

# HARDWARE AND SOFTWARE RECOMMENDATIONS

## Lucy 2014 for SQL Server

Microsoft SQL Server 2012 (All Editions)  
 Microsoft SQL Server 2008 R2 (All Editions)  
 Microsoft SQL Server 2008 (All Editions)  
 Microsoft SQL Server 2005 (SP3 or higher)

### OPERATING SYSTEM AND SOFTWARE REQUIREMENTS

Windows 8.1 (32/64 bit) <sup>2</sup>  
 Windows 7 SP1 (32/64 bit)  
 Windows Vista SP2 (32/64 bit)  
 Windows Server 2012 R2  
 Windows Server 2012  
 Windows Server 2008 R2 SP1  
 Windows 2008 Server SP2+  
 .NET 4.5 Full  
 Internet Explorer 9.0 or 10.0 or 11.0 <sup>4</sup>  
 Microsoft Silverlight 5.0 (min. 5.0.60310.0)  
 ArcGIS 10.0 SP1+, 10.1, 10.2, 10.2.1 <sup>1</sup>

Lucy Web User <sup>1</sup>	✓	✓	✓					✓	✓
Lucy Desktop	✓	✓	✓				✓		✓
File Server				✓	✓	✓	✓		
Services Server				✓	✓	✓	✓		
Database Server				✓	✓	✓	✓		
Web Servers <sup>3</sup>				✓	✓	✓	✓	✓	
GIS Web Server							✓		✓

<sup>1</sup> Does not include ArcGIS<sup>®</sup> requirements; please see Esri web site for more information. Applicable for ArcGIS Server<sup>®</sup> Enterprise Edition Standard or Advanced Versions only.

<sup>2</sup> Windows 8 is supported, Windows RT is not supported.

<sup>3</sup> Includes Lucy Web, Lucy Citizen Portal, Lucy REST API, Lucy Citizen Portal REST API, Lucy Mobile Server, and Lucy Document Server.

<sup>4</sup> IE 8.0 is still supported for limited features within Lucy Web.

### HARDWARE REQUIREMENTS

Minimum and Recommended Hardware Specifications						
	CPU	Cores	RAM	Storage Controller	Storage Space <sup>1</sup>	Minimum Video
Lucy Web User	1 GHz	1	1GB	N/A	50 MB	1024x768
Lucy Desktop	1 GHz	1	1GB	N/A	500 MB	1024x768
File Server	2 GHz	2,2	2GB, 2GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Services Server	2GHz	2,4	2GB, 2GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Lucy Database Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	2 GB/ Lucy DB SQL Server	N/A
Lucy Web Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Lucy Mobile Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A
Lucy REST API Server & Lucy Document Server	2 GHz	2,2	2GB, 4GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A
Lucy Citizen Portal Server	2 GHz	2,2	2GB, 4GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A

<sup>1</sup> Storage space for Lucy components only; does not include storage space for OS or any supporting software including database software.

\* Minimums for servers are appropriate for 5 or fewer concurrent users.

\* Minimums for services server are appropriate for up to 2 clients with 5 or fewer concurrent users.

### Ideal Configuration

- File Server and Services Server on same host
- Database and Web Server on same host within firewall (for performance)
- If Database Server and Web Server are not on same host, a 1 GB Ethernet connection between servers
- Lucy Citizen Portal and/or Lucy Citizen Portal REST API on a server within a DMZ (for best security and to provide access to private citizens)
- Use Lucy REST API with SSL (for security) as it uses basic authentication
- Lucy Mobile Server should use SSL. It is not secure to deploy Lucy Mobile Server without SSL.
- Avoid same host for Services Server and Web Server (for performance)

These recommendations are based on the simplest configuration with the best performance for a standard client and may not be appropriate for all clients. It's possible to put all software on one host if the server has enough drive space to satisfy all applications. It's also possible to use different hosts to meet all server requirements.

Please contact us to discuss any specific questions you may have.



# HARDWARE AND SOFTWARE RECOMMENDATIONS

## Lucy 2014 for Oracle

Oracle 11g Server  
 Oracle 11g Client  
 Oracle 10g Server  
 Oracle 10gR2 Client with Latest ODP.NET patch (Client)  
 Oracle 9i, 10g (Server)

### OPERATING SYSTEM AND SOFTWARE REQUIREMENTS

Windows 8.1 (32/64 bit) <sup>2</sup>  
 Windows 7 SP1 (32/64 bit)  
 Windows Vista SP2 (32/64 bit)  
 Windows Server 2012R2  
 Windows Server 2012  
 Windows 2008 Server R2 SP1  
 Windows 2008 Server SP2+ (32/64 bit)  
 .NET 4.5 Full  
 Internet Explorer 9.0 or 10.0 or 11.0 <sup>4</sup>  
 Microsoft Silverlight 5.0 (min. 5.0.60310.0)  
 ArcGIS 10.0 SP1 + 10.1, 10.2, 10.2.1

Lucy Web User <sup>1</sup>	✓	✓	✓					✓	✓
Lucy Desktop	✓	✓	✓				✓		✓
File Server				✓	✓	✓	✓		
Services Server				✓	✓	✓	✓		
Database Server				✓	✓	✓	✓		
Web Servers <sup>3</sup>				✓	✓	✓	✓		
GIS Web Server							✓		✓

<sup>1</sup> Does not include ArcGIS<sup>®</sup> requirements; please see Esri web site for more information. Applicable for ArcGIS Server<sup>®</sup> Enterprise Edition Standard or Advanced Versions only.  
<sup>2</sup> Windows 8 is supported, Windows RT is not supported.  
<sup>3</sup> Includes Lucy Web, Lucy Citizen Portal, Lucy REST API, Lucy Citizen Portal REST API, Lucy Mobile Server, and Lucy Document Server.  
<sup>4</sup> IE 8.0 is still supported for limited features within Lucy Web.

### HARDWARE REQUIREMENTS

Minimum and Recommended Hardware Specifications						
	CPU	Cores	RAM	Storage Controller	Storage Space <sup>1</sup>	Minimum Video
Lucy Web User	1 GHz	1	1GB	N/A	50 MB	1024x768
Lucy Desktop	1 GHz	1	1GB	N/A	500 MB	1024x768
File Server	2 GHz	2,2	2GB, 2GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Services Server	2GHz	2,4	2GB, 2GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Lucy Database Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	10 GB Oracle	N/A
Lucy Web Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	2 GB	N/A
Lucy Mobile Server	2 GHz	2,4	4GB, 8GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A
Lucy REST API Server & Lucy Document Server	2 GHz	2,2	2GB, 4GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A
Lucy Citizen Portal Server	2 GHz	2,2	2GB, 4GB	RAID Controller (RAID 1 or RAID 5)	1 GB	N/A

<sup>1</sup> Storage space for Lucy components only; does not include storage space for OS or any supporting software including database software.  
 \* Minimums for servers are appropriate for 5 or fewer concurrent users.  
 \* Minimums for services server are appropriate for up to 2 clients with 5 or fewer concurrent users.

### Ideal Configuration

- File Server and Services Server on same host
- Database and Web Server on same host within firewall (for performance)
- If Database Server and Web Server are not on same host, a 1 GB Ethernet connection between servers
- Lucy Citizen Portal and/or Lucy Citizen Portal REST API on a server within a DMZ (for best security and to provide access to private citizens)
- Use Lucy REST API with SSL (for security) as it uses basic authentication
- Lucy Mobile Server should use SSL. It is not secure to deploy Lucy Mobile Server without SSL.
- Avoid same host for Services Server and Web Server (for performance)

These recommendations are based on the simplest configuration with the best performance for a standard client and may not be appropriate for all clients. It's possible to put all software on one host if the server has enough drive space to satisfy all applications. It's also possible to use different hosts to meet all server requirements.

Please contact us to discuss any specific questions you may have.



# HARDWARE AND SOFTWARE RECOMMENDATIONS

## Lucity Mobile and Lucity Mobile Work for Android

### LUCITY MOBILE 1.X

#### Android Tablet Requirements:

- Minimum required disk space: 50MB (future release may require 1GB for disconnected use)
- Minimum operating system: Android 4.0.3
- Supported screen sizes: Large (640dp x 480dp) to XLarge (960dp x 720dp)
- 3G/4G or WIFI-only devices are all acceptable
- GPS
- Camera

### LUCITY MOBILE WORK ORDERS

#### Android Phone Requirements:

- Minimum required disk space: 50MB
- Minimum operating system: Android 2.2
- Supported screen sizes: Small (426dp x 320dp) to XLarge (960dp x 720dp)
- 3G/4G or WIFI-only devices are all acceptable
- GPS
- Camera

### Android Tablet Recommendations

- Resolutions of 720 and greater are recommended. Lucity form designs are shared between the tablet and the web. Tablets smaller than 720 will require frequent scrolling right to left on the screen to see the full width of the form in landscape mode. A display of 960dp by 720dp will effectively show most Lucity forms in both landscape and portrait with minimal side to side scrolling.
- The quality of end user's experience will be directly proportional to the quality of tablet purchased. Devices we like: Samsung Galaxy Tab and Samsung Galaxy Tab 2 (10.2) in both 7" and 10" sizes.

Please contact us to discuss any specific questions you may have.



# HARDWARE AND SOFTWARE RECOMMENDATIONS

## Lucity Mobile for iOS

### LUCITY MOBILE 1.X

#### **iOS Device Requirements:**

- Supports iPad 2+
- Supports iPhone 4+
- Minimum iOS version: 6.1
- 3G/4G or WiFi