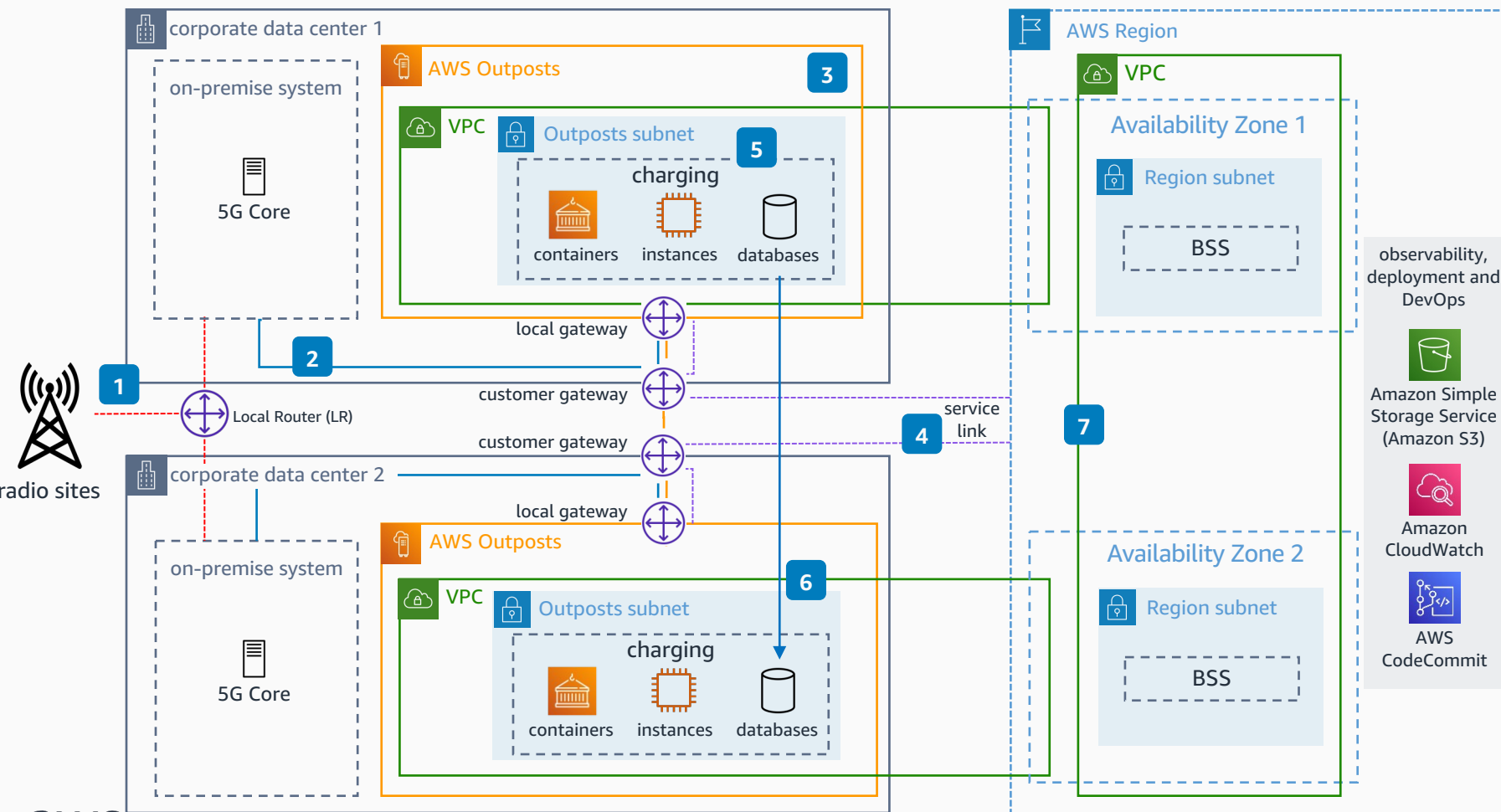


# Telecom Charging (OCS/CHF) on AWS Outposts

Deploy a fully automated, resilient, low latency, and highly available Telecom Online Charging System (OCS) / Charging Function (CHF) on AWS Outposts to run in the country of (or close to) the operator core network in cases of country data residency regulations or low latency requirements.



- 1 4G/5G network devices connect through the Radio Access Network (RAN) to the Communication Service Provider (CSP) data center.
- 2 The core network integrates with the OCS/CHF on the local network through the outpost's local gateway.
- 3 For resiliency and high availability, two logical **AWS Outposts** racks are installed in two different, physically isolated sites, and homed to different Availability Zones in the parent AWS Region.
- 4 A [service link](#) connects the outpost to the home AWS Region. The service link is used for both management of **AWS Outposts** and intra-Virtual Private Cloud (VPC) traffic between the AWS Region and **Outposts**. The service link can use the customer's existing internet connection or **AWS Direct Connect**.
- 5 Online charging can be deployed on **Amazon Elastic Kubernetes Service** (Amazon EKS) and **Amazon Elastic Compute Cloud** (Amazon EC2) instances running on **AWS Outposts**. Charging can run in active-active mode on the two AWS Outposts.
- 6 Vendor-supported databases run on **Amazon EC2** with near real-time replication to support high availability.
- 7 Applications that run on **AWS Outposts** can securely connect with other applications running in the AWS Region such as the Business Support System (BSS), and can use a broad set of services in the AWS Region such as **Amazon CloudWatch** and **AWS CodeCommit**.