

## Groupcall XVault Pre-Requisites

### XVault Version

This user guide applies to Groupcall XVault version 1.2.3 (2011-08)

### Version Control

	Date	Author	Notes
1	2012-02-015	Becky Thornton	Created as standalone guide.
2	2012-05-17	Becky Thornton	Added .net 3.5 as a pre-requisite

## Contents

INTRODUCTION .....	2
PLANNING AN XVAULT DEPLOYMENT .....	2
Data Requirements.....	2
SIF or Non-SIF?.....	2
XVault Server Specification.....	3
XVault Software Requirements .....	3
XVault Network Requirements.....	3
Xporter Deployment.....	3
Pilot Deployment.....	4
SQL Configuration.....	4
APPENDIX ONE – XVAULT SUPPORTED READ / WRITE SIF DATA OBJECTS.....	5
APPENDIX TWO – XPORTER (SIF AND NON-SIF) SUPPORTED SIF DATA OBJECTS	6

## Introduction

This guide covers only the pre-requisites for XVault, for more information please see the full XVault First Line Guide which can be found at [www.groupcall.co.uk/firstline](http://www.groupcall.co.uk/firstline).

## Planning an XVault Deployment

This section provides details of how to plan and architect a Groupcall XVault deployment.

### Data Requirements

Any deployment should be driven by the data requirements. Determine which SIF objects you need to collect and how frequently, ensure that they are supported by Groupcall XVault (Appendix One) and by Groupcall Xporter (Appendix Two).

### SIF or Non-SIF?

XVault supports both SIF and Non-SIF zones.

In SIF zones you will need to have a work SIF Infrastructure and you will need to use Groupcall Xporter SIF Agent to connect schools to your SIF infrastructure. Using SIF zones allows for easy addition of write-back and event driven functionality in the future.

In Non-SIF zones you do not need a ZIS and can use the Xporter Non-SIF Agent to connect and provide data. Non-SIF Zones are cheaper to deploy but require you to follow the upgrade path to SIF zones before you can take advantage of write-back and event driven functionality.

## XVault Server Specification

Groupcall advises setting aside dedicated hardware for the XVault server, and provides the following specification as a basis to build from. Note that specification will change based upon what objects are being requested, how often and whether event subscription is enabled.

Scenario	Installations	CPU Cores	Processor	RAM
Testing	Up to <b>20</b> schools	Single core	2GHz+	1GB RAM
Production	Up to <b>150</b> schools	Two cores	2.5GHz+	2GB RAM
Production	Over <b>150</b> schools	Four or more cores	2.5GHz+	3GB RAM+

## XVault Software Requirements

XVault requires the following software to operate. Groupcall recommends that the SQL server not operate on the same server as XVault.

Windows Server 2003 SP2, 2008 or 2008 R2; or Windows XP SP3, Vista or Windows 7

Apache Tomcat 6.0 or 7.0, which requires a Java runtime

Access to Microsoft SQL Server 2005<sup>1</sup> or newer using a TCP host:port pair and SQL authentication<sup>2</sup>

Microsoft .net framework 3.5

## XVault Network Requirements

XVault must be able to contact the following locations in order to operate correctly:

- <https://dashboard.groupcall.com/>
- <http://www.groupcall.co.uk/>

In addition XVault must be able to contact any ZIS specified as a zone, if you have a ZIS you will know what the address of it is.

## Xporter Deployment

You will need to deploy Xporter to your schools in order to connect them to XVault. Depending on your configuration you will either need Xporter or the Xporter SIF Agent. Either can be installed where the other is already present.

If you have an existing Xporter estate then you may be able to make use of Groupcall Dashboard to facilitate your deployment.

Prior to any Xporter deployment you should consult the Groupcall Xporter First Line User Guide, available at <http://www.groupcall.co.uk/firstline>.

<sup>1</sup> We recommend that SQL is offloaded onto a separate server, if SQL is installed on the same server then increase the specification accordingly and cap the maximum memory that the SQL server can utilise.

<sup>2</sup> If connecting to a clustered SQL environment then the TCP port requirement should be particularly considered.

## Pilot Deployment

Prior to commencing your pilot deployment you should ensure that you have

- A working SIF Infrastructure, if required.
- Installed and configured XVault

Once these steps are completed you can then carry out your pilot Xporter installations and test the data collection. Generally only 3 – 5 schools are required for a pilot deployment.

## SQL Configuration

XVault requires that an SQL database is created, typically called XVault, and that it is assigned an SQL user with owner rights to that database.

The SQL server must be configured to support TCP/IP connections, typically via port 1433/tcp.

## Appendix One – XVault Supported Read / Write SIF Data Objects

This information is correct at the date of this version of the documentation. Note that publishing write-back events for supported objects requires:

- An MIS system that supports write-back of the appropriate data
- A SIF agent that supports write-back of the appropriate data
- Licenses to cover the write-back functionality in both the MIS and SIF Agent
- A SIF infrastructure utilising a ZIS; XVault Non-SIF does not support write-back

SIF Object	Groupcall XVault
SchoolInfo	Collect
LearnerPersonal	Collect
ContactPersonal	Collect
LearnerContact	Collect
LearnerSchoolEnrolment	Collect
SchoolGroupType	Collect
SchoolGroup	Collect
LearnerGroupEnrolment	Collect
WorkforcePersonal	Collect
LearnerExclusion	Collect
LearnerSpecialNeeds	Collect
LearnerAttendance	Collect / Publish
LearnerAttendanceSummary	Collect
PersonPicture	Collect
TermInfo	Collect
Cycle	Collect
TTRoom	Collect
Lesson	Collect
TTTeacher	Collect
TeachingGroup	Collect
TTSubject	Collect
AssessmentSession	Collect
AssessmentResultGradeSet	Collect
AssessmentResultComponent	Collect
AssessmentResultComponentGroup	Collect
AssessmentLearnerSet	Collect
LearnerAssessmentResult	Collect
LearnerBehaviourIncident	Collect
LearnerEntitlement	Collect / Publish

**Important:** Please note that collection of SIF Data Objects via XVault also requires a SIF Agent that is capable of providing them. Please see Appendix Two for data objects supported by Xporter SIF Agent and Xporter Non-SIF.

## Appendix Two – Xporter (SIF and Non-SIF) Supported SIF Data Objects

Groupcall XVault uses Groupcall Xporter for data collection from school MIS systems. Therefore the objects available from the school MIS affects what can be delivered into XVault. The table below details the SIF Data objects available per MIS.

SIF Object	Groupcall Xporter		
	SIMS	Facility / ePortal	G2
SchoolInfo	Read	Read	Read
LearnerPersonal	Read	Read	Read
ContactPersonal	Read	Read	
LearnerContact	Read	Read	
LearnerSchoolEnrolment	Read	Read	Read
SchoolGroupType	Read	Read	Read
SchoolGroup	Read	Read	Read
LearnerGroupEnrolment	Read	Read	Read
WorkforcePersonal	Read	Read	Read
LearnerExclusion	Read		
LearnerSpecialNeeds	Read		
LearnerAttendance	Read/Write*	Read/Write*	
LearnerAttendanceSummary	Read		
PersonPicture	Read		
TermInfo	Read		
Cycle	Read		
TTRoom	Read		
Lesson	Read		
TTTeacher	Read		
TeachingGroup	Read		
TSubject	Read		
AssessmentSession	Read		
AssessmentResultGradeSet	Read		
AssessmentResultComponent	Read		
AssessmentResultComponentGroup	Read		
AssessmentLearnerSet	Read		
LearnerAssessmentResult	Read		
LearnerBehaviourIncident	Read		
LearnerEntitlement	Read/Write*		

\* MIS write-back requires Groupcall Xporter SIF Agent attached to a Zone Integration Server and is therefore not available for Non-SIF deployments. Additional Groupcall and MIS Vendor licensing is required to make use of write-back functionality.