



Architecture diagrams for aerospace

Satellite Operator Development and Test Resiliency



Satellite Operator Development and Test Resiliency: Architecture diagrams for aerospace

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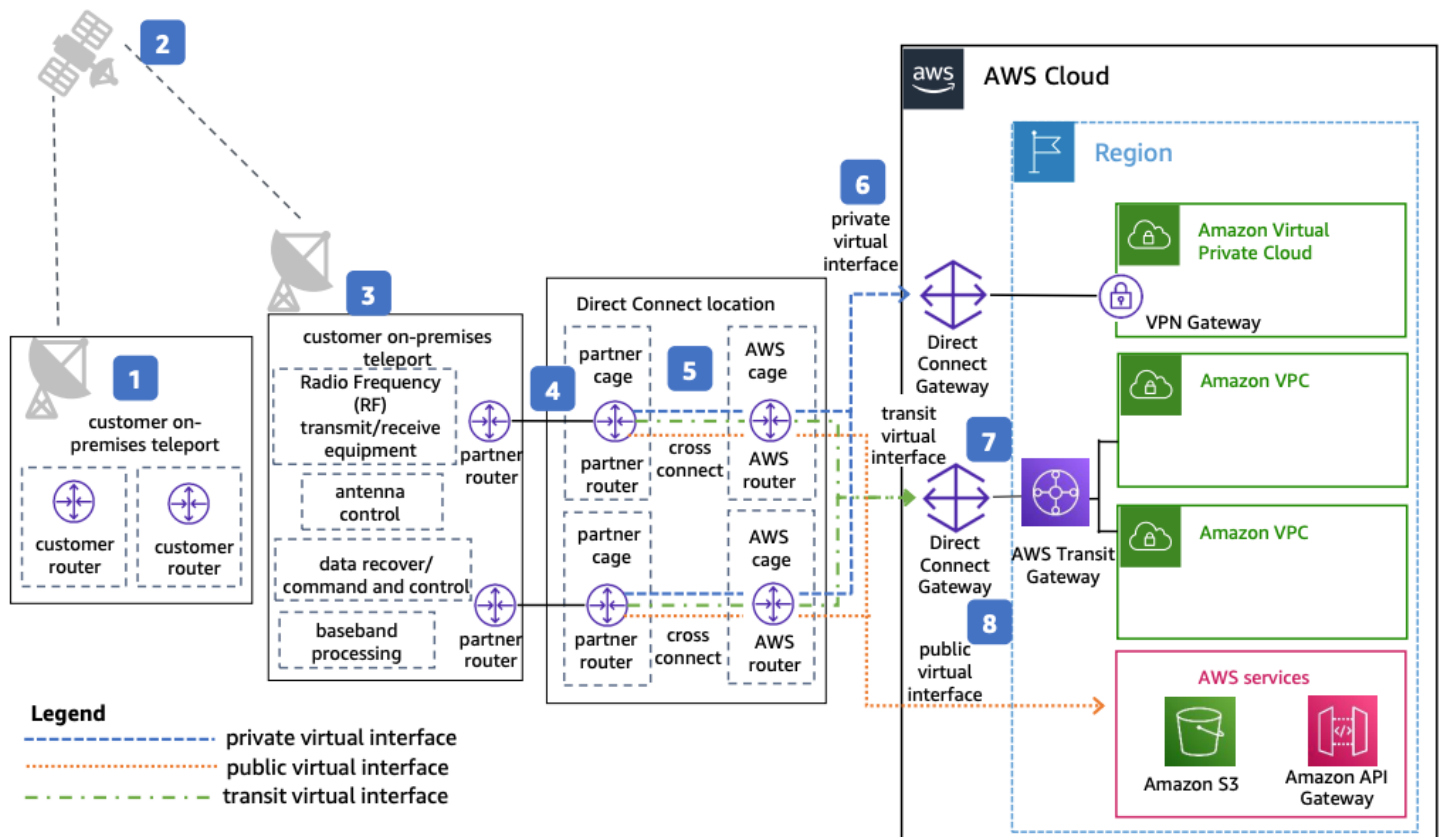
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Satellite Operator Development and Test Resiliency

Publication date: April 25, 2023 ([Diagram history](#))

With this architecture, you can achieve development and test resiliency for non-critical satellite operator workloads. The solution uses separate connections that terminate on separate devices in one location through an AWS Direct Connect Service Delivery Partner.

Development and test resiliency diagram



The following steps describe the data flow and connectivity setup for this architecture:

1. Use satellite communications from your on-premises location to communicate back to your AWS Cloud environment. Use two customer routers and one satellite antenna.
2. Work with an [AWS Direct Connect Service Delivery Partner](#) that provides and manages the single satellite infrastructure.
3. The partner provides teleport connectivity with one physical connection on two different devices at a single location and handles necessary demodulation of your data.

4. The partner sets up two physical connections on different devices at a single site. Use these connections for dedicated or hosted connectivity.
5. Order dedicated connectivity or hosted connectivity from the AWS Direct Connect Service Delivery Partner.
6. (Optional) Enable MAC Security.
7. (Optional) Provision private virtual interfaces (VIFs) to access your private AWS resources through [Direct Connect Gateway](#).
8. (Optional) Provision transit VIFs to access your private AWS resources through Direct Connect Gateway and [AWS Transit Gateway](#).
9. (Optional) Provision public VIFs to access your public AWS resources such as [Amazon Simple Storage Service](#) and [Amazon API Gateway](#). Connectivity can be Regional or global.

Further reading

For additional information, see the following resources:

- [AWS Architecture Icons](#)
- [AWS Architecture Center](#)
- [AWS Well-Architected](#)

Diagram history

To receive updates about this reference architecture diagram, subscribe to the RSS feed.

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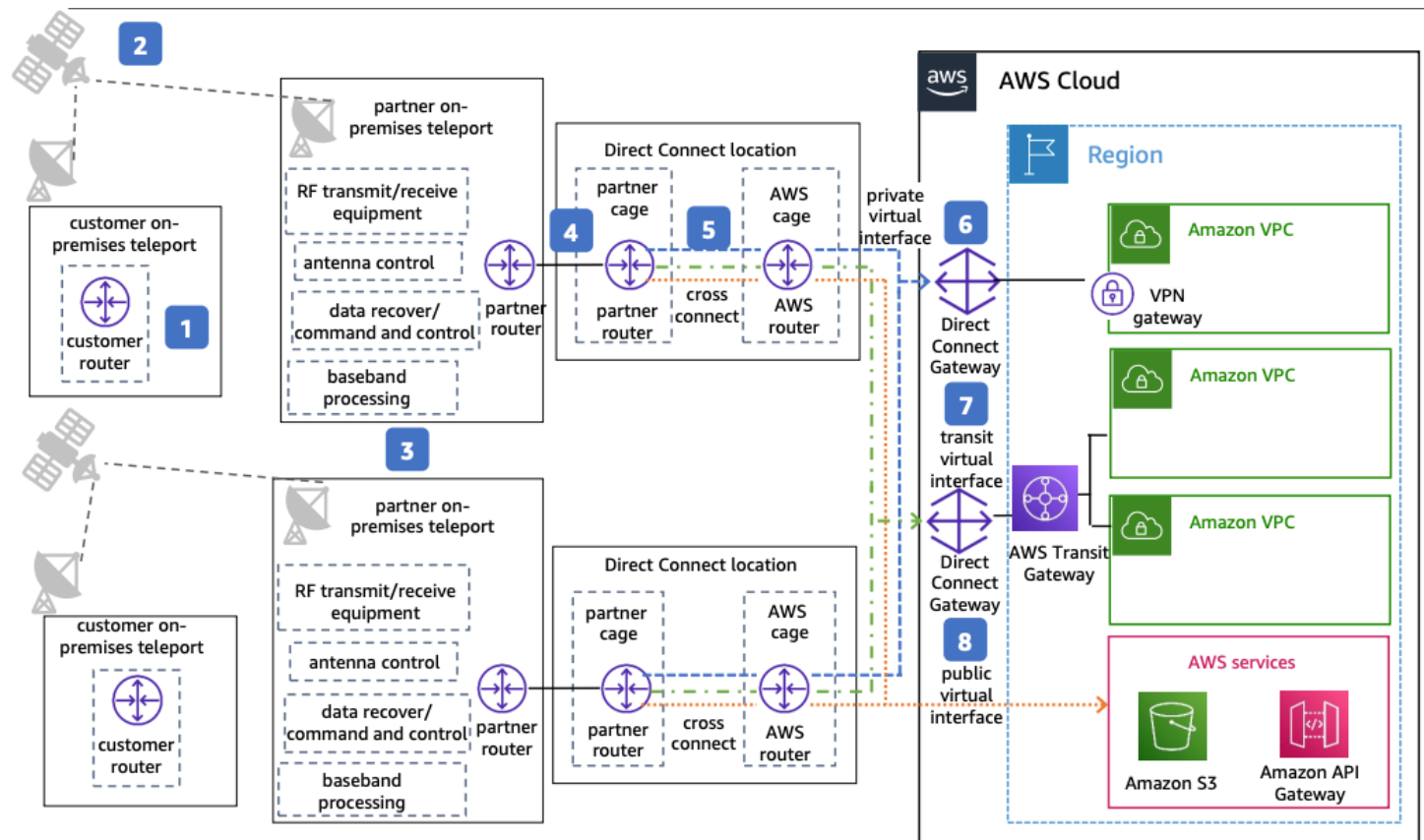
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Satellite Operator High Resiliency

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With this architecture, you can achieve high resiliency for satellite operator workloads. The solution uses one connection terminating at multiple locations through an AWS Direct Connect Service Delivery Partner with redundant satellite infrastructure.

Satellite operator high resiliency diagram



The following steps describe the data flow and connectivity setup for this architecture:

1. Use satellite communications from your on-premises locations to communicate back to your AWS Cloud environment. Use one customer router and one satellite antenna in multiple locations.
2. Work with an [AWS Direct Connect Service Delivery Partner](#) that provides redundant satellite infrastructure.

3. The partner provides teleport connectivity with one physical connection on two different devices at multiple locations and handles necessary demodulation of your data.
4. The partner sets up one physical connection on different devices at multiple sites. Use these connections for dedicated or hosted connectivity.
5. Order dedicated connectivity or hosted connectivity from the AWS Direct Connect Service Delivery Partner.
6. (Optional) Enable MAC Security.
7. (Optional) Provision private virtual interfaces (VIFs) to access your private AWS resources through [Direct Connect Gateway](#).
8. (Optional) Provision transit VIFs to access your private AWS resources through Direct Connect Gateway and [AWS Transit Gateway](#).
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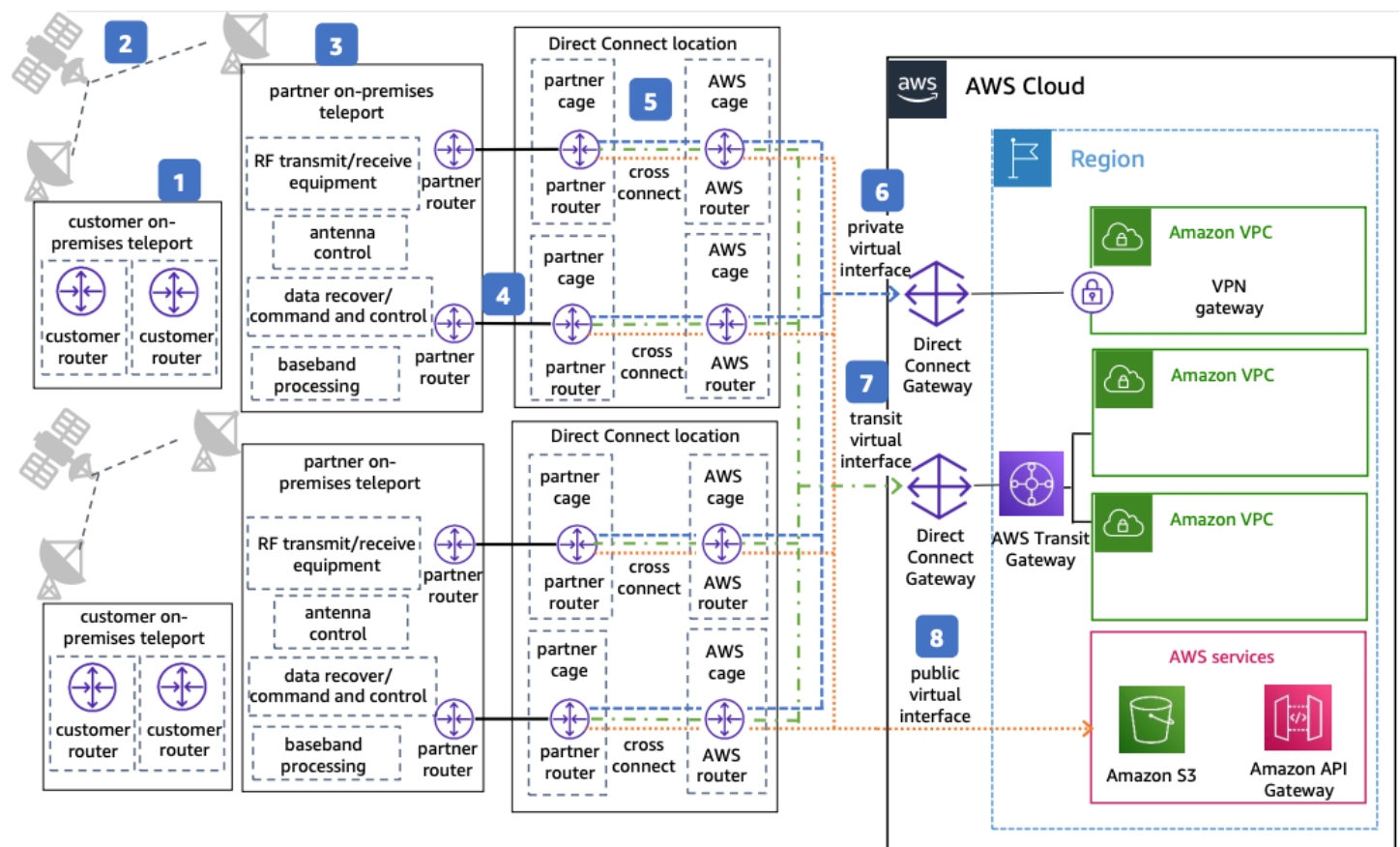
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Satellite Operator Maximum Resiliency

Publication date: April 25, 2023 ([Diagram history](#))

With this architecture, you can achieve maximum resiliency for satellite operator workloads. The solution separates connections that terminate on separate devices in more than one location. An AWS Direct Connect Service Delivery Partner provides redundant satellite infrastructure.

Satellite operator maximum resiliency diagram



The following steps describe the data flow and connectivity setup for this architecture:

1. Use satellite communications from your on-premises locations to communicate back to your AWS Cloud environment. Use two customer routers and one satellite antenna in multiple locations.
2. Work with an [AWS Direct Connect Service Delivery Partner](#) that provides redundant satellite infrastructure.

3. The partner provides teleport connectivity with two physical connections on two different devices at multiple locations and handles necessary demodulation of your data.
4. The partner sets up two physical connections on different devices at multiple sites. Use these connections for dedicated or hosted connectivity.
5. Order dedicated connectivity or hosted connectivity from the AWS Direct Connect Service Delivery Partner.
6. (Optional) Enable MAC Security.
7. (Optional) Provision private virtual interfaces (VIFs) to access your private AWS resources through [Direct Connect Gateway](#).
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