Cubic A, B and D setup

# Revision History

|  |  |  |
| --- | --- | --- |
| 29/05/2015 | Hamada Shather | First Version |
| 04/06/2015 | Hamada Shather | Some Fixes |
| 16/06/2015 | Hamada Shather | Some Fixes |

# Introduction

**Note to TFL staff – you may have issues extracting the embedded scripts from this word doc on your FAE machines. If you experience any issues then please use your onelondon machine to open this doc**

This guide will describe the process to migrate the existing CubicAcc/Int environments from labmanager to Cubic A and B and also the process to build Cubic D from scratch.

The current plan is to migrate CubicInt to CubicA and CubicAcc to CubicB

Depending on when these environments get migrated or built the versions of FTP that we are targeting will be a moving target.

This guide assumes Mercury, Release 56 or Release 57. For anything beyond that there may be extra considerations to do with Master Data, .NET framework upgrades etc. Please consult with TFL if that is the case.

# Environment Prerequisites

In the case of migration of CubicInt/Acc to CubicAB these prerequisites need to be completed before any migration takes place. They will have no effect on the operation of CubicInt/Acc so can be done independently of the migration.

Please replace X with A, B or D where relevant depending on which environment you are working in.

## Infrastructure

The below list show the servers needed for FTP and SSO. The new ones required are the SDA, SDM and SAS servers. Please verify they exist in A, B and D, at the time of writing the sba and sdm servers were not available in Environment D due to space issues.

The SAS, SBA and SDM servers need .NET 4.5.2 installed (the rest of the system is currently at .NET 4).

|  |  |  |
| --- | --- | --- |
| FXDC5SQL001 | SQL Server |  |
| FXDC5CAS001 | FTP Web Server |  |
| FXDC5CIS001 | FTP Internal Web Server |  |
| FXDC5PAR001 | PARE |  |
| FXDC5FAE001 | FAE Ctrl |  |
| FXDC5FAE002 | FAE Pipeline |  |
| FXDC5FAE003 | FAE Pipeline |  |
| FXDC5FAE004 | FAE Pipeline |  |
| FXDC5FTM001 | File Transfer Box |  |
| **FXDC5SAS001** | **Shared App Server** | **.NET 4.5.2** |
| FXDC5APF001 | FTP App fabric server |  |
| **FXDC5SBA001** | **FTP Service Bus Server** | **.NET 4.5.2** |
| **FXDC5SDM001** | **SDM Service** | **.NET 4.5.2** |
| FXDC5SCAS001 | SSO Web Server |  |
| FXDC5SCIS001 | SSO Internal Web Server |  |
| FXDC5SAPF001 | SSO App Fabric Box |  |

All servers need to remoting enabled on them – to achieve this RDP onto each box and run

winrm quickconfig -q

## Pare and Notification Shares

The share structure on FXDC5PAR001 and FXDC5SAS001 needs to be created. Please see the appendix for scripts to do this.

## Application Experience

The following windows services need to be started up and their start up type should be set to automatic.

Application Experience

WMI Performance Adapter

This should be done on the following boxes: FXDC5PAR001, FXDC5FAE001, FXDC5FAE002, FXDC5FAE003 and FXDC5FAE004

## Service Accounts + Perms

All Service accounts for Earth and Mercury should already have been created in CubicA, B and D. Please ensure xtest\zsvcpcee\_x has the necessary rights to run a scheduled task on FXDC5SAS001 (normally this is log on as batch rights, can be compared with CubicC)

## App Fabric

App Fabric should already be setup and configured in CubicA, B and D. We only need to verify it is up and running. In other environments it may need to be setup and installed from scratch. If that is the case then TFL build team can provide installer and instructions

**FXDC5APF001** – rdp on the box and run the following powershell. Get-CacheStatistics should return without errors

import-module DistributedCacheAdministration

Use-CacheCluster

Start-CacheCluster

Get-CacheStatistics -CacheName FAEIntraday

**FXDC5SAPF001** – rdp on the box and run the following powershell. Get-CacheStatistics should return without errors

import-module DistributedCacheAdministration

Use-CacheCluster

Start-CacheCluster

Get-CacheStatistics -CacheName SSO

## ServiceBus

Release 57 will include the Disruptions functionality. This requires servicebus to be installed and configured on the FXDC5SBA001 box.

Instructions to do this will be supplied separately. Once this is done the service bus connection strings need to be communicated back to TFL build team for inclusion in the deployment package.

Service Bus has been setup in CubicC. You can always refer back to it when setting up A,B and D

## Firewall and Networking

### CPA Shield

We need new aliases for use by CubicAB to direct to the existing CubicInt and CubicAcc CPA Shield. The creation of these should not affect the existing aliases that CubicInt/Acc are currently using for CPA Shield access.

|  |  |  |
| --- | --- | --- |
| **Environment** | **New Alias** | **Existing Value** |
| CubicA | cpashielda.prestige.test | cpashieldint.prestige.test |
| CubicB | cpashieldb.prestige.test | cpashieldaccred.prestige.test |
| CubicD | cpashieldd.prestige.test | na |

### PARE PCS Service Broker and EMV

Firewall rules need to configured to allow two way service broker communication between the CubicAB PARE databases and the existing PCS databases in CubicInt/Acc.

Any changes here should not affect the existing firewall settings for CubicInt/Acc service broker communications.

**Environment A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source System** | **Source IP** | **Destination System** | **Destination IP** | **Port Number** |
| FADC5FTM001 | 10.133.188.30 | \*EMVDP2-A | \*10.31.211.13 | TCP/22 |
| FADC5SQL001 | 10.133.188.10 | SERVICE BROKER-A | 10.31.50.128 | TCP/4022 |
| SERVICE BROKER-A | 10.31.50.128 | FADC5SQL001 | 10.133.188.10 | TCP/4022 |

\*NAT’ed to EMVDP2-INT

**Environment B**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source System** | **Source IP** | **Destination System** | **Destination IP** | **Port Number** |
| FBDC5FTM001 | 10.133.188.92 | \*EMVDP2-B | \*10.32.211.13 | TCP/22 |
| FBDC5SQL001 | 10.133.188.75 | SERVICE BROKER-A | 10.32.50.128 | TCP/4023 |
| SERVICE BROKER-B | 10.32.50.128 | FBDC5SQL001 | 10.133.188.75 | TCP/4023 |

\*NAT’ed to EMVDP2-ACC

**Environment D**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Source System** | **Source IP** | **Destination System** | **Destination IP** | **Port Number** |
| FDDC5FTM001 | 10.133.188.222 | EMVDP2-D | 10.34.211.13 | TCP/22 |
| FDDC5SQL001 | 10.133.188.205 | SERVICE BROKER-A | 10.34.50.128 | TCP/4025 |
| SERVICE BROKER-D | 10.34.50.128 | FDDC5SQL001 | 10.133.188.205 | TCP/4025 |

### SSO and Customer Care Urls

We need the following brand new aliases created to allow tester access to the customer care and SSO websites

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CubicX** | Target Machine | Target Port | Alias | Example Url |
| **Customer Portal** | FXDC5CAS001.xtest.fpsstagingint.local | 80 | x-cas.prestige.test | <http://x-cas.prestige.test> =  <http://FXDC5CAS001.xtest.fpsstagingint.local> |
| **Admin Portal** | FXDC5CAS001.xtest.fpsstagingint.local | 8080 | x-cas.prestige.test | <http://x-cas.prestige.test:8080> =  <http://FXDC5CAS001.xtest.fpsstagingint.local:8080> |
| **SDM Portal** | FXDC5CAS001.xtest.fpsstagingint.local | 8081 | x-cas.prestige.test | http://x-cas.prestige.test:80801 =  http://FXDC5CAS001.xtest.fpsstagingint.local:80801 |
| **SSO** | FXDC5SCAS001.xtest.fpsstagingint.local | 80 | x-sso.prestige.test | <http://x-sso.prestige.test> =  <http://FXDC5SCAS001.xtest.fpsstagingint.local> |

## BaseData

ABCD share basedata databases on a shared sql server at FTDC5SQL001. Currently at time of writing versions 18.2 and 17.1 are available on this server. If a newer version is needed then please arrange for that to be restored to the server and the TFL packages will need updating with an updated basedata string.

## Target Packages are Ready

Confirm with TFL that the CubicABD FTP, SSO and RSP packages are ready for the correct versions of SSO and FTP that we are targeting.

**Note to Build Team**

**RSP:** packages are available at MercuryS.CubicABCD.RSP.PAK.ALL build

**Release 56 Packages:** should be taken from build **Release56.FTP.PAK.ALL\_20150618.1** not from **Release56.FTP.PAK.ALL\_20150520.1**. The later contains some config errors – versions numbers are the same across these builds so no worries there.

**Release 57 Packages** – We cant go direct from Mercury to Release 57 because of installer changes, we must go Mercury -> Release 56 -> Release 57

Any Cubic A, B or C Release 57 packages taken from stabilisation will have errors in the FTM connection info. Be sure to take a non stabilisation package for Release 57 migration or upgrade. If you must use a stabilisation package, fix up the FTM info in the parameters files before deploying.

## RSP SSIS JOB creation

The RSP SSIS job in no longer created as part of the package deployment – this will have to be handled separately and it can be done as a prerequisite as it doesn’t impact the running of CubicInt/Acc

Create the RSP SSIS job running the supplied RSP deployment package.

Create the RSP sql agent job by running the script supplied in the appendix

# Migration/Build Plan

This comes in two flavours. Migration of CubicInt/Acc to CubicAB and a clean build of CubicD. The approaches are basically the same except that for Cubic AB we must copy the databases across from CubicInt/Acc whereas in CubicD we will use empty databases.

CubicInt/Acc will be unavailable during the entire of this migration

## Database Base lining/Migration

### Backup and Restore DBs

**CubicAB -** Shutdown CubicInt/Acc using the standard shutdown procedure – ensure all service broker queues are empty etc etc

**Be sure to disable all fae,pare and ftm services in cubicint/acc so they don’t come back online**

RDP in CubicInt/Acc and backup all the FTP databases using the powershell scripts supplied in the appendix.

Cubic Databases will also need backing up after the shutdown (PCS etc)

**CubicD** – In the case of CubicD, the TFL build team will provide database backups for the relevant version of FTP and SSO that we are targeting

**Note:** SDM only applies to release 57 and onwards – there are also 3 new ‘common services’ databases and 3 sbus databases from release 57 onwards but we do not backup and restore them. The sbus databases are created when installing sbus and the common services databases are tightly coupled to the sbus installation so we do not recreate them, rather the deployment will create them from scratch.

Copy the backups to FXDC5SQL001 and restore them to the relevant instances.

|  |  |
| --- | --- |
| Inst1 | FAE  SingleSignOn  ReportingRW  NotificationExtractRW |
| Inst2 | PARE |
| Inst3 | CS  Notification  SDM **– Release 57 only** |

### Fix up DBs

The appendix contains a zip file containg the sql scripts needed to fix up the databases. Unzip it onto the target sql server.

* For each database, run the fixup database script. This fixes up the permissions required on each DB. These scripts are sql cmd scripts so they must be run in sql cmd mode.

THE SQLCMD PARAMETERS MUST BE CORRECTLY SET BEFORE RUNNING THE SCRIPTS

* **CubicD only** – for each database, run the empty database script.

DO NOT DO THIS FOR CUBICAB – WE WANT TO PRESERVE DATA IN THE CUBICAB

* Un zip the certs to the d drive on the sql server so that you have 2 folders D:\SSB Certs and D:\SSB Certs Pare Notifications
* Run the sqlcmd script ServiceBrokerSetup\SetupServiceBroker\_PARE.sql on the PARE database

THE SQLCMD PARAMETERS MUST BE CORRECTLY SET BEFORE RUNNING THE SCRIPTS

* Run the sqlcmd script ServiceBrokerSetup\ SetupServiceBroker\_Notifications.sql on the Notification database

THE SQLCMD PARAMETERS MUST BE CORRECTLY SET BEFORE RUNNING THE SCRIPTS

## SSO

### Deploy package

Deploy the supplied SSO package in the usual way.

Please ignore any errors coming from the SSO preprod database role – they are false negatives.

### Create CASC admin user

This only applies to CubicD – as we emptied the database, we removed the casc admin user. Run the script provided in the appendix against the SingleSignOn database to create it.

## FTP

### Deploy package

Deploy the supplied FTP package in the usual way.

### Update CPA Certificate

Phil Baldwin @ cubic has details on this. A certificate somewhere needs updating to allow connection with the CPAShield – this can be tested by browsing to the unregistered card page in the customer portal

### Service Broker

Service Broker on the PARE and PCS databases will have to be fixed up to use the cubic certificates. This is usually handled by Cubic, Jonathon Griffin handled CubicC.

Once PARE <-> PCS service broker has been validated then we must fix up the PARE <-> Notifications service broker to use the new pare certificates.

Drop the existing [PareEndpointCertPublic] certificate from Inst3\master database and run the following sql on the Inst3\master database

*CREATE CERTIFICATE [PareEndpointCertPublic] AUTHORIZATION EmailNotificationEndpointUser FROM FILE = 'd:\location of current in use pare endpoint public cert\PareEndPointCert\_Pub.cert';*

PARE <-> Notifications connectivity can be verified using the sql scripts provided in the appendix

### Validate

Run the standard deployment tool post validation to bring all the services online and verify they are working.

Ignore any error from the oyster tap player service – its not needed in cubic int

## Rollback

If for any reason the migration of CubicAcc/Int fails then the rollback procedure is simply to shut down all TFL services in CubcAB and the repoint the PCS service broker to CubicInt/Acc.

That is all that should be needed.

# Appendix

## Create Pare Shares

RDP onto FXDC5PAR001 and run the following powershell script.



This will create the shares, unfortunately it does not setup the permissions, this will have to be done manually.

Do this by using the ‘share and storage’ mmc snap in and set the perms as follows

|  |  |  |
| --- | --- | --- |
| **Share Name** | **Share Perms** | **NTFS Perms** |
| TapFileProcessor | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| TapResultFile | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| SettlementValidationResult | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| SettlementResponseFiles | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| PareResponseFiles | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| StausList | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| RefundFiles | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| RevenueStatusListFiles | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |
| TdrFileProcessor | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\**zsvcfae**\_x– full control |
| RequestCardPayment | Everyone – Full Control | xtest\zsvcpare\_x – full control,  xtest\zsvcftm\_x– full control |

## Create Notification Shares

RDP onto FXDC5SAS001 and run the following powershell script.



This will create the shares, unfortunately it does not setup the permissions, this will have to be done manually.

Do this by using the ‘share and storage’ mmc snap in and set the perms as follows

|  |  |  |
| --- | --- | --- |
| **Share Name** | **Share Perms** | **NTFS Perms** |
| EmailNotification | Everyone – Full Control | xtest\zsvcpcee\_x – full control,  xtest\zsvcnotif\_x– full control,  xtest\zsvcftm\_x– full control |

## Backup FTP Databases

To backup the FTP dbs, rdp into the TS-DB1 box in the CubicInt/Acc FTP environment and run the following powershell script.



To backup the SSO dbs, rdp into the TS-DB1 box in the CubicInt/Acc SSO environment and run the following powershell script.



## Fix Up Database Scripts and Certs





## Create CASC Admin User

SET IDENTITY\_INSERT dbo.Users ON

IF NOT EXISTS (select \* from [dbo].[Users] where [Username] = 'cascadmin@tfl.gov.uk')

INSERT INTO [dbo].[Users] ([Id], [Username], [Password], [PasswordSalt], [CreatedDate], [AccountStatusId], [NumberOfFailedLoginAttempts], [IsLockedOut])

VALUES (2, 'cascadmin@tfl.gov.uk', '½²\_JÚB

ôýqãºí4‰ÓQó ,ràÅïÝSÞ°<c"s', 'q‡\_\_OÍX+=ªï‰', SYSDATETIMEOFFSET(), 1, 0, 0)

SET IDENTITY\_INSERT dbo.Users OFF

IF NOT EXISTS (select \* from [dbo].[ProductUsers] where Id = 3)

INSERT INTO [dbo].[ProductUsers] (Id, ProductId, CreatedDate, UserAccountStatusId, UserId, LastLoggedIn, IsLockedOut)

VALUES (3, 1, SYSDATETIMEOFFSET(), 1, 2, SYSDATETIMEOFFSET(), 0)

IF NOT EXISTS (select \* from [dbo].[ProductUsers] where Id = 4)

INSERT INTO [dbo].[ProductUsers] (Id, ProductId, CreatedDate, UserAccountStatusId, UserId, LastLoggedIn, IsLockedOut)

VALUES (4, 7, SYSDATETIMEOFFSET(), 1, 2, SYSDATETIMEOFFSET(), 0)

IF NOT EXISTS (select \* from [dbo].[ProductUserRoles] where ProductUserId = 4 and RoleId = 2)

INSERT INTO [dbo].[ProductUserRoles] (ProductUserId, RoleId) VALUES (4, 2)

IF NOT EXISTS (select \* from [dbo].[ProductUserRoles] where ProductUserId = 4 and RoleId = 3)

INSERT INTO [dbo].[ProductUserRoles] (ProductUserId, RoleId) VALUES (4, 3)

SET IDENTITY\_INSERT dbo.ProductUsers OFF

## Test PARE <-> Notifications Service Broker

-- Turn off internal activation on the Notification database

Use Notification

ALTER QUEUE [dbo].[http://tfl.gov.uk/Ft/Notification/Queue/Email] WITH STATUS = ON ,

RETENTION = OFF , ACTIVATION ( STATUS = OFF , PROCEDURE\_NAME = [dbo].[Email\_Activation] , MAX\_QUEUE\_READERS = 10 , EXECUTE AS N'dbo' ), POISON\_MESSAGE\_HANDLING (STATUS = ON)

-- Send a message from PARE

Use PARE

Declare @ConversationHandle1 UniqueIdentifier

exec SsbSendOnConversation

'http://tfl.gov.uk/Ft/Pare/CustomerNotification/Service/Pare',

'http://tfl.gov.uk/Ft/Notification/Service/Email',

'http://tfl.gov.uk/Ft/Notification/Contract/Email',

'http://tfl.gov.uk/Ft/Notification/Message/Email',

'<Notifications xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<Notification>

<NotificationCode>f8aee325-a6c9-4e94-9b46-bba98c93755a</NotificationCode>

<SendTo>

<CardHolder>

<PanToken>99999999999999999999999</PanToken>

<PaymentCardExpiryDate>0113</PaymentCardExpiryDate>

</CardHolder>

</SendTo>

<TemplateContentTags>

<PaymentAmount>9999</PaymentAmount>

<PaymentTransactionDateTime>2013-11-28T12:11:04.5030783+00:00</PaymentTransactionDateTime>

<PaymentCardPanToken>12345678912345678912345678</PaymentCardPanToken>

<PaymentCardExpiryDate>0113</PaymentCardExpiryDate>

<PaymentCardLast4Digits>1234</PaymentCardLast4Digits>

<PaymentCardType>Visa</PaymentCardType>

<DebtAmount>1</DebtAmount>

<DebtDate>2013-11-29T12:11:04.5030783+00:00</DebtDate>

<DebtIndicator>Y</DebtIndicator>

<AuthorisationAmount>2</AuthorisationAmount>

</TemplateContentTags>

</Notification>

</Notifications>',

@ConversationHandle = @ConversationHandle1 OUT

--Check the message was sent

Use Notification

SELECT count(\*)

FROM [Notification].[dbo].[http://tfl.gov.uk/Ft/Notification/Queue/Email]

WHERE CAST(message\_body AS NVARCHAR(MAX)) Like '%99999999999999999999999%'

-- Turn on activation VERY IMPORTANT, missing this will leave the database

-- in a non functional state

Use Notification

ALTER QUEUE [dbo].[http://tfl.gov.uk/Ft/Notification/Queue/Email] WITH STATUS = ON ,

RETENTION = OFF , ACTIVATION ( STATUS = ON , PROCEDURE\_NAME = [dbo].[Email\_Activation] , MAX\_QUEUE\_READERS = 10 , EXECUTE AS N'dbo' ), POISON\_MESSAGE\_HANDLING (STATUS = ON)

## Create RSP Sql Agent Job

Run the following sql on Inst1

USE [msdb]

GO

/\*\*\*\*\*\* Object: Job [RSP File Scheduler] Script Date: 28/05/2015 13:14:37 \*\*\*\*\*\*/

BEGIN TRANSACTION

DECLARE @ReturnCode INT

SELECT @ReturnCode = 0

/\*\*\*\*\*\* Object: JobCategory [RSP] Script Date: 28/05/2015 13:14:37 \*\*\*\*\*\*/

IF NOT EXISTS (SELECT name FROM msdb.dbo.syscategories WHERE name=N'RSP' AND category\_class=1)

BEGIN

EXEC @ReturnCode = msdb.dbo.sp\_add\_category @class=N'JOB', @type=N'LOCAL', @name=N'RSP'

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

END

DECLARE @jobId BINARY(16)

EXEC @ReturnCode = msdb.dbo.sp\_add\_job @job\_name=N'RSP File Scheduler',

@enabled=1,

@notify\_level\_eventlog=0,

@notify\_level\_email=0,

@notify\_level\_netsend=0,

@notify\_level\_page=0,

@delete\_level=0,

@description=N'No description available.',

@category\_name=N'RSP',

@owner\_login\_name=N'sa', @job\_id = @jobId OUTPUT

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

/\*\*\*\*\*\* Object: Step [Generate & Copy to the FTP location] Script Date: 28/05/2015 13:14:38 \*\*\*\*\*\*/

EXEC @ReturnCode = msdb.dbo.sp\_add\_jobstep @job\_id=@jobId, @step\_name=N'Generate & Copy to the FTP location',

@step\_id=1,

@cmdexec\_success\_code=0,

@on\_success\_action=1,

@on\_success\_step\_id=0,

@on\_fail\_action=2,

@on\_fail\_step\_id=0,

@retry\_attempts=0,

@retry\_interval=0,

@os\_run\_priority=0, @subsystem=N'TSQL',

@command=N'DECLARE @return\_value int

EXEC @return\_value = [rsp].[ExecuteSSISPackage]

0, -- @startDate = 0 meaning coming from scheduled job

N''1,2,3'', -- @allocationFileTypes

0 -- @testing

',

@database\_name=N'ReportingRW',

@flags=0

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

EXEC @ReturnCode = msdb.dbo.sp\_update\_job @job\_id = @jobId, @start\_step\_id = 1

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

EXEC @ReturnCode = msdb.dbo.sp\_add\_jobschedule @job\_id=@jobId, @name=N'Daily @5AM',

@enabled=1,

@freq\_type=4,

@freq\_interval=1,

@freq\_subday\_type=1,

@freq\_subday\_interval=0,

@freq\_relative\_interval=0,

@freq\_recurrence\_factor=0,

@active\_start\_date=20131014,

@active\_end\_date=99991231,

@active\_start\_time=50000,

@active\_end\_time=235959,

@schedule\_uid=N'7ce36865-a50c-4bfa-bd0d-c53df813e360'

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

EXEC @ReturnCode = msdb.dbo.sp\_add\_jobserver @job\_id = @jobId, @server\_name = N'(local)'

IF (@@ERROR <> 0 OR @ReturnCode <> 0) GOTO QuitWithRollback

COMMIT TRANSACTION

GOTO EndSave

QuitWithRollback:

IF (@@TRANCOUNT > 0) ROLLBACK TRANSACTION

EndSave:

GO