

Data Center Timing and Synchronization

Learn About Data Centers

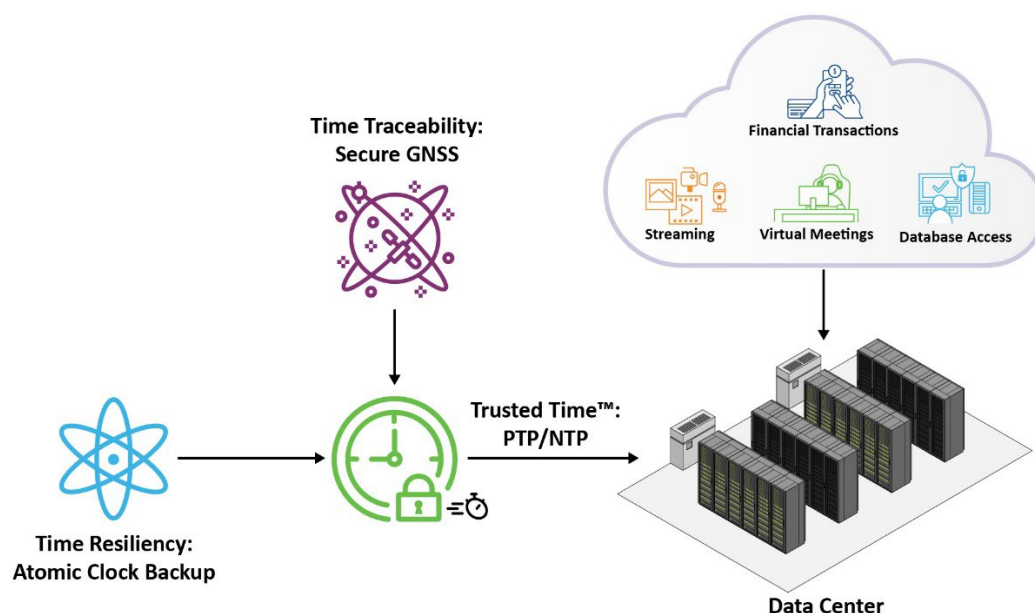
The virtual Primary Reference Time Clock is an innovative architecture that delivers precise timing for data centers with reduced reliance on Global Navigation Satellite System (GNSS)-based timing signals.



Regulatory and user requirements for data centers demand sub-microsecond sequential time stamps. Time stamping precision and accuracy is critical not only across servers in a data center, but also between data centers in a network. From hyperscale applications to colocation data center clients, we offer a full range of timing solutions, including the Virtual Primary Reference Clock (vPRTC), that ensure precise, accurate, secure and resilient time.



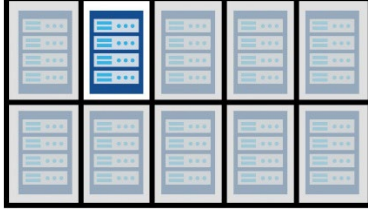
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Timing and Synchronization Solutions for All Data Center Applications

		
Hyperscale Data Center	Colocation Data Center Provider	Colocation Data Center Client
<ul style="list-style-type: none">Thousands of servers owned by one entityHosted cloud servicesClients lease capacity and services <p>Recommended Products:</p> <ul style="list-style-type: none">BlueSky™ GNSS FirewallCesium atomic clocksNTP servers and/or PTP grandmasters	<ul style="list-style-type: none">Multiple servers colocated in one structureOne entity owns structure, utilities and servicesClients place hardware in cagesClients lease infrastructure, utilities and servicesProvide time or GPS as service to clients <p>Recommended products:</p> <ul style="list-style-type: none">BlueSky GNSS FirewallCesium atomic clocksNTP servers and/or PTP grandmasters	<ul style="list-style-type: none">Clients place hardware in cagesClients lease infrastructure and servicesControl your own timing <p>Recommended Product:</p> <ul style="list-style-type: none">SyncServer® S600 time server with<ul style="list-style-type: none">Embedded 72-channel receiverEmbedded rubidiumPTP or NTP distribution