

# Product Engineering Guide

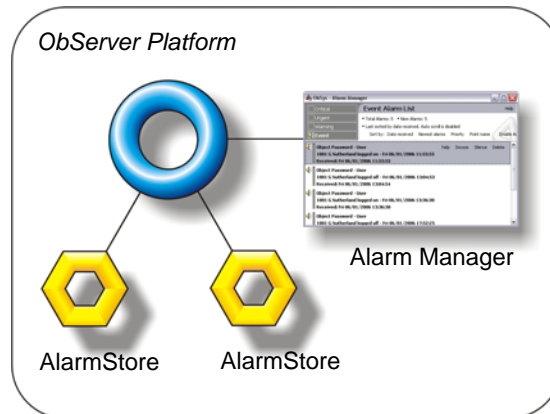
## OSM v20 AlarmStore v12

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### Introduction

The AlarmStore OSM holds a list of alarms that require user action. The ObSys Alarm Manager or WebView server are used to display the list and allow the user to manage alarms from the list.

Several AlarmStore modules may be used to group the stored alarms, which can be managed from the same Alarm Manager or WebView server alarm management applications. Multiple alarm management applications may also view the same AlarmStore list.



Systems that generate alarms within the North extensible object model (XOM) may send them to an AlarmStore OSM, where they are stored. An alarm management application monitoring an AlarmStore OSM can then announce a new alarm and interrupt the user.

From the alarm management application an alarm can be silenced (acknowledged) and deleted - by supplying a user name, a note may be added, associated information may be viewed, and a copy of the alarm may be forwarded.

The AlarmStore OSM can also archive old alarms. If enabled, when an alarm is deleted it is exported to a comma separated value (csv) file. Alarms may also be send directly to the archive.

### Further Information

When ObSys receives an alarm message it is routed first through the alarm translator (AlmXlate), then the prioritizer (AlmPrior) and router (AlmRoute) modules. For more information on these modules search the North Helper.

For information relating to the engineering of the Alarm Manager application and how it interacts with AlarmStore, refer to the [Alarm Manager v11 Application Engineering Guide](#).

For information on printing alarms, refer to the [OSM v20 AlmPrint v10 Engineering Guide](#) (for a Windows page printer), or search the North Helper for 'Printer' (for a serial line printer).

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## **Engineering**

### **Step 1 – Install OSM**

Four AlarmStore OSMs are installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

### **Step 2 – Plug in AlarmStore OSM to ObServer**

Use object engineering software, such as ObSys, to locate the ObServer Setup object. Assign the AlarmStore OSM to an available channel. Refer to '[ObServer v20 Application Engineering Guide](#)'.

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

### **Step 3 – Configure AlarmStore Module**

Use object engineering software to view and modify the module objects within the OSM. The store label and archive options may be specified.

### **Step 4 – Route Alarms to the AlarmStore Module**

Configure the alarm router to send alarms to the alarm store object, e.g. AS1.ALARM.

### **Step 5 – Connect Alarm Manager to AlarmStore**

Configure an Alarm Manager list to connect to the AlarmStore system object.

Refer to the [Alarm Manager v11 Application Engineering Guide](#) for further details.

### **Step 6 – View and Manage Alarms**

Send alarms to the AlarmStore system. Use the ObSys Alarm Manager application or WebView server to view the current contents of the Store, and then silence and delete alarms to complete the test.

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## Engineering Reference

### Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object <sup>[1]</sup>	Label	R/W	Type
ASx	Alarm Store x	-	<a href="#">[AlarmStore v12]</a>
O.ASx	Alarm Store Configuration x	-	<a href="#">[OSM v20\AlarmStore v12]</a>

### Notes

[1] The Alarm Store number, x, is a number in the range 1...4.

### Archive File Format

AlarmStore archives alarms in a comma separated value (csv) file. The first line contains labels for the data in the following lines.

The first line has the format:

Date Detected,Date Received,Date Silenced,Date Deleted,Point,Condition,Priority,Silenced by User,Notes

Subsequent lines contain the data fields:

<detected>,<received>,<silenced>,<deleted>,<point>,<condition>,<priority>,<user>,<notes>

Where:

Field	Format
<detected> <received> <silenced> <deleted>	Date/time fields in the format dd/mm/yyyy hh:mm:ss
<point> <condition> <user> <notes>	Text
<priority>	Number

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## Notes

### Revision History

<b>Version</b>	<b>Build Date</b>	<b>Details</b>
1.0	22/6/00	Released AlmStore
1.0	11/10/00	Fixed problem with alarms without null-termination
1.0	20/11/00	Added AutoTrigger function
1.1	20/01/05	Renamed to AlarmStore. Major redesign to operate with AlarmManager.
1.2	3/9/08	V1.2 released. Added objects AP, NP, LA