

spatial dimension
AN MS GROUP BUSINESS



flexicadastre

LEVERAGING ENTERPRISE GIS IN FLEXICADASTRE

Jonathan Davids



CONFIDENTIALITY

- This document has been issued to the receiving party in the strictest confidence and no parts of this or any other document in this regard may be reproduced or communicated in any form without the express prior consent of the authors.
- The receiving party shall make only such use of the information contained herein as is intended and authorized by an agreement between such receiving party and Spatial Dimension.
- The receiving party will not use or exploit the confidential or proprietary information contained herein for its own benefit or that of any third party and may make only such use of such confidential or proprietary information as is contemplated or specifically authorized by the disclosing party. The receiving party further undertakes that in the event that they do not wish to progress a relationship with Spatial Dimension they will forthwith return to the address contained herein this and any other material related hereto.

OVERVIEW

- Enterprise GIS
 - What is Enterprise GIS?
 - Advantages implementing
 - Characteristics of an Enterprise GIS Framework
- ArcGIS Server in FlexiCadaastre
 - Author > Publish > Consume
- FlexiCadaastre mapping functionality (demo)

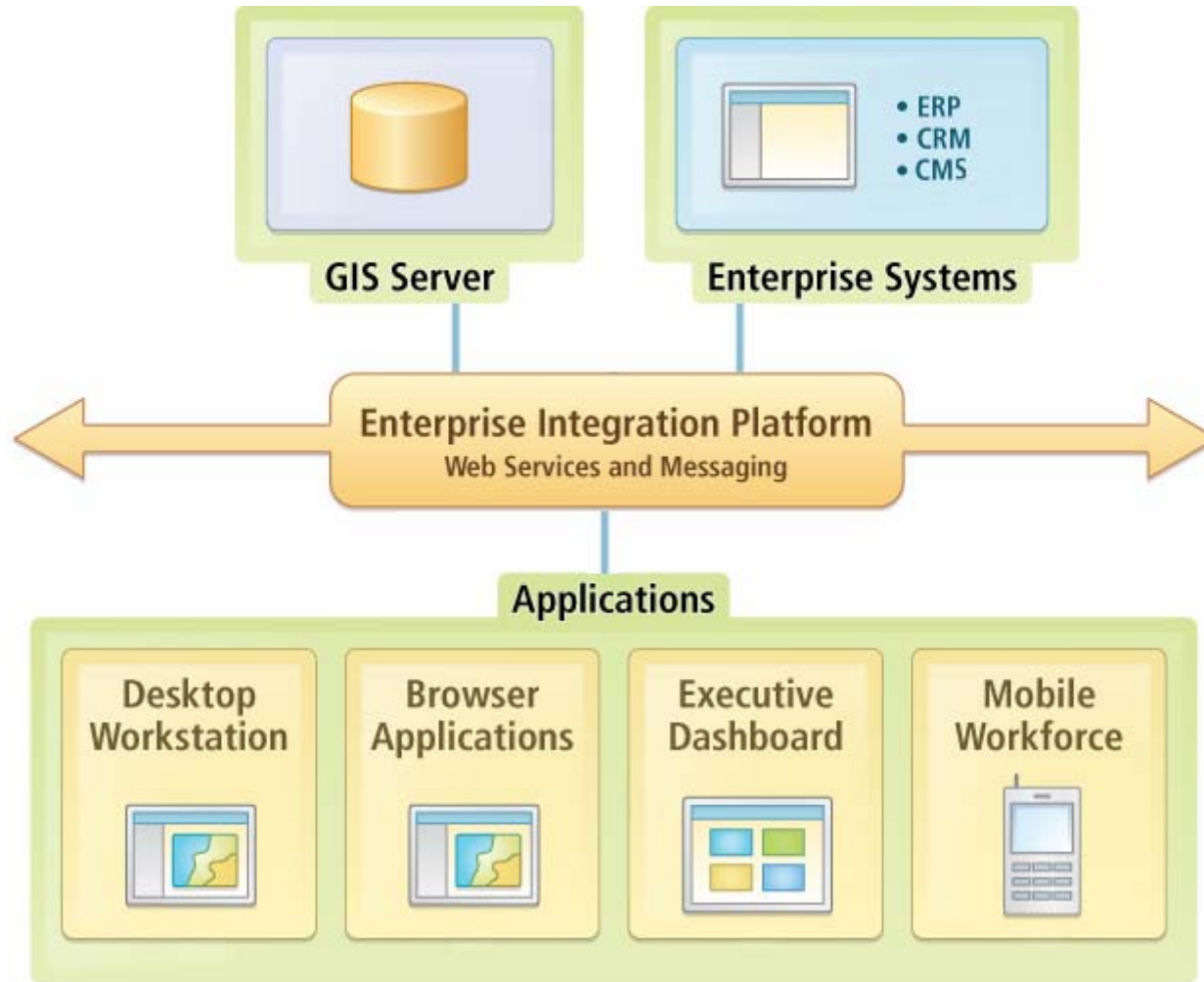
WHAT IS ENTERPRISE GIS?

- Hardware, software, data and people
- Deliver organisation-wide geospatial capabilities
 - Data capture, storage and management
 - Visualisation (maps, reports, graphs)
 - Spatial Analysis (overlaps, proximity, area)

WHAT IS ENTERPRISE GIS?

- Key enablers
 - Open and interoperable
 - Standards based architecture

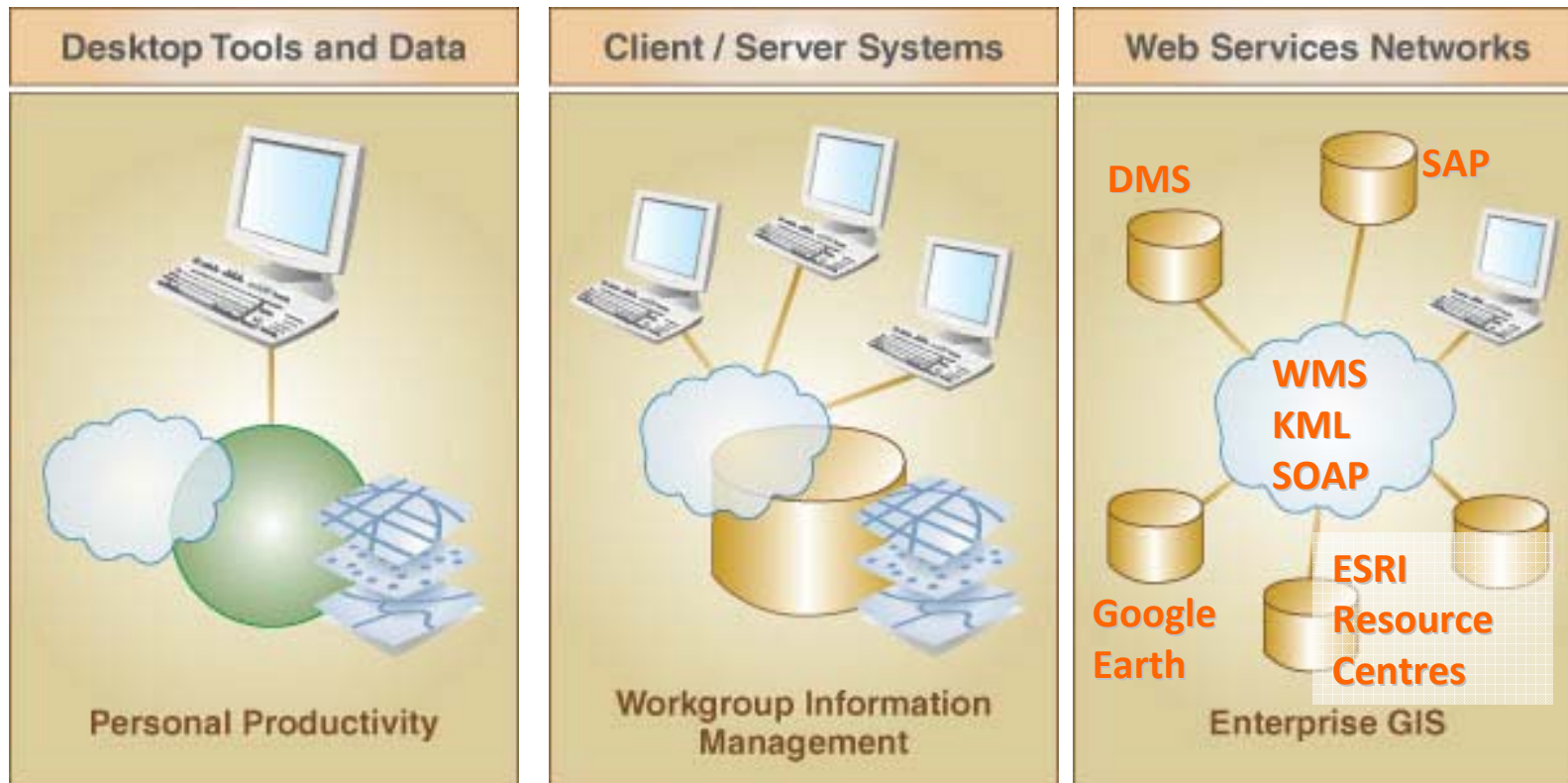
WHAT IS ENTERPRISE GIS?



WHAT IS ENTERPRISE GIS?

- Enterprise GIS enables organisations
 - Share data and maps
 - Between users, departments and regional offices
 - From **single** user to **thousands** of users
 - Integrating with existing systems and environments

WHAT IS ENTERPRISE GIS?



ADVANTAGES

- Advantages implementing Enterprise GIS
 - Common infrastructure
 - Integrates with other enterprise systems
 - Extends capabilities to “non-traditional” users
 - “Geo-enables” executive analysis and decision-support
 - Increases overall operating efficiency
 - High return on investment

CHARACTERISTICS

- Characteristics of an Enterprise GIS Framework
 - Scalable, extensible, reliable and secure
 - Open, interoperable, and standards based
 - Capable of being effectively integrated within the enterprise

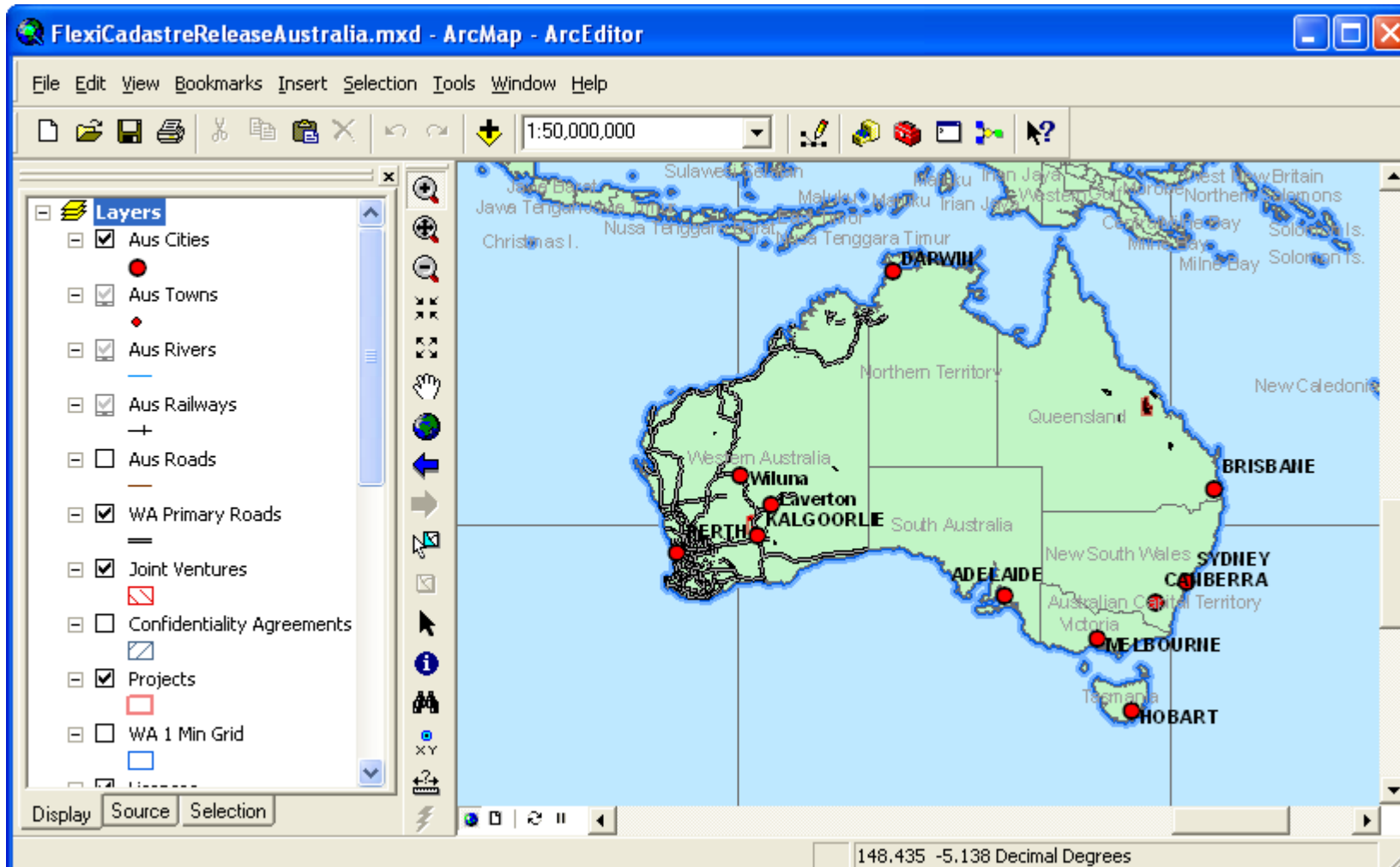
ARCGIS SERVER IN FLEXICADASTRE

ARCGIS SERVER IN FLEXICADASTRE

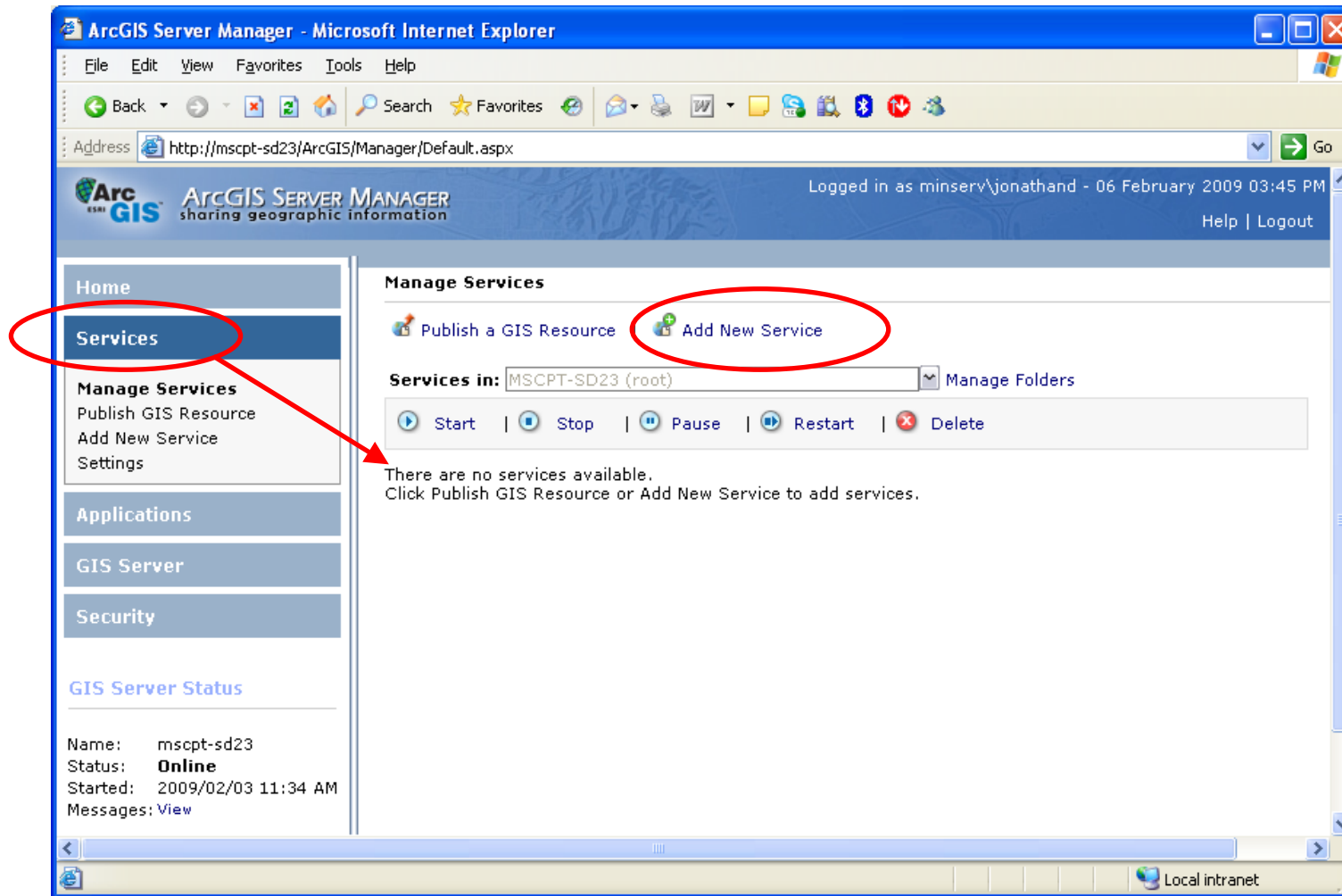
- ArcGIS Server: Enterprise GIS platform of choice
 - Spatial data storage/management
 - Spatial analysis/topological operations
 - Interactive mapping
 - Map production/printing

AUTHOR > PUBLISH > CONSUME

AUTHOR > PUBLISH > CONSUME



AUTHOR > PUBLISH > CONSUME



AUTHOR > PUBLISH > CONSUME

ArcGIS Server Manager - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://mscpt-sd23/ArcGIS/Manager/Default.aspx

Logged in as minserv\jonathand - 06 February 2009 03:45 PM

Help | Logout

Home

Services

- Manage Services
 - Publish GIS Resource
 - Add New Service
 - Settings

Applications

GIS Server

Security

GIS Server Status

Name: mscpt-sd23
Status: **Online**
Started: 2009/02/03 11:34 AM
Messages: View

Add New Service - General

This wizard lets you add a new service to the GIS server.

Name: FlexiCadastrAustraliaRelease

Type: Map Service

Description:

Restart this service automatically whenever ArcGIS Server restarts.

Next > Cancel

AUTHOR > PUBLISH > CONSUME

ArcGIS Server Manager - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://mscpt-sd23/ArcGIS/Manager/Default.aspx

Logged in as minserv\jonathand - 06 February 2009 03:45 PM

Help | Logout

Home

Services

Manage Services

- Publish GIS Resource
- Add New Service
- Settings

Applications

GIS Server

Security

GIS Server Status

Name: mscpt-sd23
Status: **Online**
Started: 2009/02/03 11:34 AM
Messages: View

Add New Service - Parameters

Map Document:

Type in the location of the resource. If you want to browse to a location, only shared drives appear in the list.

Data Frame: Active Data Frame

Output Directory: c:\arcgisserver\arcgisoutput

Virtual Output Directory: http://mscpt-sd23/arcgisoutput

Supported Image Return Type: MIME + URL

Specify cache directory

Server cache directory: c:\arcgisserver\arcgiscache

< Previous Finish Cancel

Local intranet

AUTHOR > PUBLISH > CONSUME

The screenshot shows the ArcGIS Server Manager web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `http://mscpt-sd23/ArcGIS/Manager/Default.aspx`. The page is titled "ArcGIS SERVER MANAGER" and includes a navigation menu on the left with sections for Home, Services, Applications, GIS Server, and Security. The main content area is titled "Add New Service - Capabilities" and contains a list of capabilities to be selected. A red box highlights the "Map Service" option, which is checked. Other capabilities listed include WCS, WMS, WFS, Mobile Data Access, KML (checked), and Network Analysis. Below the capabilities list, there are options to "Enable web access" (checked) and a URL field containing `http://mscpt-sd23/ArcGIS/service`. The "Operations allowed" section includes "Map" (checked), "Query" (checked), and "Data" (checked). At the bottom right, there are navigation buttons: "< Previous", "Next >", "Finish" (highlighted with a red box), and "Cancel". The page also shows the user is logged in as "minserv\jonathand" on 06 February 2009 at 03:45 PM.

AUTHOR > PUBLISH > CONSUME

The screenshot shows the ArcGIS Server Manager web interface in Microsoft Internet Explorer. The browser address bar shows `http://mscpt-sd23/ArcGIS/Manager/Default.aspx`. The page is titled "ArcGIS SERVER MANAGER" and includes the ArcGIS logo and the tagline "sharing geographic information". The user is logged in as `minserv\jonathand` on 11 February 2009 at 04:31 PM. The interface is divided into a left-hand navigation pane and a main content area.

Left-hand navigation pane:

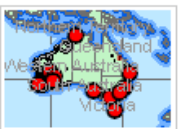


- Home
- Services
 - Manage Services
 - Publish GIS Resource
 - Add New Service
 - Settings
- Applications
- GIS Server
- Security
- GIS Server Status
 - Name: mscpt-sd23
 - Status: **Online**
 - Started: 2009/02/10 06:49 AM
 - Messages: [View](#)

Main content area: Manage Services

Buttons: Publish a GIS Resource | Add New Service

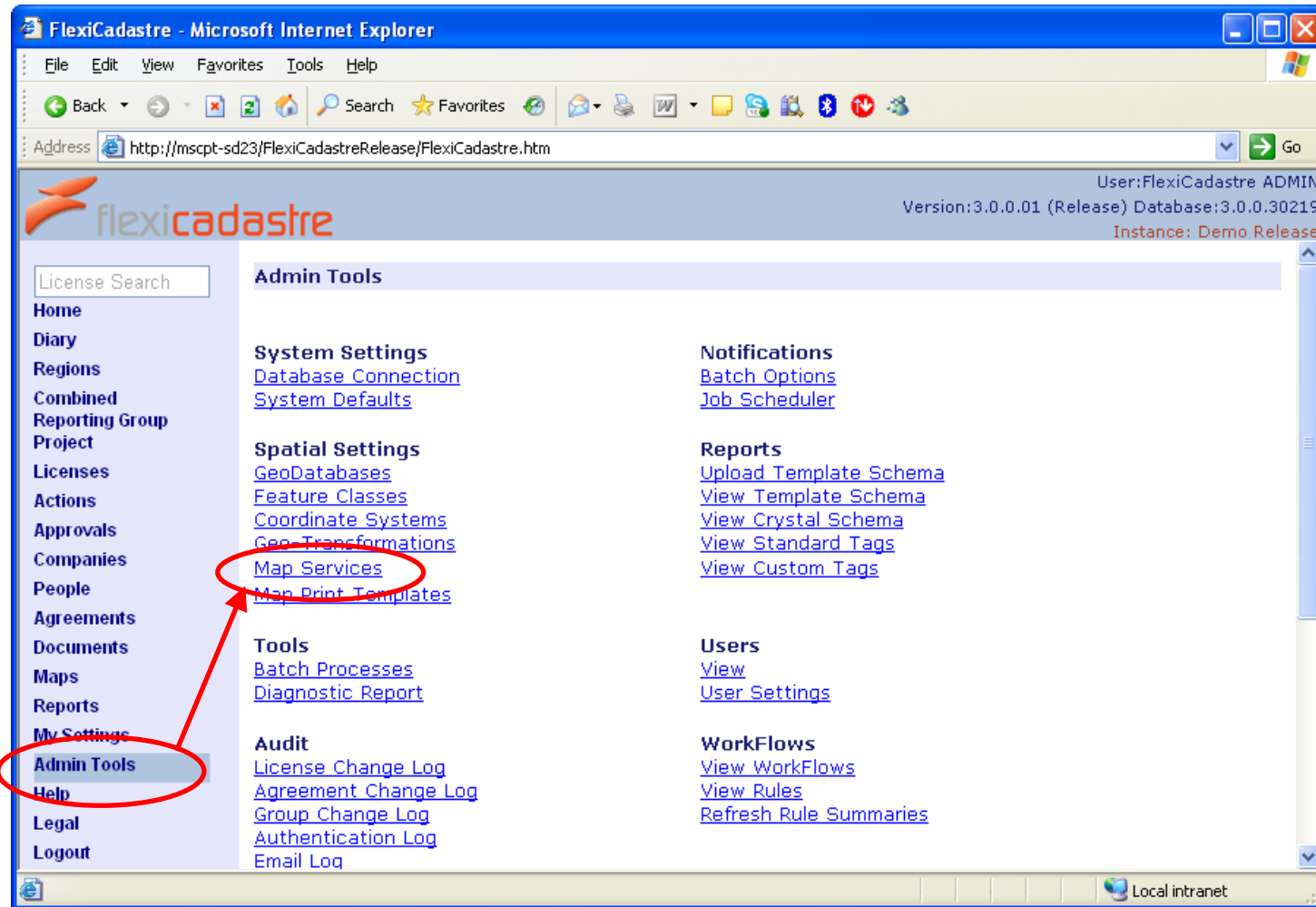
Services in: MSCPT-SD23 (root) | Manage Folders

Control buttons: Start | Stop | Pause | Restart | Delete

Name	Type	Status	Instances (In Use/Running)	Permissions	Edit
 FlexiCadastrAustraliaRelease	Map Service	Started	0/1		

Description:
Source: \\MSCPT-SD23\MXD Files\FlexiCadastreReleaseAustralia.mxd
Capabilities: Map Service, KML
Pooling: Pooled
Startup: Automatic

AUTHOR > PUBLISH > CONSUME



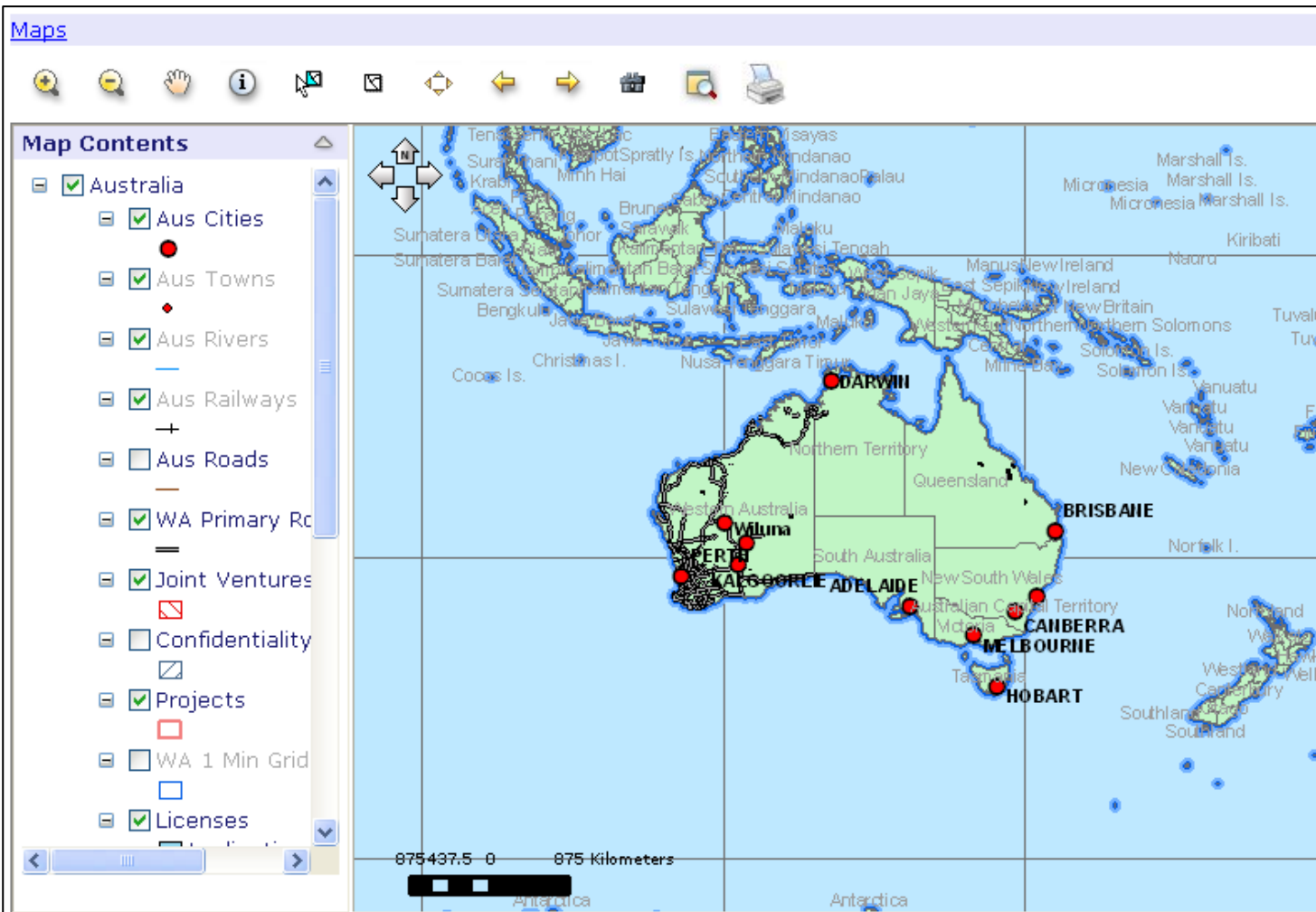
AUTHOR > PUBLISH > CONSUME

The screenshot shows the FlexiCadastré web application in Microsoft Internet Explorer. The browser address bar shows the URL: `http://mscpt-sd23/FlexiCadastréRelease/FlexiCadastré.htm`. The page header includes the FlexiCadastré logo, the user name "User: FlexiCadastré ADMIN", the version "Version: 3.0.0.01 (Release)", the database version "Database: 3.0.0.30219", and the instance name "Instance: Demo Release".

The main content area is titled "Admin Tools > System Settings > Map Services". It displays a message: "There are 3 Map services in the list." followed by a table of services. The table has columns for "Del.", "Service Name", "Type", "Data Source", and "Resource". The "Australia" row is highlighted with a red box, indicating its configuration.

Del.	Service Name	Type	Data Source	Resource
✗	Africa	ArcGIS Server Internet	http://mscpt-sd28/arcgis/services	Layers@FlexiCadastréReleaseAfrica
✗	Australia	ArcGIS Server Internet	http://mscpt-sd28/arcgis/services	layers@FlexiCadastréReleaseAustralia
✗	North America	ArcGIS Server Internet	http://mscpt-sd28/arcgis/services	Layers@FlexiCadastréReleaseNorthAmerica

AUTHOR > PUBLISH > CONSUME



FLEXICADASTRE MAPPING FUNCTIONALITY DEMO

THANK YOU

