

## *Extend the Monitoring of Distributed Applications with Operations Manager 2007 to Heterogeneous Environments with Jalasoft Xian Io.*

Determining the origin of performance problems in distributed systems requires end-to-end monitoring of all components, since a bottleneck or problem may occur in any of the elements of the data flows. Extending the new Distributed Applications feature of Ops Mgr 2007 to network devices and UNIX servers makes Xian Network Manager Io a powerful and unique tool which enables system administrators to grasp control of their infrastructure.

**T**he Distributed Applications feature, one of the new features that Microsoft is introducing with Operations Manager 2007, enables an end-to-end service monitoring. IT administrators have new tools to face the distributed nature of many applications nowadays, where traditional event and performance monitoring systems are no longer sufficient.

The Distributed Application Designer allows administrators to graphically define components which make up a service. Underlying is Operations Manager System Definition Model (SDM).

### **Heterogeneous Environments**

Jalasoft provides administrators with the functionality to extend the monitoring of Distributed Applications in Operations Manager 2007 to environments where this end-to-end *heterogeneous environment* monitoring is critical.

Xian Network Manager Io performs a full device discovery of network devices and/or UNIX servers and their elements such as interfaces, ports, CPUs, memories, processes, etc. The discovered devices and their elements become

available on Ops Mgr 2007, for the creation of a Distributed Applications Diagram.

The functionality provided by Xian Network Manager Io to extend Distributed Applications in Operations Manager is due to thousands of Active monitors which supply with continuous information about the elements being monitored. Xian Network Manager Io has a native integration with Operations Manager 2007 through Microsoft's SDK.

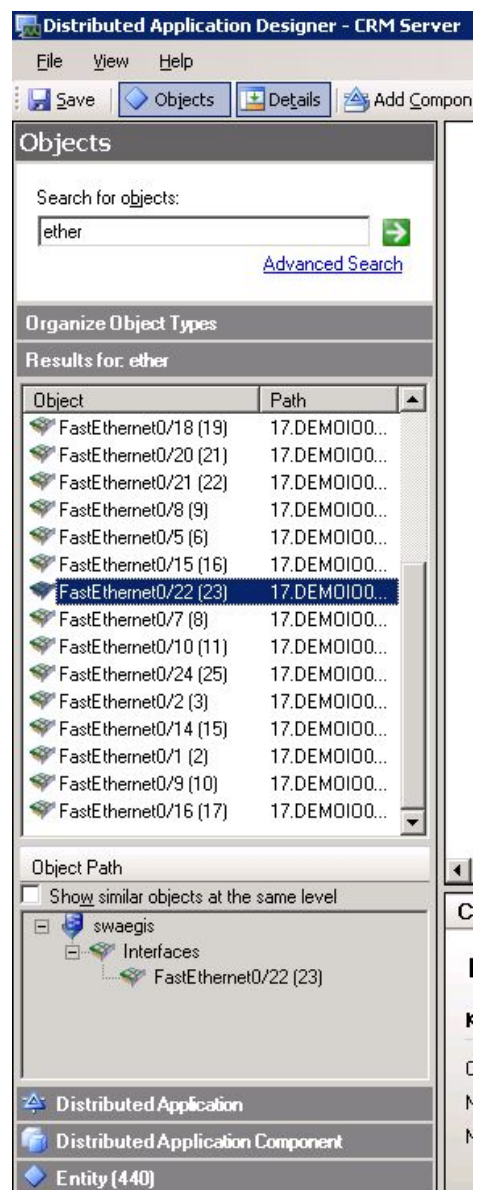
## A Sample Scenario

In order for administrators to understand the power of monitoring Distributed Applications using the functionality provided by Xian Io, we are going to set up a Distributed Application that will combine the components below:

- A windows server.
- A CRM windows server, monitored through SNMP.
- Some processes on a Linux machine.
- Two interfaces on a switch.

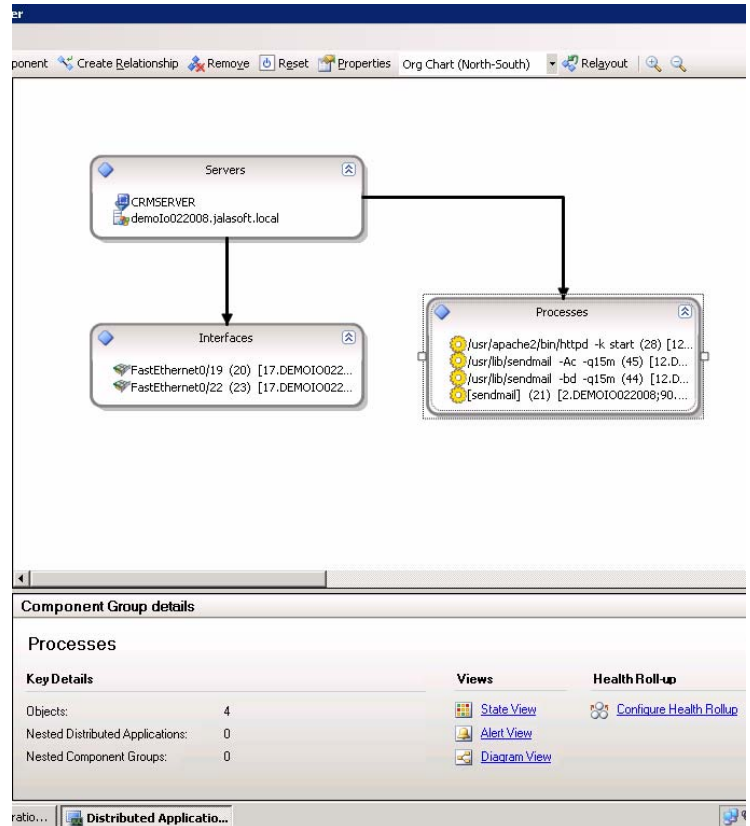
Creating a DA is very simple! In the authoring section of Operations Manager 2007 go to 'distributed applications' and chose 'create new distributed applications' (blank) from the actions pane. Then add different components with the help of the 'add component' button in the toolbar. In the add component window be sure you select the right objects. If you are not sure, just select all, but note that it might delay a bit the object search later.

Once you have the different components ready, you need to search for the specific objects that you want to add in them. In screenshot beside, you can see how to search for objects. After finding your objects, drag and drop them to the desired component. This shows directly the strength of DAs in Operations Manager 2007, you are not limited to the whole switch, Linux or Windows server. You can add specific objects like interfaces, processes, disks etc to your own created DA and many of these objects are provide by Jalasoft Xian Network Manager Io.



Once you have added your preferred objects you can enhance them by creating relationships with the 'Create Relationship' button in the toolbar; finally, click 'save' and your customized Distributed Application will be ready.

In screenshot beside you can see how it all looks like once you have added all the different components and objects. Since this is the *Design view* you will not be able to see any alerts. For this you need to save it and go back to the monitoring section. If you then go to the distributed applications section, you'll be able to see your newly created DA and with a right click and the option Open, you will see several options: Alert View, Diagram View Event View, Performance View and State View.



The '*Diagram view*' gives you a graphical view of the DAs structure and shows with one look where the critical alerts are.

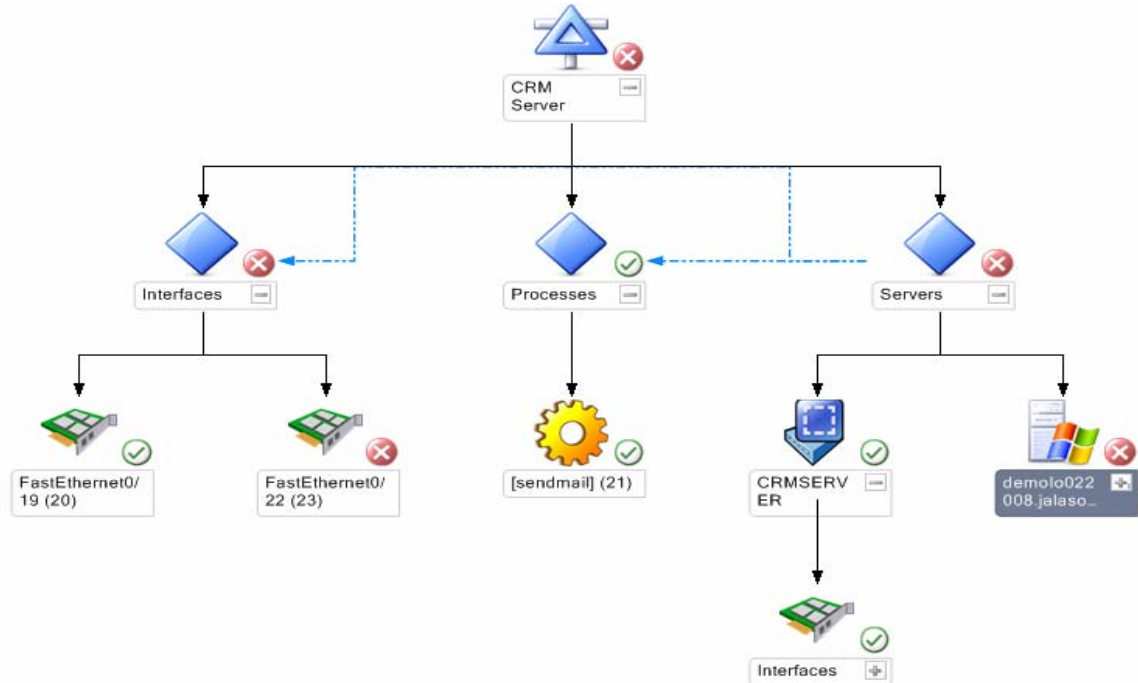
The *Alert View* shows all the current alerts within the DA and a click on any of the alerts give you full information.

The *Performance View* shows you all the counters collected of the different objects within your DA. This is a fast way to see in a graph of the traffic going through an interface or response times of a server.

Another view available is the *Health explorer view*, which is very useful if you want to have a quick idea on the DA's health. Also you will be able see a timetable which shows when severity levels changed.

A very fast root cause analysis is possible with Xian lo, thanks to the distributed applications feature in Operations Manager 2007. Let's assume that one Ethernet interface has a problem and is affecting your CRM DA application. As you can see in the diagram below the DA has a *critical health status*, but if we look at the actual CRM Server, it shows that it is healthy; however, the DA clearly alerts that there is a problem with one interface and even shows that something is not properly functioning on the windows server. With the information provided by the DA and the objects provide by Xian lo, there is no need to guess anymore

where the problem lies; instead, you are able to take action immediately.



Xian Network Manager Io is an easy to install addition for Microsoft System Center Operations Manager 2007 and will provide you with many more features for monitoring your Network, UNIX and VMWare environment through Operations Manager. Deployment is quick and easy and configuring monitoring policies can be done in a matter of minutes.

If you wish to tap into the power that Distributed Applications with Xian Io can give you or you want to test network and UNIX monitoring with Xian Io in general, feel free to download our Xian Network Manager Io evaluation version from our website.

**More Information:**

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