Upgrading your Deployment

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Session Agenda

• What and Why
• Before you upgrade
• Upgrading by Components
• Validation after Upgrading
• ArcGIS Enterprise Builder
What are Upgrades?

• Definition
• Maintains configuration
• Includes Server Roles and Apps
Why Upgrade?

• New features and functionality
• Supported life cycle
• Security vulnerability fixes
• Bug fixes
• Performance enhancements
• 3rd party dependencies
Why not Upgrade?

- 3rd party application dependencies
- Unsure of what will break
- Lack of resources
- No business need
Common Terms and Definitions

- In-Place Upgrade
- Uninstall / Install Upgrade
- Direct Upgrade
- Indirect Upgrade
- Post-Upgrade
## Supported Versions

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* 10.7.x - last release series to support direct upgrades from 10.2.x
ArcGIS Enterprise Components

- Portal for ArcGIS
- Portal ArcGIS WebAdaptor
- ArcGIS Server
- ArcGIS Server WebAdaptor
- ArcGIS Data Store
Before You Upgrade…

- Read the documentation
- Download setups from MyEsri
- Download license JSON file from MyEsri
- Check application compatibility
- Record the Web Adaptor names
- And ….
Before You Upgrade…

**Backup!**

Options

- Use WebGISDR tool to create a backup if available
- Tool by component
  - Portal -> WebGISDR
  - Server -> Backup utility
  - Data Store -> backupdatastore utility
- Backup of the content stores (*stop services first*)
  - C:\arcgisportal, C:\arcgisserver, C:\arcgisdatastore
- Take a snapshot of all environments for virtual machines

**DO NOT UNFEDERATE!**
Recommended Order of Upgrades

<table>
<thead>
<tr>
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<th>Upgrade</th>
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<tbody>
<tr>
<td>1</td>
<td>Upgrade Portal for ArcGIS</td>
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<tr>
<td>2</td>
<td>Upgrade ArcGIS Web Adaptor (for Portal)</td>
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<tr>
<td>3</td>
<td>Upgrade the ArcGIS Server site serving as the portal's hosting server</td>
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<tr>
<td>4</td>
<td>Upgrade ArcGIS Web Adaptor (for Server)</td>
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<td>5</td>
<td>ArcGIS Data Store (upgrade primary first, then stand-by)</td>
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<td>6</td>
<td>Upgrade ArcGIS Server (any additional sites in the deployment)</td>
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</table>

*Upgrading through all releases is not necessary*
ArcGIS Enterprise Components

Three-Tier Server Deployment

1. Portal for ArcGIS
2. Portal ArcGIS Web Adaptor
3. ArcGIS Server
4. ArcGIS Server Web Adaptor
5. ArcGIS Data Store
Upgrading Portal for ArcGIS

Import License File and Continue Portal Upgrade

Select a license file (json) to authorize your ArcGIS Enterprise portal’s users and apps. Click Continue Portal Upgrade to continue upgrading your Portal for ArcGIS software.

License file

[Browse] No file selected.

Continue Portal Upgrade
Upgrading Portal for ArcGIS

- If upgrading to a version earlier than 10.7, reindex
Upgrading Portal for ArcGIS

- For Living Atlas premium or subscriber content
  - At 10.7 Living Atlas content is upgraded during post-upgrade
  - Otherwise run the Living Atlas upgrade
At 10.6.1, ArcGIS Data Store required for the Hosting Server

Upgrading Portal for ArcGIS

Notice

Your current configuration is in an unusual deployment and is using an enterprise geodatabase for the hosting server. It is still possible to reference data from geodatabases by registering the database. Server sites including the hosting server enterprise geodatabases cannot be the hosting server site.

To return to a supported status, you must use the ArcGIS Data Store (relational database) with a hosted site by following a specific workflow to add existing services and items. Please refer to the ArcGIS Enterprise Help for information.

https://dev001005.esri.com:6443/arcgis

ArcGIS Server administration URL 'https://dev001005.esri.com:6443/arcgis' is accessible. The federated server does not have an ArcGIS Data Store registered as a managed database and cannot be set as a hosting server. Validating hosting server, ArcGIS Server https://dev001005.esri.com:6443/arcgis' version matches with Portal for ArcGIS. Error: Validation failed. Hosting servers require the ArcGIS Server has an ArcGIS Data Store registered as a managed database. Please select a server that uses one.
Upgrading Portal for ArcGIS - Licensing

- Acquire Portal JSON license file before upgrade Portal
Licensing

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⚠️ Expired
“Upgrading” Web Adaptor for Portal

- Record Web Adaptor name (i.e. `arcgis`, `portal`)

- Uninstall the previous version

- Install the 10.7.1 ArcGIS Web Adaptor
  - Use the same name as previous version!!!

- Reconfigure Web Adaptor
Upgrading ArcGIS Server

- Before 10.5, upgrade finished when setup completed
- At 10.5, post-install require
  - Press *Continue*
  - Other federated servers can be upgraded later

Remember: Hosting Server = same version as Portal
No Direct Upgrade from 10.1.*

- Upgrade to an intermediate version

10.1 -> 10.7.1
"Upgrading" Web Adaptor for ArcGIS Server

- Record Web Adaptor name (i.e. arcgis, server)
- Uninstall the previous version
- Install the 10.7.1 ArcGIS Web Adaptor
  - Use the same name as previous version!!!
- Reconfigure both Web Adaptors
Upgrading ArcGIS Data Store

- Prior to 10.7, upgrade Primary Data Store first, then Standby
- At 10.7, upgrade in any order
- At 10.6, in-place upgrades required (no uninstall / install method)
Validating after Upgrade

- Login to Portal and validate all servers (Portal Settings)
- Index status (portaladmin) – can you find your content?
- Check your TLS settings
- Publish to Portal
- Publish to Server (Server Manager, ArcGIS Pro)
- Reassign Portal members as needed (10.7 or 10.7.1)
  - Change any ‘Standard (Temporary)’ or ‘Lite (Temporary)’
ArcGIS Enterprise Builder

- Introduced at 10.5.1
- Upgrades first supported at 10.6
- Only use if installed with Enterprise Builder
  - Upgrades Portal, Hosting Server, Hosting Data Store, WebAdaptors
- Option: silently run upgradebasedeployment utility
YouTube: “ArcGIS Enterprise: Upgrading Your Deployment”
Give Us Your Feedback

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From the schedule, select the session you attended

Scroll down below the description to find the feedback section

Complete answers and select “Submit”