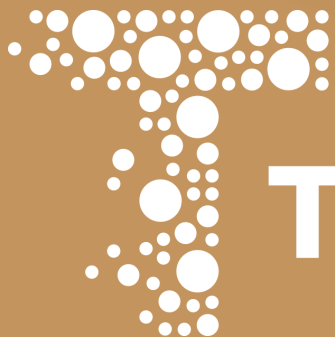


# Tower Service

Design and Construction



**TANGO**

NETWORKS



# TOWER SERVICE

Tango offers a number of essential tower design and maintenance services keeping client networks current, safe, and compliant with CSA standards and guidelines at all times.

## Tango's key Tower Engineering and Audit Services

Tower audits will typically encompass the following considerations:

- Antenna sizes and locations
- Tower loading
- Tower grounding and bonding (all elevations)
- Cable ladders and supports
- Tower lighting
- Lightning protection
- Anchor and tower foundations
- Compound, access and fencing
- Structural analysis
- PIM testing services. Tango has its own PIM testing equipment and seasoned technicians, eliminating rental delays and risk of carrier non-compliance.

Tango also conducts tower surveys using drones offering economies and efficiencies, while providing detailed client viewable video footage of the inspections findings.





# TOWER DESIGN AND CONSTRUCTION

For new tower infrastructure, Tango's personnel can assist with the initial planning, procurement and construction of new tower facilities in broadband and carrier class environments.

Key services would include:

- Compound and Site Layout
- Supply and Management of Survey and Geotechnical Services
- Preparation of Customer Specifications and Guidelines
- Procurement Support: RFP/RFQ Development as well as SOW Preparation
- Construction and Project Management
- Site Acceptance and Commissioning

## Tower Maintenance and Management

Ongoing tower maintenance and management is often overlooked but essential for maintaining CSA certification and proper documentation for collocation archives.

Tango offers a complete portfolio of services to assist our customers in the following ways:


- Routine Maintenance of Tower Facilities, as Per CSA Standards
- Historical Documentation of Tower Loading and Attachments
- Site Environmental Management for Shelters and Compounds





## Vertical Real Estate Management

**Complementing the overall design, construction and maintenance of our customers tower facilities, Tango's Real Estate Group can also assist in managing our customer assets through the following services:**

- Lease Negotiation and Renewals
  - Crown Land Applications
  - Nav Canada Applications
  - Collocation Agreements - Third Party
  - Underground And Right Of Ways (ROW)
  - Municipal, Provincial and Federal Applications and Negotiations
- 

# PROJECT AND CONSTRUCTION MANAGEMENT

**Tango's Project Management Team is aligned with the governing principles and methodologies as defined by the Project Management Institute (PMI). As such, we are governed by proven industry practices and certifications.**

**Tango currently offers Professional Project Management Services to our customers within the following Industries and markets:**

- **Carrier Broadband Initiatives - Deployment of fiber and wireless facilities to support current and future network growth**
- **Municipal Broadband Initiatives - Focusing on community growth evolution**
- **Essential Services – Health and Emergency Services - First Responders (Police, Fire, EMS)**
- **Airports - Air-Ground and Ground Operations**
- **Industrial Projects and Opportunities ( Oil and Gas, Forestry, Mining, etc)**

**Supporting these initiatives, Tango's Project Management PMO offers the following essential project services to many customers:**

- **Resources Planning**
- **Stakeholder Management**
- **Management Of Public and Private Procurement Initiatives**
- **Defining and Managing Key Project Deliverables**
- **Risk Management through proper identification and Mitigation Strategies**







- **Development of Quality Assurance and Control (QA\QC) Plan**
- **Cost Control and Management**
- **Development of Training and Asset Transfer Programs**
- **Mentor and Training Customers - In a Full Partnership Arrangement**