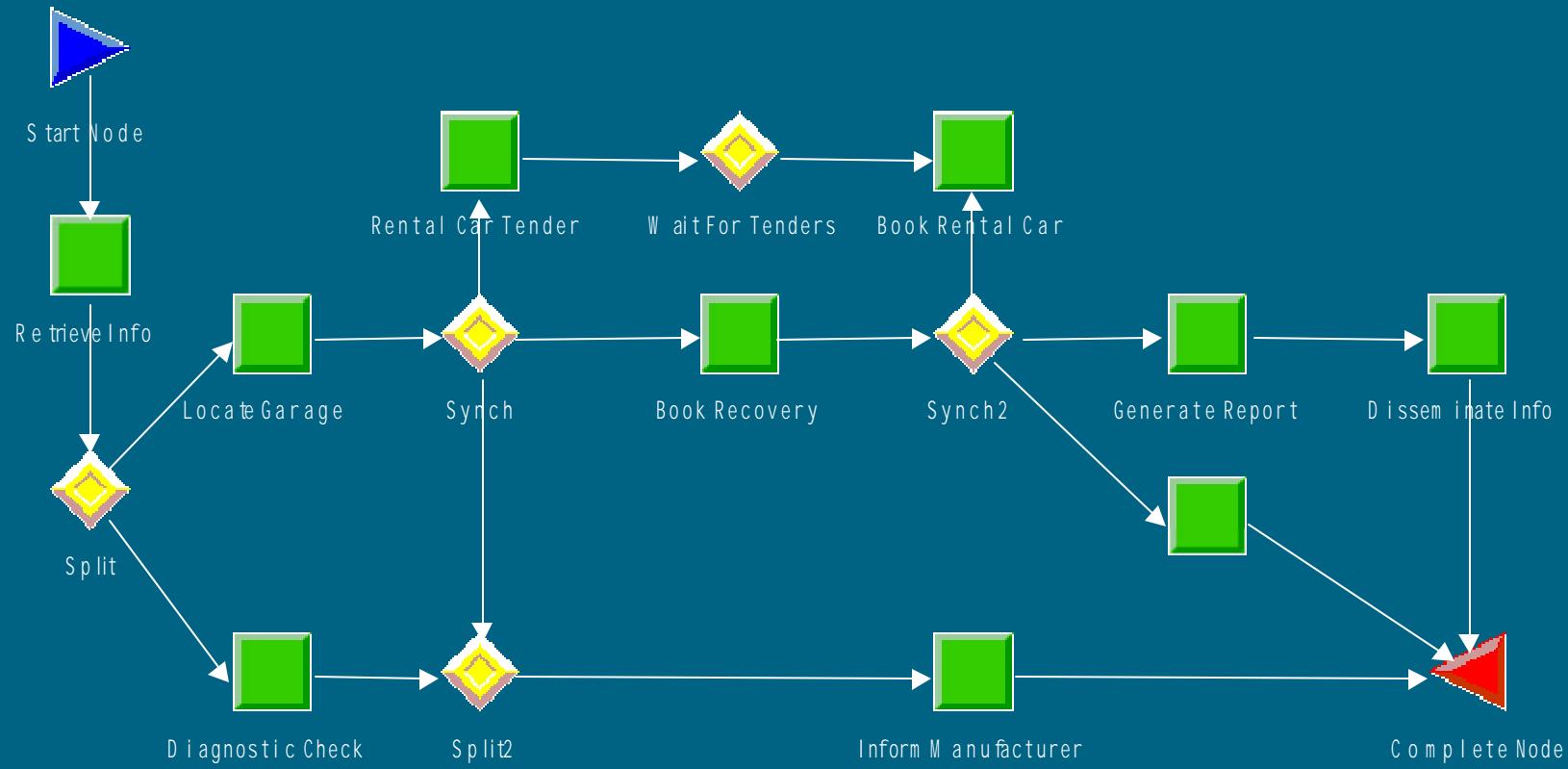


process development

What is a process?

- Defined with Process Designer
- Series of tasks (work nodes)
- Resource Rules specify who carries out work
- Decision points (Route Nodes)
- Work is automatically sent to recipient
 - Work List (web, email, custom client)
 - Adapter
- Processes can be...
 - Across Departments
 - Across the Enterprise
 - Across companies - include customers and suppliers

example process diagram

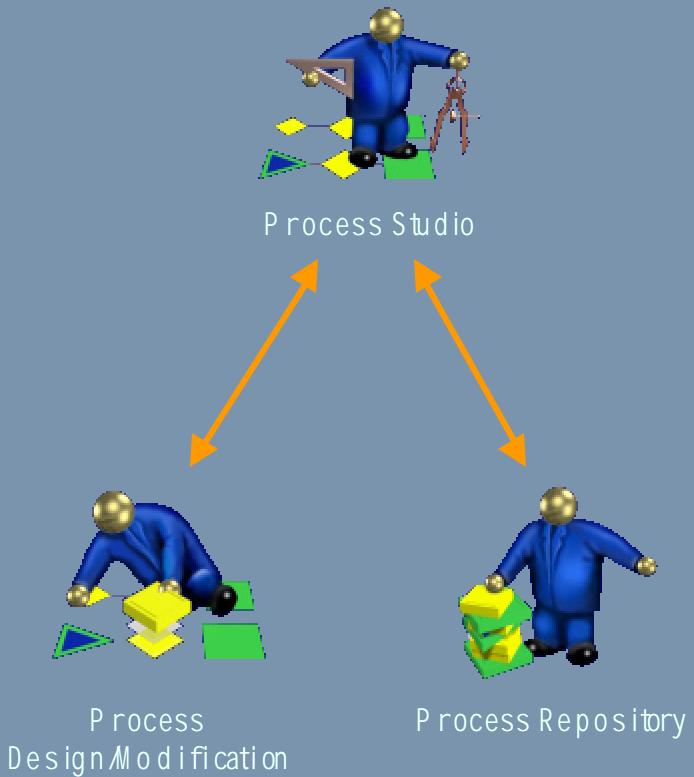


sub-processes

- Mark a process as a sub-process
- Need to specify the interface
 - Inputs
 - Outputs
- Allows a process to be used in other processes
- Provides structure to processes
- Reuse common procedures
 - Reusable business objects
 - Fast development times

process studio

- Provides management of...
 - Processes
 - Services
 - Rules
- Used by business analyst or manager
- Uses a Process Repository
 - Stores processes, services and rules
 - Provides version control

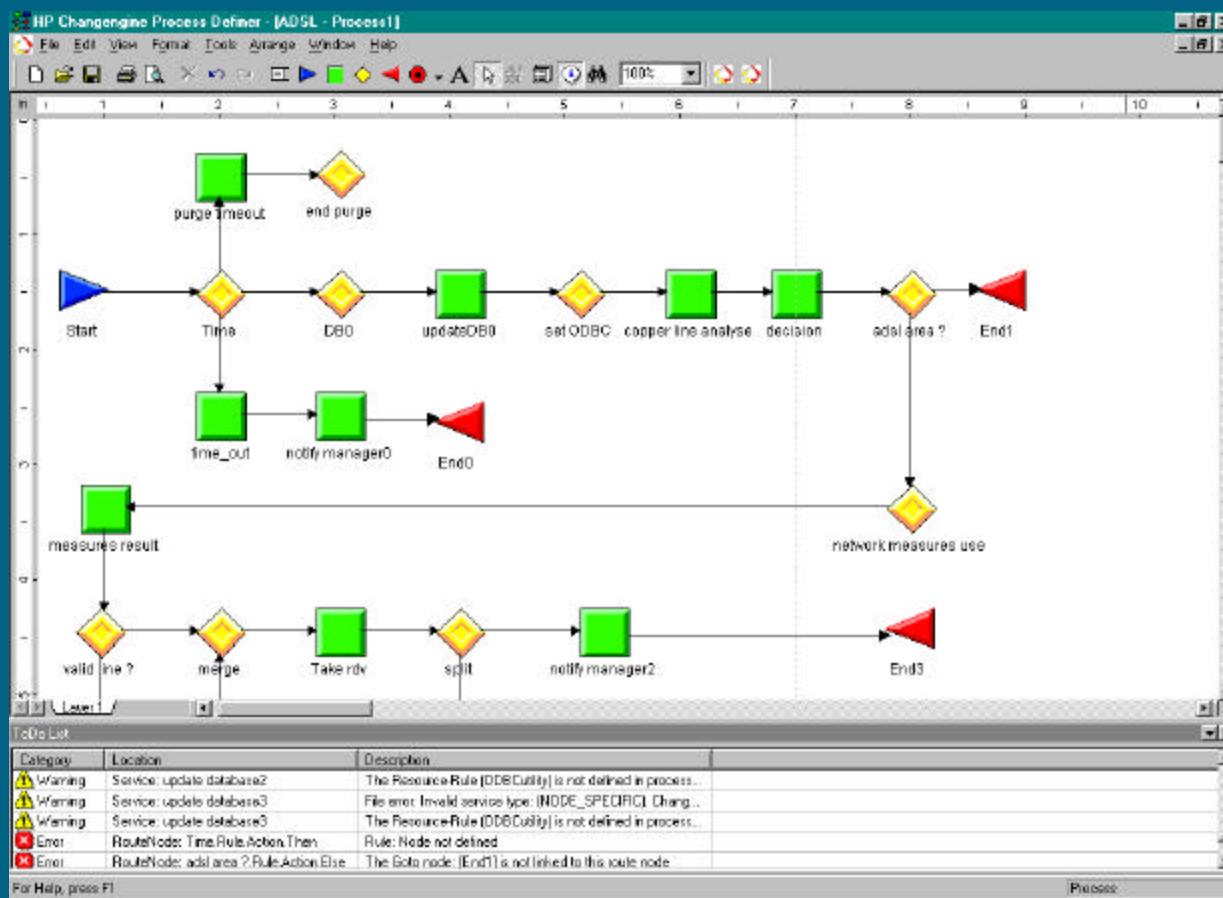


process definer

An industrial-strength process definer...

- A third-party application from Micrografx (GraphX)
- Supports off-line working
- Supports XML-Process - HP Process Manager's process definition language
- Service oriented
- Superior user interface

process definer - screen shot



services - in generic terms

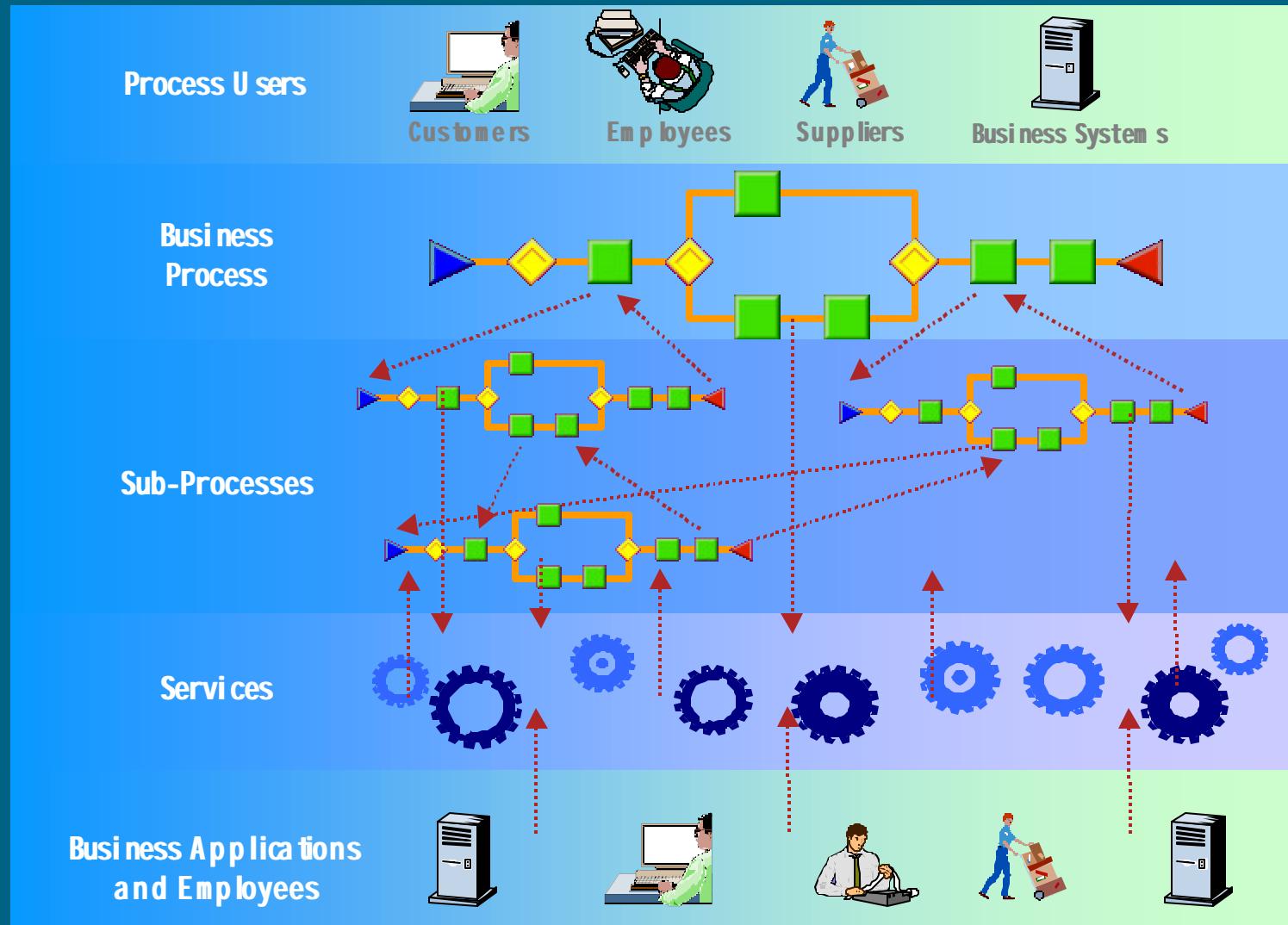
- Services are meaningful business functions
- Services have a clearly defined interface
 - Identity (name)
 - Inputs
 - Outputs (Results)
- Services are reusable
- Services can be compound

"One man's service is another man's process"

services - in hp process manager terms

- Services are reusable Activities
- Services can be constructed from ...
 - User based activities (W LS)
 - Subprocesses
 - Adapters
- Services can be predefined

service abstraction in hp process manager



resource allocation

- Powerful feature of HP Process Manager
- Complex resolution of work allocation
- Handled by the Resource Executive
 - Use one or more Resource Repositories
- Use existing corporate databases
- Handle complex work patterns:
 - Shift Work
 - Remote/Local Working
 - Load balancing
 - Escalation rules



Resource Executive



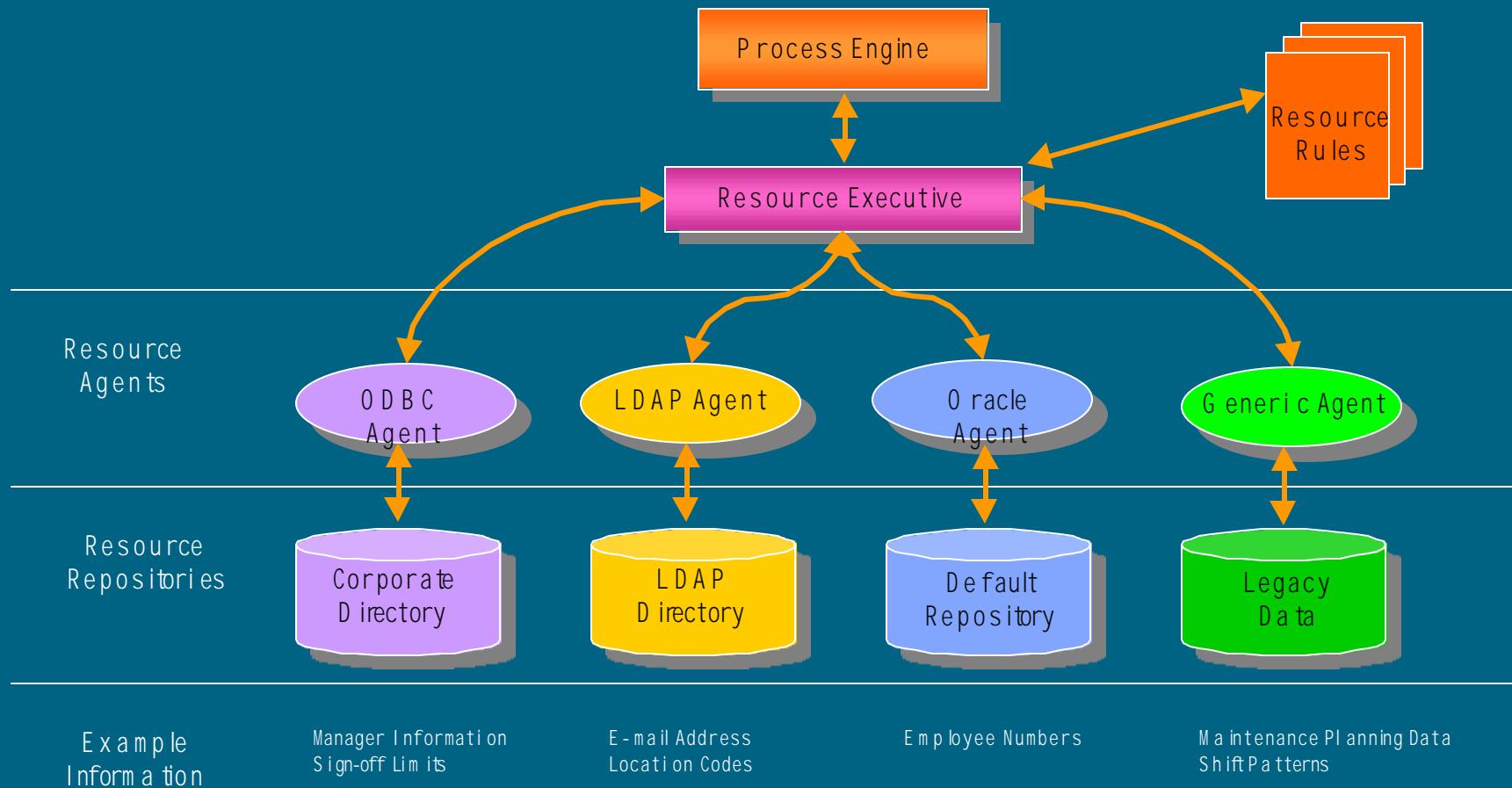
Resource Repository

Who performs a task?

A task can be performed by:

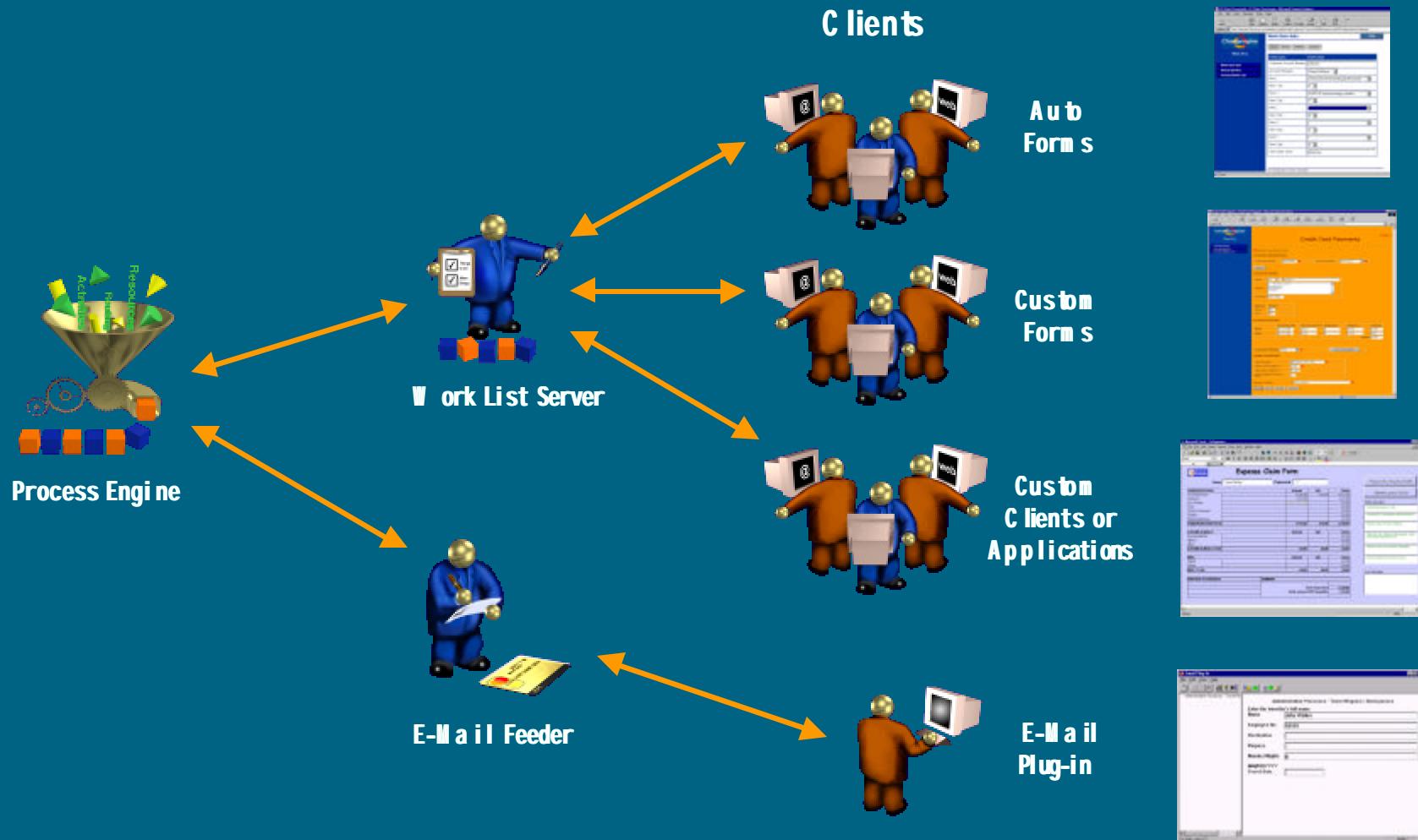
- A Person
 - Web Client
 - Email Client
 - Custom Client
- A Subprocess
- An Application
 - Automated Client that polls WorklistServer
 - Business Application via an adapter
 - ODBC Adapter
 - E-Mail Notification

multiple resource agents



hp process manager
clients

hp process manager 'clients'



screen shot - default form

EP Order Processing - EP Order Processing - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address: http://hppwdm15.pwd.hp.com/adminflow/cgi-bin/afwls.cgi?prof=C/sess=fe1405f4/queue=John032w/alker/item=8/cmd=item

Work item data

Help

Send Save Delete Cancel

Field name	Field value
Customer Account Number	CR1267
Account Manager	Susan Fletcher
Item 1	THC332 Environmental graviton panel
Item 1 qty.	2
Item 2	WRF142 Impulse energy nacelle
Item 2 qty.	1
Item 3	
Item 3 qty.	0
Item 4	
Item 4 qty.	0
Item 5	
Item 5 qty.	0
Total Order Value	\$1560.50

HP Changengine, Version A.03.00.01

Done Internet

The screenshot shows a Microsoft Internet Explorer window with a blue header bar. The title bar reads "EP Order Processing - EP Order Processing - Microsoft Internet Explorer". Below the title bar is a toolbar with standard buttons: Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Mail, Print, and Edit. The address bar shows the URL "http://hppwdm15.pwd.hp.com/adminflow/cgi-bin/afwls.cgi?prof=C/sess=fe1405f4/queue=John032w/alker/item=8/cmd=item". The main content area has a blue sidebar on the left labeled "Work Area" with three menu items: "Work item data" (which is selected and highlighted in blue), "Item properties", and "Personal Work List". The main body is titled "Work item data" and contains a table with "Field name" and "Field value" columns. The table includes fields for Customer Account Number (value: CR1267), Account Manager (value: Susan Fletcher), Item 1 (value: THC332 Environmental graviton panel), Item 1 qty. (value: 2), Item 2 (value: WRF142 Impulse energy nacelle), Item 2 qty. (value: 1), Item 3 (value: empty), Item 3 qty. (value: 0), Item 4 (value: empty), Item 4 qty. (value: 0), Item 5 (value: empty), Item 5 qty. (value: 0), and Total Order Value (value: \$1560.50). At the bottom of the page, it says "HP Changengine, Version A.03.00.01". The status bar at the bottom of the browser window shows "Done" and "Internet".

screen shot - custom form

Credit Card Payments - Credit Card Payments - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Picture Mail Print Edit

Address: http://ppwdn14.ppc.hpi.com/adm80v01/cgi-bin/vols.cgi?ord=1&vol=1&sess=601922/querry=JohnWalker&call=ex&team=1&cond=0

Help

Changengine
Work Area

Custom Boxes
Item properties
Personal WorkList

Customer Identification

Account Number: 8256300000 * Source System: Avon (AV) *

Search

Customer Details

Name: Mr M Cobson
Address: 1 Priory Lane
Burgess Hill
West Sussex
SUSSEX
PostCode: HE42 6BS

Service Status

Telco: AC
Cotv: AC

Account Summary

	Last Pay Date	Last Pay Amount	Delinquent	Balance	Payment
Telco	20-12-1998	14.99	0	14.99	14.99
Cotv	20-12-1998	14.99	0	14.99	0.00
				TOTAL	34.99

Payment Method: VISA * Get Credit Details

Credit Card Details

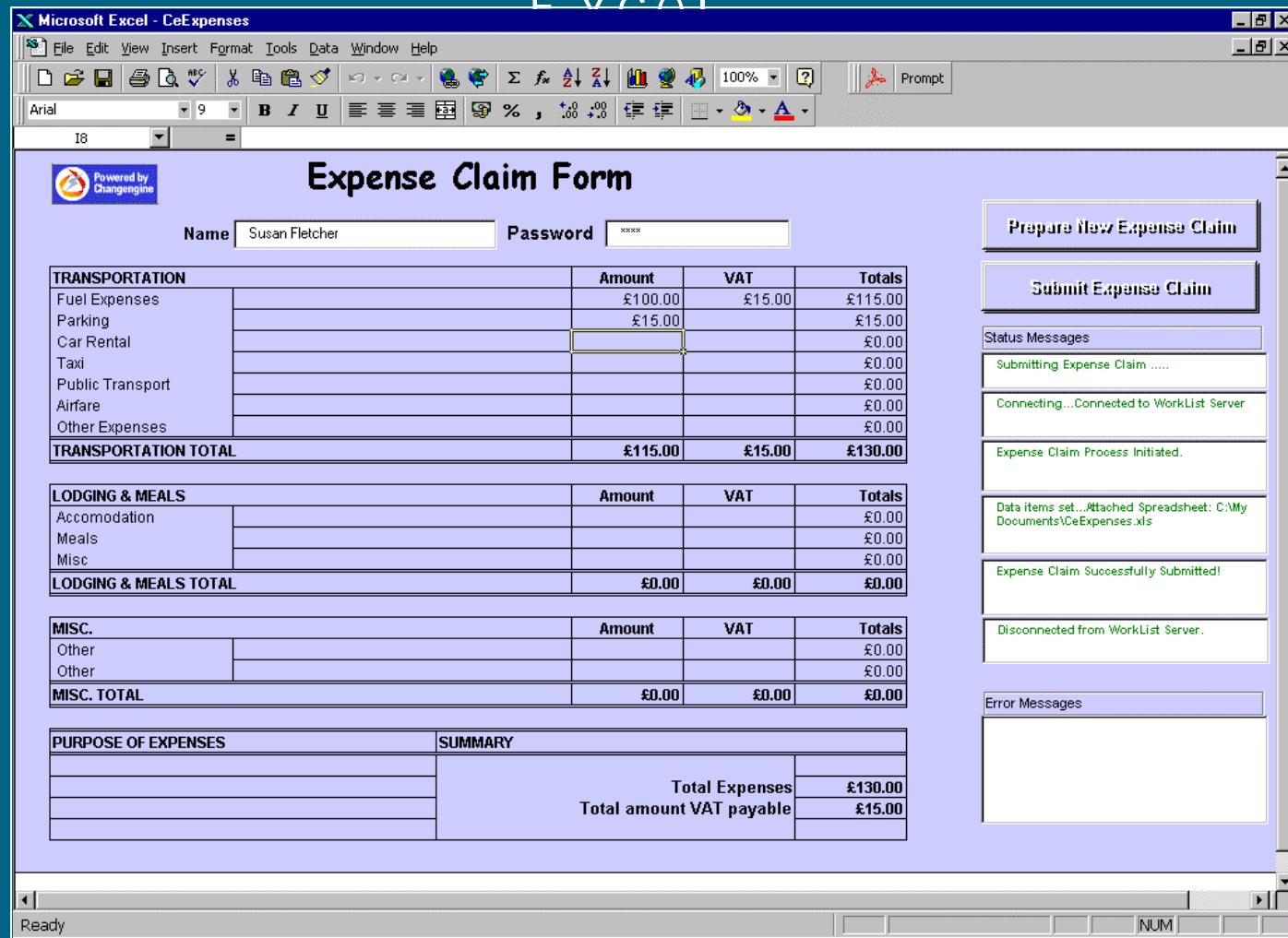
Card Number: 4539 6543 7363 7639 *
Expiry Date (MM/YY): 12/00 *
Valid From (MM/YY): 11/00
Issue Number (Switch only):

Operator Name: John Walker *

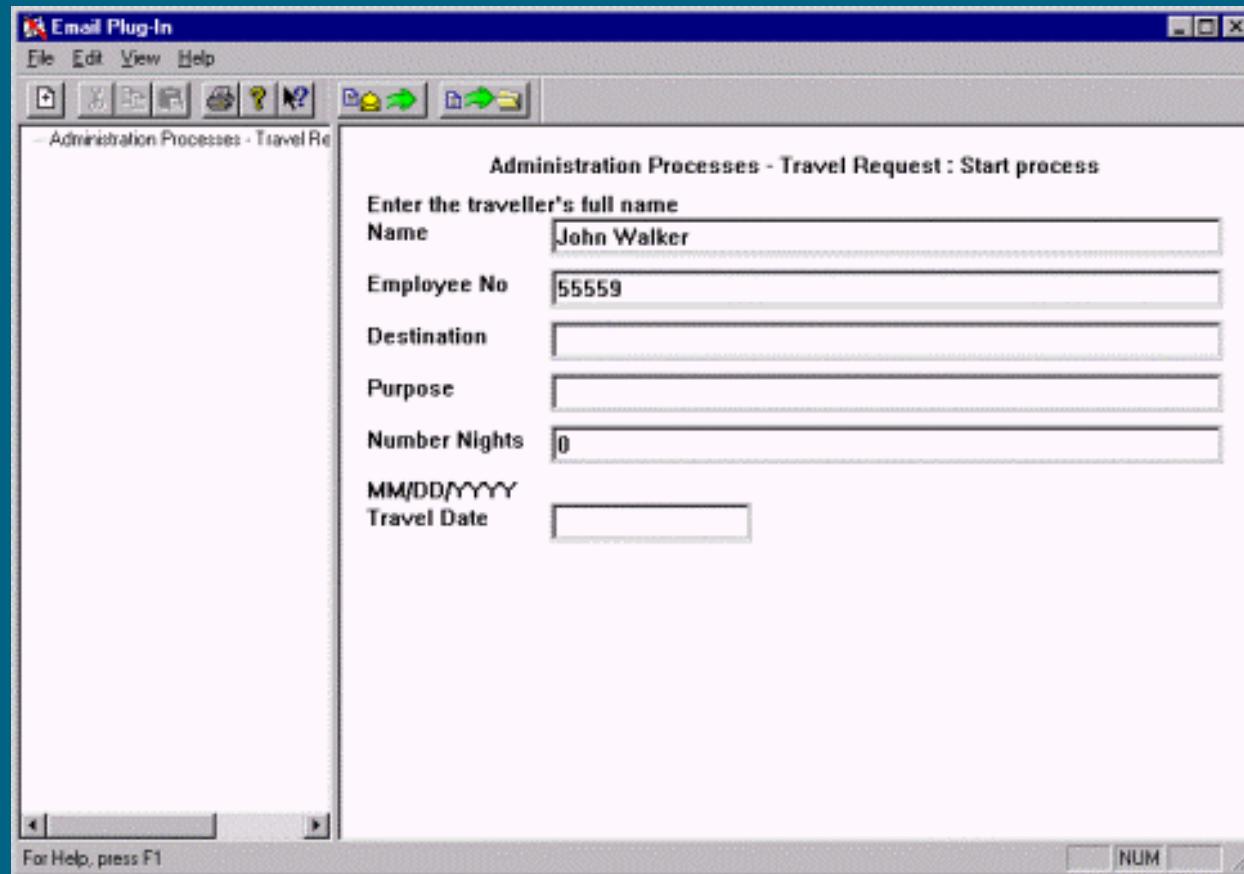
Send Save Delete Cancel

Internet Explorer

screen shot - custom client using Microsoft Excel

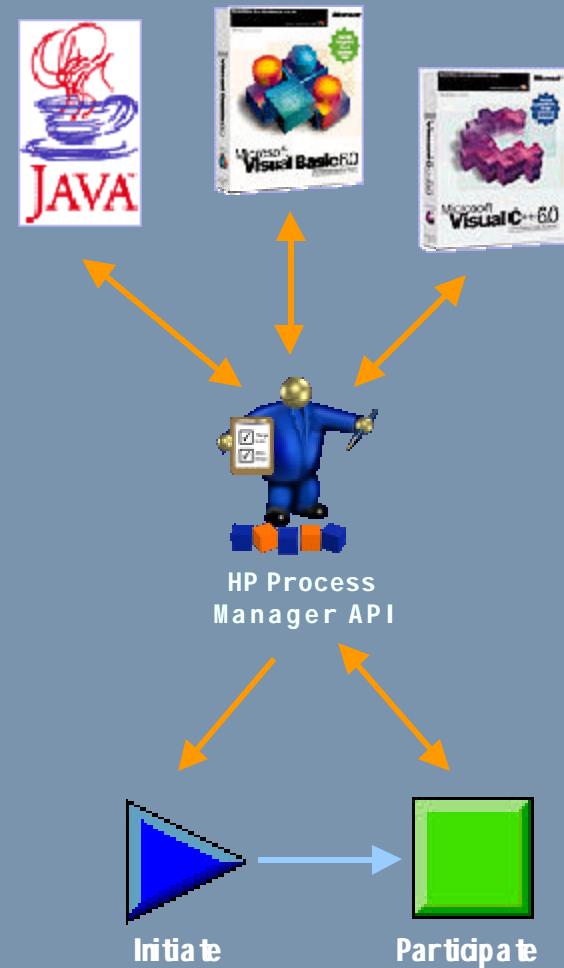


screen shot - e-mail plug-in



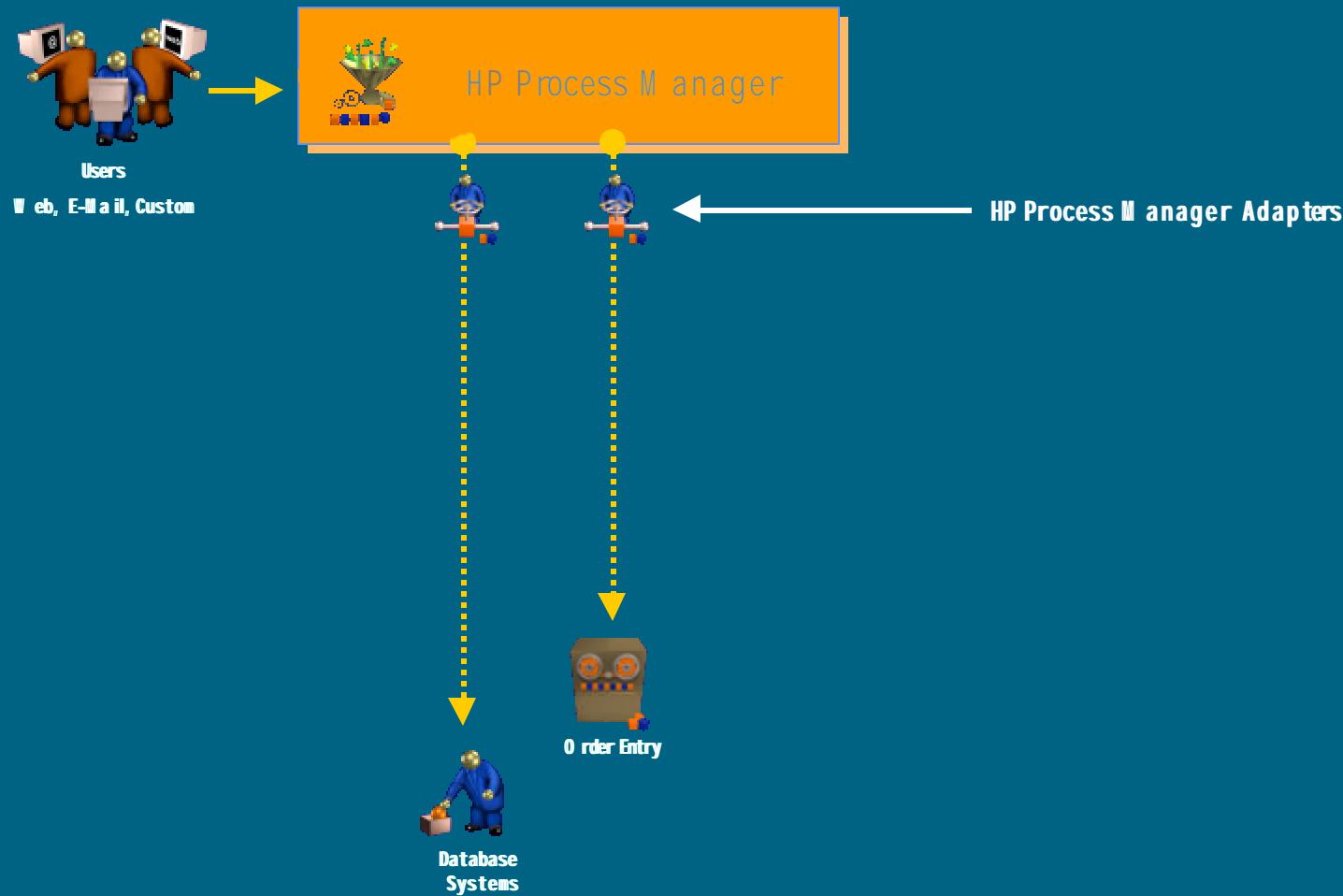
custom clients

- Use the HP Process Manager API
 - JavaBeans
 - COM Objects
- Supports many languages, including:
 - VisualBasic
 - Java
- Provides full WorklistServer access:
 - Connect
 - Start processes
 - Get work
 - Action work

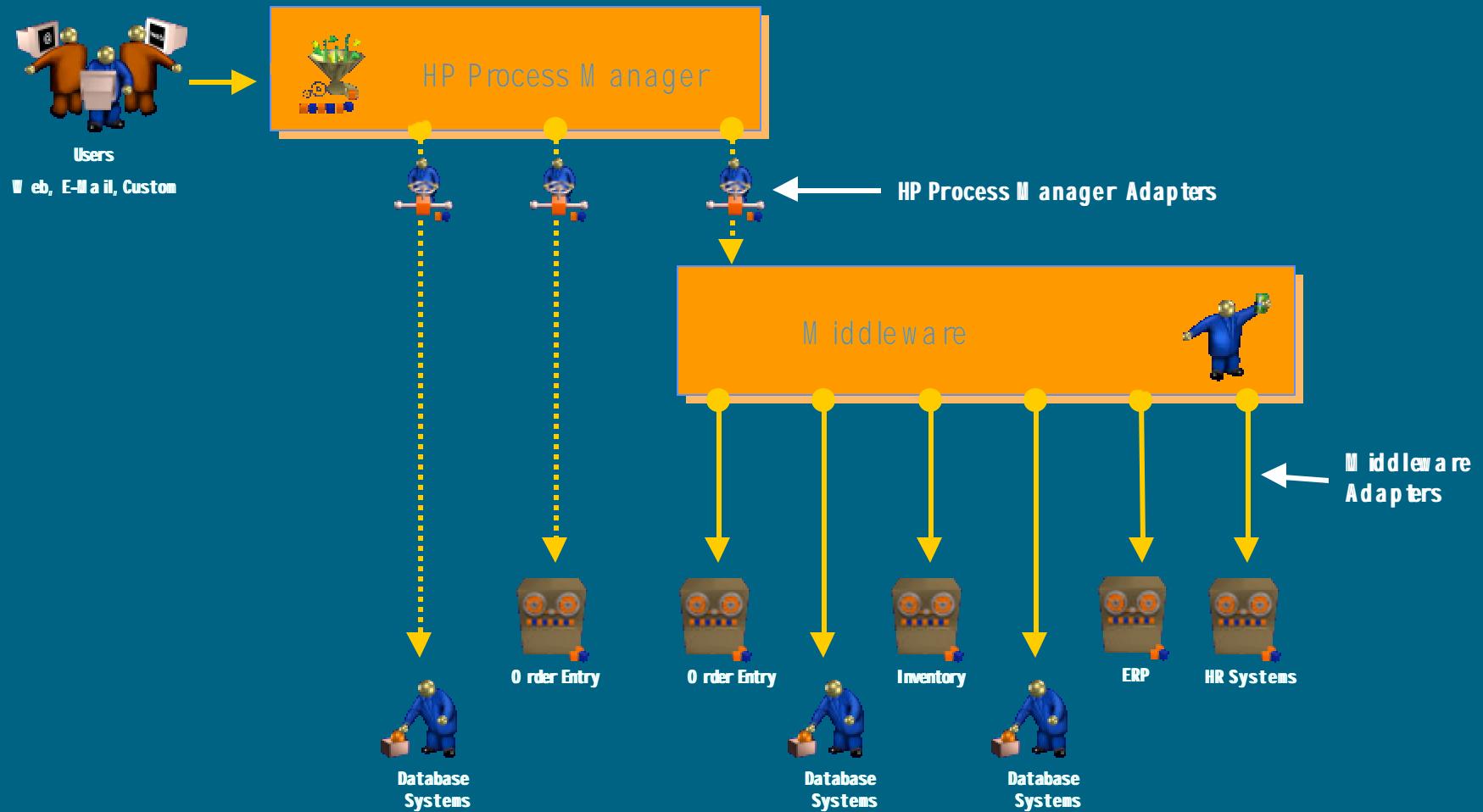


application integration

hp process manager integration - business applications/data



Middleware integration - business applications/data



integration with business applications/data

- Use strengths of Process and Middleware technologies
- High re-use of Application Adapters
- Leverage investment in existing middleware infrastructure
- Makes end-to-end process development even quicker
- Referred to as Enterprise Application Integration (EAI).

hp process manager 'adapters' - ODBC adapter

- Access application Data from within a Process
- Retrieve application Information
- Update application information
- All major databases support ODBC
- Available on both Windows NT and HP-UX
 - Native to Windows NT
 - On HP-UX use OpenLink

hp process manager'adapters' - emailnotifieradapter

- Sends out 'text message' over email
- Useful for notification messages
 - No reply is expected
 - If want reply, use Email Feeder instead
- Examples:
 - Send message to manager about work
 - Send message to suppliers
 - Send Acknowledgements to customers

summary

- Powerful environment for rapidly creating process centric solutions
- High level process definition
- Sophisticated resource allocation
- Client/user interface of choice
- Leverage existing applications
- Measure, monitor and incrementally improve end-to-end business processes
 - Behind Web-sites
 - Behind Call Centres
 - Provisioning of goods/services



www.hp.com/go/e-process