

## **1.1 Resolution of duplicate node registrations within ePO server**

### **3.1.1 Description and Priority**

Some nodes get registered twice in the ePO database. ePO does not handle the resolution of these duplicate registrations by itself, resulting in failed communication between the ePO server and one of the duplicate nodes. In addition, duplicate objects cannot be properly placed into an appropriate group based on the IP range and the result node objects end in the global lost and found group. To resolve this problem the ePO administrator must manually search the directory, find duplicated pairs, determine the inactive object, delete the inactive object and then move the active object into the appropriate group/site.

### **3.1.2 Stimulus/Response Sequences**

The feature must be activated/configured through the web interface. Once initiated, the administrator will configure how often the scan for duplicate objects will be executed. During the scan process duplicate leaf node objects pairs are detected, then the system deletes the inactive object and moves the active object into the appropriate group/site based on the objects IP address.

## **1.2 Scheduled purging of all objects from a particular group**

### **3.2.1 Description and Priority**

Some computers may register with the ePO server while connecting to the corporate network via RAS. As a result the RAS assigned IP address may not be used to place an object into an appropriate site. Instead node with RAS assigned IP address are placed into specially defined RAS group. This RAS group needs to be emptied at the scheduled intervals so that that computer object can be properly assigned to the appropriate group/site the next time it is connecting to the corporate network.

### **3.2.2 Stimulus/Response Sequences**

The feature must be activated/configured manually through the web interface. Once initiated, it will present a list of all available groups/sites as defined in the ePO database. Then administrator can select one or more groups/sites and the desired schedule for when for the objects will be purged from the defined list of groups/sites.

## **1.3 Enforcement of customizable events retention policy**

### **3.3.1 Description and Priority**

This feature allows automated deletion of obsolete and irrelevant ePO events in order to control database growth.

### **3.3.2 Stimulus/Response Sequences**

The feature must be activated manually through the web interface. Once initiated, it will present a list of types of events that can be deleted and a choice of age threshold of events to be deleted. Once the ePO

administrator makes the choices and proceeds, the feature will automatically delete all ePO events matching the administratively configured criteria.

### 3.3.3 Functional Requirements

REQ-1: This feature deletes all orphaned ePO events. Orphaned events are those that do not have a corresponding node object in the ePO database.

REQ-2: This feature deletes all non-virus events older than a specified age.

REQ-3: This deletes all events older than a specified age.

REQ-4: This feature deletes all events with specified TVDID older than a specified age. Users will be able to select one or more TVDID and age threshold.

### 3.3.4 Sample events retention policy that can be automatically enforced

- Delete all events older then 1 year
- Delete all non-virus events older then 6 months
- Delete all events with TVDID='1034', '1087', '1064' and older then 1 week
- Delete all orphaned events older then 1 month

## 1.4 Status reporting for repositories replication

### 3.4.1 Description and Priority

This feature monitors the ePO replication process by allowing administrators to review web report screen and sending out an alert emails should there be any replication errors.

### 3.4.2 Stimulus/Response Sequences

The feature must be configured manually through the web interface by pointing the application to the ePO installation directory. Once configured this application will monitor several ePO replication logs and report on the status of the ePO repositories as well send alerts should there be any replication errors.

## 1.5 Audit trail

### 3.4.1 Description and Priority

The product maintains a detailed audit trail of the execution of all other functions.

### 3.4.2 Stimulus/Response Sequences

This feature engaged automatically when any of the above listed features of the product are initiated by a user.

### 3.4.3 Functional Requirements

REQ-1: Audit trail saved in the database.

REQ-2: Audit trail contains username, timestamp, and operations/action performed.

## **1.6 Appendix A – Application Screenshots**



## MaestroAuto for ePO

**Log in** ?

Username:

Password:

Keep me logged in

MaestroAuto for ePO v1.0



5:26 PM GMT+0  
Jun 24, 2005

admin

Log out

System Status:  
**Active**

Tasks ?

- + Set Event Retention Policy
- + Scheduled Object Purging
- + Status reporting for repositories replication
- + Resolution of duplicate node registrations
- + Settings and Global Log

Task Details ?

About Maestro for ePO

**Rego MaestroAuto for ePO**

Version 1.2

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5:26 PM GMT+0  
Jun 24, 2005

admin

Log out

System Status:  
**Active**

### Tasks

#### Set Event Retention Policy

- Settings
- Schedule
- See Logs

#### Scheduled Object Purging

#### Status reporting for repositories replication

#### Resolution of duplicate node registrations

#### Settings and Global Log

### Task Details

#### Settings - Event Retention Policy



Feature Status: **Enabled**

Enabled	Event Type	Age	TVD Filter	Last Updated By	Last Updated On	Action
Yes	Orphaned	30	N/A	admin	Oct 11, 2004 17:09	
Yes	NonVirus	30	N/A	jsmith	Oct 11, 2004 17:09	
Yes	Any	500	N/A	admin	Jun 20, 2005 17:26	
Yes	Any	1	1202	rstar	Oct 28, 2004 14:03	
Yes	Any	1	1203	jsmith	Oct 28, 2004 14:04	
Yes	Any	1	1087	admin	Oct 28, 2004 14:05	
Yes	Any	1	1088	admin	Oct 28, 2004 14:06	
Yes	Any	1	1035	admin	Oct 28, 2004 14:06	
Yes	Any	1	1064	admin	Jun 21, 2005 20:16	
Yes	Any	0	1065	jsmith	Jun 21, 2005 20:17	

Add Setting



6:15 PM GMT+0  
Jun 24, 2005

admin

Log out

System Status:  
**Active**

### Tasks ?

- Set Event Retention Policy
  - Settings
  - Schedule
  - See Logs
- Scheduled Object Purging
- Status reporting for repositories replication
- Resolution of duplicate node registrations
- Settings and Global Log

### Task Details ?

Schedule - Event Retention Policy

**T R**

Run every	Time Limit	Last Ran	Job Duration	Action
1 day	3am - 4am	Jun 24, 2005 03:40	0:05:53	

**Add New Schedule**