

Publication Strategy

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- 1. Performance
- 2. Reliability
- 3. Security



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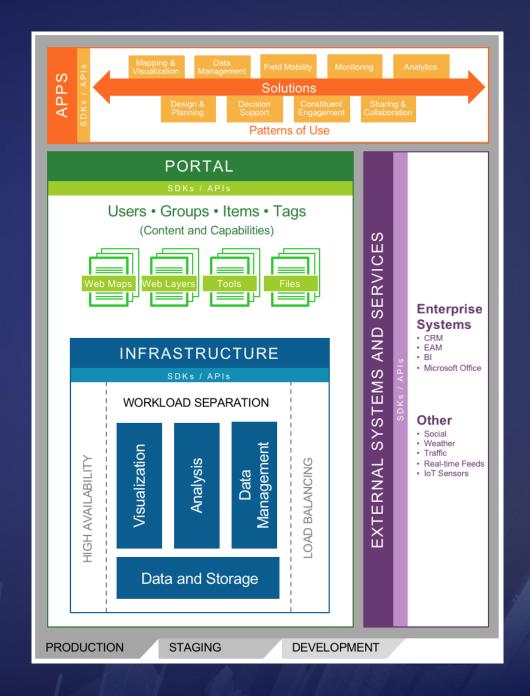
- 1. Performance
- 2. Reliability
- 3. Security



Who Uses GIS?

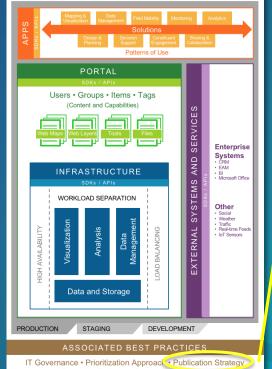


The ArcGIS Conceptual Reference Architecture





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Automation • Capability Delivery • Security • Workforce Development

Architecting the rest Platform: Best Practices

Publication Strategy: Geospatial Content Delivery

A geospatial content publication strategy is necessary for delivering content to consumers in a well performing, reliable, and

An effective geospatial content delivery strategy must address performance, reliability, and security. By addressing these three areas, organizations can make certain that content will be available and delivered in a manner that is suitable for sumers to use. This strategy should balance user expectations for performance and availability against security and load on the infrastructure. The intent is to mitigate risk while meeting audience needs and expectations.

Recommendations

One common publication need involves sharing internal information with people outside of the organization—for example, a city sharing land ownership information with the public. A typical strategy would involve creating a publication geodatabase (as a hosted service) deployed to a cloud environment, which is separated from internal systems. This strategy addresses the elements of performance, reliability, and security.

Performance is addressed by separating information consumers from operational or transactional systems. In the example of the city sharing land ownership information, the public consumes information from ArcGIS Online, which reserves the city's internal resources for transactional editing of the property boundaries. Separating consumers from transactional editing reduces resource contention, increasing the available resources for editors. Leveraging a cloud-hosted, software-as-a-service (SaaS) environment also provides a scalable, more elastic venue for consumers, so the available resources can grow in response to demand (for example, to support a suddenly popular map). In the city's example, performance is appropriately addressed for information curators and consumers.

Reliability is an important aspect of an information system. Reliability can be expressed as a service level agreement (SLA) or as an expectation of when the system will be available (for example, during work hours, or during a crisis). Organizations can address reliability by following many of the other best practices, such as high availability, load balancing, workload separation, and security. It can also be addressed by leveraging cloud capabilities. In the city's example, reliability is addressed for the public, because ArcGIS Online has a 99.9% SLA. There is a less strict SLA for editors, which does not warrant high availability. Organizations (in this case, the city) should implement appropriate infrastructure to

Security means exposing the right content to the right consumers, while still protecting the enterprise. In the city's example, consumers are allowed to view the published land ownership information, but they have no access to update the property boundaries. For reasons such as legality and cost, property boundaries should only be edited by authorized experts and maintained in a secure system of

support those less strict SLA requirements for their editors.

consumer side, but internally, the land records department maintains lots of sensitive information, so a separate internal publication environment is appropriate for other departmental access. In this case, the city might also consider a separate internal publication environment for decision support, as shown in figure 1. Figure 1 - Publish co An effective geospatial content publication strategy will address performance,

reliability, and security. The strategy should strive to deliver content that meets the needs and expectations of consumers, while protecting internal systems and data. Effective geospatial content deliver exposes appropriate information to the broader audience while minimizing the impact on operations.

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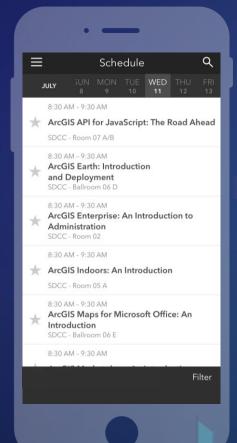
WORKSHOP	Time Frame	Location
 Distributed GIS – Establishing a Trusted Collaboration 	• Wednesday 5:45 – 6:05 pm	Implementing ArcGIS Area
 Reduce Risk with IT Governance 	Thursday 12:15pm – 12:35pm	

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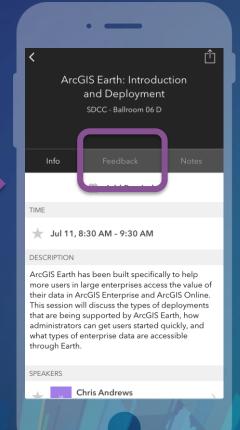
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