

# Novell® Sentinel™

6.0.1

October 5, 2007

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Volume V - 3<sup>RD</sup> PARTY INTEGRATION GUIDE

[www.novell.com](http://www.novell.com)

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404 Wyman Street, Suite 500  
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## Preface

The Sentinel Technical documentation is general-purpose operation and reference guide. This documentation is intended for Information Security Professionals. The text in this documentation is designed to serve as a source of reference about Sentinel's Enterprise Security Management System. There is additional documentation available on the Novell web site.

Sentinel Technical documentation is broken down into five different volumes. They are:

- Volume I – Sentinel Install Guide
- Volume II – Sentinel User's Guide
- Volume III – Sentinel Collector User's Guide
- Volume IV – Sentinel User's Reference Guide
- Volume V – Sentinel 3<sup>rd</sup> Party Integration Guide

### Volume I – Sentinel Install Guide

This guide explains how to install:

- Sentinel Server
- Sentinel Console
- Sentinel Correlation Engine
- Sentinel Crystal Reports
- Collector Builder
- Collector Manager
- Advisor

### Volume II – Sentinel User's Guide

This guide discusses:

- Sentinel Console Operation
- Sentinel Features
- Sentinel Architecture
- Sentinel Communication
- Vulnerability assessment
- Event monitoring
- Event filtering
- Event correlation
- Sentinel Data Manager
- Event Configuration for Business Relevance
- Mapping Service
- Historical reporting
- Collector Host Management
- Incidents
- Cases
- User management
- Workflow

### Volume III – Collector User's Guide

This guide discusses:

- Collector Builder Operation
- Collector Manager
- Collectors
- Collector Host Management
- Building and maintaining Collectors

### Volume IV - Sentinel User's Reference Guide

This guide discusses:

- Collector scripting language
- Collector parsing commands
- User Permissions
- Sentinel correlation engine

- Collector administrator functions
- Collector and Sentinel meta-tags
- Correlation command line options
- Sentinel database schema

## Volume V - Sentinel 3<sup>rd</sup> Party Integration Guide

- Remedy
- HP OpenView Operations
- HP Service Desk

## Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation and enter your comments there.

## Additional Documentation

The other manuals on this product are available at <http://www.novell.com/documentation>. The additional documentation available on Sentinel:

- Sentinel Installation Guide
- Sentinel Patch Installation Guide
- Sentinel User Guide

## Documentation Conventions

The following are the conventions used in this manual:

- Notes and Warnings

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**NOTE:** Notes provide additional information that may be useful or for reference.

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### **WARNING:**

Warnings provide additional information that helps you identify and stop performing actions in the system that cause damage or loss of data.

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- Commands appear in courier font. For example:  
`useradd -g dba -d /export/home/oracle -m -s /bin/csh  
oracle`
- Go to Start > Program Files > Control Panel to perform this action: Multiple actions in a step.
- References  
Internal References:
  - For more information, see **“Section Name”** (if in the same Chapter).
  - For more information, see **Chapter number, “Chapter Name”** (if in the same Guide).
  - For more information, see **Section Name in Chapter Name, *Name of the Guide*** (if in a different Guide).

## Other References

The following manuals are available with the Sentinel install CDs.

- Sentinel User Guide

- Sentinel Collector Builder User Guide
- Sentinel User Reference Guide
- Sentinel 3<sup>rd</sup> Party Integration Guide
- Release Notes

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[http://support.novell.com/support\\_options.html?sourceidint=suplnav\\_supportprog](http://support.novell.com/support_options.html?sourceidint=suplnav_supportprog)
- Patch Download Site: <http://download.novell.com/index.jsp>
- 24x7 support: <http://www.novell.com/company/contact.html>.
- For Collectors/Connectors/Reports/Correlation/Hotfixes/TIDS:  
<http://support.novell.com/products/sentinel>.

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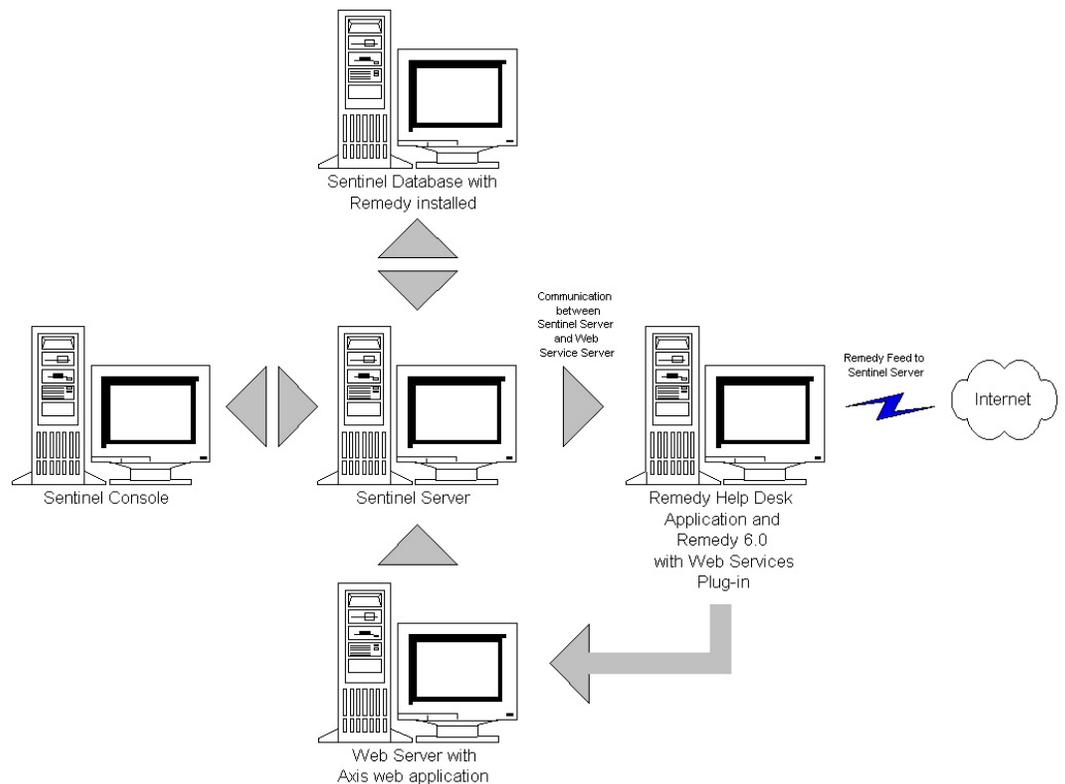
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# 1

## Remedy Integration

Remedy integration for Sentinel v4.2 or v5 can be used to create workflow applications that are integrated with both the Remedy Trouble Ticketing System and Sentinel system. Key features with the Remedy integration are:

- Ability to create a new case in Remedy Help Desk based on an incident in Sentinel.
- Ability to update a related case in Help Desk, when a Sentinel incident is updated.
- Ability to update a Sentinel incident when a related Case in Help Desk is updated.



## Configuration

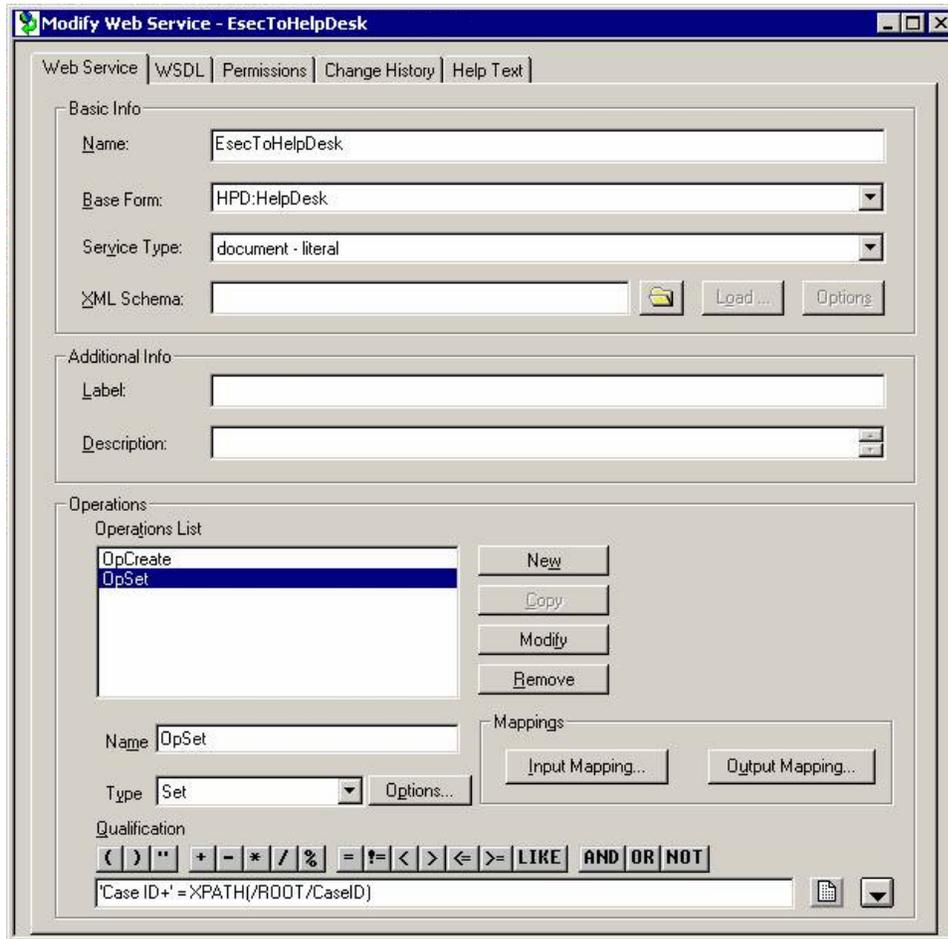
To change the Remedy Help Desk Case form

1. Login into *Remedy Administrator* > *Forms*, double-click on *HPD HelpDesk*.
2. In order to support integration with Sentinel, the Help Desk Case form needs a character (*EsecIncidentId*) and attachment pool (*Attachment Pool*) field to be added. These field entries will be used to add incident attachments to the form.

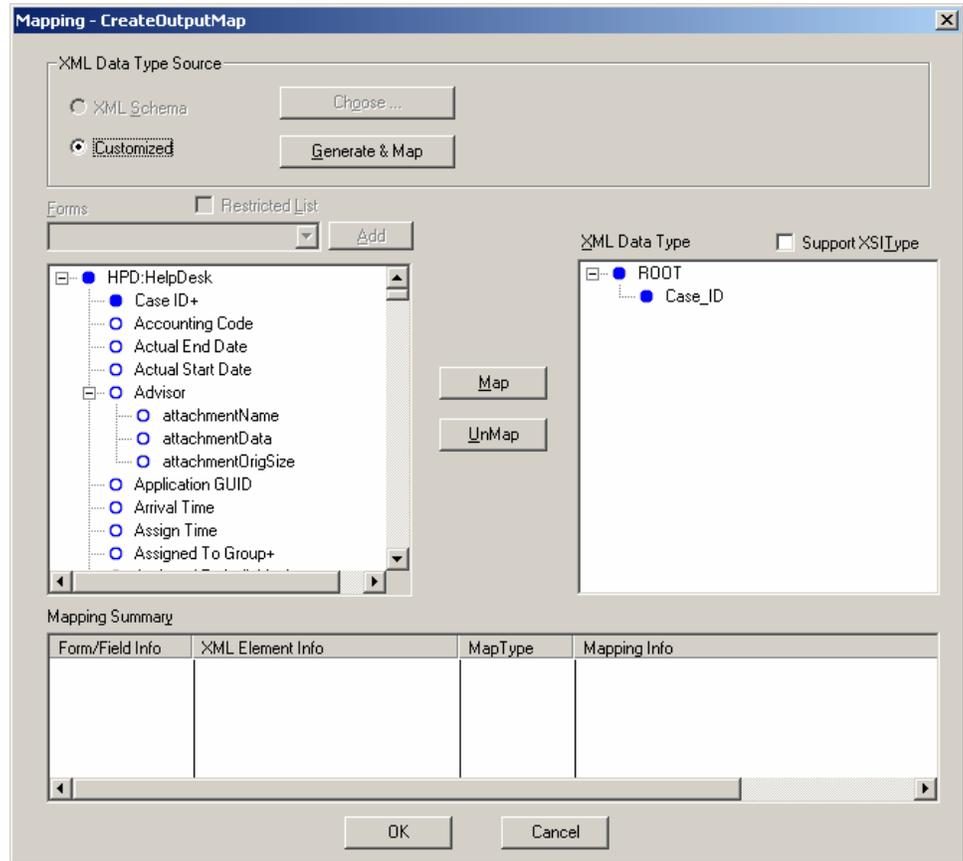
3. To add the EsecIncidentId character field:
  - Click on the 'New Character Field' button and place it somewhere on the form.
  - Under the Display tab, set a label.
  - Under the Database tab, in the Name field set the name to EsecIncidentID.
4. To add the Attachment Pool character field with the following three fields: EsecEvents, EsecVuln and EsecAdv.
  - Click the *Create Attachment Pool* button.
  - Under the Display tab, in the label field enter a label name (ex: esec attachments).
  - Under Attach Fields, in the 'Enter Attachments Field Label', enter:
    - EsecEvent and click Add
    - EsecVuln and click Add
    - EsecAdv and click Add
5. Click *Save*.

#### Creating the web service

1. In Remedy Administrator, in the navigation pane high-light *Web Services*. Right-click *New Web Services* and click the *Web Services* tab.

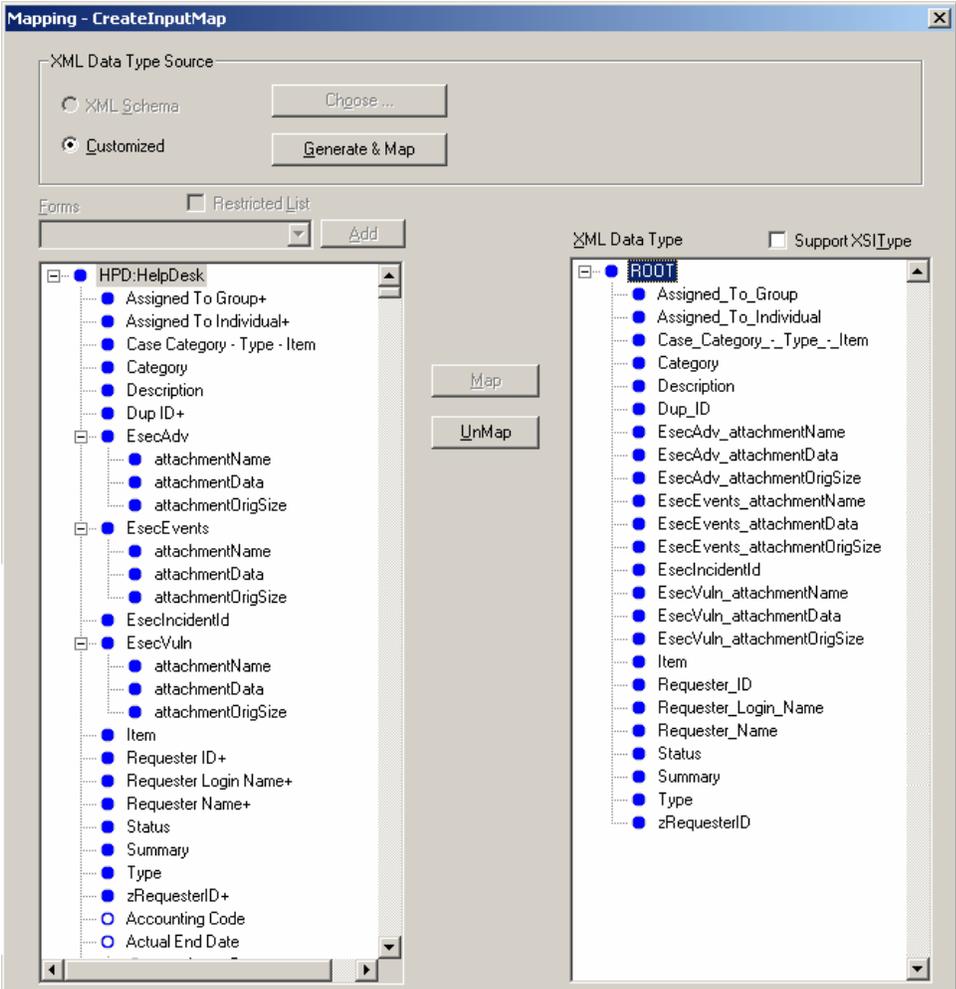


2. Using the Help Desk Case as a base form, create a Webservice called *EsecToHelpDesk* and select Base Form HPD HelpDesk.
3. Make two operations for this web service called:
  - opCreate
  - opSet
 by removing the other operations.
4. Select OpCreate and click the Output Mapping button. Make the screen match the following illustration.



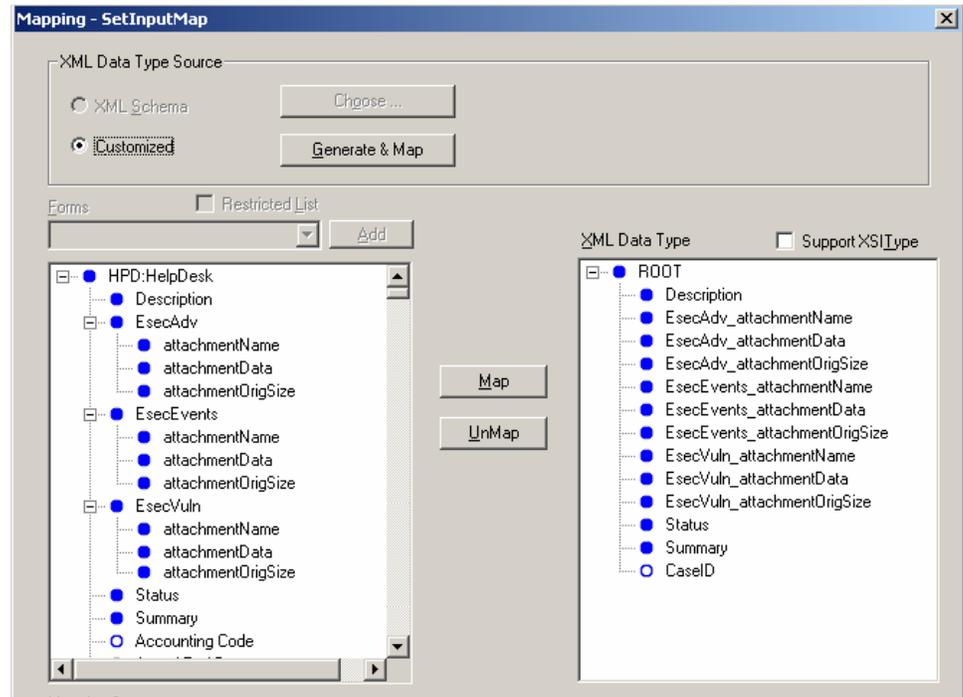
Select Input Mapping button for opCreate. Make the screen match the following illustration.

**NOTE:** To remove an item, high-light it > *right-click* > *cut*.



Click *Save*.

Select Input Mapping button for opSet. Make the screen match the following illustration.



There is no output mapping for opSet. For opSet, you have to specify a qualification:



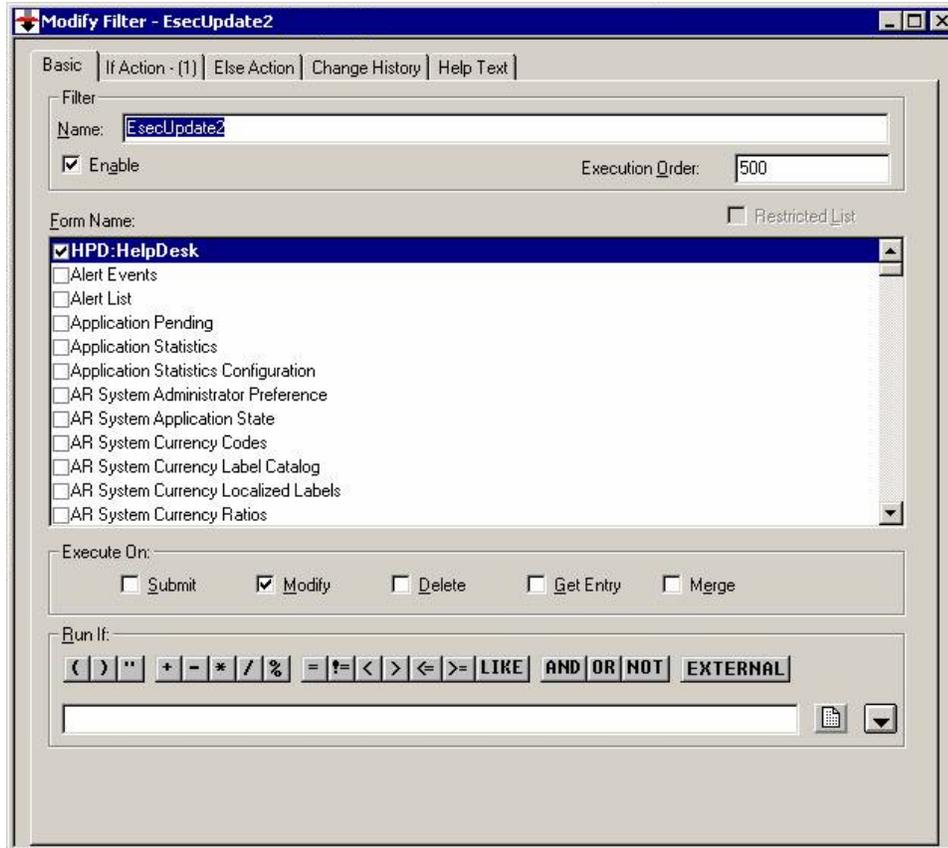
5. Go to the Permissions tab and move the service to Public by moving Public from left to right. Click *Save*.

## Remedy to Sentinel Data Flow

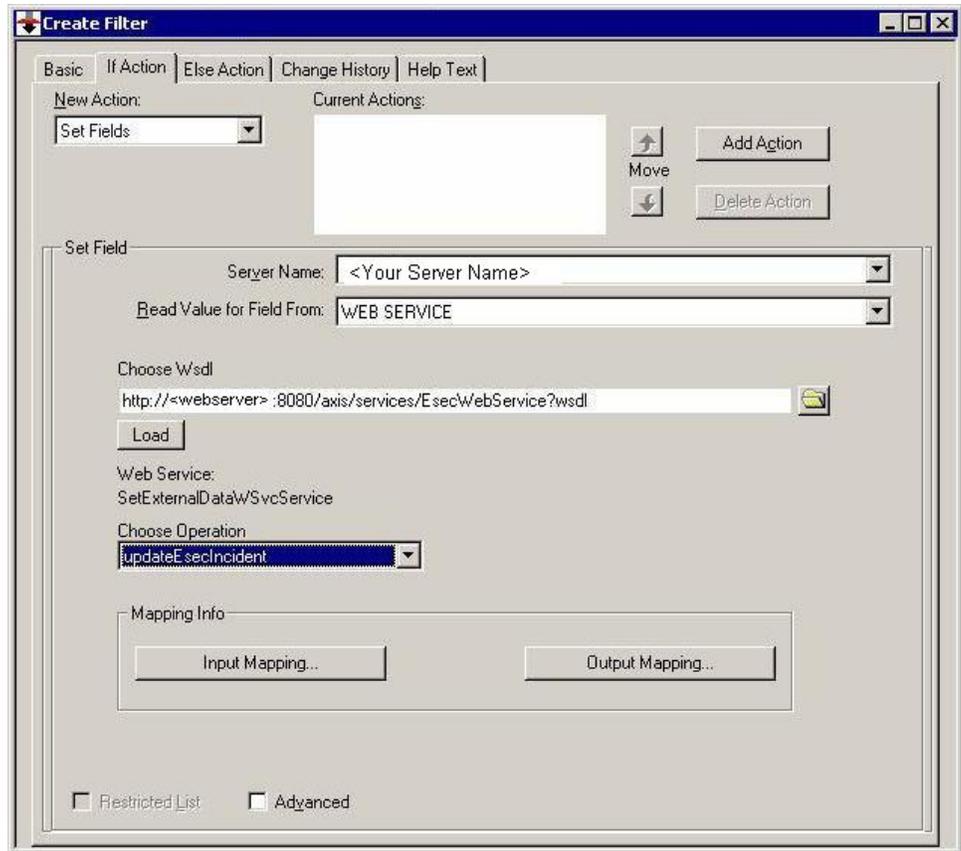
In order for Sentinel WebService to be accessible, you must have a web server with Axis web application running by the time of Sentinel Server startup.

### Remedy to Sentinel Data Flow

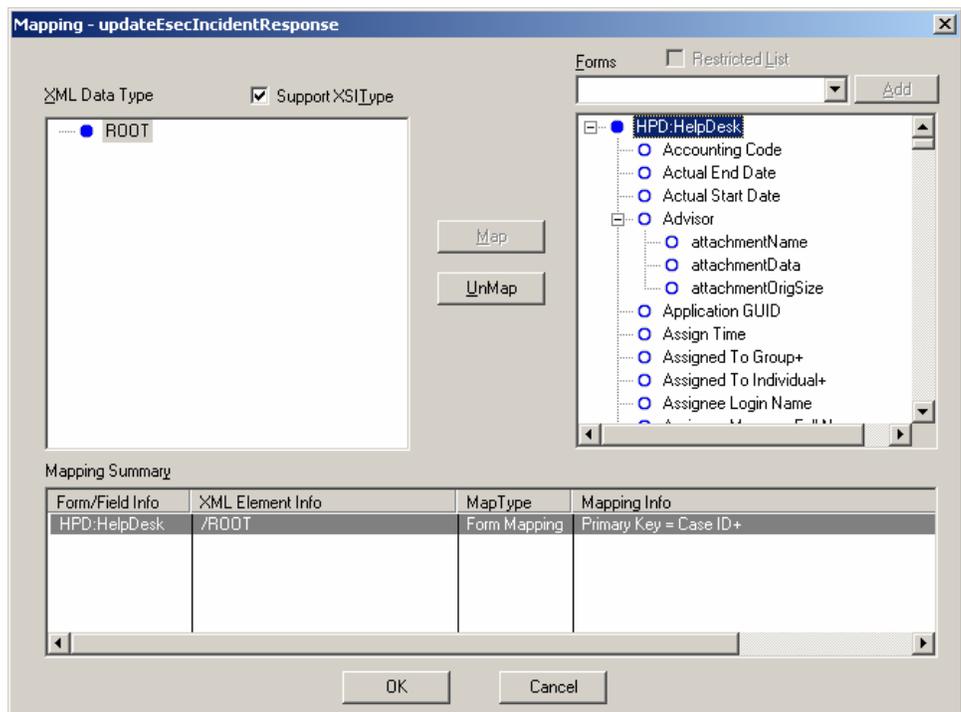
1. In the Remedy Administrator, high-light Filters and right-click *Add Filter*.
2. Create a filter for Help Desk Case form that is executed on a modified event. Make sure your screen matches the following illustration.



3. Under the *If Action* tab, in the *New Action* drop down menu select *Set field* action, in the *Set Field* pane select *WEB SERVICE* and provide the URL for Sentinel Webservice (<http://<webserver IP or DNS name>:8080/axis/services/EsecWebService?wsdl>).

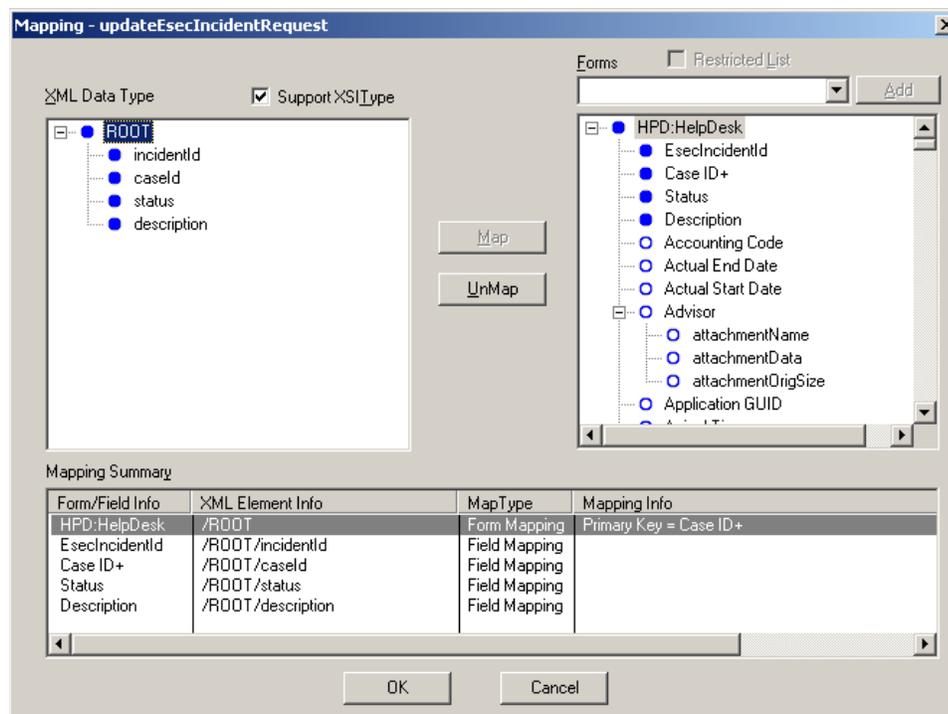


4. In the *Choose Operation* drop down menu, select *updateEsecIncident* method and set the Input and Output mapping. Click the Output Mapping button. Make your screen match the following illustration.



Click the Input Mapping button. Make your screen match the following illustration.

**NOTE:** To set your Map, select an item on the left (i.e. incidentId), select an item on the right (i.e. EsecIncidentId) and click the Map button.



**NOTE:** After setup, whenever you save a change in Help Desk Case form, the change will be submitted to a Sentinel service.

5. Click *Save*.

## Installing Sentinel

When installing Sentinel with Remedy, you will need to have an account with Remedy. From this account you will be prompted for the following information.

**NOTE:** You must have Remedy Integration permission.

- Username
- Password
- Requestor Name
- Requester ID
- Requestor Login
- Group Name (may be left blank)
- Individual Name (may be left Blank)
- Server Name
- Service Name

For Remedy to Sentinel Data Flow, you will be prompted for:

- Sentinel Webserver (<machine name:port>)
- Sentinel Username (such as esecadm)
- Sentinel UserID
- Sentinel UUID
- Sentinel Lock ID (usually set to 1 or 2, this is....)

## Installing Sentinel

1. Select Remedy integration during install.
2. Have the above information available during the install process.

## Remedy to Sentinel Data Flow Configuration

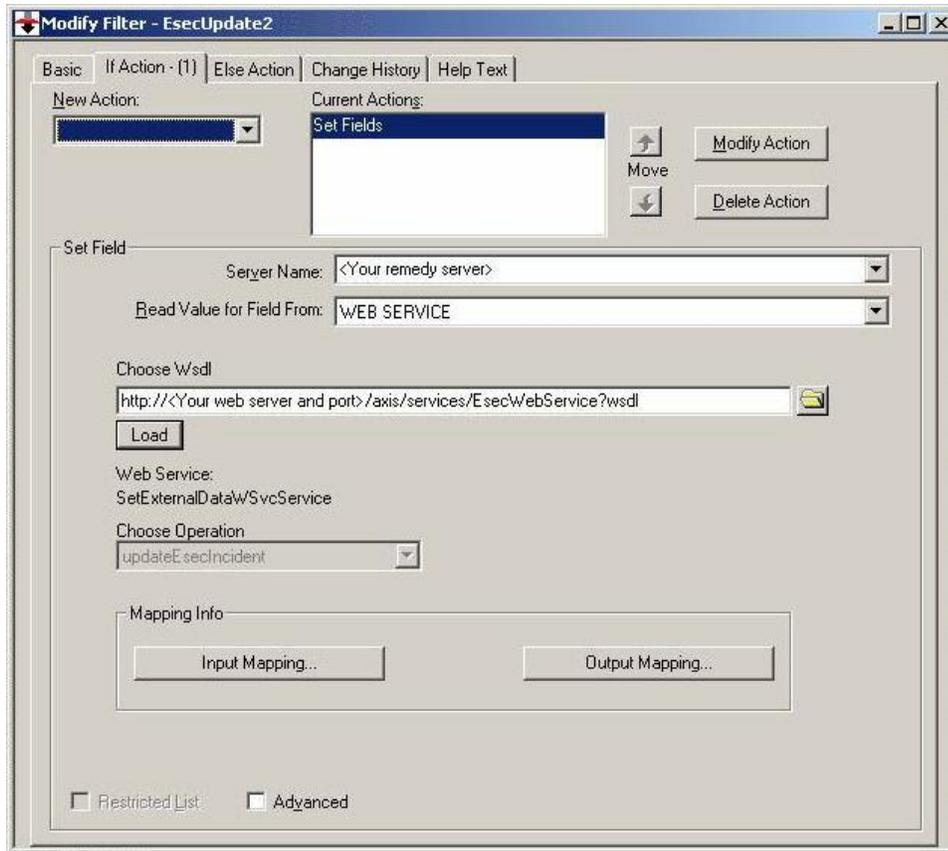
If you will be using the 3<sup>rd</sup> Party Integration (Remedy Integration), it is recommended to install and configure in the following order:

- Install Remedy Help Desk Application and Remedy 6.0 with Web Services Plug-in.
- Configure new Filters and Web services in the Remedy Help Application.
- Install Sentinel

In order to have Remedy to Sentinel data flow, you must:

- In order for Sentinel WebService to be accessible, you must have a web server with Axis web application running before sentinel server is started.
- Copy all the jar files from the following location on your Sentinel Server to <axis web application>\webclient\lib.
  - %ESEC\_HOME%\lib
  - %ESEC\_HOME%\sentinel\console
  - %ESEC\_HOME%\communicator (for v4.2 only)
- Copy your Sentinel Server configuration.xml and .keystore file to a location of your choice to your webserver. Both files are located at %ESEC\_HOME%.
  - Edit the configuration.xml on your web server to point to the .keystore file.
  - Add the following JVM option to your webserver,  

```
Dcom.esecurity.configurationfile=<path to configuration.xml>\configuration.xml
```
- You must create a filter for the Help Desk Case form that is executed on a “Modified” event. This filter calls the Sentinel web server.



# 2

## Remedy Help Desk Operations

Remedy integration can be used to create workflow applications. Features with the Remedy integration are:

- Ability to create a new case in Remedy Help Desk based on an incident in Sentinel.
- Ability to update a related case in Help Desk, when Sentinel incident is updated.
- Ability to update a Sentinel incident when a related Case in Help Desk is updated.

### Remedy Help Desk Operations

To send an Incident for Remedy Help Desk (v4.5.x and later)

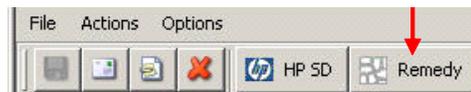
1. Click the *Incidents* tab.
2. In the navigator pane, expand the *Incident Views* folder and high light *Incident View Manager*.

---

**NOTE:** If you already have an incident set for another external system, you cannot change it.

---

3. Expand one of the incident views and double-click on your incident. Your incident will open.
4. Click the *Remedy* button.



The Incident will be updated with an External Data tab and Remedy button.



To update an Incident to Remedy Help Desk (v4.5.x and later)

1. Click the *Incidents* tab.
2. Expand the navigator pane on the left and double-click an incident that is set to Remedy Help Desk.
3. Click the *Remedy* button in the Incident. Annotation will be added under the External tab.

### Manually Reconfiguring the Remedy Interface Settings

During the initial installation of the Remedy Help Desk Interface, the Remedy settings are stored in the `das_query.xml` file. Use the information in this section of the documentation if you need to modify these settings after installation.

## Remedy Settings

Remedy settings are stored in the `das_query.xml` file under the `RemedyARServerService` component as follows:

## Resetting the Remedy Password

The Remedy passwords are stored in an encrypted format in the `das_query.xml` file. Therefore, if you need to reset the passwords stored in this file, you must use the utility described below.

To reset the Remedy interface password

1. Go to `%ESEC_HOME%/sentinel/bin/`.
2. Enter:

```
extconfig -n das_query.xml [-r  
remedy_password]
```

  - `-r` is the Remedy password

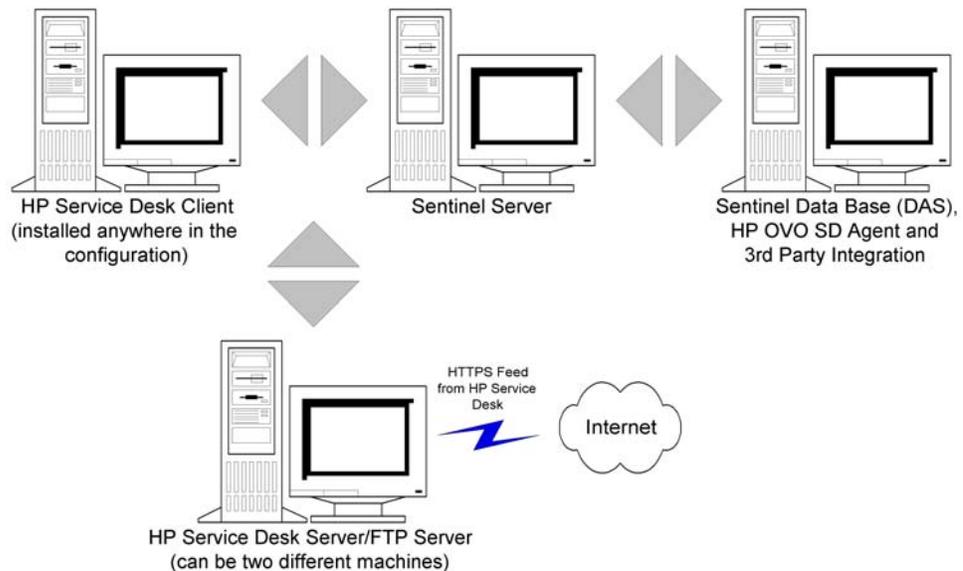
# 3

## Installing HP OpenView Service Desk for Windows

Sentinel's bi-directional integration with HP OpenView Service Desk, which is licensed separately, provides new valuable features to the Sentinel Console. Sentinel leverages HP OpenView Service Desk's Asset Management capabilities to provide referential information to aide in the response to security threats and attacks. These new features provide the ability to:

- Send Incident(s) to HP Service Desk (SD)
- Attach Event(s) to a HP SD Incident
- Attach Vulnerability Information to a HP SD Incident
- Query and Populate Configuration Item (Asset) information both in Sentinel Console Incident and SD
- Round Trip Integration: SD send updates to Novell and Novell sending updates to SD
- Update SD Incident Status from Novell's Sentinel Console
- Update Sentinel's Incident Status from HP SD

Below is a typical installation configuration. Your configuration may be different.



### System Requirements

For hardware and software requirements for HP OpenView Service Desk Client, Server and Agent, see HP OpenView Service Desk Installation Guide.

Sentinel supports the following versions of HP OpenView Service Desk:

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**NOTE:** Sentinel supports HP OpenView Service Desk Server version 4.5.x only. HP Service Desk version 5.x is not currently supported by Sentinel.

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- HP OpenView Service Desk Server - Version 4.5 with Service Pack 8 (4.5.0588.0802 SP 8)
- HP OpenView Service Desk Client - Version 4.5 with Service Pack 8
- HP OpenView Service Desk Agent - Version 4.5 with Service Pack 8
- Sentinel 4.2.1.8 or 4.2.1.15 for Windows
- Any 3rd Party FTP Server

HP OpenView Service Desk Server and Client must be installed on a machine that is to be designated as the Service Desk Server. Consult the HP OpenView Service Desk Installation Guide for assistance with installing Service Desk.

To enable this bi-directional interface, a HP OpenView Agent must be installed on the same machine where `das_cmd.bat` is installed. The Bi-directional interface allows HP Service Desk to notify Sentinel whenever the Status of an Incident that originated from Sentinel has been changed by a Service Desk user. These incidents must originate from the Sentinel Console.

In order for Service Desk to handle attachments, an FTP server must be installed (typically on the Service Desk Server), and Service Desk must be configured to communicate with it. Any third party FTP server can be used. Consult the Installation Guide of your FTP server for assistance installing the FTP server.

## Installation

If you are also installing HP OpenView Operations, it is recommended to install HP OpenView Operations before HP OpenView Service Desk.

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**NOTE:** During initial installation of the 3rd Party HP OpenView Service Desk Interface, the Service Desk and OpenView settings are stored in the `das_query.xml` file. To change any of these settings (such as username or password), see *Operation - HP OpenView and Service Desk for Windows 2000*.

---

It is recommended to install in the following order:

- FTP Server

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**NOTE:** See the Installation Guide of your FTP server for assistance in installing your FTP server.

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- HP OpenView Service Desk Server with Service Pack 8 – can the same as the FTP server
- HP OpenView Service Desk Client with Service Pack 8
- HP OpenView Service Desk Agent with Service Pack 8 (to enable bi-directional interface) – must on a the machine where DAS is installed

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**NOTE:** See HP OpenView Service Desk Installation Guide for assistance in installing the HP OpenView Service Desk software.

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- Install Sentinel 3<sup>rd</sup> Party Integration
  - HP OpenView Service Desk

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**NOTE:** For installation information, see the Sentinel v4.2.1.8 Release Notes and Sentinel Installation Guide v4.2 for Windows and Solaris.

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## Configuring HP OpenView Service Desk

Configuration of HP OpenView Service Desk is accomplished through the Service Desk Client. Before modifying the configuration of HP Service Desk to communicate to the FTP Server, have the following information available:

- Name – IP address of your FTP Server
- Username/Password – any user set in the FTP Server
- Target Folder – recommend entering "/". This places your FTP directory to the current FTP directory.
- Uncheck 'Use Passive FTP'
- Check 'Save attachment in background'

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**NOTE:** For more information, see the Post Installation Tasks section of the HP OpenView Service Desk Installation Guide for detailed configuration steps.

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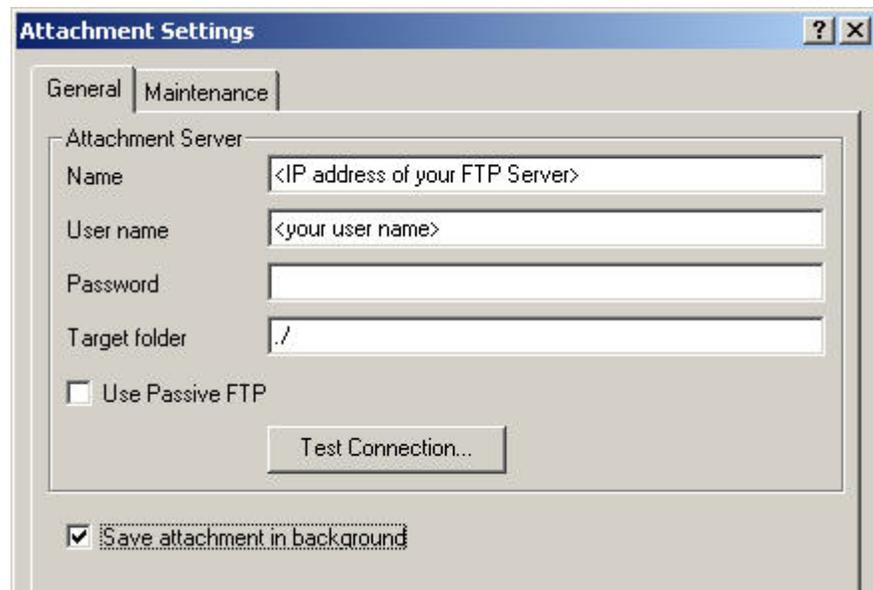
To set Attachment Settings

1. Start the HP Service Desk Client.
2. Click *Tools > System*.
3. Click *System Panel* in the navigator pane on the left.
4. Double-click *Attachment Settings*. Enter:
  - Name – IP address of your FTP Server
  - Username/Password – any user set in the FTP Server
  - Target Folder – recommend entering "/". This places your FTP directory to the current FTP directory.
  - Uncheck *Use Passive FTP*
  - Check *Save attachment in background*

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**NOTE:** For more information, see the Post-Installation Tasks section of the HP OpenView Service Desk Installation Guide for detailed configuration steps.

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5. Click *Test Connection*.
6. Click *Apply* and then *OK*.

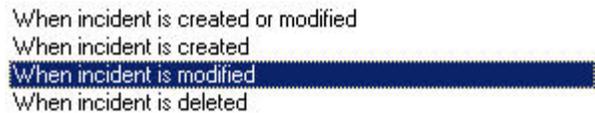
## Enabling Service Desk to Sentinel (bi-directional) Interface

This option allows HP OVO OpenView Service Desk to notify Sentinel whenever the Status of an Incident (that originated from Sentinel) has been changed by a Service Desk user. This allows you to provide the ability to track the current state of each Incident that has been previously sent to HP OVO OpenView Service Desk.

To have enable this feature, you must install a HP OVO OpenView Service Agent must be installed on the same machine where as Sentinel (das\_cmd.bat) is installed. This allows HP Service Desk to execute Sentinel's das\_cmd utility.

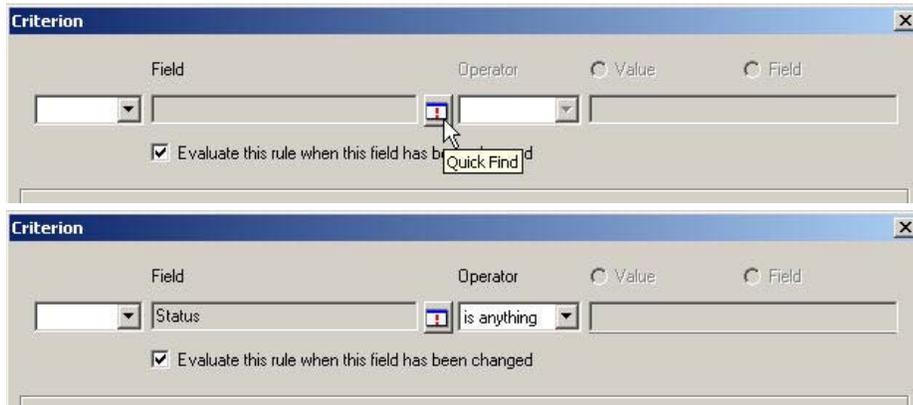
### Enabling bi-directional interface

1. Start the Service Desk Client.
2. Bring up the Administrator's Console by selecting the *Tools > System*.
3. Click Business Logic in the navigator pane on the left.
4. Double-click *Database Rules*.
5. Double-click *Incident*. The Database Rules list window will appear.
6. Right-click in the Database Rules pane > *New Database Rule*.
7. Highlight *When incident is modified* and click *Next*.



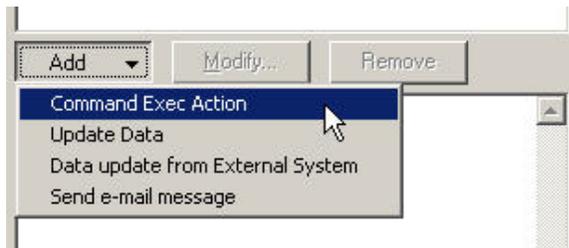
When incident is created or modified  
When incident is created  
When incident is modified  
When incident is deleted

8. Click the *Condition...* button.
9. Click the *Add Criterion...* button.
10. Click the *Quick Find* button, select *Status* and select *is anything* in the operator field.



Click *OK* and Click *OK* again.

11. Click *Add*. Select *Command Exec Action*.



12. Add a new "Command Exec Action" such that the "das\_cmd.bat" script is executed on the Sentinel Server whenever the rule is evaluated.

When configuring the action, be sure to specify the name (or IP address) of your Sentinel Server (machine where das\_cmd.bat is located) as the "Host". Also be sure to specify the full path of the "das\_cmd.bat" file on the Sentinel Server in the "Command Line", such as:

```
c:\progra~1\esecur~1\sentinel\bin\das_cmd.bat
```

---

**NOTE:** You must use the DOS 8.3 naming convention to specify directory names with spaces. For example, use "progra~1" instead of "Program Files".

---

And finally, be sure to specify the action "Parameters" as:

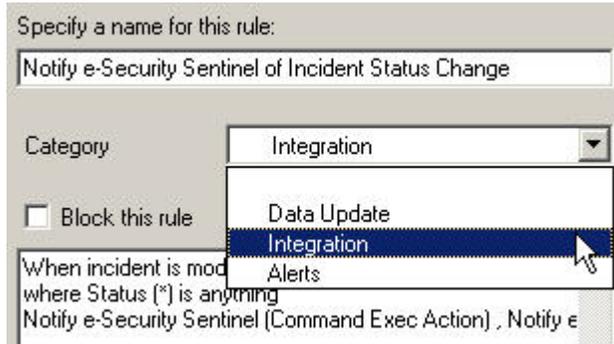
```
UpdateIncident servicedesk esecadm [Source ID]
[ID] "[Status]"
```

The screenshot shows a "Command Exec Action" dialog box with the following fields and values:

- Name:** Notify e-Security Sentinel
- Description:** Notify e-Security Sentinel of a change in Incident Status.
- Host:** <IP of Sentinel Server (where das\_cmd.bat is)
- Blocked:**
- Command line:** c:\progra~1\esecur~1\sentinel\bin\das\_cmd.bat
- Parameters:** UpdateIncident servicedesk esecadm [Source ID] [ID] "[Status]"
- Insert at cursor position:** Field

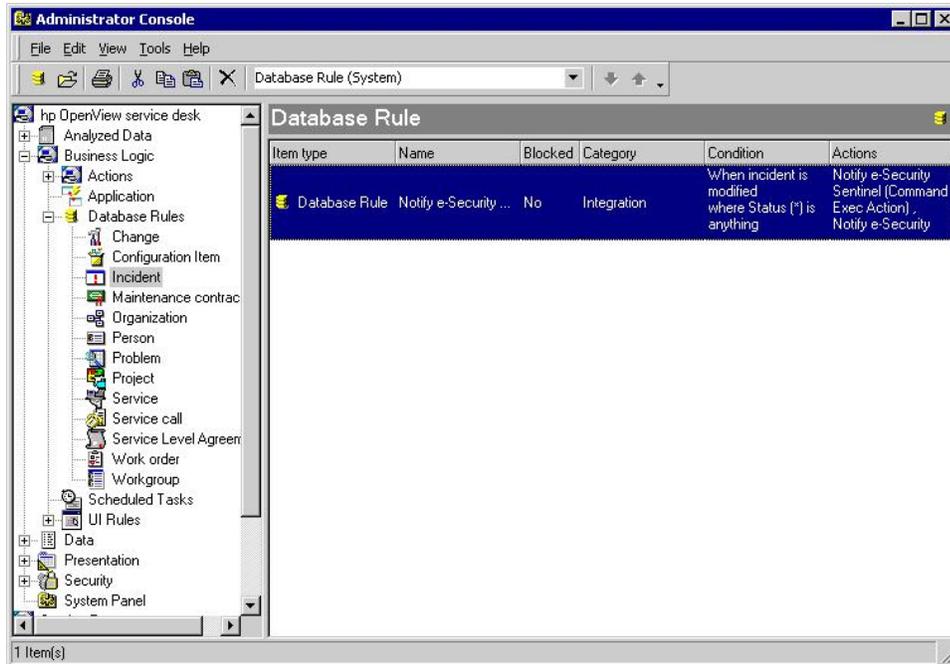
Give the new Database Rule any name you want with a description. Click *OK* and then click *Next*.

- In the Category field, select Integration and specify a name for this rule. Do not select *Block this rule*.



Click *Finish*.

- Upon completion of the new Database Rule, a new rule should be listed in the Database Rule list.



# 4 HP OpenView Service Desk Integration

HP OpenView Service Desk for Sentinel allows you to send events from any screen displaying incidents and events to HP OpenView Service Desk.

## HP OpenView Service Desk

Sentinel integration with HP OpenView Service Desk enables you to have additional asset management capability. This additional asset management capability allows:

- Send Incident(s) to HP Service Desk (SD)
  - Attach Event(s) to a HP SD Incident
  - Attach Vulnerability Information to a HP SD Incident
  - Attach Advisor Information to a HP SD Incident
  - Query and Populate Configuration Item (Asset) information in Sentinel Control Console
- Update SD Incident Status from Sentinel Control Console
- Update Sentinel's Incident Status from HP SD

Sentinel Incident information sent to HP OpenView Service Desk includes:

- Sentinel Incident ID
- State
- Title
- Annotations/History
- Events (attachment)
- Vulnerability Information (attachment)
- Advisor Information (attachment)

When sending or receiving information from HP OpenView Service Desk, there is an automatic state, status mapping, and conversion that takes place.

The Sentinel State to Service Desk Status mapping and conversion is as follows:

Sentinel State	Service Desk Status
Open	Registered
Acknowledged	Waiting
Assigned	Informed
Investigating	In Progress
False Positive	Closed
Verified	Completed
Approved	In Progress
Closed	Closed

The Service Desk Status to Sentinel State mapping and conversion is as follows:

Service Desk Status	Sentinel State
Registered	Open
In Progress	Investigating

Service Desk Status	Sentinel State
Waiting	Acknowledged
Completed	Verified
Informed	Assigned
Closed	Closed

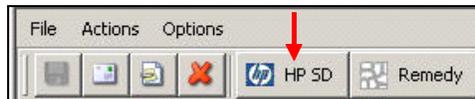
## Sending Incidents to HP OpenView Service Desk

How to send an Incident to HP OpenView Service Desk

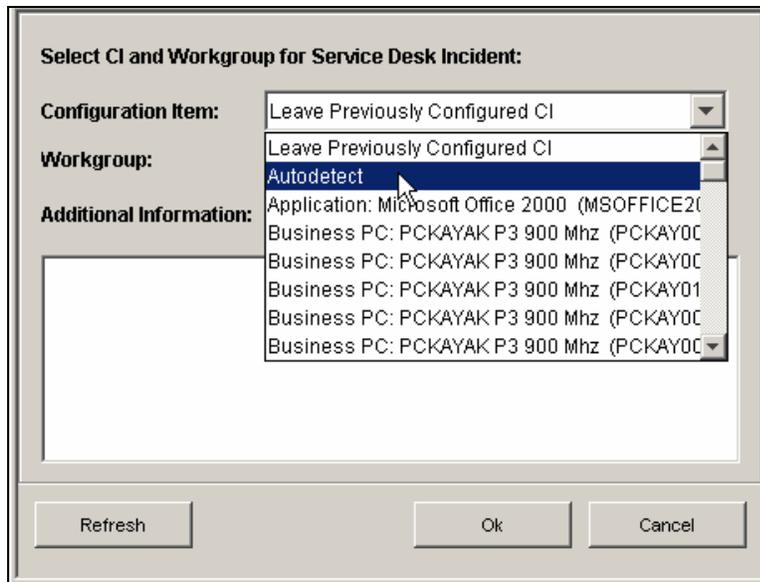
1. Click the *Incidents* tab.
2. In the navigator pane, expand the *Incident Views* folder and high light *Incident View Manager*.

**NOTE:** If you already have an incident set for another external system, you cannot change it.

3. Expand one of the incident views and double-click on your incident. Your incident will open.
4. Click the *HP SD* button.



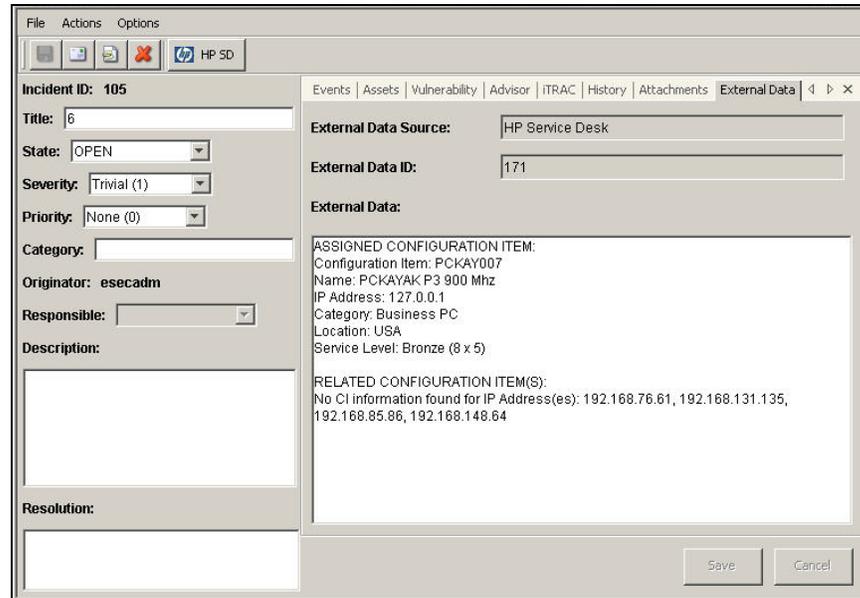
5. The *Send Incident to HP Service Desk* window will appear. The *Send To Service Desk* drop down menu provides a Configuration Item selection list, populated with Configuration Items queried from HP Service Desk.



An *Autodetect* option is available in the Configuration Item selection list. If you select *Autodetect*, Sentinel will attempt to use the Destination IP addresses of the Events associated with the Sentinel Incident to automatically determine the related Service Desk CI.

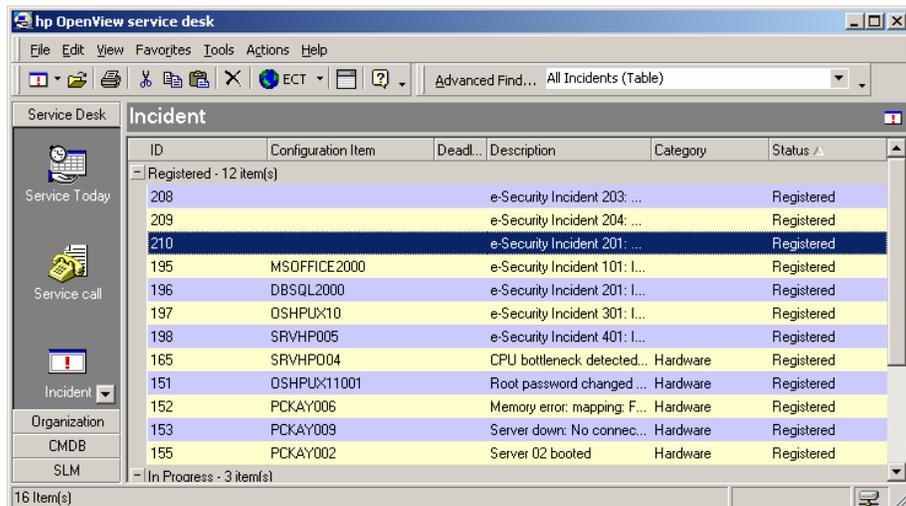
6. (Optional) The *Send To Service Desk* dialog also provides a Workgroup selection list populated with Workgroups queried from Service Desk.
7. Click *OK* and the incident is forwarded to *HP OpenView Service Desk*.

**NOTE:** The Sentinel's Incident display is updated with an External Data tab. The External Data tab indicates the Service Desk Incident ID and the Service Desk Configuration Item to which the new Service Desk Incident was assigned.



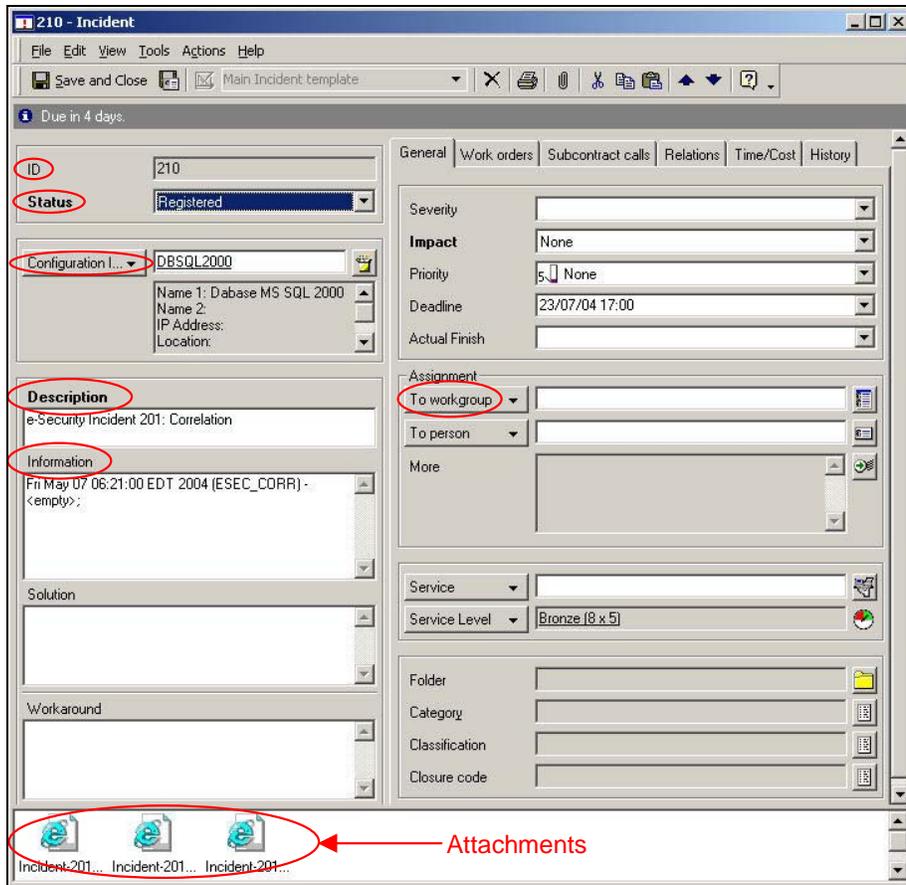
## HP OpenView Service Desk Client

After sending an incident to HP OpenView Service Desk, the incident will appear in the HP OpenView Service Desk Client. In the Service Desk Client, the incident is listed by the Extended Data ID, not the Incident ID number.



Double clicking on an incident and the detail display for that incident will appear.

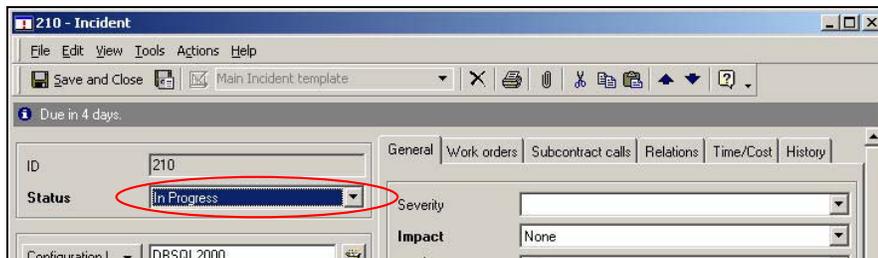
- Extended Source ID
- Status
- Configuration Item
- Description
- Information
- Workgroup
- Event Information (attachment)
- Vulnerability Information (attachment)
- Advisor Information (attachment)



## HP OpenView Service Desk – Bi-Directional Interface

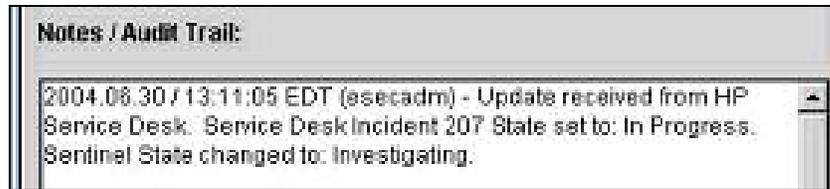
If this option is enabled, (see Sentinel Installation Guide) Service Desk will notify Sentinel whenever the Status of an Incident (that originated from Sentinel) has been changed by a Service Desk user. This allows Sentinel users to track the current state of each Incident that has been sent over to Service Desk.

If you bring up a detail display, change it and then save, the detail display will indicate an in-progress status.



This update can also be seen in the HP OpenView Service Desk Client and the Incident window in the Sentinel Console.

In Progress - 4 item(s)			
207	DBSQL2000	e-Security Incident 205: ...	In Progress
210	DBSQL2000	e-Security Incident 201: ...	In Progress
201		e-Security Incident 701: I...	In Progress



## Manually Reconfiguring the HP OpenView Service Desk Interface Settings

During the initial installation of the 3rd Party HP OpenView Service Desk Interface, the Service Desk settings are stored in the `das_query.xml` file. Use the information in this section of the documentation if you need to modify these settings after installation.

### HP OpenView Service Desk Settings

HP OpenView Service Desk settings are stored in the `das_query.xml` file under the `HpServiceDeskService` component as follows:

- `server` - Set to the Service Desk Server hostname/ip address.
- `username` - Set to the Service Desk Server username.
- `password` - Set to the encrypted Service Desk Server password using the utility described in the section [“Resetting the HP OpenView Passwords”](#).
- `attachment_path` - Automatically set to the "attach" 3rd party directory.
- `ftp_server` - Set to the FTP Server hostname/ip address (that Service Desk will use for attachments).
- `ftp_username` - Set to the FTP username (that Service Desk will use for attachments).
- `ftp_password` - Set to the encrypted FTP user's password (that Service Desk will use for attachments) using the utility described in the section [“Resetting the HP OpenView Passwords”](#).
- `ftp_user_home` - Set to the full directory path of the FTP user.
- `attachment.events` - Set to "yes" to indicate that the Events attachment will be used.
- `attachment.events.filename` - The file name used for Event attachment files.
- `attachment.vuln` - Set to "yes" to indicate that the Vulnerability attachment will be used.
- `attachment.vuln.filename` - The file name used for Vulnerability attachment files.
- `attachment.adv.attack` - Set to "yes" to indicate that the Advisor Attack attachment will be used.
- `attachment.adv.attack.filename` - The file name used for Advisor Attack attachment files.

### Resetting the HP OpenView Passwords

The HP OpenView passwords are stored in an encrypted format in the `das_query.xml` file. Therefore, if you need to reset the passwords stored in this file, you must use the utility described below.

To reset the HP OpenView Service Desk interface settings

1. `cd %ESEC_HOME%/sentinel/bin/`
2. Enter:

```
extconfig -n das_query.xml [-s sd_password] [-  
f sd_ftp_password]
```

- -s is the HP OpenView Service Desk server password
- -f is the FTP server password (for FTP server that Service Desk will use for attachments)