



A PlatformDIGITAL™ Solution

# Data Hub

AWS Outposts



DIGITAL REALTY

Platform  
**DIGITAL™**

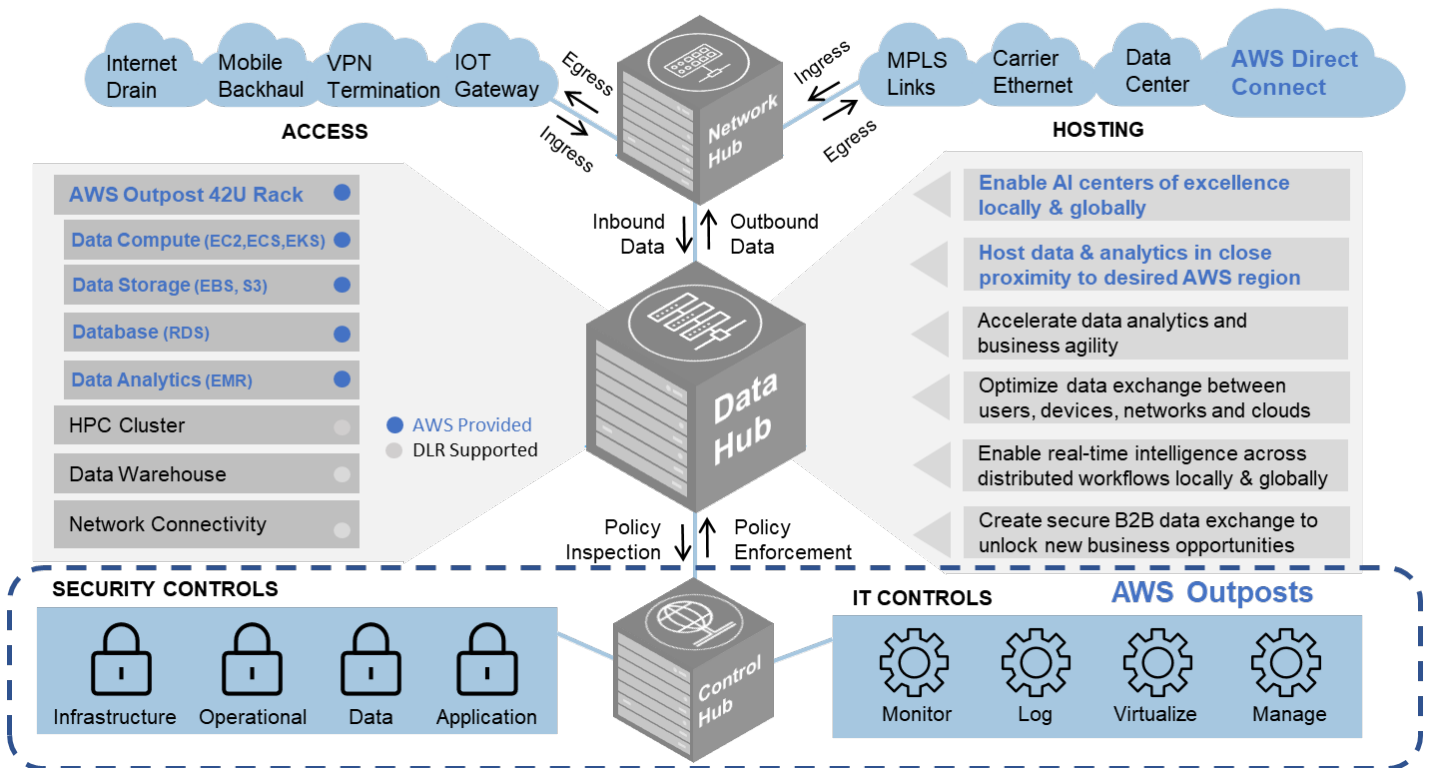
## Optimize Data Exchange

Digital business requires a new data infrastructure architecture, one that localizes data aggregation, staging, analytics, streaming, and management at global points of business presence.

This improves performance and data compliance control, necessary to support exploding volume, variability and velocity of data creation, processing and storage to accommodate digital business. The strategy brings the users, networks, systems, and controls to the data, which removes barriers of data gravity and creates centers of data exchange to scale digital business.

### KEY BENEFITS

- ✓ Bring AWS services to your Digital Realty deployment
- ✓ Enable Hybrid Cloud with AWS
- ✓ Maintain compliance and sovereignty
- ✓ Integrate public/private data sources
- ✓ Distribute business intelligence
- ✓ Connect global data ecosystems
- ✓ Low latency to local data and end users
- ✓ Direct enterprise network integration



### ENABLE CENTERS OF DATA EXCHANGE WITH AWS OUTPOSTS

By deploying Data Hub on PlatformDIGITAL™ enterprises create centers of data exchange to solve global coverage, capacity and connectivity needs. These centers of data exchange are an ideal place to support analytical workflows. HPC, combined with distributed storage and security, leads to real-time processing which results in real-time benefits.

To enable this solution as a turnkey bundle, Digital Realty has integrated AWS Outpost as part of the PlatformDIGITAL™ Data Hub solution. This unified solution provides best-in-class hybrid cloud infrastructure paired with a seamless global ecosystem with consistent experience, security and resiliency.



## STARTER KIT AT A GLANCE

Get started quickly with a pre-packaged Data Hub with AWS Outposts solution configuration based on best practices to speed deployment and results. Engineered solutions available as needed.

### DATA HUB FEATURE SET

- ✓ Secure colocation for data infrastructure footprint (expandable)
- ✓ Secure, direct connection to AWS cloud
- ✓ Global access to operational environment via portal/API's
- ✓ Streamlined contracting vehicle for multi-site deployments
- ✓ Cabinet installation and remote hands services
- ✓ Industry Standard Compliance (ie. ISO, SOC, PCI, etc.)
- ✓ Discounted pricing for starter kit specific configuration

### AWS OUTPOSTS FEATURE SET

- ✓ Fully managed AWS infrastructure
- ✓ Optimized to run AWS services on premises
- ✓ Same AWS services, tools, and API's as in AWS Regions
- ✓ Fully redundant fault-tolerant hardware for high availability
- ✓ Range of configuration options designed to meet a variety of application needs

## DATA HUB STARTER KIT AND AWS OUTPOSTS

This turnkey bundle includes the necessary components and services to rapidly plan, deploy and scale your Data Hub with AWS Outposts. The pre-configured solution accommodates a typical enterprise deployment of a Data Hub with AWS Outposts to provide a truly consistent hybrid experience. Ideal for workloads that require low latency access to on-premises systems, local data processing, or local data storage.

### CONFIGURATION DETAILS

#	COMPONENT	PURPOSE
1	Private Cage	Security (secure physical isolation)
2	AWS Outpost Rack	Hybrid cloud
3	Additional Cabinets	Enterprise infrastructure
4	Fiber Cross-Connects Package	Direct connectivity (physical)
5	Service Exchange Ports	Ecosystem connectivity (virtual)
6	Card Reader	Security (secure physical access)
7	Cold Aisle Containment	Cooling and airflow management
8	Installation Services	Design/Install (speed to deploy)
9	Remote Hands Bundle	Move/add/change (ease to maintain)

Component*	Small	Medium	Large	X-Large
Outpost Rack	1-2	4-6	8-10	12-16
Customer Cabinets	2	2	2-4	4-6
Total Cabinets	4	8	12	20
Cross Connects	6	6	12	12
Service Exchange Ports	2	2	2	2

**\*Custom configurations available**

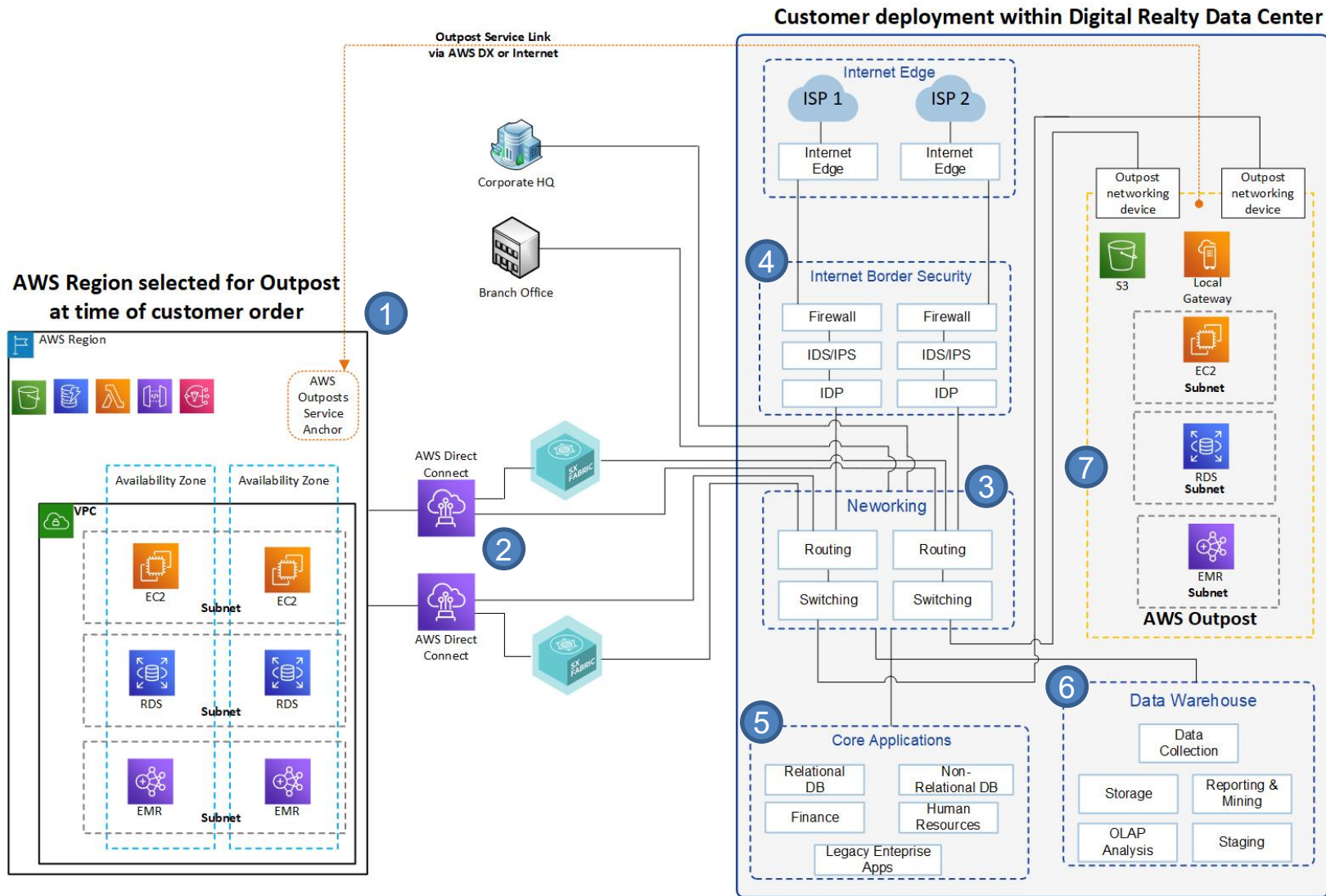
### WHY AWS OUTPOSTS AND DIGITAL REALTY

AWS Outposts offers you the same AWS hardware infrastructure, services, APIs, and tools to build and run your applications on premises and in the cloud for a truly consistent hybrid experience. AWS compute, storage, database, and other services run locally on Outposts, and you can access the full range of AWS services available in the Region to build, manage, and scale your on-premises applications using familiar AWS services and tools.

Digital Realty provides PlatformDIGITAL™, the single global data center platform to solve global coverage, capacity and connectivity needs by bringing the users, things, networks and clouds to the data to remove data gravity barriers and scale digital business.



# DATA HUB REFERENCE ARCHITECTURE



- 1 Organizations have implemented hybrid IT architectures that leverage the AWS platform to build services and applications for their users which interacts with data sets and workloads that remain on-prem in Digital Realty Data Hubs
- 2 The AWS “home” Region connects to the AWS Outposts in the Data Hub using AWS Direct Connect via Dedicated Connections or Service Exchange which supports Hosted Connections and Hosted VIFs. Enabling private, low latency connections between the two environments as well as providing a secure and reliable connection for the Outpost service link.
- 3 The networking infrastructure terminates connectivity into the Data Hub enabling the integration of the Outpost into the corporate LAN/WAN supporting high throughput and low latency.
- 4 Internet access is controlled and secured by the enterprise and using their security standards
- 5 Several core applications remain in Digital Realty Data Centers due to inability to refactor for AWS, data locality or privacy requirements, or proximity to users.
- 6 An Enterprise Data Warehouse resides at the Digital Realty Data Hub. An increase in the volume of data and a need for actionable insights on the data has made moving data to AWS across the network expensive and limited the immediate value that can be extracted from the data.
- 7 Deploying an AWS Outpost within a Digital Realty Data Hub enables organizations to bring AWS compute services to their on-prem Data Warehouse enabling the sub millisecond delivery of results. It also supports enterprise applications that require proximity to end-users. The global availability of Digital Realty’s Data Hub positions customers to deploy Outposts in a repeatable fashion.





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GLOBAL SCALE**

Data Center Solutions When  
and Where You Need Them

**WANT TO LEARN MORE?**

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**ABOUT DIGITAL REALTY**

Digital Realty supports the data center, colocation and interconnection strategies of customers across the Americas, EMEA and APAC, ranging from cloud and information technology services, communications and social networking to financial services, manufacturing, energy, healthcare and consumer products. To learn more about Digital Realty, please visit [digitalrealty.com](http://digitalrealty.com) or follow us on LinkedIn or Twitter.

