How to do it Manual No. 3: ArcMap10 in Remote Desktop mode and Landgate SLIP files

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Getting started with ArcInfo10
The ArcInfo10 exists on a server at DCAIS. To use it you have to use Remote Desktop. Using Remote Desktop means that you will always have access to the latest version of the program, anyone can access the program who has a Windows machine and we will not have to keep having to reinstall new versions and updates on every machine. Remote desktop is essentially your keyboard connected to a computer at DCAIS and the keyboard and mouse operates it.

Terminology
There are references in this text to various items, like windows, tabs, drop down menu, check boxes. To illustrate what is being referred to the following should be helpful:

To log on to Remote Access
Note there may some small changes in the future to this procedure. Click on the **Start** Button (bottom left corner screen).
Select Run in the Window.

In the Run Window type in, or select, mstsc in the Open Drop Down Menu and click on OK Button (note in many cases Remote Desktop will remember your settings in the future).
You now get the Remote Desktop Connection Window.
In the **Computer** Drop Down Menu type in or select rene-test3 (this may be changed in future).

**NOTE:** Because Remote Desktop is isolated from your computer there are no other connections, so you will not be able see your own computer C Drive or the servers where you may have data files you want to use in the GIS. There are some issues that will need to be addressed regarding where is the best place to locate these files. I have found it is better to transfer the files to the Remote Desktop, and set up a small GIS file structure. However, if you want access to the C drive and the servers you will have to do the following:

- Click on the **Options** Button.
- In **General** Tab (see screen shot above) make sure your User name is MCA\xxxx (or whatever your username is) is entered.
- Then the select **Local Resources** Tab (third tab from left).
In the **Local device and resources** in the Secondary Window click on **More**. Check the **Drives** Check Box.

**OK** and then click on **Connect** in the **Remote Desktop Connection** Window.
You are now entering the Remote Desktop mode
You will now get the standard DCA Splash screen. Enter your Password as normal and
the machine will start up and open the remote machine.
When it is open click on the Start button (bottom left corner screen) and select ArcMap10.
WARNING: ArcMap10 takes a minute or so to start up, so be patient.
You should also be able to see your own computer and the various servers and external
drives in Explorer if you have enabled that option. You can copy and paste files to the
Remote Desktop.

Running the SLIP Services
For SLIP Landgate have issued the following username and password:
USERNAME: wamuseum
PASSWORD: Welshpool1 (the last two letters are an L and a One, sorry about that)

There are three categories of SLIP Services:
1. Public
2. Subscription
3. Restricted
The “Public” datasets are freely available and a comprehensive list can be found
at: <https://www2.landgate.wa.gov.au/slip/portal/services/datasets_public.html> and are
detailed briefly below.
The “Subscription” datasets provide Landgate data which are made available via an annual
chargeable subscription service. A list of what datasets are available via subscription can
be found at <https://www2.landgate.wa.gov.au/slip/portal/services/datasets_subscription.
html> and is detailed briefly below.
The “Restricted” datasets require access permissions from the data custodian Agencies. If
you wish to have access to any restricted datasets, a Landgate Account Manager will need
to contact you. A list of Restricted datasets can be found at: <https://www2.landgate.

WMS Services
The following WMS Services are now available to all SLIP registered users. These
services can be accessed via a GIS Application using the following URLs:

1. Subscription SLIP WMS Imagery Service
This WMS <https://www2.landgate.wa.gov.au/ows/wmscsimagery?> has the following
layers:
   Mosaic Street Smart Map Bases
   Town site & Locality maps
   Special Projects (including Rowley Shoals Mosaics) and lots more
   Historical Photography (mostly Metro)
   Coastal Mosaics
   Aboriginal Communities
   Satellite Imagery
   Mosaics 2010 to 1998
   Metro Mosaics 2010 to 2000

2. Public WMS Data Service
This WMS <https://www2.landgate.wa.gov.au/ows/wmspublic?> has the following layers:
- Utilities & Communication (Water and drainage)
- Facilities and Structures (Cultural Features, Building Footprints)
- Transportation (Roads, Paths, Transperth, Bridges, Tunnels, Railways, Airfields)
- Inland Water (Rivers, Catchments, General Hydro)
- Elevation (Contours and Spot Heights)
- Locations and Geodetic Networks (Volunteer Fire, Marine and SES, Geographic Names)
- Imagery and Base maps (Coastline, Graticule, Landgate Ortho Map Index, Overview Towns, Rivers, Roads and Coastline)
- Cadastral and Planning (Survey index, Schemes, Native Title, Districts, Localities, Town Sites)
- Cultural, Society and Demography (Heritage Council Sites, General Cultural, Aboriginal Communities and Heritage Sites)
- Agriculture and Farming (Apiary sites)
- Environment and Conservation (Masses of Data)
- Administrative and Political Boundaries (Fish Habitat, Designated Fishing Zones, Public Access Ways, LGA Boundaries, DEC Boundaries, Regional Parks)
- Business and Economy (Geothermal, Petroleum, Mineral Fields, Mining Tenements, Forest Blocks)
- Geological and Geophysical (Groundwater salinity, Bedrock Geology, Geological Maps, Regolith, Soil, Wind Erosion, Flood Risk)
- Biology and Ecology (Bush Forever, Geomorphic Wetlands, Forest Diseases, Pre-European Vegetation)

3. Public WMS Imagery Service
This WMS Data Service <https://www2.landgate.wa.gov.au/ows/wmspublicimagery?> has the following layers:
- Base Map (All of Australia)
- Street Smart (Metro)
- Aerial Photography (Metro)

4. Subscription Slip Tenure WMS Service
This WMS Data Service <https://www2.landgate.wa.gov.au/ows/wmsCsTenure?> has the following layers:
- Land Tenure

5. Subscription Slip Cadastral WMS & WFS Service
This WMS Data Service <https://www2.landgate.wa.gov.au/ows/wmsCsCadastre?> has the following layers:
- Cadastral and Planning (Cadastre, Historical Cadastre, Easements, Lodged Cadastre)

6. Subscription Slip Virtual Mosaic WMS Service
This WMS Data Service <https://www2.landgate.wa.gov.au/ows/wmsCsMosaic?> has the following layers:
- iDelve WMS MAP Service (Very High Quality Aerial Mosaic for the whole of WA)
7. Subscription SLIP Reserves WMS Service
This WMS Data Service <https://www2.landgate.wa.gov.au/ows/wmsCsReserves?> has the following layers:

   Cadastral and Planning Reserves

Public WFS Services
The following WFS Services are now available to all SLIP registered users. These services can be accessed via a GIS Application using the following URLs, they allow you to select a limited range of data, rather than the situation in the WMS which you get everything:

1. SLIP Cadastral WFS Service (As 5. Above)
https://www2.landgate.wa.gov.au/ows/wfsCsCadastre_4283/wfs

2. GDA94 - LAT/LONG WFS Public (As Part of 2 Above)
https://www2.landgate.wa.gov.au/ows/wfspublic_4283/wfs

3. WGS84 - LAT/LONG WFS Public (As Part of 2 Above)
https://www2.landgate.wa.gov.au/ows/wfspublic_4326/wfs

4. GDA94 – MGA50 WFS Public (As Part of 2 Above)
https://www2.landgate.wa.gov.au/ows/wfspublic_28350/wfs

5. Public WFS ABS DATA Service (As Part of 2 Above)
https://www2.landgate.wa.gov.au/ows/wfsabs_4283/wfs

6. SLIP Topography WFS Service (As Part of 2 Above)
https://www2.landgate.wa.gov.au/ows/wfsCsTopo_4283/wfs

7. SLIP Tenure WFS Service (As 4 Above)
https://www2.landgate.wa.gov.au/ows/wfsCsTenure_4283/wfs

8. SLIP Reserves WFS Service (As 7 Above)
https://www2.landgate.wa.gov.au/ows/wfsCsReserves_4283/wfs

To Load the SLIP Services
With ArcMap/ArcInfo open on a new blank page the object is to add the various categories of SLIP Information that you require. The most obvious are the mosaic images Subscription SLIP Virtual Mosaic WMS Service and also the Subscription SLIP WMS Imagery Service. The first time you do this ArcMap will remember the connections so you can load them onto new documents in the future. This is assuming it is the first time that you are loading SLIP WMS.
In the ArcMap ensure that you have set a coordinate system in the Data Frame Properties (WGS84 or GDA94).
Select the Add button in the menu bar at top of the screen. In the Look in Drop Down Menu select GIS Servers. Select Add WMS Server in the Window.
Click on Add button.

In the URL Drop Down Menu paste in the SLIP service you want, in this case we will do the subscription SLIP Virtual Mosaic https://www2.landgate.wa.gov.au/ows/wmsCsMosaic?
Paste this URL into the box. Click the **OK** Button and you will be asked for your user name and password. Once this has happened you should get the following window with the WMS Chargeable Service Mosaic on www2.landgate.wa.gov.au:

Click on the **Add** button and you should get following window:

Highlight the WMS Chargeable Services Mosaic and click on **Add** Button and you should get the mosaic:
You can repeat the process for all the other WMS options.