

Timing Infrastructure Implementation Checklist

Pre-Installation Phase
Site Assessment
☐ Conduct physical site survey
☐ Document existing network topology
☐ Identify equipment locations
☐ Verify power requirements
☐ Assess GNSS antenna placement options
☐ Check cable routing paths
☐ Evaluate environmental conditions
☐ Document current timing requirements
Network Readiness
☐ Verify switch PTP/timing support
□ Verify switch PTP/timing support□ Confirm network capacity
□ Confirm network capacity
□ Confirm network capacity □ Document VLAN configurations
 □ Confirm network capacity □ Document VLAN configurations □ Check QoS settings
 □ Confirm network capacity □ Document VLAN configurations □ Check QoS settings □ Verify cable specifications
 □ Confirm network capacity □ Document VLAN configurations □ Check QoS settings □ Verify cable specifications □ Confirm redundant paths

Hardware Preparation



☐ Verify TimeProvider® equipment specifications
☐ Confirm rack space availability
□ Check power redundancy
☐ Prepare mounting hardware
☐ Verify antenna cables and connectors
☐ Test backup power systems
☐ Prepare network cables
☐ Document hardware inventory
Installation Phase
Physical Installation
☐ Mount TimeProvider equipment
☐ Install GNSS antenna
☐ Route antenna cables
☐ Connect network cables
☐ Establish power connections
☐ Label all connections
☐ Verify physical security
☐ Document installation photos
Network Configuration
☐ Configure IP addressing
□ Set up VLANs
☐ Configure QoS settings



\square Enable PTP on network devices
☐ Set up redundant paths
☐ Configure management access
☐ Test network connectivity
\square Document network settings
Timing Configuration
☐ Set up PTP profiles
☐ Configure NTP services
☐ Set timing parameters
☐ Configure redundancy
☐ Set up monitoring
☐ Configure alerts
☐ Test failover scenarios
\square Document timing settings
Testing Phase
Initial Testing
☐ Verify GNSS reception
☐ Check PTP operation
☐ Test NTP services
☐ Verify timing accuracy
☐ Check management access
☐ Test redundant paths



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☐ Verify monitoring systems
\square Document baseline performance
Performance Verification
☐ Measure timing accuracy
\square Check phase alignment
☐ Verify frequency stability
☐ Test holdover performance
\square Check client synchronization
☐ Verify redundancy switching
☐ Test failure scenarios
☐ Document performance metrics
Security Implementation
☐ Enable access controls
☐ Configure authentication
☐ Set up encryption
☐ Configure audit logging
☐ Test security features
☐ Verify secure access
\square Document security settings
\square Complete security checklist

Post-Installation Phase



Documentation
☐ Complete as-built drawings
☐ Update network diagrams
☐ Document configurations
☐ Create backup copies
☐ Store passwords securely
☐ Update inventory system
☐ Create maintenance schedule
☐ File test reports
Training
☐ Train operations staff
☐ Review monitoring procedures
\square Cover troubleshooting steps
☐ Explain maintenance tasks
☐ Review security policies
☐ Document training completion
☐ Provide reference materials
☐ Verify staff competency
Handover
☐ Transfer documentation
☐ Provide contact information
☐ Review support procedures
☐ Explain escalation process



☐ Confirm warranty details
☐ Schedule follow-up
☐ Get sign-off
☐ Archive project files
Ongoing Operations
Monitoring Setup
☐ Configure performance monitoring
☐ Set up alert thresholds
\square Establish reporting schedule
☐ Create dashboard views
☐ Test notification systems
☐ Verify data collection
☐ Set up trend analysis
☐ Document monitoring procedures
Maintenance Planning
☐ Schedule routine checks
☐ Plan software updates
☐ Set maintenance windows
☐ Create backup schedule
☐ Plan performance reviews
☐ Schedule security audits
☐ Document procedures



 $\hfill\square$ Assign responsibilities

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