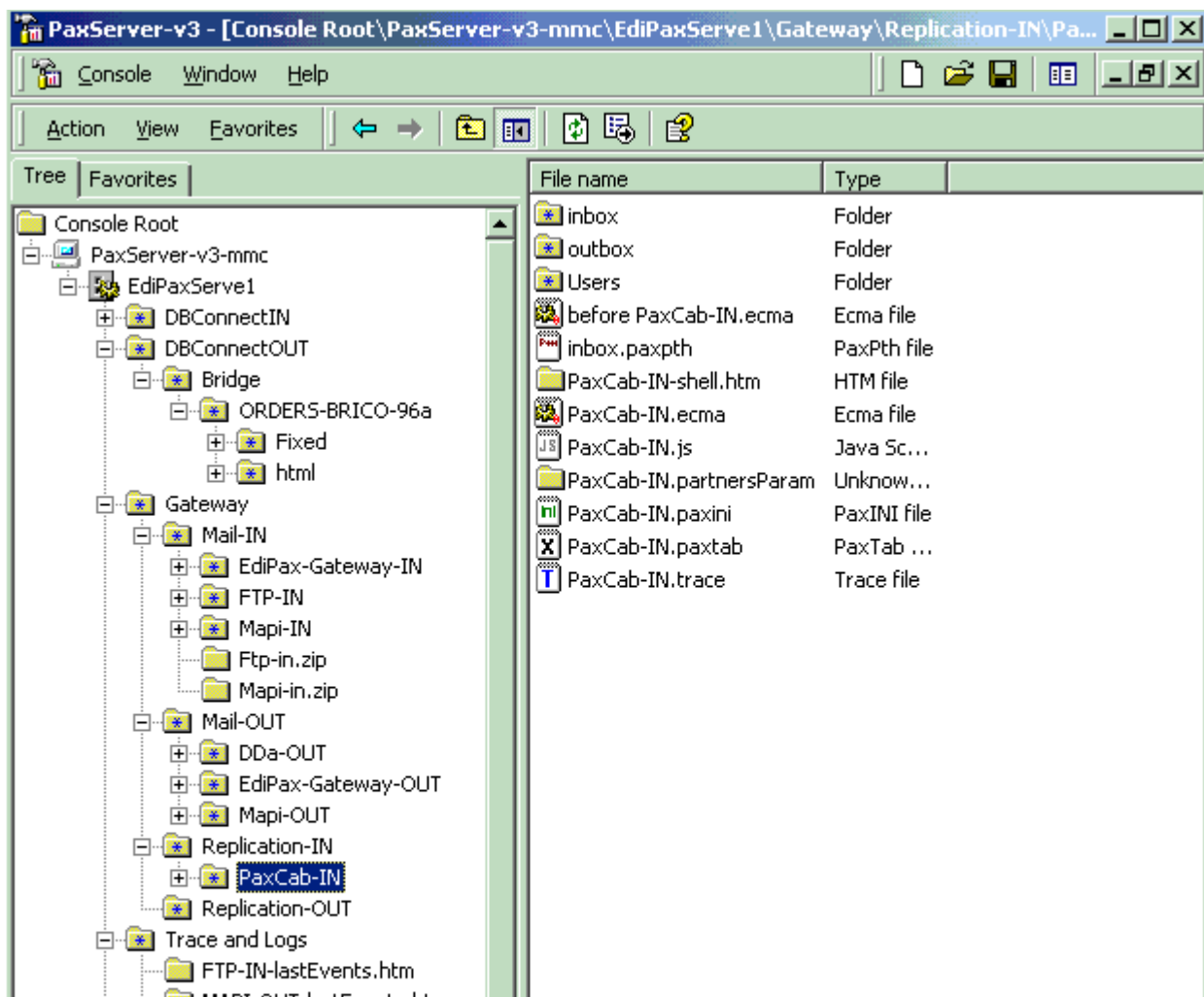


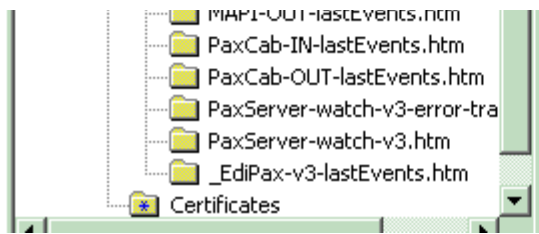


PaxServer - Introduction

PaxServer-v3 is the kernel of the PaxServer Family for Windows (NT4, 2000, XP and other Microsoft "NT Technology" based products). Features :

- plug and play software - each queue is a totally independent process
- object designed, with methods, events, triggers and actions
- 24/7 flow - will not stop on first error
- strong, extended error recovery and objects recycling procedures
- a object (message) flow handling server designed to support high volume, large community document exchange through (secure) internet or intranet infrastructure
- Microsoft Management Console snap-in





System - Trace

The PaxServer family can handle many thousands of messages perday. We did pay a particular attention to trace, logs, activity report - internet and intranet

Servers: [local] Result set size= 50 Select Expand tree Document

Daily : 11/12/2002 00:00 23:55 [Last hour] [All] [Errors]

Monthly : 2002 11 [Per Day] [Total]


Detail - [Search Now] [Archive selected] [Export selected]

creationDate	relationId	event	message	objectId	action
20021112094919	MAPI-OUT	onDraftObject	Message posted	0_20021112094919593	newObj
20021112094919	MAPI-OUT	onNewObject	incoming object	0_20021112094919468	newObj
20021112094919	MAPI-OUT	onNewObject	incoming object	0_20021112094919593	newObj
20021112094903	MAPI-OUT	onInObject	1 object created.	0_MAPI-OUT-Belgacom-BRICO-seq=064352-20021112094903265	split
20021112094903	MAPI-OUT	onInObject	1 object created.	0_MAPI-OUT-Belgacom-BRICO-seq=064351-20021112094903171	split
20021112094005	EdiPax-Gateway-OUT	onNewObject	incoming object	0_20021112094003171	newObj
20021112094003	EdiPax-Gateway-OUT	onInObject	1 object created.	0_EdiPax-Gateway-OUT-[local]-seq=041765-20021112094002937	split

System - Activity

System - Activity Log (internet)



Time	Action	Status
11/11/2002 8:25:16 PM	Server Queue Watch - ok 	success - no error

PaxServer v3 - Queue event list per relation - latest items

FTP-IN

Date	actionParam	relationId	message	user	action
11/11/2002 6:20:12 PM	BE-MED002359	FTP-IN	object found	BE	inObject
11/11/2002 12:40:08 PM	BE-MED002358	FTP-IN	object found	BE	inObject
11/11/2002 8:10:07 AM	BD-MED002357	FTP-IN	object found	BD	inObject
11/11/2002 6:40:07 AM	BE-MED002356	FTP-IN	object found	BE	inObject
11/8/2002 6:20:10 PM	BE-MED002355	FTP-IN	object found	BE	inObject
11/8/2002 3:20:04 PM	BE-MED002354	FTP-IN	object found	BE	inObject

Done

Date	actionParam	relationId	message	user
11/12/2002 12:46 AM	ORDERS-2200301001829-8711347900015-6492-2200301005437/33048-20021112:070107	MAPI-OUT	Message posted	Belgacc USER1
11/12/2002 12:46 AM	ORDERS-2200301001829-8711347900015-6492-2200301005437/33048-20021112:070107	MAPI-OUT	Message posted	Belgacc USER1
11/12/2002 12:45 AM	ORDERS-2200301001829-5443391098900-5882-2200301003037/69638-20021112:070106	MAPI-OUT	Message posted	Belgacc USER1
11/12/2002 12:45 AM	ORDERS-2200301001829-5440312289200-7172-2200301005635/46909-20021112:070105	MAPI-OUT	Message posted	Belgacc USER1
11/12/2002 12:45 AM	ORDERS-2200301001829-5443391098900-5882-2200301003037/69638-20021112:070106	MAPI-OUT	Message posted	Belgacc USER1
11/12/2002 12:45 AM	ORDERS-2200301001829-5440312289200-7172-2200301005635/46909-20021112:070105	MAPI-OUT	Message posted	Belgacc USER1

System - Activity Watch

PaxServer watches - Operators will find a perfect tool to check objects - where ? when ? how many ?

DB In queue	Status	Sched.	Arch.	Trace	Inbox	Data	Today	Error	Outbox	run Now!!!	run every : 10
INVOIC-ETIS-Belgacom-IN-v1 (fixed)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
INVOIC-ETIS-Belgacom-IN-v1 (odbc)	Started	no	yes	no	0	0	1369	81	0	run Now!	clear Log >
PRICAT-ELISE-96a (fixed)	Started	no	yes	no	NA	0	0	0	NA	run Now!	clear Log >
PRICAT-ELISE-96a (odbc)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
Partners-BRICO-96A (fixed)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
Partners-BRICO-96A (odbc)	Started	no	yes	no	NA	0	0	0	NA	run Now!	clear Log >
X400-					run	

System - Administrator Task Watch

Administrator tasks, scheduled periodically - Maintaining 1000s and 1000s of files coming from / posted to 100s of partners is not an easy task. Many kernel processes will work in background to help operations. We offer efficient tools to check server activity from the administrator point of view.

The screenshot shows a window titled "Pax-Family-v3-Watch-Utility" containing a table of tasks. The table has columns for task name, status, scheduling, architecture, tracing, and various data/error/outbox counts. Below the table is a "remark" section with instructions on how to interpret "dtd" files and how to refresh the page.

admin-watch	Status	Sched.	Arch.	Trace	Inbox	Data	Today	Error	Outbox	run Now!!!	run every : 200
LogConvert (fixed)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
LogConvert (odbc)	Started	no	yes	no	NA	NA	0	0	NA	run Now!	clear Log >
PaxServer-maint-v3 (fixed)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
PaxServer-maint-v3 (odbc) (kernel mode)	Started	no	yes	no	0/NA	0	0	15	0	run Now!	clear Log >
PaxServer-watch-v3 (fixed)	Stop	no	yes	no	NA	NA	NA	NA	NA	run Now!	clear Log >
PaxServer-watch-v3 (odbc)	Started	no	yes	no	0	0	0	0	0	run Now!	clear Log >

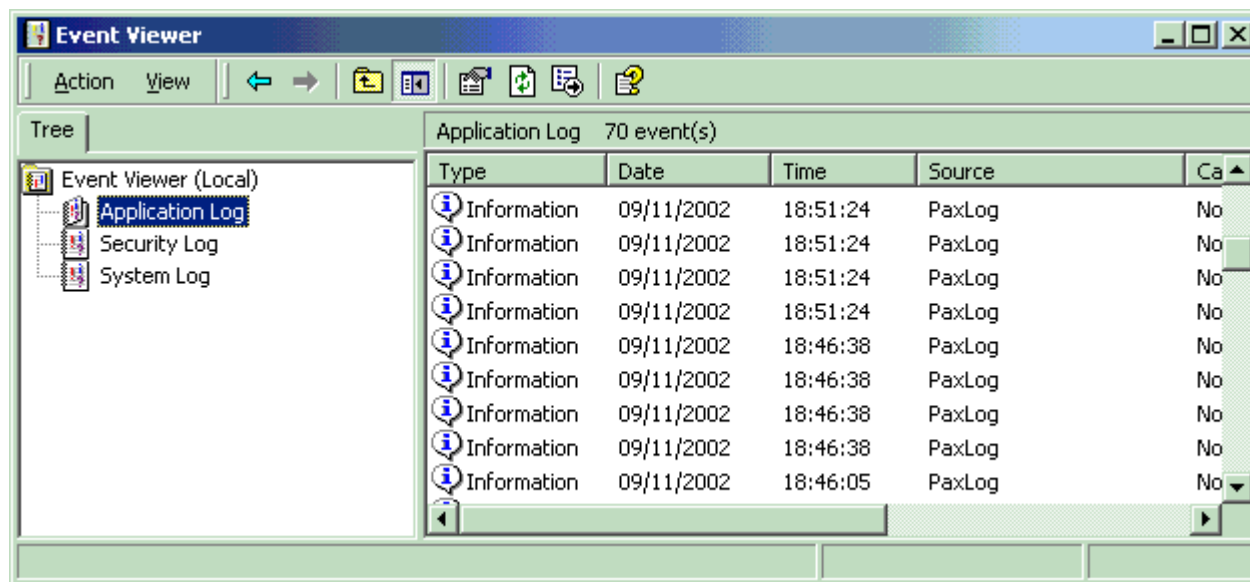
!!! remark :

- You may sometimes notice "dtd" (non data) files inside the queues ... that is due to a limitation of MS Explorer model ...
With Internet Explorer 5, you can display the content of structured file but you must have the dtd file available in the path ...
=> just ignore them !!!
- Reload your page to update the status (press F5).

System - Notification and alert

On administrator pre-defined events, the system can

- update NT Event viewer
- email administrator
- update WWW log



Architecture - Xml as native engine

EdiPax has been among the first in Europe to work on SGML/XML project sponsored by the former DGIII. We have implemented our own XML kernel beside market standard tools like XmlDom. Advantages are many :

- server parameters, internal data and log files are all XML format
- better control on project delivery: we do master the source and are able to solve bugs if any
- better performance: our libraries are server minded

```

<?xml version="1.0" ?>
<!-- edited with EdiPax - http://www.edipax.com -->
<?xml:stylesheet type="EdiPax Server Messages" href="EdiPaxRef.css"?>
- <Xml_path>
  <title>(re) Route Inbox to</title>
- <rootpath>
  <proxy />
- <a urn="target-document" class="mailto">
  - <mailto>
    <item class="userId" id="userName">paxpop</item>
    <item class="password" id="password">paxpopedipax2002</item>
    <item class="binary" id="listOnly">1</item>
    <item class="path" id="attachTargetPath">d:\edipaxv3\p_v3\</item>
    <item class="binary" id="downloadMessages">0</item>
    <item class="binary" id="deleteMessage">0</item>
    <item class="binary" id="saveBody">0</item>
    <item class="dns" id="serverDns">trutnov1.edipax.com</item>
    <item class="ipPort" id="popPort">110</item>
    <item class="integer" id="maxMessages">9</item>
  </mailto>
  </a>
  <useProxy>0</useProxy>
- <init>
  <display>0</display>
  <showConditionDiv>0</showConditionDiv>
</init>
  <useProxy>0</useProxy>

```

Architecture - Replication

The EdiPax unique replication process is designed to save on installation, stress and money :

- replication versus backup : no need administrator beeing present to restore replication - the replication is always up and running
 - save on (very) expensive "fault tolerant" hardware. Although we recommend to buy "server quality" hardware, hardware is not the only issue when talking "fault tolerant" : software and telecom also matter ! With our solution, there is no real need to buy "very" expensive machine as all EdiPax servers will be kept at same "data level" through the replication process.
 - use full advantage of "Network Load Balancing" and "DNS host" to share data and IP volume on several machines and telecom equipments
 - up/down sizing is made easy - just add/remove a machine
 - close to 100% service level : we install 3 machines on 2 different sites. Several machines working in parallel will guarantee higher hardware AND software availability
 - simplified support and maintenance : administrator can intervene on 1 machine without interrupting the service

Architecture - Queues

Individual queues to process or reprocess objects. Objects will be moved from queue to queue, through intranet or internet, up to process completion / object transformation has been completed.

Although not illimited, the number of queue can be quite large

Administrator can fine tune queue activity through timer and event management.

Administrators can search queues and locate "peculiar" objects.

Architecture - Events, Objects and Methods

The server kernel is build upon objects, events and methods. The server administrator can define :

- how to identify an object
- what event to check and what trigger to activate on any given event
- what action tro take on event

Events, objects, and methods : a powerfull customisation tool ...

The screenshot shows the 'Trace Definition' application window. At the top, there's a title bar 'EdiPax- Pax-Family-v3-Trace-def'. Below it, the main title 'Trace Definition' is displayed in a large, stylized font. There are navigation buttons (back, forward, close) and a 'Servers:' dropdown menu set to '[local]'. Below that, there's a 'Tree:////' label and checkboxes for 'Select', 'Expand tree', and a 'Result set size=' field set to '20'. There are also 'View' (Short, Full) and 'Refresh' (Auto, Event, Action) options. Three buttons are present: 'Add new trace', 'Delete selected', and 'Refresh content'. The main area contains a table with the following columns: Server, Tree, Branch, Relation, Relation Class, User, Event, Action, Action Class, and Action Parameter.

Server	Tree	Branch	Relation	Relation Class	User	Event	Action	Action Class	Action Parameter
[local]	_Gateway	Mail-IN	EdiPax-Gateway-IN	Users		onBefore Complete	merge	kernel	merge Attachment
[local]	_DBConnectIN	Bridge	INVOIC-ETIS-Belgacom-IN-v1	Odbc		onComplete			
[local]	_Gateway	Mail-IN	FTP-IN	Users		onComplete	saveLog	kernel	
[local]	_DBConnectIN	Bridge	INVOIC-BRICO-96a	Fixed		onComplete	rename	kernel	
[local]	_DBConnectIN	Bridge	INVOIC-BRICO-96a	Fixed		onComplete	archive	kernel	
[local]	_DBConnectIN	Bridge	PRICAT-ELISE-96a	Fixed		onComplete			
[local]	_DBConnectIN	Bridge	INVOIC-ETIS-Belgacom-IN-v1	Odbc		onComplete	archive	unattended	
[local]	_DBConnectOUT	Bridge	ORDERS-BRICO-96a	Fixed		onComplete	merge	kernel	merge OnUNB
[local]	_DBConnectOUT	Bridge	ORDERS-BRICO-96a	Fixed		onComplete	archive	kernel	
[local]	_DBConnectOUT	Bridge	ORDERS-BRICO-96a	Fixed		onDuplicate	saveLog	kernel	
[local]	_Gateway	Mail-IN	FTP-IN	Users		onError	odbcLog	log	
[local]	_Gateway	Replication-OUT	PaxCab-OUT	Users		onError	email	notify	[support]
[local]	_Gateway	Mail-IN	FTP-IN	Users		onError	xmlLog	log	
[local]	_Gateway	Mail-IN	FTP-IN	Users		onError	saveLog	kernel	

Detail Screen

This screenshot shows the top portion of the 'Trace Definition' application window, including the title bar 'EdiPax- Pax-Family-v3-Trace-def' and the main title 'Trace Definition' in a large, stylized font.

