Installation Guide  
  
for the  
  
INTEL-FS Project

*Contract No CO-12401-INTEL-FS*

F0057 62790360 593 v1.0

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Installation GUIDE  
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Contract No CO-12401-INTEL-FS

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Prepared by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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# Scope

## Identification

Project name : INTEL-FS

Addressee : NATO Communications and Information Agency

Document title : Project Installation Guide

Dependencies : -

Document name : INTEL-FS Installation Guide F0057\_62790360-593\_1.0.doc

Process : Development

Origin : Thales Communications & Security

Document Reference : F0057 62790360 593 v1.0

## Applicability

1. This document is the Installation Guide for the NATO Intelligence Functional Services (NATO INTEL-FS) Programme related to the Contract CO-12401-INTEL-FS.

## Document Purpose

1. This Installation Guide describes how to install and configure INTEL-FS system 1.0 on INTEL-FS server.

## Relationship to other documents

Other documents related to this document are as follows:

* Project Management Plan for the INTEL-FS Project [Ref. 1]

## Document Overview

1. The document is structured as follows:

* Chapter 1 introduces the document and its purpose.
* Chapter 2.1 describes INTEL-FS system installation workflow
* Chapter 2.2 describes INTEL-FS prerequisites
* Chapters 2.3 to 2.8 describes how to install,configure and validate INTEL-FS system,
* Chapter 3 describes how to perform a distributed installation where INTEL-FS system is installed on 2 servers
  + INTEL-FS software is installed on a first server,
  + Databases hosted in SQL Server are deployed on a remote server
* Chapter 4 describes how to uninstall INTEL-FS system
* Chapter 5 includes additional informations
  + Windows registry usage
  + List of programs installed by INTEL-FS system deployement
  + Update mode description
  + Troubleshooting

## Document specific abbreviations

| Abbreviation | Denomination |
| --- | --- |
| **ANP** | Afghan National Policy |
| **BICES** | Battlefield Information Collection and Exploitation Systems |
| **Bi-SC** | Bi-Strategic Command |
| **BSO** | BattleSpace Object |
| **CCIR** | Commander’s Critical Information Requirements |
| **CCIRM** | Commander’s Critical Information Requirements Management |
| **COP** | Common Operational Picture |
| **COTS** | Commercial Off-The-Shelf |
| **CSD** | Coalition Shared Dataserver |
| **CXP** | Collection and eXploitation Plan |
| **EEFI** | Essential Elements of Friendly Information |
| **FFIR** | Friendly Forces Information Requirements |
| **HQ** | HeadQuarters |
| **HUMINT** | HUMan INTELligence |
| **ICP** | Intelligence Collection Plan |
| **IED** | Improvised Explosive Device |
| **IPB** | Intelligence Preparation of the Battlespace |
| **ISAF** | International Security Assistance Force |
| **ISR** | Intelligence Surveillance Reconnaissance |
| **JCOP** | Joint Common Operational Picture |
| **JTS** | Joint Targeting System |
| **KIA** | Killed In Action |
| **LTIOV** | Last Time Information of Value |
| **MIDB** | Modernized Integrated Database |
| **MIP** | Multilateral Integrated Programme |
| **ON** | Organisational Node |
| **PIR** | Priority Intelligence Requirement |
| **RFI** | Request For Information |
| **SIGINT** | SIGnal INTelligence |
| **SIR** | Specific Intelligence Requirement |
| **SMIR** | Strategic Military Intelligence Requirements |

## Referenced Documents

### Related Documents

| Ref. | Document Reference | Issued By | Title |
| --- | --- | --- | --- |
| 1. [PMP] | F0057 62450208 556 | THALES | Project Management Plan for the INTEL-FS Project |
| 1. [ISPS] | F0057 62790360 502 | THALES | Software Product Specification for the INTEL-FS Project |
| 1. [TM] | F0057 62790360 194 | THALES | Technical Manual for the INTEL-FS Project |

## Conventions

INTEL-FS websites folders, INTEl-FS data folders, INTEL-FS SQL databases folders and INTEL-FS SQL databases logs folders are configurable. Yet in this document for clarity reason, the following conventions are used

* INTEL-FS websites folder name is replaced with E:\WebAppli
* INTEL-FS data folder name is replaced with E:\IntelFsData
* INTEL-FS SQL databases folder name is replaced with F:\
* INTEL-FS SQL databases logs folder name is replaced with G:\

# Installation and setup

## Installation Workflow

The below figure synthesizes INTEL-FS system installation workflow

Check prerequisites

Cf 2.2

Configure Windows Server

Cf 2.4

Is SQL server localled to INTEL-FS server ?

Install and configure SQL Server

Cf 2.5

Install and configure Squeeze Server

Cf 2.6

Install and configure INTEL-FS application

Cf 2.7

Install and configure Cartographic Server

Cf 2.8

Is SQL server installed on INTEL-FS server ?

Distributed installation

Cf 3.

**YES**

**NO**

**NO**

**YES**

## Prerequisites

### Infrastructure prerequisites

The following server interfacing with INTEL-FS shall be available

1. Enterpise Management System (SCOM): SCOM 2012 R2
2. E-Mail: Exchange Server 2007 SP3
3. Symantec Backup Exec: 2012 SP4
4. Directory Services: Active directory Windows Server 2008 R2 SP1
5. Core GIS services: v1.0.5

### Server prerequisites

#### Hardware

1. INTEL-FS server hardware configuration meets the minimum hardware configuration specified in Annex 3 to the SRS. In particular, INTEL-FS Data partition shall be configured as to allow storing 10 days of INTEL-FS logs (estimated required volume is 13GB)

#### Software

The following softwares shall be installed on INTEL-FS server

1. Windows Server 2008 R2 Enterprise x64 SP1 (English Version) with KB bundle defined by NCIA at the time of installation.
2. .NET Framework 4.0 (4.0.30319.01) with KB
   * + - 2487367,
       - 2604121,
       - 2656351,
       - 2656368,
       - 2686827,
       - 2729449,
       - 2737019
3. Mac Afee VirusScan 8.8

The following item shall be available

1. Microsoft SQL Server 2008 R2 Enterprise x64 (10.50.1600.1) installation disk.
2. Microsoft SQL Server 2008 R2 x64 SP2 KB “SQLServer2008R2SP2-KB2630458-x64-ENU.exe”.

#### Miscellaneous

1. Account used for installation shall be a user domain account with local administrator rights on the INTEL-FS server
2. Remote desktop access to INTEL-FS server enabled for installation account. This access is only needed in case of a remote installation.
3. A workstation accessing INTEL-FS server with a valid account
4. Page file size shall be equal to 1.5 x INTEL-FS server RAM size

#### Configuration information

During the installation, configuration informations are needed. These informations shall be available before starting the installation

Information below is used during SQL server installation

1. SQL server product key
2. SQL server system administrator (sa) account password

Information below is used during Squeeze Server COTS installation

1. Squeeze Server 3.0 activation credential (Company name and serial number)

Informations below are used during INTEL-FS installation

1. A valid certificate used for SSL authentication
2. Logical identifier of the site (server name)
3. Default organizational node name
4. Guest account login name
5. Intel FS administrator password
6. SMTP (E-Mail) server hostname
7. Optionnaly, publication source of the site if the default value “ACO” is not relevant.
8. Optionnaly, a domain value file.
9. Optionnaly, a new “groups of permition” .csv configuration file
10. NATO systems server interfacing with the INTEL-FS server IP addresses

Informations below are used during cartographic server installation

1. ArcGISServer 10.0 SP5 software authorization file
2. Core GIS server hostname.
3. Mandatory informations to configure Core GIS map services (IE WMS and WFS url)
4. ArcSOM, ArcSOC and Webservices ArcGISServer local services account password

Information below is used for iBridge configuration.

1. The UNC of a shared folder created on a specific server and the list of credentials accessing this shared folders. This folder including .ibg (ibridge mapping configuration) files and BSO/LEP icons shall be mounted on this workstation.

### Workstation prerequisites

1. To avoid media player display issue, the following KB

IE10-Windows6.1-KB3078071-x64.msu

IE10-Windows6.1-KB3087985-x64.msu

shall be installed

1. Windows 7 Enterprise SP1
2. Microsoft Windows Internet Explorer 8.0 9.0 or 10.0
3. Microsoft SilverLight 5.1
4. Microsoft Office 2010 SP1
5. Microsoft Windows Media Player 12
6. Adobe Acrobat Reader 11.0.9
7. A valid certificate used for SSL authentication shall be installed. To learn how to install this certificate, please refer to chapter “Certification Authority certificate installation” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .
8. “Include local directory path when uploading files to a server” Internet Explorer security setting shall be enabled. To learn how to configure that setting, please refer to chapter “Internet explorer configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).
9. Internet Explorer pop up windows blocking from INTEL-FS site shall be turned off. To learn how to configure that setting, please refer to chapter “Internet explorer configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).
10. “Compatibility View” Internet Explorer 10 mode shall be enabled. To learn how to configure that setting, please refer to chapter “Internet explorer configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).
11. INTEL-FS server shall be declared as part of the local intranet. To learn how to configure that setting, please refer to chapter “Declaring INTEL-FS server as part of the local intranet” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

## Installation package

The section below describes the files, located on the DVD, used to install INTEL-FS  
  
The following conventions are used for naming these files

* <Date> File creation date
* <Version> File version
* <Patch> Patch number

The INTEL-FS installation package located on DVD “**DVD IntelFS Application**” is composed of:

* INTEL-FS installer (<Date>\_NU\_IntelFSInstaller\_<Version>\_win64\_en.exe)
* Optionally a list of patches (<Date>\_NU\_Patch-<Patch>\_<Version>\_win64\_en.zip)
* INTEL-FS cartographic server installer (<Date>\_NU\_CartographicServerInstaller\_<Version>\_en.exe)
* JOIIS migration tools (<Date>\_NU\_JOIIS-Migration-Tools\_<Version>\_win64\_en.zip)
* NITB migration tools (<Date>\_NU\_NITB-Migration-Tools\_<Version>\_win64\_en.zip)
* SqueezeServer installer (SqueezeServerInstaller.exe)
* Configuration scripts folder zipped (<Date>\_NU\_ConfigurationScripts\_<Version>.zip)
* Gazetteer installation zipped file (<Date>\_NU\_Gazetteer\_<Version>.zip)
* iBridge configuration files folder zipped (<Date>\_NU\_iBridge-Mapping-Files\_<Version>.zip)
* iBridge symbology files folder zipped (<Date>\_NU\_iBridge-Symbology\_<Version>.zip)
* iBridge icons files folder zipped (<Date>\_NU\_iBridge-Icons\_<Version>.zip)
* iBridge printers icons files folder zipped (<Date>\_NU\_iBridge-Printers\_Icons\_<Version>.zip)
* Geolocalized image file used to validate cartographic server installation (n\_3001a.nsf)
* Transition filters files folder zipped (<Date>\_NU\_AdvancedFilters\_<Version>.zip)
* External servers messages schemas files folder zipped (<Date>\_NU\_Schema\_<Version>.zip)
* LEP templates files folder zipped (<Date>\_NU\_LEPTemplates\_<Version>.zip)
* Commercial EULA files zipped (<Date>\_NU\_ CommercialEULAFiles\_<Version>.zip)
* Free & OSS EULA files zipped (<Date>\_NU\_FreeOSSEULAFiles\_<Version>.zip)
* Documentation files zipped (<Date>\_NU\_DocumentationFiles\_<Version>.zip)
* WebServices certificates tools zipped (<Date>\_NU\_WSCertificateTools\_<Version>.zip)

The following COTS are located on DVD “**DVD IntelFS COTS (1)**”

* SQLSysClrTypes (64 bit) installer (SQLSysClrTypes (64 bit).msi)
* Microsoft .NET Framework 4.0 (dotNetFx40\_Full\_x86\_x64.exe)
* Patches for Microsoft .NET Framework 4.0:
  + 2487367 (NDP40-KB2487367-x64.exe)
  + 2604121 (NDP40-KB2604121-x64.exe)
  + 2656351 (NDP40-KB2656351-x64.exe)
  + 2656368 (NDP40-KB2656368-v2-x64.exe)
  + 2686827 (NDP40-KB2686827-x64.exe)
  + 2729449 (NDP40-KB2729449-x64.exe)
  + 2737019 (NDP40-KB2737019-x64.exe)

The following documentations are located on DVD “**DVD IntelFS Documents**”

* INTEL-FS installation guide up to date
* INTEL-FS technical manual up to date

The INTEL-FS configuration scripts, zipped in the archive <Date>\_NU\_ConfigurationScripts\_<Version>.zip on DVD “**DVD IntelFS Application**”, are

* SqueezeServer IIS Configuration script file (SetSqueezeIISConfiguration.cmd)
* ArcGIS Server IIS Configuration script file (SetArcGISIISConfiguration.cmd)
* ACL Configuration script file (SetFoldersPermissions.ps1)
* ArcGIS IIS issues fixing script (FixArcGISIISIssue.ps1)

This archive shall be unzipped before starting INTEL-FS system installation.

## Windows Server

As described in chapter 1.8, Windows Server is already installed on INTEL-FS server, this chapter describes how to configure it.

### “Internet Explorer Enhanced Security Configuration” uninstallation

|  |  |
| --- | --- |
| Open “**Control Panel”** Click **“Programs”**  Click **“Programs and Features”**  Click “**Turn Windows features on or off”**  Select **“Server Manager”** node  In “**Security Information”** area, click on “**Configure IE ESC”** |  |
| **“Internet Explorer Enhanced Security Configuration”** wizard is displayed  Turn on “**Off”** for “**Administrators”** and “**Users”**  Click “**OK”** button to validate and close that window | Description: Uninstall_IE_ESC |

### “Network DTC access” activation

|  |  |
| --- | --- |
| Click “**Start”**, click “**Run”**, type “**dcomcnfg”** and then click “**OK”** to open “**Component Services”**.  In the console tree, browse to “**Component Services**, **Computers**, **My Computer**, **Distributed Transaction Coordinator,** **Local DTC”**. |  |
| Following “**Windows security alert**” window may appear  Click “**Allow access**” button | C:\Users\T0140819\Desktop\screenshot\screenshot\fig1.PNG |
| Right click “**Local DTC”, in pop up menu select** “ **Properties”** to display the “**Local DTC Properties”** wizard.  Click the “**Security”** tab.  Set the following options  **- Network DTC Access**  **- Allow Inbound**  **- Allow Outbound**  **- Mutual Authentication Required**  Click “**OK” button**. | Description: network_DTC_access |
| Click “**YES**” button |  |
| Click “**OK**” button |  |
| In “**Control Panel**” click “**System and Security**” and click “**Allow a program through Windows Firewall**” in “**Windows Firewall**” section. |  |
| **“Allowed Programs”** wizard is displayed,  Click “**Change settings**” button |  |
| select “**Distributed Transaction Coordinator”** for “**Domain**” “**Home/Work (Private)”** and “**Public”**  Click “**OK”** button to validate and close window |  |

### “File services” server role activation

|  |  |
| --- | --- |
| Open “**Control Panel**”  Click “**Turn Windows features on or off**”  Select “**Roles**” node  In the **“Roles Summary**”, click “**Add Roles**”  Select “**Skip this page by default**” checkmark  Click “**Next >**” button | Description: Description: 1 |
| Select “**File Services**”  Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| Click “**Install**” button |  |
| Installation is in progress |  |
| Click “**Close**” |  |

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### “Web Server (IIS)” server role activation

|  |  |
| --- | --- |
| Open “**Control Panel**”  Click “**Turn Windows features on or off**”  Select “**Roles**” node  In the **“Roles Summary”**, click “**Add Roles**”  In the **“Add Roles Wizard**”, select “**Web Server (IIS)**”  Click “**Next >**” button |  |
| Click “**Next >**” button | Description: Description: 3 |
| In the “**Select Role Services**” wizard, select all the roles except  “WebServer\Common HTTP Features\Directory Browsing”  “WebServer\Common HTTP Features\WebDAV Publishing”  “WebServer\Application Development\ASP”,  “WebServer\Application Development\CGI”,  “WebServer\Application Development\Server Side Includes”  “WebServer\Security\Digest Authentication”  “Management Tools\IIS 6 Management Compatibility\IIS 6 WMI Compatibilty”  “Management Tools\IIS 6 Management Compatibility\IIS 6 Scripting Tools”  “Management Tools\IIS 6 Management Compatibility\IIS 6 Management Console”  “FTP Server”  “IIS HostableWeb Core”  Click “**Next >**” button |  |
| Click “**Install**” button once make sure that 35 roles listed in cell below have been selected. |  |
| List below includes roles that shall be selected.   |  | | --- | | **Web Server** |  |  |  | | --- | --- | |  | Common HTTP Features |  |  |  | | --- | --- | |  | Static Content |  |  |  | | --- | --- | |  | Default Document |  |  |  | | --- | --- | |  | HTTP Errors |  |  |  | | --- | --- | |  | HTTP Redirection |  |  |  | | --- | --- | |  | Application Development |  |  |  | | --- | --- | |  | ASP.NET |  |  |  | | --- | --- | |  | .NET Extensibility |  |  |  | | --- | --- | |  | ISAPI Extensions |  |  |  | | --- | --- | |  | ISAPI Filters |  |  |  | | --- | --- | |  | Health and Diagnostics |  |  |  | | --- | --- | |  | HTTP Logging |  |  |  | | --- | --- | |  | Logging Tools |  |  |  | | --- | --- | |  | Request Monitor |  |  |  | | --- | --- | |  | Tracing |  |  |  | | --- | --- | |  | Custom Logging |  |  |  | | --- | --- | |  | ODBC Logging |  |  |  | | --- | --- | |  | Security |  |  |  | | --- | --- | |  | Basic Authentication |  |  |  | | --- | --- | |  | Windows Authentication |  |  |  | | --- | --- | |  | Client Certificate Mapping Authentication |  |  |  | | --- | --- | |  | IIS Client Certificate Mapping Authentication |  |  |  | | --- | --- | |  | URL Authorization |  |  |  | | --- | --- | |  | Request Filtering |  |  |  | | --- | --- | |  | IP and Domain Restrictions |  |  |  | | --- | --- | |  | Performance |  |  |  | | --- | --- | |  | Static Content Compression |  |  |  | | --- | --- | |  | Dynamic Content Compression |  |  |  | | --- | --- | |  | **Management Tools** |  |  |  | | --- | --- | |  | IIS Management Console |  |  |  | | --- | --- | |  | IIS Management Scripts and Tools |  |  |  | | --- | --- | |  | Management Service |  |  |  | | --- | --- | |  | IIS 6 Management Compatibility |  |  |  | | --- | --- | |  | IIS 6 Metabase Compatibility | | |
| Installation is in progress | Description: Description: 5 |
| Click “**Close**” button Close all windows |  |

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### “network COM+ access” and “ASP .NET” server features activation

|  |  |
| --- | --- |
| Open “**Control Panel”**  Click “**Turn Windows features on or off”**  In the “**Features Summary”** area, click “**Add Features”**  Unfold“**.NET Framework 3.5.1 Features**”, select “**.NET Framework 3.5.1**”, “**WCF Activation**”  Unfold “**Windows Process Activation Service”**, select  “**Process Model**”, “**.NET Environment**”**,**“**Configuration APIs**"  Click “**Next >**” button | Description: Description: 4 |
| Description: Description: 3 |
| Click “**Install**” button | Description: Description: 8 |
| Installation is in progress |  |
| Click “**Close**” button and close all windows | Description: Description: 9 |

### “Application Server” server role activation

|  |  |
| --- | --- |
| Open “**Control Panel**”  Click “**Turn Windows features on or off**”  Select “**Roles**” node  In the **“Roles Summary”**, click “**Add Roles**”  In the **“Add Roles Wizard**”, select “**Application Server**” |  |
| “**Add Roles Wizard**” is displayed  Click “**Add Required Role Services**” button | Description: 5 |
| Click “**Next >**” button | Description: 10 |
| Click “**Next >**” button | Description: 11 |
| Select “**COM+ Network Access**” “.**NET Framework 3.5.1**” “**TCP Port Sharing**” and“**HTTP Activation**”checkmark  Click “**Next >**” button |  |
| Click “**Install”** button |  |
| Installation is in progress |  |
| Click “**Close**” button  Close all windows. |  |
| Using Server manager make sure that the 10 following “Role Services” of “Application Server” are installed.  .NET Framework 3.5.1  COM+ Network Access  TCP Port Sharing  Windows Process Activation Service Support  HTTP Activation  TCP Activation  Named Pipes Activation  Distributed Transactions  Incoming Remote Transactions  Outgoing Remote Transactions | |

### “Active Directory Lightweight Directory Services” server role activation

|  |  |
| --- | --- |
| Select “**Start>Control Panel**”  Double-click “**Turn Windows features on or off**”  In the “**Roles**” panel, double- click “**Add Roles**” |  |
| In “**Add Roles Wizard**”, select “**Active Directory Lightweight Directory Services**”  Click “**Next >**” button. |  |
| Click “**Next >**” button. |  |
| Click “**Install**” button. |  |
| Installation is in progress |  |
| Installation is successfully done.  Click “**Close**” button and close all windows. |  |

After ADLS role configuration, check that “Active Directory Web Services” windows service is disabled. Procedure below describes how to proceed.

|  |  |
| --- | --- |
| Select “**Start>Administrative Tools> Services**” |  |
| Make sure that “**Active Directory Web Services**” startup type is set to disabled  If not right click “**Active Directory Web Services**”, in pop up menu select “**Stop**”  WARNING: If “**Active Directory Web Services**” service is not started, this step shall be ignored |  |
| When “**Active Directory Web Services**” service is stopped, right click “**Active Directory Web Services**”, in pop up menu select “**Properties**” |  |
| In “**Startup type:**” drop down list select “**Disabled**”  Click “**OK**” button |  |
| Close “**Services**” wizard |  |

### “Audit object access failure” activation

Setting audit object access failure in local security policy is needed to monitor unauthorized access to audit log file.

|  |  |
| --- | --- |
| Select “**Start > Administrative Tools > Local Security Policy**” |  |
| In “**Local Security Policy**” Wizard, expand “**Local Policies**” and click “**Audit Policy**” in the left pane  . |  |
| in the right pane, right click “**Audit object access**” and then select “**Action > Properties”**. |  |
| In “**Audit object access Properties**” wizard, select “**Failure**” checkmark  Click “**Apply**” button, then click “**OK**” button. |  |
| Close the “**Local Security Policy**” wizard. |  |

### “Lock pages in memory” policy to “Network Service” account adding

The “Lock pages in memory” policy is added to the user “Network Service” to improve SQLServer performances.

|  |  |
| --- | --- |
| Select “**Start > Administrative Tools > Local Security Policy**” |  |
| In “**Local Security Policy**” Wizard, expand “**Local Policies**” and click “**User Rights Assignment**” in the left pane |  |
| in the right pane, double-click “**Lock pages in memory**”  Click “**Add User or Group…**” button. |  |
| In “**Enter the object names to select**”, type “**NETWORK SERVICE**”.  Click “**Check Names**” button.  Click “**OK**” button. |  |
| Close the “**Local Security Policy**” window. |  |

### “Power Options” configuration

”Power options” configuration are modified to improve performance.

|  |  |
| --- | --- |
| Select “**Start>Control Panel**”  Click “**Power Options**”  Click ”**Change settings that are currently unavailable**” |  |
| Select “**High performance**”  Close the window |  |

### ASP.NET configuration

To improve performance, set the retail attribute of deployement element of machine.config file to true.

More informations regarding this attribute are available at the following URL

<https://msdn.microsoft.com/en-US/library/ms228298%28v=vs.100%29.aspx>

The procedure below describes how to set this attribute.

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| Using the Command Prompt window, edit machine.config configuration file located in folder C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Config with notepad  Type in “**notepad C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Config\machine.config**“ |  |
| Using notepad set this block <deployment retail="true"/> inside block  <configuration>  <system.web>  <deployment retail="true"/> shall be set at the top position  …………….  </system.web>  </configuration>  Inside machine.config file | |
| Save machine.config file  Close all windows |  |

### ACL configuration

On each server partition used for INTEL-FS installation (Web Appli, Data, DB et DB Log), set the default ACL using SetFolderPermissions.ps1 powershell script extracted from “**20160114\_NU\_ConfigurationScripts\_1.0.0.zip”** archive file located on the **“DVD IntelFS Application”** installation disk

Copy this script on INTEL-FS server desktop

|  |  |
| --- | --- |
| Using a command prompt window run in administrative mode,  Browse to the folder where the script SetFoldersPermissions.ps1 has just been copied  Execute powershell interpretor  Type in **powershell** |  |
| Type in **get-executionpolicy**  Keep in mind the return value |  |
| Type in **set-executionpolicy unrestricted** |  |
| For each drives containing Web application, Data, DB and DB Log Folder (E.G. E:, F: G:), execute SetFoldersPermissions.ps1 script  WARNING: This script shall not be executed on the OS (C:) drive  Type in  **.\SetFoldersPermissions.ps1 E:\**  **.\ SetFoldersPermissions.ps1 F:\**  **.\ SetFoldersPermissions.ps1 G:\** |  |
| Type in **set-executionpolicy <value>**  Where **<value>** is the value previously returned by get-executionpolicy command  Close all windows |  |

## SQL Server

This chapter shall be ignored if INTEL-FS SQL databases are hosted on a remote SQL server.

### SQL Server installation

|  |  |
| --- | --- |
| Insert “**Microsoft SQL Server 2008 R2 installation disk**” in DVD drive  Browse to “**D:\English\SQLServer2008R2\Enterprise**” folder  Launch “**SQL Server 2008 R2 Enterprise”** installation by double-clicking “**setup.exe**” |  |
| Click on “**Options**” and verify that the processor type has been correctly detected x86 (32 bits) or x64 (64 bits) | Description: Description: 33 |
| Click “**Installation**” and click “**New installation or add features to an existing installation**” | Description: Description: 16 |
| Click “**OK**” button | Description: Description: 17 |
| Select “**Enter the product keys**” checkmark and enter the key  Click “**Next >**” button |  |
| Check “**I accept the license terms**”  Click “**Next >**” button | Description: Description: 19 |
| Click “**Install**” button | Description: Description: 20 |
| Click “**Next >**” button | Description: Description: 21 |
| Select “**SQL Server Feature Installation**” radio button  Click “**Next >**” button | Description: Description: 22 |
| Select the following options:   * **Full-Text Search** * **Management Tools –Complete**   Click “**Next >**” button |  |
| Click “**Next >**” button | Description: Description: 24 |
| Select “**Default Instance**” radio button.  In “**Instance root directory:**” input field, type in “**F:\**”  Other editable values shall be kept unchanged  Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| Select “**Service accounts**” tab  Select  **NT AUTHORITY\NETWORK SERVICE**  in the **Account Name**  for the following services :   * **SQL Server Agent** * **SQL Server Database Engine**   Set “**SQL Server Agent**” service startup type to “**Automatic**”  Click “**Next >**” button |  |
| Select “**Collation**” tab  Select “**Customize…**” button |  |
| Select “**SQL collation, used for backwards compatibility**” checkmark  In associated list select “**SQL\_Latin1\_General\_CP1\_CI\_AS**”  Click “**OK**” button |  |
| Click “**Next >**” button |  |
| Select “**Mixed Mode (SQL Server authentication and Windows authentication)**” radio button  Type in SQL server system administrator account password (cf chapter 2.2.2.4 ) in “**Enter password**” and “**Confirm password**” input fields  Click “**Add Current User**” buttonto add the current login in the “**Specify SQL Server administrators**” area  If necessary, add “**NCIA SQL Administrators**” group to SQL Server admnistrators group, by clicking “**Add…**” button  Click “**Next >**” button | Description: Description: 28 |
|  |  |
| Click “**Next >**” button | Description: Description: 29 |
| Click “**Next >**” button | Description: Description: 30 |
| Click “**Install**” button |  |
| Click “**Close**” button and close all windows | Description: Description: 32 |

|  |  |
| --- | --- |
| To check SQL server features installation  Run “**Start > All programs > Microsoft SQL Server 2008 R2 > Configuration Tools > Sql Server Installation Center (64-bits)**” |  |
| Select “**Tools**” |  |
| Select “**Installed SQL Server features discovery report**”  Installed features are displayed  **Database Engine Services Full-Text Search”**  **Management Tools -Basic**  **Management Tools – Complete**  Close all windows |  |

|  |  |
| --- | --- |
| To install SQL server 2008 R2 x64 SP2  Run “**SQLServer2008R2SP2-KB2630458-x64-ENU.exe**” located on SQL server installation disk  Click “**Next >**” button |  |
| Click “**I accept the license terms**” checkmark  Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| When file check is completed,  Click “**Next >**” button |  |
| Click “**Update**” button |  |
| Updating is in progress. It may takes few minutes |  |
| Click “**Close**” button |  |

### SQL Server configuration

|  |  |
| --- | --- |
| Click “**Start > All programs > Microsoft SQL Server 2008 R2> SQL Server Management Studio**”  Type in “**localhost**” in “**Server name**:” input area  Click “**Connect”** button | Description: Description: 34 |
| Right click on ” **localhost”** and select “**Properties”** in popup menu |  |
| Select “**Memory**” page |  |
| In “**Maximum server memory (in MB):**” input field, type in a value leaving 24Gb available for the OS (E.G. for a server with 64GB type in 40690Mb I.E 40GB)  In “**Minimum memory per query (in KB):**” input field, type in 1024 |  |
| Select “**Advanced**” page. In “**Max Degree of Parallelism**” input field, type in 6.  Click “**OK**” button. |  |
| Unfold “**localhost > Security**”  Right click on ” **Logins**” and select “**New Login…”** in popup menu | Description: Description: 35 |
| Click “**Search…**”button  “**Select User or Group**” wizard is displayed  In **”Enter the object name to select**” area, type in “**NETWORK SERVICE”,**  Click “**Check Names**” button,  Click “**OK**” button. |  |
| Select “**Server Roles”**  Select “**public**” and “**sysadmin**”checkmarks  Click “**OK**”button | Description: Description: 38 |
| In ”**Logins**” folder, right click on ”**sa**” and select “**Properties**” in popup menu |  |
| Select “**Status**” page |  |
| Select “**Disabled**”  Click “**OK**”button |  |
| Right click on ”**localhost>Databases>System Databases>tempdb”** and select “**Properties”** in popup menu |  |
| Select “**Files**” page |  |
| Set “**Initial Size (MB)**” field of file “tempdev” to 8192.  Select the “**…**” button on “**Autogrowth**” column for the file “tempdev”.  In “**Change Autogrowth for tempdev**” window, check “**Enable Autogrowth**”,  set “**File Growth**” to 10 Megabytes,  set “**Unrestricted File Growth**”  Click “**OK**”button |  |
| Click “**Add**” button  In newly created entry,  Type in “tempdev2” in “**Logical Name**” input text field,  Type in “tempdb2.mdf” in “**File Name**” input text field  Set the same values of “**Initial Size (MB)**” and “**Autrogrowth**” as for “tempdev” |  |
| Repeat the previous action for 4 other files, with “**Logical Name**” = tempdev3, tempdev4, tempdev5, tempdev6 and “**File Name**”= tempdb3.mdf, tempdb4.mdf, tempdb5.mdf, tempdb6.mdf.  The values of “**Initial Size (MB)**” and “**Autrogrowth**” must be the same as for “tempdev”.  Click “**OK**” button.  Close all windows. |  |

## Squeeze Server

### Squeeze Server installation

|  |  |
| --- | --- |
| Insert **“DVD IntelFS Application”** in DVD drive and run **SqueezeServerInstaller.exe** |  |
| Click “**Next**”button |  |
| Select “**I accept the terms of the license agreement**” checkmark  Click “**Next**”button |  |
| Click “**Next**”button |  |
| **NOTA**: Credentials below are used by Squeeze Server installer to create a MySql server account. That’s a temporary step as My Sql will be removed later.  In ”**User name:**” input text field, type in “**squeeze**”**,**  In ”**Password:**” secured input text field, type in “**<Any-string>**”,  In ”**Confirm password:**” secured input text field, type in “**<Any-string>**”,  Click “**Next**”button |  |
| Click “**Next**”button |  |
| Click “**Change**”button |  |
| In ”**Path:**” input text field, type in “E:\SqzServer” if Web Application will be installed on E: drive  **WARNING**: Squeeze server and Web Application shall be installed on the same drive  Click “**OK**”button |  |
| Click “**Next**”button |  |
| Squeeze Server installation configuration is in progress |  |
| Click “**Next**”button |  |
| Squeeze server installation is in progress.  The installation steps are displayed  **WARNING** if there is a blocking error during installation, go to chapter 5.4.1 to troubleshoot this issue. |  |
| Click “**Finish**”button |  |
| Server restarting may last a couple of minutes.  When server restarting is completed, log back on server  SqueezeServer installer may not remove some temporary files used during installation;  these 24 files with 07/11/2007 as creation date may be located on drives F:\ or G:\.  If there are such files, removed them using windows explorer. |  |

### Squeeze Server configuration

#### Unused COTS removal

“My SQL Server 5.5” and “MySQL Connector NET 6.3.5” which are automatically installed by Squeeze server installer, must be **uninstalled** as there are not needed.

|  |  |
| --- | --- |
| Click “**Start**”, “**Control panel**”  Click “**Uninstall a program**”, “**Programs and Features**” window is displayed  In “**programs and features**” wizard, right click “**MySQL Connector Net 6.3.5**”, in pop up menu select “**Uninstall**” |  |
| Click “**Yes**” button |  |
| “**MySQL Connector Net 6.3.5**” uninstallation is in progress |  |
| When “**MySQL Connector Net 6.3.5**” uninstallation is completed  In “**programs and features**” wizard, right click “**MySQL Server 5.5**”, in pop up menu select “**Uninstall**” |  |
| Click “**Yes**” button |  |
| Click “**OK**” button | C:\Users\T0140819\Desktop\screenshot\screenshot\fig8.PNG |
| “**MySQL Server 5.5**” uninstallation is in progress |  |
| When “**MySQL Server 5.5**” uninstallation is completed, close all windows |  |
| To complete MySql server uninstallation, remove C:\Program Files\MySQL folder. | |

#### IIS configuration

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, go to the folder where the configuration file script **SetSqueezeIISConfiguration.cmd** have been extracted from **<Date>\_NU\_ConfigurationScripts\_<Version>.zip** archive file.  Type in **.\SetSqueezeIISConfiguration.cmd** to run execute this script |  |
| SqueezeServer installater set SqueezeServer site to http port to 80 and Default Web Site http port to 90.  The script SetSqueezeIISConfiguration.cmd   * Set SqueezeServer site https port to 81 * Set SqueezeServerPool application pool identity to NetworkService * Deny SqueezeServer siteaccess to all ip except 127.0.0.1 | |
| When script execution is done, close command prompt window |  |
| Select “**Start > Administrative Tool > Internet Information (IIS) Manager”** then browse to “**Default Web Site”** site node in left area  Select “**Bindings…**” |  |
| In “**Site Bindings**” wizard select http if port is not 80, click “**Edit…**” button |  |
| In “**Port:**” input text field, type in 80  Click “**OK**” button |  |
| Click “**Close**” button |  |

#### SQL Server configuration

This chapter can be ignored if INTEL-FS SQL databases will be hosted on a remote SQL server.

Steps below describe how to set SQL server authentication mode to “windows authentication mode”.

**Steps described below shall be performed** **only if INTEL-FS server is member of the NATO domain**.

|  |  |
| --- | --- |
| Click “**Start > All programs > Microsoft SQL Server 2008 R2> Microsoft SQL Server Management Studio**”  Type in “**localhost**” in “**Server name**:” area  Click “**Connect”** button |  |
| In explorer pane, select Server name and select “**Properties**” in pop up menu |  |
| Select “**Security**” page |  |
| Select “**Windows Authentication mode**” radio button  Click “**OK**” button |  |
| Click “**OK**” button |  |
| In explorer pane, right click Server name and select “**Restart**” in pop up menu |  |
| Click “**Yes**” button |  |
| Click “**Yes**” button | C:\Users\T0140819\Desktop\screenshot\screenshot\fig10.PNG |
| SQL server is restarting  When restart is done, close all window |  |

## INTEL-FS application

The installation of INTEL-FS application begins with the installation of the application and optionaly continues with patches deployment. Patches shall be installed by following their creation’s index (P1, P2, and so on until the last)  
The installation of the version is described in Chapter 2.7.1  
The deployment of a patch is described in Chapter 1.1

**WARNING:** INTEL-FS application installer create a log file. When INTEL-FS application installer execution is completed, it’s strongly advised to display and save this log file to keep a record of this installation.

### INTEL-FS standard installation

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, type in **iisreset /stop** |  |
| When iis is stopped, close Command prompt window |  |
| Insert **“DVD IntelFS Application”** in DVD drive and run **20160114\_NU\_IntelFSInstaller\_1.0.0\_win64\_en.exe**  “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| INTEL-FS installshield wizard display a list of software that will be installed. The content of the list may be different for each server  If all software are already installed the 2 following screens are not displayed, the server does not restart, the screen "**Preparing to Install ...**" is displayed  Click “**Install**” button  . |  |
| Prerequisites installation is in progress – This step might take several minutes. |  |
| **WARNING** **After appwarmupx64 installation, INTEL-FS server automatically reboot. – After the reboot of INTEL-FS server, iis shall be stopped again.**  When restart is completed, log in back | |
| “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| INTEL-FS installation will be automatically restarted |  |
| In the dos command prompt window launched as ‘Administrator’, type in:  **iisreset /stop** |  |
| When iis is stopped, close Command prompt window |  |
| Click “**Next >**” button |  |
| If SQL server is installed on INTEL-FS server, select “**YES**” radio button  If SQL server is not installed on INTEL-FS server, select “**NO**” radio button  Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| INTEL-FS installer check partition size and display a waning pop up if needed.  Click “**OK**” button to select other drives.  Click “**Cancel**” button to go the next window. In this window installation cancellation will be available. |  |
| “**IP Address**” Select INTEL-FS server network interface IP address in dropdown list  “**Alternative DV file**” To use an alternative domain value file (cf chap 2.2.2.4 ), click “**Select**” button.  “**Concurrent requests**” Type in maximum number of IP concurrent requests.  This value is used by “Dynamic IP Restrictions” IIS feature of Default Web Site. IIS dynamically deny request from IP address performing more than this value concurrent requests.  Usually this value shall not be less than 60.  Click “**Next >**” button  Click “**Cancel**” button to cancel installation. |  |
| INTEL-FS installer check Concurrent requests input value validity (This value shall be an integer) and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| .“**SMTP Server**” Type in smtp server hostname:smtpserver port. smtp server ip address can be used instead hosname.if Smtp server port is not set default port 25 will be used in configuration files. (cf chap 2.2.2.4 )  “**Cartographic server**” Make sure that INTEL-FS server FQDN is correctly set.  “**Coregis server**” Type in Core GIS server hostname. (cf chap 2.2.2.4)  These informations are mandatory.  Click “**Next >**” button |  |
| “**DefaultOrganisation**” Name of the command of this site. This value will be used as the default producer code for products produced on this site. (cf chap 2.2.2.4).  “**Site ID**” Logical identifier for this site. (Must be unique when exchanging data with other sites, used in product serial numbers). Site ID must only countain lowercase character (a-z), uppercase character (A-Z), digit (0-9) and dash (-). (cf chap 2.2.2.4)  **WARNING**: Once objects are created in the database, this value can not be changed.  “**Logo**” Site logo displayed in the upper right hand of the screen. The user can select the image of the logo.  “**Login** **Logo Tooltip**” Text displayed when the mouse rolled over the INTEL-FS login’s window’s logo  Click “**Next >**” button |  |
| INTEL-FS installer check Site ID input value validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| “**Organisational node**” Type in organizational nodes name – DefaultOn is the default value. (cf chap 2.2.2.4),  Organisational node must only countain lowercase character (a-z), uppercase character (A-Z), digit (0-9) and dash (-).  “**Guest Account**” Type in guest account login name. (cf chap 2.2.2.4),  Guest account login name must only countain lowercase character (a-z), uppercase character (A-Z), digit (0-9), dash (-), underscore (\_), at (@) and dot (.).  “**Administrator password**” Type in INTEL-FS administrator account password. This is a secured input field. (cf chap 2.2.2.4),  administrator account password must countain one lowercase character (a-z), one uppercase character (A-Z), one digit (0-9) and one special character ([-@#$%!\_&£$/\,;.?()[])](mailto:-@#$%!_&£$/\,;.?()[])) – Its length shall be between 14 and 50 characters.  “**Confirm Administrator password**” Type in again INTEL-FS administrator account password for verification purpose.This is a secured input field.  Click “**Next >**” button |  |
| INTEL-FS installer check input values validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| “**Initial size**” Type Exercise SQL database initial size. This value is in MB and shall be an integer.  “**File growth**” Type Exercise SQL database file growth. This value is in MB and shall be an integer  “**Log initial size**” Type Exercise SQL database log initial size. This value is in MB and shall be an integer.  “**Lo file growth**” Type Exercise SQL database log file growth. This value is in MB and shall be an integer.  The sum of initial sizes of the 4 SQL databases must be less than the available space on the partition containing the folder in which the SQL databases are stored.  The sum of initial sizes of the 4 SQL databases logs must be less than the available space on the partition containing the folder in which the SQL databases logs are stored.  Click “**Next >**” button |  |
| INTEL-FS installer check Exercice SQL DB configuration input values validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| “**Initial size**” Type Operationnal SQL database initial size. This value is in MB and shall be an integer.  “**File growth**” Type Operationnal SQL database file growth. This value is in MB and shall be an integer  “**Log initial size**” Type Operationnal SQL database log initial size. This value is in MB and shall be an integer.  “**Lo file growth**” Type Operationnal SQL database log file growth. This value is in MB and shall be an integer.  Click “**Next >**” button |  |
| INTEL-FS installer check Operationnal SQL DB configuration input values validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| “**Initial size**” Type ToolboxMaster SQL database initial size. This value is in MB and shall be an integer.  “**File growth**” Type ToolboxMaster SQL database file growth. This value is in MB and shall be an integer  “**Log initial size**” Type ToolboxMaster SQL database log initial size. This value is in MB and shall be an integer.  “**Lo file growth**” Type ToolboxMaster SQL database log file growth. This value is in MB and shall be an integer.  Click “**Next >**” button |  |
| INTEL-FS installer check ToolboxMaster SQL DB configuration input values validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| “**Initial size**” Type Training SQL database initial size. This value is in MB and shall be an integer.  “**File growth**” Type Training SQL database file growth. This value is in MB and shall be an integer  “**Log initial size**” Type Training SQL database log initial size. This value is in MB and shall be an integer.  “**Lo file growth**” Type Training SQL database log file growth. This value is in MB and shall be an integer.  Click “**Next >**” button |  |
| INTEL-FS installer check Training SQL DB configuration input values validity and display a warning pop up alert if needed.  Click “**OK**” button to try another values. |  |
| If the sum of initial sizes of the 4 SQL databases is larger than the available space on the partition containing the folder in which the SQL databases are stored or if the sum of initial sizes of the 4 SQL databases logs is larger than the available space on the partition containing the folder in which the SQL databases logs are stored, this warning windows is displayed.  Click “**OK**” buton to enter another values |  |
| Click “**Install**” button |  |
| INTEL-FS installer check that there is enough disk space available to perform the installation. If there is not enough disk space, “**Out of Disk Space**” window is displayed.  Perform some cleanup on the drive on which there is no enough space  Click “**OK**” button.  “**Root folder selection**” window will be displayed |  |
| INTEL-FS installation is in progress. This step might take several minutes.  If the installation is interrupted during this final step (by clicking "**Cancel**" button), it might be that some items already installed are not removed. To troubleshoot that issue, please refer to chapter 5.4.2 |  |
| During INTEL-FS installation, this “Windows Security Alert” window may appear, if so click “**Allow access**” button |  |
| INTELFS installation is completed.  To keep INTEL-FS application installation log file, select “**Show the Windows Installer log**” checkmark.  Click “**Finish**” button. |  |
| INTEL-FS application installation log file is opened in notepad.  In case of issues during the execution of the INTEL-FS installer, this file should be analyzed to identify these issues. |  |
| Save this file. As the INTEL-FS administrator password is logged in this file, this file shall be kept in a secure folder. |  |
| Using Windows Explorer browse to F:  Make sure that the following SQL databases have been created:  Exercise.mdf  Operationnal.mdf  ToolboxMaster.mdf  Training.mdf  Exercise\_iBridgeViews.mdf  Operationnal\_iBridgeViews.mdf  Training\_iBridgeViews.mdf  Squeeze.mdf  SqueezeAuth.mdf  SqueezeArchive.mdf |  |
| Using Windows Explorer browse to G:  Make sure that the following SQL databases logs have been created:  Exercise\_log.ldf  Operationnal\_log.ldf  ToolboxMaster\_log.ldf  Training\_log.ldf  Exercise\_iBridgeViews\_log.ldf  Operationnal\_iBridgeViews\_log.ldf  Training\_iBridgeViews\_log.ldf  Squeeze\_log.ldf  SqueezeAuth\_log.ldf  SqueezeArchive\_log.ldf  Close all windows |  |

### INTEL-FS patch installation

This procedure describes how to install the patch N of INTEL-FS. Patches shall be installed by following their creation’s index (P1, P2, and so on until the last)

|  |  |
| --- | --- |
| On INTEL-FS server, extract compressed folder “<Date>\_NU\_Patch-<Patch>\_<Version>\_win64\_en.zip” located on **“DVD IntelFS Application”** DVD to the desktop  Click “**Extract**” button |  |
| Extraction is in progress. This step might take several minutes |  |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, goto <patch folder>\Patch where <patch folder> is the folder where the zipped has been previously extracted. |  |
| Execute script file Patch.bat  Type in **.\Patch.bat** |  |
|  |  |
| Using notepad.exe, update config.PUBLIC.txt patch configuration file located in <patch folder>\patch where <patch folder> is the folder where the zipped has been previously extracted.  Check that values are correct  If needed, replace  ORGANISATIONALNODE value with the organisational node which has been entered during INTEL-FS installation  ADMINISTRATORPASSWORD value with the administrator password which has been entered during INTEL-FS installation  GUESTACCOUNTNAME value with the guest account name which has been entered during INTEL-FS installation  ORGANISATIONALNODES value with the list of orgnisational node which has been entered during INTEL-FS installation an created during INTEL-FS configuration  When replacements are completed, set PUBLICLOCKED value to false  Save and close config.PUBLIC.txt file |  |
| In the Dos command prompt, press any key |  |
| Type in “**0**” to launch patch application |  |
| Patch deployment is in progress. This step might take several minutes |  |
| When patch deployment is completed, press any key to continue |  |
| Inside <patch folder>\Patch folder, where <patch folder> is the folder where the zipped has been extracted, a log file (Patch.log) is created; In case of issues during the execution of the INTEL-FS installer, this file should be analyzed to identify these issues. |  |

When patches deployement is completed, run the "IISRESET" command in a dos command prompt running as administrator to restart INTEL-FS server.

### INTEL-FS configuration

#### SSL Certificate configuration

An SSL certificate must be installed for the HTTPS connection. This certificate is a self signed certificate or a certificate provided by a certification authoritie

##### AdminiSelf-signed certificate

This chapter is only relevant if a self signed certificate is used

|  |  |
| --- | --- |
| Select “**Start > Administrative Tool > Internet Information (IIS) Manager”** then browse to **server** node in the left area  . |  |
| Right click “**Server Certificates**” and select “**Open Features**” in pop-up menu. |  |
| Select “**Create Self-Signed Certificate…**” |  |
| Enter certificate name “**INTEL-FS <server-name>**”  Click “**OK**” button |  |
| In left area, select “**Default web site**”  Click “**Bindings…**” |  |
| Click “**Add…**” button |  |
| In “**Type:**” drop-down list, select “**https**” |  |
| In “**IP address:**” drop-down list, select server IP address |  |
| In “**SSL certificate:**” drop-down list, select “**INTEL-FS <server-name>**” (ie newly created certificate friendly name) |  |
| Click “**Add…**” button |  |
| In “**Type:**” drop-down list, select “**https**” |  |
| In “**IP address:**” drop-down list, select ::1  This will create a loopback binding allowing connection to INTEL-FS application from an internet explorer running on the server |  |
| In “**SSL certificate:**” drop-down list, select “**INTEL-FS <server-name>**” (ie newly created certificate friendly name) |  |
| Click “**OK**” button  Close all windows |  |

##### INTEL-FS CA certificate

This chapter is only relevant if an INTEL-FS certification authority certificate is used

The INTEL-FS CA certificate shall be installed on the server. Please refer to chapter “Certification Authority certificate installation” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to install a such certificate.

The certificate private key .p12 file shall be copy on the server desktop.

|  |  |
| --- | --- |
| Select “**Start > Administrative Tool > Internet Information (IIS) Manager”** then browse to **server** node in the left area  . |  |
| Right click “**Server Certificates**” and select “**Open Features**” in pop-up menu. |  |
| Select “**Import…**” |  |
|  |  |
| Click “**…**” button |  |
| change the file filter form “.pfx” to “\*.\*” to allow all file types to be displayed |  |
| If the private key is protected by a password, type in it in “**Password:**” input area  Click “**OK**” button |  |
| The certificate should now appear |  |
| In left area, select “**Default web site**”  Click “**Bindings…**” |  |
| Click “**Add…**” button |  |
| In “**Type:**” drop-down list, select “**https**” |  |
| In “**IP address:**” drop-down list, select server IP address |  |
| In “**SSL certificate:**” drop-down list, select “**INTEL-FS <server-name>**” (ie newly inserted certificate friendly name) |  |
| Click “**Add…**” button |  |
| In “**Type:**” drop-down list, select “**https**” |  |
| In “**IP address:**” drop-down list, select ::1  This will create a loopback binding allowing connection to INTEL-FS application from an internet explorer running on the server |  |
| In “**SSL certificate:**” drop-down list, select “**INTEL-FS <server-name>**” (ie newly inserted certificate friendly name) |  |
| Click “**OK**” button  Close all windows |  |

#### VirusScan configuration

VirusScan default configuration prevents INTEL-FS from sending notification mails. VirusScan shall be configured to allow INTEL-FS to send mail.

Please refer to chapter “VirusScan” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to configure VirusScan.

#### “Publication source” configuration

By default, “publication source” of the site is set to “ACO”, to set an other value edit E:\WebAppli\Intelfs\WebSection.AppSettingsMain.config web app xml configuration file and update value of key “PublicationSource”

E.G.

<add key="PublicationSource" value="XXXX" /> where XXXX is the new value.

**WARNING**: Once objects are created in the database, this value can not be changed.

#### Default “groups of permission” configuration

There’s a default group of permissions configuration file embedded into INTEL-FS installation. The application IntelFSGroupFromCsv inserts these default groups and permissions into INTEL-FS databases.

If that default “groups of permission” configuration file is not valid, replace CSV file GroupsDefinition.csv located in the directory E:\WebAppli\Tools with the new “groups of permission” configuration.

Steps below shall be performed on INTEL-FS server

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| in command prompt window  Type **iisreset /start** |  |

Steps below shall be performed on the workstation

|  |  |
| --- | --- |
| On a workstation, launch Internet explorer |  |
| In URL input area, type in the INTEL-FS URL https://server-name.domainname/intelfs  This step might take several minutes. |  |
| In “**On which Organisational Node would you like to log in ?**” drop down list make sure that all organisational node specified during INTEL-FS installation are displayed.  In “**Authentication Method**” combo box,  select Select “**Login/Password**”  Click “**OK**” button |  |
| Connect to INTEL-FS using Administrator account  “**Username:**” type in Administrator  “**Password:**” type in the password specified during INTEL-FS installation.  Click “**Sign in**” button |  |
| INTEL-FS result view is displayed  Exit internet explorer |  |

Steps below shall be performed on INTEL-FS server

|  |  |
| --- | --- |
| On INTEL-FS server  Using a command prompt window running as administrator, set current directory to E:\WebAppli\Tools  Type in  **E:\**  **cd E:\WebAppli\Tools** |  |
| Stop iis  Type in  **iisreset /stop**  Run IntelFSGroupFromCsv.exe  Type in  **.\ IntelFSGroupsFromCsv.exe**  When csv file import is completed, Restart iis  Type in  **iisreset /restart**  When IIS is restarted, close all windows |  |

#### NATO systems server’s IP addresses configuration

NATO systems server’s IP addresses shall be configured. To learn how to configure these settings, please refer to chapter “External server’s IP addresses configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

To learn how to configure BICES server’s IP addresses, please refer to chapter “BICES server’s IP addresses configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

#### NITB listener activation

NITB listener shall be enabled. If this listener is not enabled, INTEL-FS do not sent informations to NITB. By default this listener is disabled.

To learn how to enable NITB listener, please refer to chapter “NITB listener activation” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

#### iIBridge configuration

On INTEL-FS server

* Unarchive the content of the zip file **“20160114\_NU\_iBridge-Mapping-Files\_1.0.0.zip”** located on **“DVD IntelFS Application”** DVD

Copy the extracted IBridge configuration files (.ibg) to the dedicated shared folder. (cf prerequisite (36))

* Unarchive the content of the zip file **“20160114\_NU\_iBridge-Symbology\_1.0.0.zip”** located on **“DVD IntelFS Application”** DVD

Copy the extracted content to the dedicated shared folder. (cf prerequisite (36))

On each workstation using IBridge Analyst’s Notebook

* Unarchive the content of the zip file **“20160114\_NU\_iBridge-Icons\_1.0.0.zip”** located on **“DVD IntelFS Application”** DVD

Copy the extracted Bridge icons files (.png) to "C:\Program Files (x86)\Common Files\i2 Shared\Images 8.5\Basic\Icons"

* Unarchive the content of the zip file **“20160114\_NU\_iBridge-Printers\_Icons\_1.0.0.zip”** located on **“DVD IntelFS Application”** DVD

Copy the extracted iBridge printers icons files (.bmp) to " C:\Program Files (x86)\Common Files\i2 Shared\Images 8.5\Legacy Support\Basic\Printer\Icons"

##### Remote SQL server connection activation

Workstations using IBridge Analyst’s Notebook shall be able to remote access INTEL-FS server SQL server. To allow these connections an indound rule, named SQL, on INTEL-FS server firewall allowing TCP port 1433 shall be created.

To learn how to create TCP port access firewall inbound rule on INTEL-FS server, please refer to chapter “TCP/UDP port access Firewall Inbound rule configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

##### SQL access configuration

To access iBridge SQL base, a valid windows account or group, with read access on Operational and Operational\_IBridgeViews Exercise, Exercise \_IBridgeViews, Training and Training\_IBridgeViews SQL databases shall be available.

To learn how to perform these configurations, please refer to chapter “SQL Access configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

##### Analyst notebook configuration

To learn how to configure Analyst notebook connection settings, please refer to chapters “Analyst notebook connection settings” and “Analyst notebook configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

This configuration shall be performed for each workstation using Analyst notebook to acess SQL databases.

#### WebService authentication configuration

INTEL-FS web services may be used with 2 different authentication methods:

* Windows authentication
* Certificate authentication

In both case, a user account shall be created in the INTEL-FS Application.

For windows authentication, this user account shall matched the windows session account. In this case the workstation and the INTEL-FS server shall be in the same domain.

For certificate authentication a dedicated web services certificate shall be created and this user account shall correspond to this certificate.

The remainder of this chapter describes how to create web services certificate.

##### Certificate creation

|  |  |
| --- | --- |
| On INTEL-FS server, select “**Start**”, in Search programs and files input area type in mmc  Select mmc |  |
| In menu bar, click “**File**” in popup menu select “**Add/Remove Snap-in…**” item |  |
| In “**Available snap-ins:**” area, Select “**Certificates**”  Click “**Add >**” button |  |
| Select “**Computer account**” radio button  Click “**Next >**” button |  |
| Click “**Finish**” button |  |
| Click “**Add >**” button |  |
| Click “**Finish**” button |  |
| Click “**OK**” button |  |
|  |  |

Server certificate configuration

|  |  |
| --- | --- |
| On INTEL-FS server copy <Date>\_NU\_WSCertificateTools\_<Version>.zip in E: drive and unzip it in E:.  <Date>\_NU\_WSCertificateTools\_<Version>.zip is located on DVD “**DVD** **IntelFS Application**”.  The folder E:\Tools including unzipped files is created |  |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, goto folder E:\Tools  Type in “**E:\**”  Type in “**cd Tools**” |  |
| Using notepad.exe, edit **E:\Tools\SetupValid.bat**  Replace ##SITEID## by the logical identifier of the site (server name) (cf chap 2.2.2.4 )  Note this the value of the key “ServerName” in WebSection.AppSettingsMain.config xml configuration file located in folder E:\WebAppli\Intelfs  Save and close SetupValid.bat |  |
| In dos command prompt window, run SetupValid.bat  Type in “**.\SetupValid.bat**” |  |
| In “**Password:**” input area, type in intelfs  In “**Confirm password:**” input area, type in intelfs  Click “**OK**” button |  |
| In “**Password:**” input area, type in intelfs  Click “**OK**” button |  |
| In “**Password:**” input area, type in intelfs  Click “**OK**” button |  |
| In “**Password:**” input area, type in intelfs  Click “**OK**” button |  |
| Using mmc tool (previously configurated), browse to “**Console Root\Certificates (Local Computer)\Personal\Certificates**” node |  |
| The brand new created certificate is displayed |  |
| Right click IntelFSPocServer certificate, in pop up menu select “**All Tasks > Manage Private Keys…**” item |  |
| Click “**Add…**” button |  |
| In “**Enter the object names to select**” input area, type in NETWORK SERVICE  Click “**Check Names**” button  Click “**OK**” button |  |
| Click “**Apply**” button  Click “**OK**” button  Close window |  |

##### Certificate export

The procedure below describes how to export the certificate previously created.

|  |  |
| --- | --- |
| Using mmc tool (previously configurated), browse to “**Console Root\Certificates (Local Computer)\Personal\Certificates**” node, right click IntelFSPocServer certificate, in pop up menu select “**All Tasks > Manage Private Keys…**” item |  |
| Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| In “**File Name:**” input area, type in ClientCertificate.cer  Click “**Next >**” button |  |
| Click “**Finish**” button |  |
| Click “**OK**” button |  |

|  |  |
| --- | --- |
| Using mmc tool (previously configurated), browse to “**Console Root\Certificates (Local Computer)\Personal\Certificates**” node, right click IntelFSPocServer certificate, in pop up menu select “**All Tasks > Manage Private Keys…**” item |  |
| Click “**Next >**” button |  |
| Select “**Yes, export the private key**” radio button |  |
|  |  |
|  |  |
| In “**File Name:**” input area, type in Valid  Click “**Next >**” button |  |
|  |  |
|  |  |
| Using windows explorer, browse to  C:\Windows\System32  Copy exported certifcates files ValidClient.pfx and ClientCertificate.cer to install them later on a work station |  |

##### Client certificate Installation

The certificate shall be installed on client using Web Services.

The INTEL-FS CA certificate shall be installed on the client. Please refer to chapter “Certification Authority certificate installation” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to install a such certificate.

#### INTEL-FS administrators group’s names configuration

INTEL-FS administrators group’s names shall be configured. Please refer to chapter “INTEL-FS administrators group’s names configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to set these group’s names.

#### Symbols update

INTEL-FS application symbols shall be updated with the latest symbols available. Please refer to chapter “Symbols update” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to proceed.

#### Squeeze server’s license activation

The squeeze server administration web console only works with IE 9 or higher. This web application uses port 81. A workstation where IE9 or higher is available is needed to perform this configuration. This workstation should be temporarily allowed to access INTEL-FS server via port 81

The following operations are necessary on the INTEL-FS server

* Open port 81 of the local Firewall. A temporarily inbound rule to allow inbound access to TCP port 81 shall be created. Please refer to chapter “TCP/UDP specific port access Firewall Inbound rule creation” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to proceed.
* Disable temporarily IP restrictions on SqueezeServer site using IIS IP Address and Domain Restrictions IIS feature

|  |  |
| --- | --- |
| On a workstation where IE 9 or higher is available, launch IE |  |
| In URL input area, type **http://<fqdn>:81** URL, where <fqdn> is INTEL-FS server Full Qualified Domain Name |  |
| Select “**Admin**” in pop up menu select “**Serial Number**” |  |
| Select “**Edit**” icon (Pencil logo) |  |
| In “**Company**” input field type in, squeezeserver activation information company name component  In “**Serial Number**” input field type in, squeezeserver activation information Serial Number component  Click “**Save**” button |  |
| Squeeze server’s license is activated.  Exit Internet Explorer |  |

On INTEL-FS server, remove the temporarily firewall Inbound rule and deny SqueezeServer site access to all ip except 127.0.0.1 using IIS IP Address and Domain Restrictions IIS feature

#### Firewall configuration

On INTEL-FS server, some firewall inbounds ports and apps shall be enabled. For more information, please refer to chapter “TCP/UDP streams” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual)

#### Remote organisational node import

Once the different ON have been created, a procedure must be applied in order to make these ON visible on all INTEL-FS servers and all ON of all INTEL-FS servers on the server. For more information, please refer to chapter “DV Organisational node merging” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual)

#### Encoded video remote access enabling

Optionnaly, video remote access shall be enabled for other INTEL-FS servers. For more information, refer to chapter “Encoded video remote access” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual)

#### Documentation files update

Unarchive the content of the zip file 20160114\_NU\_DocumentationFiles\_1.0.0.zip located on “**DVD IntelFS Application**”

Update .pdf documentation files located into folder E:\WebAppli\Intelfs\WebHelp\RelatedDoc with the content of the folder Documents extracted from the archive.

These documents are:

* Administrator\_Manual.pdf
* Briefing\_Manual.pdf
* Installation\_Guide.pdf
* Quick\_User\_Guide.pdf
* Release\_Notes.pdf
* User\_Manual.pdf

Update online help files located into folder E:\WebAppli\Intelfs\WebHelp with the content of the folder WebHelp extracted from the archive..

#### EULA files installation

Create the folder E:\IntelFsData\Licences

Unarchive the content of the zip files 20160114\_NU\_FreeOSSEULAFiles\_1.0.0.zip and 20160114\_NU\_CommercialEULAFiles\_1.0.0.zip located on “**DVD IntelFS Application**” and copy it in the brand new folder E:\IntelFsData\Licences

### INTEL-FS installation verification

Procedure bellow shall be performed to check that INTEL-FS has been successfully installed.

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, type in **iisreset /start** |  |
| When iis is started, close Command prompt window |  |

|  |  |
| --- | --- |
| On the test workstation log on account test cf 2.2.2.3,  launch Internet explorer 10 |  |
| In URL input area, type in the INTEL-FS URL **http://<fqdn>/intelfs** where **<fqdn>** is INTEL-FS server FQDN.  This step might take several minutes. |  |
| In “**On which Organisational Node would you like to log in ?**” drop down list make sure that all organisational node specified during INTEL-FS installation are displayed.  In “**Authentication Method**” combo box,  select “**Login/Password**”  Click “**OK**” button |  |
| Connect to INTEL-FS using Administrator account  “**Username:**” type in Administrator  “**Password:**” type in the password specified during INTEL-FS installation.  Click “**Sign in**” button |  |
| INTEL-FS result view is displayed |  |
| Click on “**New**” button in the toolbar and select “**Contacts\Contact**” to create a new user account. |  |
| Create a new account with the following data:   * Logon name: **user1** * Rotation: **2020-01-01** * Permissions: **Person Readers** * NS Email: **mail@example.com**   All others mandatory fields could be set to any value.  Save the Contact using the “**Save**” button. |  |
| Click on the “**Set Password**” button and set the password in the opened window. |  |
| Click on “**back to list**” and click on “**Contact**”  Right click on the “**user1**” in the Result view and select “**Enable**” in pop up menu. |  |
| Sign out “**Administrator**” and logon using the “**user1**” account previously created. |  |
| INTEL-FS result view is displayed |  |
| In INTEL-FS main window, select “**Help**” menu |  |
| In “**Help**” menu, select “**About INTEL-FS**” item  In About INTEL-FS window, make sure INTEL-FS version is correctly displayed  Select “**Close**” button |  |

## Cartographic server

**WARNING:** INTEL-FS CARTOGRAPHIC SERVER installer create a log file. When INTEL-FS CARTOGRAPHIC SERVER installer execution is completed, it’s strongly advised to display and save this log file to keep a record of this installation.

### Cartographic server installation

|  |  |
| --- | --- |
| Insert **“DVD IntelFS Application”** DVD in DVD drive and run **20160114\_NU\_CartographicServerInstaller\_1.5.2\_en.exe**  “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| The wizard display a list of software that need to be installed.  Click **“Install”** button  . |  |
| Prerequisites installation is in progress – This step might take several minutes. |  |
| INTEL-FS server needs to be restarted  Click “**Yes**” button  After reboot INTEL-FS CARTOGRAPHIC SERVER installation will automatically restarted |  |
| When server restarting is completed, log on back to INTEL-FS server  “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| INTEL-FS CARTOGRAPHIC SERVER installation resumes |  |
| Click “**Next >**” button |  |
| *License file* Type Select button to display the browser allowing to select a license file cf 2.2.2.4  *Enter ArcGIS accounts password* Type ArcGIS SOM, SOC and Web Services account password cf 2.2.2.4  *Confirm ArcGIS accounts password*  Type again the previous password.  Click “**Next >**” button |  |
| Click “**Install**” button |  |
| INTEL-FS CARTOGRAPHIC SERVER installation is in progress |  |
| INTEL-FS CARTOGRAPHIC SERVER installation is completed.  To keep INTEL-FS CARTOGRAPHIC SERVER installation log file, select “Show the Windows Installer log” checkmark  Click “**Finish**” button. |  |
| INTEL-FS CARTOGRAPHIC SERVER installation log file is opened in notepad.  In case of issues during the execution of the INTEL-FS CARTOGRAPHIC SERVER installer, this file should be analyzed to identify these issues. |  |
| Save this file. As the ArcGIS SOM, SOC and Web Services account password is logged in this file, this file shall be kept in a secure folder. |  |
| Click “**Yes**” button to restart INTEL-FS server in order to complete INTEL-FS CARTOGRAPHIC SERVER installation |  |
| Once INTEL-FS server restarting is completed, log on back to the server,  Select “**Start>Administrative Tools> Computer Management**” |  |
| Unfold “**System Tools > Local Users and Group > Users**” |  |
| Right click “**ArcGISWebServices**”  In pop up menu select “**Properties**” |  |
| Select “**Member O**f” tab  If Administrators group is already present in the list, the remainder of the procedure may be ignored. In that case close all windows |  |
| Click “**Add…**” button  Type in “**Administrators**” |  |
| Click “**Check Names**” button  Click “**OK**” button |  |
| Click “**Apply**” button  Click “**OK**” button  Close all windows |  |

### Cartographic server configuration

#### ArcGIS server installation check

Once INTEL-FS server restarting is completed, log on back to INTEL-FS server and check that ArcGIS server installation is correct.

Please refer to chapter “ArcGis installation check” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to check that ArcGIS server installation is correct.

#### Cartographic server configuration

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| Using the Command Prompt window set current directory to E:\CARTOSERVER-INSTALLATION:  Type in E:  Type in cd E:\CARTOSERVER-INSTALLATION |  |
| Type in install\_srv\_intelfs.cmd  CARTOGRAPHIC SERVER configuration script is running  “*Do you really want to install the cartographic server for IntelFS yes(y) / no (n) ?*” type ‘y’ |  |
| Once CARTOGRAPHIC SERVER configuration script is completed, make sure that iis ConversionService WebSite has been created  Select “**Start > Administrative Tool > Internet Information (IIS) Manager”** then browse to **Sites** node in the left area  If “ConversionService” site does not appear refer to chapter 5.4.3 for troubleshooting |  |
| Make sure IntelFS images directory has been shared  In command prompt window type in “**net share**” |  |
| If the IMAGES share is not displayed, type in the following command  NET SHARE IMAGES=E:\IntelfsData\images /GRANT:ArcGISSOC,FULL /GRANT:ArcGISSOM,FULL | |

#### Gazetteer installation

|  |  |
| --- | --- |
| On INTEL-FS server copy gazetteer default installation zip in E: drive and unzip it in E:\ drive.  Gazetteer default installation zip (**20160114\_NU\_Gazetteer\_1.3.1.zip**) is located on **“DVD IntelFS Application”** DVD.  The folder E:\gazetteer including unzipped files is created |  |
| Using the Command Prompt window set current directory to E:\Gazetteer:  Type in “**E:”**  Type in cd “**E:\Gazetteer”** |  |
| Type in “**install.cmd”**  Gazetter configuration script is running  “***Do you really want to integrate the Gazetteer of the cartographic server yes(y) / no (n) ?***” type ‘y’  “***Press any key to continue .. .****.*” press a key |  |
| Close all windows |  |

#### Gazetteer installation verification

Once default gazetteers installation is completed, check that gazetteers have been correctly installed.

Please refer to chapter “Gazetteer installation check” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) to learn how to check that gazetteer installation is correct.

#### Map services configuration

.xml file TimsDirectory.xml located in E:\IntelfsData\TIMS\Data\Config folder includes access to Core GIS WFS and WMS map configuration information.

To learn how to configure access to WMS map services, please refer to chapter “WMS map service” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .

To learn how to configure access to WFS map services, please refer to chapter “WFS map service” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .

To learn how to customize INTEL-FS cartographic view, please refer to chapters “Cartographic windows” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .

#### IIS configuration

|  |  |
| --- | --- |
| Using a dos command prompt run as administrator, execute the following script SetArcGISIISConfiguration.cmd powershell script extracted from “**20160114\_NU\_ConfigurationScripts\_1.0.0.zip”** archive file located on **“DVD IntelFS Application”** installation disk | |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| In the dos command prompt window, type in SetArcGISIISConfiguration.cmd powershell script extracted from“**20160114\_NU\_ConfigurationScripts\_1.0.0.zip”** archive file located on **“DVD IntelFS Application”** installation disk |  |
| The script SetArcGISIISConfiguration.cmd deny access to all ip except 127.0.0.1 for the following web applications :   * Default Web Site/ArcGIS/Manager * Default Web Site/ArcGIS/KML * Default Web Site/ArcGIS/rest * Default Web Site/ArcGIS/Security * Default Web Site/ArcGIS/Services * Default Web Site/ArcGIS/Tokens * Default Web Site/ArcGIS/Wms * Default Web Site/ArcGIS/Mobile/Content * Default Web Site/ArcGIS/Mobile/Admin | |
| When the configuration script is completed, close Command prompt window |  |

#### ArcMAP access configuration

To allow arcmap running on worstations to access Arcgis, 2 inbound rules on INTEL-FS server firewall shall be created.

* A rule named ARCSOC allowing C:\Program Files (x86)\ArcGIS\Server10.0\bin\ArcSOC.exe process remote execution
* A rule named ARCSOM allowing C:\Program Files (x86)\ArcGIS\Server10.0\bin\ArcSOM.exe process remote execution

To learn how to create a firewall inbound rule allowing remote process execution, please refer to chapter “RPC access Inbound Firewall rule configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .

#### Firewall configuration

On INTEL-FS server, firewall inbounds apps ArcSOC & ArcSOM shall be enabled. For more information, please refer to chapter “TCP/UDP streams” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual)

### Cartographic server installation verification

Procedure bellow shall be performed to check that INTEL-FS Cartographic server has been successfully installed

|  |  |
| --- | --- |
| On a workstation, launch Internet explorer  In URL input area, type in the INTEL-FS URL **https://<fqdn>/intelfs** where **<fqdn>** is INTEL-FS server FQDN.  This step might take several minutes. |  |
| In “**On which Organisational Node would you like to log in ?**” drop down list select DefaultON  In “**Authentication Method**” combo box,  select Select “**Login/Password**”  Click “**OK**” button |  |
| Connect to INTEL-FS using INTEL-FS test account (user1) previously created cf 2.7.4  “**Username:**” type in user1  “**Password:**” type in the password specified during INTEL-FS installation verification step cf 2.7.4  Click “**Sign in**” button |  |
| INTEL-FS result view is displayed  Click geographic view icon |  |
| Geographic view is displayed in a new window  In ring menu, select “**Map layers**“ item |  |
| Select “**Map layers**” item |  |
| Select “**Add a new map layer**” button |  |
| In “**ADD A NEW MAP LAYER**” wizard window, select a layer (a corgis map)  Click “**Finish**” button located at bottom on “**ADD A NEW MAP LAYER**” wizard window,  Click “**X**” button located at top right on “**Map Layers**” wizard window |  |
| In “**Map layers**” wizard window, select the map layer |  |
| The newly selected map is loading  Close “**Map Layers**” wizard |  |
| A map background is displayed  Zooming/Unzooming is available |  |
| In ring menu, select “**Map layers**“ item  in pop up menu select “**Grid**“ item |  |
| Select a grid |  |
| Grid are displayed.  Each Grids type is available |  |
| Close geographic view window,  Select INTEL-FS result view window |  |
| Click “**New**” button in the toolbar and select “**ISR Products\Ìmage**” to create a new ISR product |  |
| Create a new ISR Product with the following data:   * Title: ISR1 * Attached file : n\_3001a.nsf located on **“DVD IntelFS Application”** installation disk   All others mandatory fields can be set to any value.  Save the ISR using the “**Save**” button |  |
| Once attached image geolocalization has been processed,  Using Windows explorer, browse to folder **E:\IntelfsData\Log\IntelFS\TacticalImagery**  Open file **TacticalImagery.log** using notepad  Make sure that the following lines are present  Call of the web service …….  AddProduct of …. result : esriJobSucceeded |  |
| Click “**Back to list**” button,  Right click the brand new ISR  In pop up menu select “**Add to Working Dataset**” in popup menu |  |
| Once add to working data set has been completed, open geographic view  Zoom to Tibet area and make sure that an image is displayed. |  |

## Post installation

Once INTEL-FS system installation is completed, the following operation shall be performed

* INTEL-FS server shall be registered in SCOM administration console on SCOM server.
* INTEL-FS server shall be registered in Symantec backup exec server.

# Distributed installation

This chapter describes how to install INTEL-FS application on 2 servers

1. INTEL-FS software hosted in IIS is installed on a first server,
2. Databases hosted in SQL Server are deployed on a remote server on which Microsoft SQL server is installed.

INTEL-FS server and SQL server shall belongs to the same domain.

## INTEL-FS server installation

During INTEL-FS installation, make sure to set radio button «Create SQL databases on localhost» of “SQL bases location” wizard to NO.

Just after INTEL-FS installation, update the following files

1. INTELFSGroupFromCsv.exe.config

This file is located in folder E:\WebAppli\Tools

In this file replace, IntelFSDataSource key value with SQL server FQDN

e.g: <add key="IntelFSDataSource" value="**SQL-SERVER-FQDN**" />

1. DataSources.xml and MasterDataSource.xml

These files are located in folder E:\IntelfsData\Config\System

In these files, replace all the occurrence of string <SqlServerInstance /> with <SqlServerInstance>**SQL-SERVER-HOSTNAME**</SqlServerInstance> where **SQL-SERVER-HOSTNAME** is SQL server’s hostname.

1. Web.config located in folder E:\SqzServer\Api and SqueezeServerService.exe.config in folder E:\SqzServer\Server

In these files, replace all the occurrence of string (local) with **SQL-SERVER-HOSTNAME** where **SQL-SERVER-HOSTNAME** is SQL server’s hostname.

INTELFSGroupFromCsv.exe.config, DataSources.xml, MasterDataSource.xml, Web.config and SqueezeServerService.exe.config files shall be edited with Notepad.exe running as administrator.

## Remote SQL server installation

Following steps shall be performed on remote SQL server.

### Remote SQL Server configuration

INTEL-FS server computer account shall be added in remote SQL server logins. Sysadmin roles shall be set on this account.

Procedure below explains how to perform this setting.

|  |  |
| --- | --- |
| On remote SQL server,  click “**Start > All programs > Microsoft SQL Server 2008 R2> SQL Server Management Studio**”  Type in “**localhost**” in “**Server name**:” area  Click “**Connect”** button  **WARNING**: If Windows Authentication is not available, “SQL Server Authentication” shall be used, please ask remote SQL server DB admin. | Description: Description: 34 |
| Unfold “**localhost > Security**”  Right click on ” **Logins**” and select “**New Login…”** in popup menu | Description: Description: 35 |
| Login wizard creation is displayed.  In “**Login name:**” input area, type in <DOMAIN NAME>\<INTELFS SERVER>$ where  **<DOMAIN NAME>** is servers domain name.  **<INTELFS SERVER>** is INTELFS server hostname |  |
| Select “**Server Roles**” tab,  Select “**public**” and “**sysadmin**” checkmarks.  Click “**OK**” button |  |
| SQL login <DOMAIN NAME>\<INTELFS SERVER>$ has been created  Disconnect Microsoft SQL Server Management Studio |  |

### Remote SQL server connection configuration

INTEL-FS server shall be able to remote access server hosting SQL databases.

To allow these connections an indound rule, named SQL, on remote SQL server firewall allowing TCP port 1433 connection restricted to INTEL-FS server shall be created.

To learn how to create TCP port access firewall inbound rule on INTEL-FS server, please refer to chapter “TCP/UDP port access Firewall Inbound rule configuration” in document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual).

### Remote SQL databases creation

On SQL server, INTEL-FS SQL databases shall be created.

Copy folder E:\IntelfsData\SQLScripts in INTEL-FS server to SQL server.

Using a command prompt run as administrator execute script CreateDB.cmd

CreateDB.cmd script uses two paramaters:

* The first parameter is the name of the folder where SQL databases will be created
* The second parameter is the name of the folder where SQL database logs will be created

These two directories must exist

CreateDB.cmd F:\DB\ F:\DBLog\ create INTEL-FS SQL databases in folder F:\DB and INTEL-FS SQL databases logs in folder F:\DBLog

NOTA: If these parameters are omitted, SQL databases are created at the root of drive F: and the SQL databases logs are created at the root of drive G:

# Uninstallation

To perform a full INTEL-FS uninstallation, follow steps below

* VirusScan «Access Protection» and «On-Access Scanner» features shall be disabled

To learn how to proceed, refer to chapter 4.1 VirusScan disabling

* Uninstall Gazetteer services

To learn how to proceed, refer to chapter 4.2 Gazetteer uninstallation

* Uninstall Cartographic Server

To learn how to proceed, refer to chapter 4.3 Cartographic Server uninstallation

* Uninstall INTEL-FS application

To learn how to proceed, refer to chapter 4.4 iisreINTEL-FS uninstallation

Uninstall COTS deployed by INTEL-FS application installation using Windows “Programs and features” removal wizard

The cots are listed in chapter 5.2 Programs installed on INTEL-FS server

* Uninstall Squeeze Server using Windows “Programs and features” removal wizard
* Uninstall SQL server.

To learn how to proceed, refer to chapter 4.3 SQL Server uninstallation

* VirusScan «Access Protection» and «On-Access Scanner» features shall be enabled

To learn how to proceed, refer to chapter 4.6 VirusScan enabling

## VirusScan disabling

The following procedure describes how to disable VirusScan «Access Protection» and «On-Access Scanner» features.

These disablings speed up the uninstallation process.

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >McAfee**”,  Right click “**VirusScan Console**” |  |
| “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| Right click “**Access Protection**”, in Pop up menu select “**Disable**”  Right click “**On-Access Scanner**”, in Pop up menu select “**Disable**”  Close “**VirusScan Console**” window |  |

## Gazetteer uninstallation

The following procedure describes how to uninstall gazetteer

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| Using the Command Prompt window set current directory to E:\Gazetteer:  Type in “**E:”**  Type in cd “**E:\Gazetteer”** |  |
| Type in “**uninstall.cmd”**  Gazetter uninstallation  script is running  “***Do you really want to uninstall the Gazetteer of the cartographic server yes(y) / no (n) ?***” type ‘y’  “***Press any key to continue . . .***  ” press a key |  |
| Close all windows |  |

## Cartographic Server uninstallation

The following procedure describes how to uninstall Cartographic Server

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| in the window command prompt  Goto E:\CARTOSERVER-INSTALLATION directory  Type in  **“E:**”  “**cd CARTOSERVER-INSTALLATION**” |  |
| Type in “**uninstall\_srv\_intelfs.cmd**”  Wait for Cartographic server uninstallation completion |  |
| If INTEL-FS has not been previously uninstall, using command prompt windows, remove IMAGES share  Type in “**net share IMAGES /delete**” |  |
| Click “**Start**”, “**Control panel**”  Click “**Uninstall a program**”, “**Programs and Features**” window is displayed  Right click “**INTEL-FS CARTOGRAPHIC SERVER <numversion>**” in pop up menu select “**uninstall**” |  |
| Click “**Yes**” button  When Cartographic server is uninstalled, close all windows |  |
| “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| INTEL-FS CARTOGRAPHIC SERVER uninstallation is in progress.  When uninstallation is completed, close all windows |  |

Using “Computer Management” wizard, remove

* ArcGISSOC, ArcGISSOM and ArcGISWebServices accounts
* agsusers and agsadmin groups

|  |  |
| --- | --- |
| On INTEL-FS server, select “**Start >Administrative Tools >Computer Management**” |  |
| In “**Computer Mangement**” wizard, browse to “**System Tools\Local Users and Groups\Users**” node |  |
| Remove ArcGISSOC, ArcGISSOM and ArcGISWebServices users |  |
| The following warning wizard is displayed for each user removed  Click “**Yes**” button |  |
| browse to “**System Tools\Local Users and Groups\Groups**” node  Remove agsadmin and agsusers groups |  |
| The following warning wizard is displayed for each group removed  Click “**Yes**” button  When removal is completed, close all windows |  |

Restart INTEL-FS server

Using Windows “Programs and features” removal wizard, uninstall the following programs

* GDAL 19 (MSVC 2010)
* ArcGIS Military Analyst 10
* ArcGIS Server for the Microsoft .NET Framework 10 – GIS Services

## iisreINTEL-FS uninstallation

The following procedure describes how to uninstall INTEL-FS

|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >Accessories**”,  Right click “**Command Prompt**”, in pop up menu select “**Run as administrator**” |  |
| in command prompt window  Type **iisreset /stop** |  |
| **WARNING:** Close all windows and make sure that no process access WebAppli and dataFolders | |
| On server desktop, double-click “**Uninstall IntelFS**” shortcut  Click “**YES**” button |  |
| The following alert windows may appeared.  Click “**YES**” button |  |
| Uninstallation is in progress. This step might take several minutes.. |  |
| As the “**INTEL-FS Uninstall type**” alert appears,  Click “**Yes**” button to keep Data folders DB and DBLog  Click “**No**” button to perform a full uninstallation  WARNING: This alert window may be hidden |  |
| When uninstallation is completed afer “**No**” button has been selected (I.E. a full uninstallation has been performed) make sure that:   * Web appli folders, * Data folders, * DBs and DB Logs   have been removed. | |

## SQL Server uninstallation

The following procedure describes how to uninstall SQL Server

|  |  |
| --- | --- |
| On INTEL-FS server, close all windows  Click “**Start**”, “**Control panel**”  Click “**Uninstall a program**”, “**Programs and Features**” window is displayed |  |
| Double click “**Microsoft SQL Server 2008 R2 (64-bit)**”  Select “**Remove**” |  |
| Click “**OK**” button |  |
| Click “**Next >**” button |  |
| Click “**Select All**” button |  |
| Click “**Next >**” button |  |
| Click “**Next >**” button |  |
| Click “**Remove**” button |  |
| SQL Server is in progress. This step may last a couple of minutes. |  |
| Click “**Close**” button |  |

## VirusScan enabling

The following procedure describes how to enable VirusScan «Access Protection» and «On-Access Scanner» features which have been previously disabled.

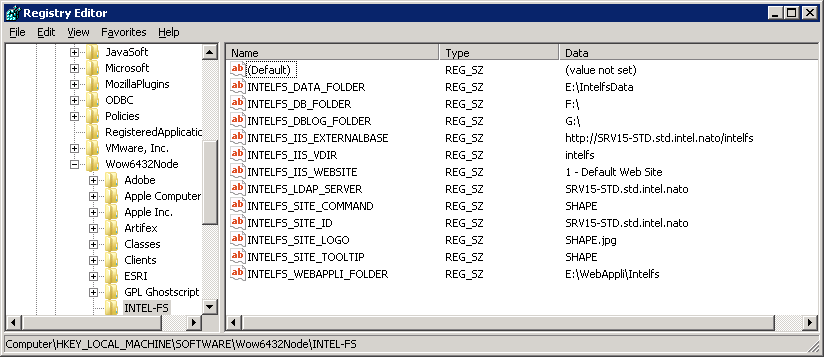
|  |  |
| --- | --- |
| On INTEL-FS server, goto “**Start >All programs >McAfee**”,  Right click “**VirusScan Console**” |  |
| “**User Account Control**” window with the message “**Do you allow the following program from an unknown publisher to make changes to this computer ?**” is displayed.  Click “**Yes**” button. |  |
| Right click “**Access Protection**”, in Pop up menu select “**Enable**”  Right click “**On-Access Scanner**”, in Pop up menu select “**Enable**”  Close “**VirusScan Console**” window |  |

# Additional informations

## Windows registry usage

INTEL-FS installer creates the following registry keys:

* \\HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\INTEL-FS



Using dureg (registry size estimator utilities) INTEL-FS node registry size is less than 2500 bytes

E.G.

**C:\Users\Administrator>"C:\Program Files (x86)\Resource Kit\dureg.exe" /lm "software\Wow6432Node\INTEL-FS"**

**Size of HKEY\_LOCAL\_MACHINE\software\Wow6432Node\INTEL-FS: 1278**

## Programs installed on INTEL-FS server

This chapter describes programs which are installed on INTEL-FS server.

INTELFS installer installs following programs

| Name | Version | Provider |
| --- | --- | --- |
| Application Initialization 1.0 for IIS 7.5 | 7.1 | Microsoft Corporation |
| Microsoft IIS Media Services 64bits | 4.1 | Microsoft Corporation |
| Dynamic IP Restrictions for IIS 7 - Release Candidate | 7.1 | Microsoft Corporation |
| Microsoft FilterPack 1.0 | 12.0 | Microsoft Corporation |
| Microsoft Silverlight | 5.1 | Microsoft Corporation |
| Microsoft Visual C++ 2008 SP1 Redistributable Package (x64) | 9.0 | Microsoft Corporation |
| SQLSysClrTypes 64bits | 10.1 | Microsoft Corporation |
| GDAL 111 (MSVC 2010 Win64) | 1.10.0 | OSGeo |

Squeeze server installer install following programs

| Name | Version | Provider |
| --- | --- | --- |
| Microsoft Web Deploy 3.0 | 3.0 | Microsoft Corporation |
| Apple Application Support | 2.1.7 | Apple, Inc. |
| Quick Time | 7.74 | Apple, Inc. |
| Microsoft Visual C++ 2008 Redistributable – X86 9.0.21022 | 9.0 | Microsoft Corporation |
| Microsoft ASP .NET MVC4 | 4.0 | Microsoft Corporation |

Cartographic server installer install following programs

| Name | Version | Provider |
| --- | --- | --- |
| ArcGIS server | 10.0 | Environmental Systems Research Institute, Inc. |
| GDAL 19 (MSVC 2010) | 1.0.0 | OSGeo |
| ArcGIS Military Analyst | 10.0 | Environmental Systems Research Institute, Inc. |

Cartographic server installer install following update

| Name | Provider |
| --- | --- |
| ArcGIS server for the Microsoft .NET Framework 10 – GIS Services Service Pack 5 | Environmental Systems Research Institute, Inc. |

## Update mode

If a previous version of INTEL-FS application supporting upgrade mode has been installed, INTEL-FS installer detect this previous installation and update it by:

* Removing then installing INTEL-FS sources files
* Keeping INTEL-FS data files
* Updating INTEL-FS SQL databases

## Troubleshooting

### Squeeze server installation error

If squeeze server installation fail,

goto squeezeserver installation (E:\SqzServer)

open using a text editor SqueezeServer installation log (<date>\_<time>\_InstallerLog.txt)

If installation failed during “Visual C++ runtime X86 libraries” step, goto chapter 5.4.1.1

If Installation failed during “MySQL” steps, goto chapter 5.4.1.2

#### Error during “Visual C++ runtime X86 libraries” installation step

* Uninstall “Visual C++ runtime X86 libraries” using Windows “Programs and Features” removal wizard. WARNING: this uninstallation may have side effects on software previously installed before INTEL-FS.
* Reboot INTEL-FS server
* Run Squeeze server installer again

#### Error during “MySQL” installation steps

Install “MySQL server 5.5” by running a826ce9.exe located in folder C:\Windows\Installer

In “MySQL server 5.5” installshield wizard, select the following options

* Choose Setup Type: Complete
* Select "Launch the MySQL Instance Configuration Wizard"
* MySQL Server Instance Configuration: Standard Configuration
* MySQL Server Instance Configuration:
* Select "Install As Windows Service"
* Service Name: "MySQL"
* Launch the MySQL Server automatically
* MySQL Server Instance Configuration:
* Select "Modify Security Settings"
* New root password "intelfs-01"

Install “MySQL Connector Net 6.3.5” by running a826cb7.exe located in folder C:\Windows\Installer

In “MySQL Connector Net 6.3.5” installshield wizard, select the following options

* Choose Setup Type: Complete

Re-launch Squeeze Server installer by running SqueezeServerInstaller.exe located on **“DVD IntelFS Application”** installation disk

In installshield wizard, follow steps described in chapter 2.6.1 except for the following screens

* “Setup Type” select “Add to Squeeze Server Cluster” radio button
* “Installation” type in values below
* Gold IP Host Name: localhost
* User Name: root
* Password: "intelfs-01"

### INTEL-FS installation cancelling

In the INTEL-FS installer clicking the "CANCEL" button triggers INTEL-FS installation interruption and cancellation. This action causes the removal of all already created items

* INTEL-FS file systems described in chapter “INTEL-FS files” of document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .
* SQL bases and bases logs
* IIS objects described in chapter “IIS objects” of document [“Technical Manual for the INTEL-FS Project”](#Technical_Manual) .
* INTEL-FS ADLDS instance
* \\HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\INTEL-FS registry entries
* The folder in the event log

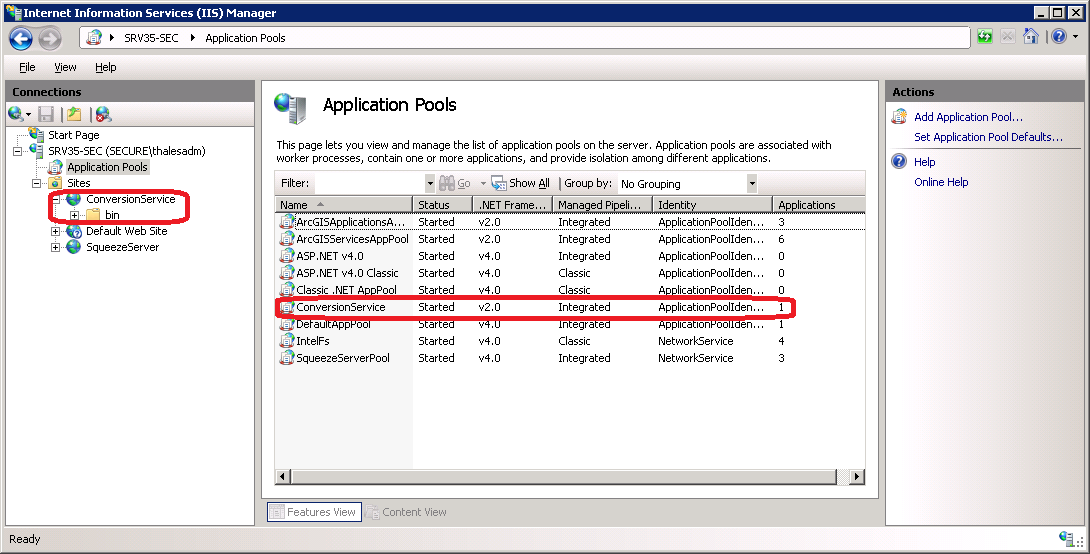
However depending on when “Cancel” button is clicked , it may be that some items above are not automatically removed. It is necessary to remove them manually using

* Windows explorer for INTEL-FS file systems
* SQL server management studio for SQL bases and bases logs
* Internet Information Services (IIS) Manager for IIS objects
* The DOS command "c: \ windows \ ADAM \ adamuninstall.exe / i: INTEL-FS / q / force" for instance ADLDS
* Regedit to the entries in the registry
* Event viewer for the folder in the event log

NOTA The COTS automatically installed by INTEL-FS installer shall be manually removed. Cf chapter 4.4

### ConversionService web site creation error

If during CARTOGRAPHIC SERVER configuration site execution, ConversionService web site and ConversionService application are not created



Execute the following commands in a dos command prompt run as administrator

C:\Windows\system32\inetsrv\appcmd.exe add apppool /name:"ConversionService"

C:\Windows\system32\inetsrv\appcmd.exe add site /name:"ConversionService" /bindings:http://\*:8063

/physicalPath E:\SERVER\_CARTO\CurrentVersion\Web\ConversionService

C:\Windows\system32\inetsrv\appcmd.exe set site /site.name:ConversionService /[path='/'].applicationPool:ConversionService

C:\Windows\system32\inetsrv\appcmd.exe set config "ConversionService"

-section:system.webServer/security/ipSecurity /allowUnlisted:false /commit:APPHOST

C:\Windows\system32\inetsrv\appcmd.exe set config "ConversionService"

-section:system.webServer/security/ipSecurity /+"[ipAddress='127.0.0.1',allowed='true']" /commit:APPHOST

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