ArcGIS Pro: Effective License Management
David Watkins
Kory Kramer
ArcGIS Desktop
The applications

ArcGIS Pro

ArcMap
ArcCatalog
ArcScene
ArcGlobe
Is ArcGIS Pro a Replacement for ArcMap?

ArcGIS Pro is the future for desktop GIS
Is ArcGIS Pro a Replacement for ArcMap?

- Yes
- ArcMap still supported
  - But not supported forever
- Over time ArcGIS Pro will replace ArcMap

ArcGIS Pro is the future for desktop GIS
What is the plan for ArcMap?

- ArcMap continues
  - Minor updates / bug fixes

ArcMap 10.7 released Jan 2019
ArcMap 10.7.1 released June 2019
ArcMap 10.8 planned for Q1 2020
How do you get ArcGIS Pro?

• Purchase ArcGIS Desktop (Basic, Standard or Advanced)
  - Perpetual – No expiration (Software + Maintenance)
  - Special Agreement (Enterprise, Educational, NGO, etc.)

• 3 License types
  - Named User
  - Concurrent Use
  - Single Use

• GIS Professional User Type Subscription  *New this year*
  - Named User (Term) only
ArcGIS Pro Licensing Options

**Named User**

- ArcGIS Online
- ArcGIS Enterprise

**Concurrent Use**

**Single Use**
Single Use
ArcGIS Pro Licensing

- Perpetual
- Locked to your machine
- Online or Offline
- Secure
Concurrent Use
ArcGIS Pro Licensing

- Perpetual
- License Manager
  - Requires current version
  - Separate provisioning files
- On-premises \ Your network
- Secure

Available to all existing and new customers
My Esri – Converting NU Licenses

Conversion Type
Named Users → Authorizations

Named Users
Convert From
150 - 5

Named Users

After the conversion is complete, you will need associated to ArcGIS Pro. The grace period is 3 remove the same number of Pro named users.

Ready to convert the licenses listed above? Pro

Product *

ArcGIS Pro for Desktop

Version *

10.1 - 10.x

License Type *

Single Use

Licenses *

- Core Products and Extensions
- Core Products Only
- Extensions Only

File Type *

- License File
- ESLF (Esri Secure License File)

Convert Licenses
Demo
Configuring SU and CU
Licensing Options in ArcGIS Pro
Configuring Single Use License in ArcGIS Pro

The authorization number consists of three letters and a series of numbers similar to ABC123456789.

ArcGIS Desktop Advanced (Single Use)

[Input field for authorization number]
Configuring Single Use License in ArcGIS Pro

Software Authorization Wizard

Enter the authorization number for your software product.

The authorization number consists of three letters and a series of numbers; similar to ABC123456789
Configuring Concurrent Use License in ArcGIS Pro

Software Authorization Wizard

ArcGIS License Server Administrator - 2019.0

Double-click a feature for more information.

Concurrent

<table>
<thead>
<tr>
<th>Feature</th>
<th>Version</th>
<th>Expires</th>
<th>Total</th>
<th>Available</th>
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<tbody>
<tr>
<td>ArcGIS Pro Advanced</td>
<td>1.4-2.4</td>
<td>16-Oct-2019</td>
<td>5</td>
<td>1</td>
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<td>16-Oct-2019</td>
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<td>expired</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Aviation Airports Pro</td>
<td>1.4-2.4</td>
<td>16-Oct-2019</td>
<td>4</td>
<td>1</td>
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<tr>
<td>Aviation Charting</td>
<td>10.1-10.7</td>
<td>expired</td>
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<td>Aviation Charting Pro</td>
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<td>16-Oct-2019</td>
<td>4</td>
<td>1</td>
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<td>Business Analyst Basic</td>
<td>10.1-10.7</td>
<td>expired</td>
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<td>0</td>
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</table>
Configuring Concurrent Use License in ArcGIS Pro

Licensing

ArcGIS Pro Concurrent Use License

<table>
<thead>
<tr>
<th>Name</th>
<th>Licensed</th>
<th>Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Standard</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Advanced</td>
<td>Yes</td>
<td>10/16/2019</td>
</tr>
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</table>

Active License Manager: kramer1

Esri Extensions

<table>
<thead>
<tr>
<th>Name</th>
<th>Licensed</th>
<th>Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Analyst</td>
<td>Yes</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Aviation Airports</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Business Analyst</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Data Interoperability</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Data Reviewer</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Defense Mapping</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Geospatial Analyst</td>
<td>No</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>Image Analyst</td>
<td>Yes</td>
<td>10/16/2019</td>
</tr>
<tr>
<td>LocataXT</td>
<td>Yes</td>
<td>10/16/2019</td>
</tr>
</tbody>
</table>

Settings

- Authorize ArcGIS Pro to work offline: Number of days: 15
- Show license expiration warning messages

Workstation Alias:

- Configure your licensing options
- Manage your data licensing

Learn more about licensing
ArcGIS Pro Licensing Options

- Named User
  - ArcGIS Online
  - ArcGIS Enterprise

- Single Use

- Concurrent Use
Named User
ArcGIS Pro Licensing

- Anytime / anyplace
  - Up to 3 machines
- Grant access by user
- Control product level and extensions
- Re-assign licenses
- Know who is using what and when
- ArcGIS Online or Enterprise
Named User

Licensing in ArcGIS Online
Named User Licensing in ArcGIS Online

Activate organization

- Named User licenses are managed through organization accounts (not public accounts)
- Account must be activated by the person who will administer the ArcGIS Online organization
- Click the activation link from Customer Service
- This email can be forwarded
Named User licensing in ArcGIS Online

Add members to your organization

Users who need an ArcGIS Pro license must first be a member of the organization

- Overview tab > Members card > Invite members

Members must have a User Type assigned that is compatible with an ArcGIS Pro license
Helpful Terms

Administering ArcGIS Online organization

- User Type
- Role
- Groups
- Session
- Portal
- Offline Licensing
- Workstation Alias
Manage Licenses

- Must be Administrator or have the Manage Licenses privilege

- Manage Licenses experience in ArcGIS Online
  - Search by Group or Role
  - Assign and revoke licenses

- ArcGIS Pro user experience
  - Licensing portal and active portal
  - Take license offline
Demo
Manage Licenses

ArcGIS Pro License activity

- Prevent members from taking ArcGIS Pro offline

**ArcGIS Pro Basic**
- 2 assigned
- 48 available
- 50 total

**ArcGIS Pro Standard**
- 2 assigned
- 48 available
- 50 total

**ArcGIS Pro Advanced**
- 25 assigned
- 25 available
- 50 total

Compatible user types: 2

Manage
New Member Defaults

Define the default values members receive when they are added/invited to the organization. These values will be applied to members who receive invitations as well as those who are added via enterprise logins.

- **User Type**: Creator
- **Role**: Publisher
- **Add-on Licenses**
- **Groups**: Not set
- **Credits**: No limit
- **Enable Esri Access**
Add/Invite Members

Hydrologist
Pro. Spatial Analysis in ArcGIS Online.

Role Privileges:
- View organization members
- Create, update, and delete groups
- Join organization groups
- Join external groups
- View groups shared with organization
- Create, update, and delete content
- Publish hosted feature layers
- Publish hosted tile layers
- Publish hosted scene layers
- View content shared with organization
- Share content with groups
- Share content with organization
- Share content with public
- Make groups visible to organization
- Make groups visible to public
  - Spatial Analysis
  - Edit features

Has one or more publisher privileges.

Transportation Analyst

Role Privileges:
- View organization members
- Create, update, and delete groups
- Join organization groups
- Join external groups
- View groups shared with organization
- Create, update, and delete content
- Publish hosted feature layers
- Publish hosted tile layers
- Publish hosted scene layers
- View content shared with organization
- Share content with groups
- Share content with organization
- Share content with public
- Make groups visible to organization
- Make groups visible to public
  - Geocoding
  - Network Analysis
  - Edit features

Has one or more publisher privileges.
### Add/Invite Members

#### Filters
- **User type**
  - Creator
  - Insights Analyst
  - Viewer
- **Role**
  - Administrator
  - Data Editor
  - Hydrologist
  - Publisher
  - Transportation Analyst
  - User
  - Viewer
- **Credits remaining**
- **Last login**
- **App**
- **Organization’s groups**

#### Members

<table>
<thead>
<tr>
<th>Member</th>
<th>Credits remaining</th>
<th>Last login</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ursula Bandy</td>
<td>No limit</td>
<td>Never</td>
<td>Creator</td>
</tr>
<tr>
<td>Olivia Ionnone</td>
<td>No limit</td>
<td>Never</td>
<td>Creator</td>
</tr>
<tr>
<td>Walter Wagonchin</td>
<td>No limit</td>
<td>Never</td>
<td>Creator</td>
</tr>
<tr>
<td>Lindsay Weitz</td>
<td>No limit</td>
<td>Oct 13, 2014</td>
<td>Creator</td>
</tr>
<tr>
<td>Mark Zollinger</td>
<td>No limit</td>
<td>Oct 18, 2016</td>
<td>Creator</td>
</tr>
<tr>
<td>Thomas Balstrom</td>
<td>No limit</td>
<td>Aug 22, 2017</td>
<td>Creator</td>
</tr>
<tr>
<td>John Maza</td>
<td>No limit</td>
<td>Sep 13, 2017</td>
<td>Creator</td>
</tr>
<tr>
<td>Tim Ormsby</td>
<td>No limit</td>
<td>Oct 27, 2017</td>
<td>Creator</td>
</tr>
</tbody>
</table>
### Add/Invite Members

#### ArcGIS Desktop Doc

- **Invite members**: Invite members to your organization.
- **Search members**: Search for members to invite.

#### Manage members' licenses

- Manage your members' licenses on this page.
- **Show more**

#### Filters

- **User type**
  - Creator
  - Insights Analyst
  - Viewer

- **Role**
  - Administrator
  - Data Editor
  - Hydrologist
  - Publisher
  - Transportation Analyst
  - User
  - Viewer

- **Credits remaining**
- **Last login**
- **App**
- **Organization's groups**

#### Table

<table>
<thead>
<tr>
<th>Role</th>
<th>Hydrologist</th>
</tr>
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<tbody>
<tr>
<td>Member</td>
<td></td>
</tr>
<tr>
<td>Credits remaining</td>
<td>500 of 500</td>
</tr>
<tr>
<td>Last login</td>
<td>Never</td>
</tr>
<tr>
<td>User type</td>
<td>Creator</td>
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</table>

<table>
<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Member</td>
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</tr>
<tr>
<td>Credits remaining</td>
<td>500 of 500</td>
</tr>
<tr>
<td>Last login</td>
<td>Never</td>
</tr>
<tr>
<td>User type</td>
<td>Creator</td>
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</table>

<table>
<thead>
<tr>
<th>Role</th>
<th>Hydrologist</th>
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<tbody>
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<td>Member</td>
<td></td>
</tr>
<tr>
<td>Credits remaining</td>
<td>500 of 500</td>
</tr>
<tr>
<td>Last login</td>
<td>Never</td>
</tr>
<tr>
<td>User type</td>
<td>Creator</td>
</tr>
</tbody>
</table>

### Additional Links

- [Trust Center](#)
- [Contact Us](#)
### Manage Licenses

#### Overview

The image shows a screenshot of the Manage Licenses page in ArcGIS Desktop Doc. This page allows you to manage your members' licenses.

#### Filters

- **User type**
  - Creator
  - Insights Analyst
  - Viewer

- **Role**
  - Administrator
  - Data Editor
  - Hydrologist
  - Publisher
  - Transportation Analyst
  - User
  - Viewer

- **Credits remaining**
- **Last login**
- **App**
- **Organization’s groups**

#### Members Table

<table>
<thead>
<tr>
<th>Member</th>
<th>Credits remaining</th>
<th>Last login</th>
<th>User type</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kory Kramer</td>
<td>No limit</td>
<td>Today</td>
<td>Creator</td>
<td>Administrator</td>
</tr>
<tr>
<td>Jennifer Jackson</td>
<td>No limit</td>
<td>Today</td>
<td>Creator</td>
<td>Publisher</td>
</tr>
<tr>
<td>Jan van Roessel</td>
<td>No limit</td>
<td>Today</td>
<td>Creator</td>
<td>Publisher</td>
</tr>
<tr>
<td>Robert Garry</td>
<td>No limit</td>
<td>Yesterday</td>
<td>Creator</td>
<td>Administrator</td>
</tr>
<tr>
<td>Olivia Iannone</td>
<td>No limit</td>
<td>Yesterday</td>
<td>Creator</td>
<td>Administrator</td>
</tr>
<tr>
<td>Mark Zollinger</td>
<td>No limit</td>
<td>Yesterday</td>
<td>Creator</td>
<td>Publisher</td>
</tr>
<tr>
<td>Sam Levi</td>
<td>No limit</td>
<td>Yesterday</td>
<td>Creator</td>
<td>Publisher</td>
</tr>
<tr>
<td>Stephanie Wertman</td>
<td>No limit</td>
<td>Jul 2, 2019</td>
<td>Creator</td>
<td>Administrator</td>
</tr>
</tbody>
</table>

#### Search Bar

The page includes a search bar with the placeholder text **Search members**.
Manage Licenses

ArcGIS Desktop Doc

Search add-on licenses

Explore the status of your organization's licenses. Show more

Add-on licenses
User types

ArcGIS Pro
License activity

Prevent members from taking ArcGIS Pro offline

ArcGIS Pro Basic
2 assigned  48 available  50 total
Compatible user types  2
Manage

ArcGIS Pro Standard
2 assigned  48 available  50 total
Compatible user types  2
Manage

ArcGIS Pro Advanced
30 assigned  20 available  50 total
Compatible user types  2
Manage

ArcGIS Pro extensions

3D Analyst

Aviation Airports
Experience in ArcGIS Pro
Experience in ArcGIS Pro
## Back in ArcGIS Online

### License Activity

Activity: ArcGIS Pro

<table>
<thead>
<tr>
<th>User</th>
<th>Last Used</th>
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</thead>
<tbody>
<tr>
<td>A User Name</td>
<td>Nov 1, 2017</td>
</tr>
<tr>
<td>ArcGISProUser</td>
<td></td>
</tr>
<tr>
<td>Andrew Norris</td>
<td>Feb 20, 2019</td>
</tr>
<tr>
<td>anonisdoc</td>
<td></td>
</tr>
<tr>
<td>ArcGIS Pro Tutorials</td>
<td>Feb 25, 2019</td>
</tr>
<tr>
<td>ArcGISProTutorials</td>
<td></td>
</tr>
<tr>
<td>Doc Admin</td>
<td>Mar 15, 2016</td>
</tr>
<tr>
<td>arcgisprodloc</td>
<td></td>
</tr>
<tr>
<td>Garald Tennewell</td>
<td></td>
</tr>
<tr>
<td>GaraldTennewell</td>
<td></td>
</tr>
<tr>
<td>Hedwiga Carnaman</td>
<td></td>
</tr>
<tr>
<td>HedwigaCarnaman</td>
<td></td>
</tr>
<tr>
<td>Irma Ghidelli</td>
<td>Jul 4, 2019</td>
</tr>
<tr>
<td>IrmaGhidelli</td>
<td></td>
</tr>
<tr>
<td>Jan van Roessel</td>
<td>Jul 8, 2019</td>
</tr>
<tr>
<td>vanroesel2</td>
<td></td>
</tr>
<tr>
<td>Jennifer Jackson</td>
<td></td>
</tr>
<tr>
<td>jitatedali</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>User</td>
<td>Last Used</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Kory Kramer</td>
<td>Jul 8, 2019</td>
</tr>
<tr>
<td>Kory's Laptop</td>
<td></td>
</tr>
</tbody>
</table>

ArcGIS Pro is not connected to a licensing portal and will close in 60 minutes. You may have signed out or your administrator terminated the session or revoked your license. Please save your work.
Take a license offline

### Licensing

**ArcGIS Pro Named User License**

**Activity:** ArcGIS Pro

<table>
<thead>
<tr>
<th>User</th>
<th>Last Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kory Kramer</td>
<td>Jul 8, 2019 (Disconnected)</td>
</tr>
</tbody>
</table>

**Kory's Laptop**

Disconnected.
Last used: 4 mins ago
Active until: Dec 15, 2019 10:59 PM

- Configure your licensing options
- Manage your data licensing

Learn more about licensing
Take a license offline

Settings
- Authorize ArcGIS Pro to work offline
- Licensing Portal: https://www.arcgis.com/
- Workstation Alias: Kory’s Laptop

Show license expiration warning messages.
Take a license offline

Licensing

ArcGIS Pro Named User License

<table>
<thead>
<tr>
<th>Name</th>
<th>Licensed</th>
<th>Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic</td>
<td>Yes</td>
<td>12/15/2019</td>
</tr>
<tr>
<td>Standard</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Advanced</td>
<td>No</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Esri Extensions

<table>
<thead>
<tr>
<th>Name</th>
<th>Licensed</th>
<th>Expires</th>
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<tbody>
<tr>
<td>3D Analyst</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Aviation Airports</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Business Analyst</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Data Interoperability</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Data Reviewer</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Defense Mapping</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Geostatistical Analyst</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Image Analyst</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>LocateIT</td>
<td>No</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Settings

- Authorize ArcGIS Pro to work offline
- Show license expiration warning messages.

Licensing Portal

'https://www.arcgis.com/

Workstation Alias

- Keny's Laptop

- Configure your licensing options
- Manage your data licensing

Learn more about licensing
Take a license offline
Summary

• Convert Named User to Single Use or Concurrent Use
• Adding members + New Member Defaults
• User Types – Creator, GIS Professional and Insights Analyst compatible with ArcGIS Pro licenses
• ArcGIS Online Roles and Groups can help facilitate ArcGIS Pro Named User license management
• Offline license management
Frequent Questions
ArcGIS Pro Named User licensing
What to do when….  

You have been disconnected from ArcGIS Online?

Article ID: 000012574
What to do when....

You have lost your internet connection?

Article ID: 000012574
What to do when....

You need to take your license offline?

Article ID: 000012574
What to do when….

You are unable to check your offline license back online?

Article ID: 000012574
What to do when….

You’re machine was destroyed, wiped clean, or lost with a license offline?

Article ID: 000012574
What extensions are available with ArcGIS Pro?

- Spatial Analyst
- 3D Analyst
- Network Analyst
- Geostatistical Analyst
- Data Reviewer
- Workflow Manager
- Data Interoperability
- LocateXT
- StreetMap Premium
- Pipeline Referencing
- Defense Mapping
- Aviation Airports
- Image Analyst
- Business Analyst
- Publisher
Automating Licensing

Article ID: 000012573
ArcGIS Pro Road Map
2019 Desktop Timeline

Jan
- Pro 2.3

Feb
- Pro 2.3.1

Mar
- Pro 2.3.2
- ArcGIS 10.7

Jun
- Pro 2.4
- ArcGIS 10.7.1

Jan 2020
- Pro 2.5
- ArcGIS 10.8
# ArcGIS Pro Roadmap

## Near-term
- Offset Printing
- Replication Workflows
- Parcel Adjustment
- Voxel Layers
- Tie Point Manager
- Geoprocessing Leveraging Spatial Databases
- Python Notebooks
- Geoprocessing Scheduler
- Scripting Metadata
- Hydro Networks
- Create Network Dataset
- Multidimensional Raster Improvements
- Interactive Suitability Modeling

## Mid-term
- Projects in the Enterprise
- Animated Symbols
- Material Textures
- Multipatch Editing in Stereo
- Layer Blend Modes
- Presentations
- GPS Support
- Dynamic Feature Clustering
- Voxel Layer Sharing
- Map Graphics
- New Extensions

## Long-term
- Terrain Editing
- 3D Mesh as ground
- High Fidelity rendering

*July 2019*
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