



SST TECHNOLOGIES

SST Technologies Pvt Ltd

Empowering Businesses with
Seamless, Secure, and Scalable IT
Infrastructure



SST TECHNOLOGIES

Smart Solutions Technologies Pty Ltd is a reputable third-party provider of IT technical support services, dedicated to offering prompt and well-managed IT support solutions across the globe, day and night. Our team of exceptionally skilled and proficient engineers is readily available 24/7 to attend to our clients' needs, providing onsite support and fixing any issues that may arise with optimal efficiency

We offer a simple single point of contact solution with 24×7 access to 6000+ IT engineers in over 150 countries around the globe. Our multivendor approach means that we can immediately match the correct skill set to our client's requirements

Company Registration & certifications



SST TECHNOLOGIES

SST is registered in:

- Australia
- United Kingdom
- United States
- India
- Malaysia
- Estonia

Upcoming Registrations:

- Austria
- United Arab Emirates

Certification:

- ISO 27001 Certified
- ISO 45001:2018 Health and Safety Management System Certified

Membership:

- Service Industry Association, USA
- D-U-N-S® Registered by Dun & Bradstreet

Insurance:

- Cyber Security Insurance
- Public Liability
- Professional Indemnity

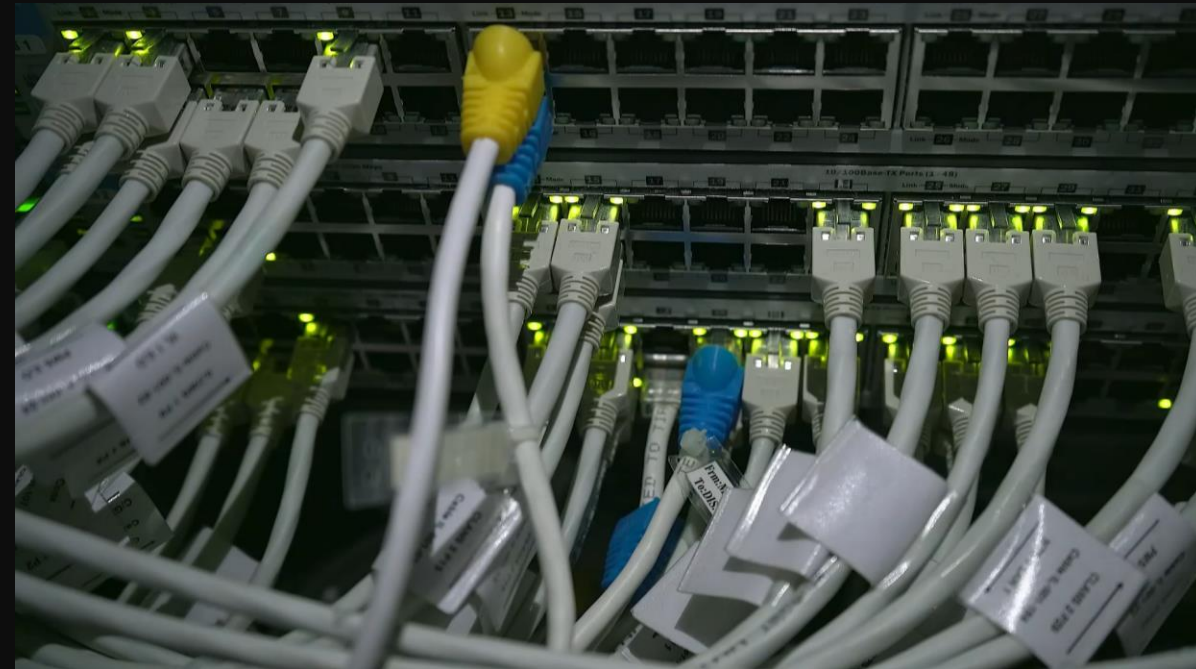




SST TECHNOLOGIES

Core services

- Data Center Solutions detailed in page 5 and on
 - 24/7 Service Desk Rollouts
 - Cloud Computing
 - Data Center Support
 - EUC Support
 - Network Support
 - IT Stocking Services
 - IT Equipment Services
 - Asset Management
 - Data Center Relocation
 - Site Relocation/ Racking Stacking/Cabling/Installation & Migration
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DATA CENTER SOLUTIONS

Intelligent Infrastructure for Mission-Critical Environments

Provides integrated **Data Center Infrastructure, Critical Power, Cooling, Monitoring, DCIM and Automation Solutions** for organizations that require high availability, operational efficiency, scalability and reliable business continuity.

Our approach combines **electrical engineering, critical infrastructure, IoT, monitoring, DCIM and AI-enabled technologies** to help customers design, build, modernize and operate reliable data center environments.

We support projects from **initial assessment and concept design through engineering, supply, installation, commissioning, integration and lifecycle support.**

OUR DATA CENTER SOLUTION PORTFOLIO

1. Data Center Design & Consultancy

- We provide end-to-end consultancy and engineering support for new data centers, existing facilities, server rooms and critical IT environments.
- **Our services include:**
 - Data center site assessment
 - Infrastructure assessment and audit
 - Capacity planning
 - Power and cooling load calculation
 - Redundancy and availability planning
 - Rack layout and capacity planning
 - Electrical single-line diagrams
 - Cooling design
 - Critical power architecture
 - Data center infrastructure BOQ
 - Technical specifications
 - Solution architecture
 - Vendor and technology evaluation
 - Expansion and modernization planning
 - Energy efficiency assessment

We help customers develop scalable infrastructure aligned with their current requirements and future growth.

OUR DATA CENTER SOLUTION PORTFOLIO

2. Critical Power Solutions

Reliable power is the foundation of every mission-critical data center.

Provides integrated critical power solutions designed to protect IT infrastructure from power interruptions, voltage disturbances and electrical instability.

Solutions Include:

- Medium Voltage / Low Voltage infrastructure
- Transformers
- LV Switchgear
- Main Distribution Boards
- Automatic Transfer Switches (ATS)
- Static Transfer Switches (STS)
- Power Distribution Units (PDU)
- Remote Power Panels
- Busbar systems
- Rack PDUs
- Energy meters
- Power monitoring
- Power quality monitoring
- Generator integration
- Electrical protection systems
- Earthing and grounding
- Surge protection

Power Architecture

Our solutions can be designed around different redundancy architectures including:

- N
- N+1
- 2N
- 2N+1

The architecture is selected according to the required availability, criticality, budget and future expansion requirements.

OUR DATA CENTER SOLUTION PORTFOLIO

3. Large UPS Solutions

Provides **large-scale UPS and modular UPS solutions** for data centers, telecom facilities, financial institutions, enterprise IT environments and other mission-critical applications.

- **UPS Solutions**

- Modular UPS
- Large-scale three-phase UPS
- Online double-conversion UPS
- Transformer-based UPS
- Transformerless UPS
- Parallel UPS systems
- Redundant UPS architecture
- Centralized UPS systems
- Distributed UPS architecture
- UPS bypass systems
- UPS monitoring and integration

UPS Capacity

Solutions can be configured from small critical loads through to **large multi-hundred-kVA and multi-MVA data center power requirements**, depending on project requirements.

UPS Engineering

Our engineering services include:

- UPS capacity calculation
- Load assessment
- Future growth calculation
- Battery autonomy calculation
- UPS redundancy planning
- Battery sizing
- Bypass configuration
- Distribution architecture
- UPS room planning
- Installation and commissioning
- Preventive maintenance

OUR DATA CENTER SOLUTION PORTFOLIO

- **4. Battery & Energy Storage Solutions**

- Battery systems are a critical component of UPS infrastructure.
- We provide solutions for:
 - VRLA batteries
 - AGM batteries
 - Lithium-ion batteries
 - Battery racks
 - Battery cabinets
 - Battery monitoring
 - Battery management systems
 - Battery autonomy assessment
 - Battery replacement projects
 - Battery health monitoring
 - Energy storage integration

Battery Engineering

Our battery engineering services include:

- DC load calculation
- Backup-time calculation
- Battery sizing
- Battery rack sizing
- Battery room assessment
- Battery replacement planning
- Battery lifecycle assessment
- Battery monitoring integration

OUR DATA CENTER SOLUTION PORTFOLIO

5. Precision Cooling Solutions

Data center equipment requires precise control of temperature, humidity and airflow. Provides precision cooling solutions designed specifically for mission-critical IT environments.

• **Cooling Solutions**

- Precision Air Conditioning
- CRAC systems
- CRAH systems
- DX cooling
- Chilled-water cooling
- In-row cooling
- Close-coupled cooling
- High-density cooling
- Rack-level cooling
- Hot aisle containment
- Cold aisle containment
- Free cooling solutions
- Cooling monitoring
- Environmental sensors

Cooling Engineering

We support:

- Cooling load calculations
- Heat-load assessment
- Airflow analysis
- Rack heat-density assessment
- Cooling capacity planning
- Redundant cooling design
- CRAH/CRAC selection
- Containment planning
- Energy efficiency assessment
- Cooling optimization

OUR DATA CENTER SOLUTION PORTFOLIO

6. Data Center Racks & Physical Infrastructure

We provide complete physical infrastructure solutions for IT and network environments.

Rack Solutions

- Server racks
- Network racks
- Open racks
- Battery racks
- Custom battery racks
- High-density racks
- Seismic racks
- Outdoor cabinets
- Telecom cabinets

Rack Infrastructure

- Rack PDUs
- Intelligent PDUs
- Cable management
- Vertical cable managers
- Horizontal cable managers
- Fiber management
- Patch panels
- Rack accessories
- Blank panels
- Shelves
- KVM systems

Containment

- Cold aisle containment
- Hot aisle containment
- Rack-based containment
- Customized airflow management

OUR DATA CENTER SOLUTION PORTFOLIO

7. DCIM – Data Center Infrastructure Management

Our DCIM solutions provide centralized visibility and management of critical data center infrastructure.

A DCIM platform can bring information from multiple infrastructure systems into a unified operational environment.

DCIM Monitoring

We can monitor:

Power

- Utility supply
- Generators
- Transformers
- Switchgear
- UPS
- PDU
- Energy meters
- Power quality

Cooling

- CRAC
- CRAH
- Chillers
- Pumps
- Cooling temperature
- Supply/return temperature
- Cooling alarms

Environment

- Temperature
- Humidity
- Water leakage
- Smoke
- Differential pressure
- Door status

IT Infrastructure

- Server racks
- Rack temperature
- Rack power
- Network equipment
- Capacity utilization

Security

- Access control
- Door status
- CCTV integration
- Security alarms

DCIM Capabilities

- Real-time monitoring
- Centralized dashboard
- Alarm management
- Event management
- Asset management
- Capacity management
- Energy management
- Environmental monitoring
- Historical trends
- Reports
- Notifications
- Remote monitoring
- Multi-site monitoring
- Preventive maintenance support¹²

OUR DATA CENTER SOLUTION PORTFOLIO

8. BMS / EMS / DCIM Integration

Can integrate different infrastructure systems into a centralized monitoring environment.

Possible Integration

UPS → DCIM

PDU → DCIM

CRAC/CRAH → DCIM

Generator → DCIM

Energy Meter → DCIM

Temperature/Humidity Sensors → DCIM

Water Leak Detection → DCIM

BMS → DCIM

EMS → DCIM

IoT Sensors → DCIM

Integration can utilize industry-standard communication protocols and available manufacturer APIs/SDKs, subject to equipment capability.

Communication Protocols

Typical integration technologies include:

- SNMP
- Modbus TCP/IP
- Modbus RTU
- BACnet
- REST API
- MQTT
- OPC
- Manufacturer APIs / SDKs

OUR DATA CENTER SOLUTION PORTFOLIO

9. IoT & Environmental Monitoring

Our IoT monitoring solutions provide real-time visibility of environmental and infrastructure conditions.

- **Sensors**

- Temperature sensors
- Humidity sensors
- Water leak sensors
- Smoke sensors
- Door sensors
- Differential pressure sensors
- Power meters
- Energy meters
- Current sensors
- Voltage sensors
- Battery sensors
- Sensor data can be integrated into dashboards, monitoring platforms and DCIM environments.

OUR DATA CENTER SOLUTION PORTFOLIO

10. AI-Powered Data Center Monitoring

Extends traditional infrastructure monitoring with AI-enabled analytics.

- **AI Capabilities**

- Predictive maintenance
- Abnormal-condition detection
- Energy consumption analysis
- Cooling optimization
- UPS performance analysis
- Battery health analytics
- Capacity forecasting
- Alarm correlation
- Anomaly detection
- Equipment performance analysis
- Intelligent reporting
- Instead of simply showing an alarm, an intelligent monitoring platform can help operations teams understand:
 - **What happened → Why it happened → What equipment is affected → What action should be taken.**

OUR DATA CENTER SOLUTION PORTFOLIO

11. Data Center Energy Management

Energy efficiency is becoming increasingly important for modern data centers.

Our energy management solutions help customers monitor and optimize:

- IT energy consumption
- Cooling energy
- UPS efficiency
- PUE
- Rack-level power
- Facility power
- Peak demand
- Energy trends

Energy Analytics

Dashboards can provide:

- Real-time consumption
- Daily consumption
- Monthly consumption
- Energy cost analysis
- Equipment efficiency
- PUE monitoring
- Capacity utilization
- Energy-saving opportunities

OUR DATA CENTER SOLUTION PORTFOLIO

- **12. Fire Protection & Safety**
- We provide infrastructure integration and engineering support for critical facility protection systems.
- **Solutions**
- Fire detection
- Early smoke detection
- VESDA
- Clean-agent fire suppression
- Emergency alarms
- Water leak detection
- Environmental monitoring
- Access control integration
- Fire protection solutions are designed according to applicable project standards, regulations and authority requirements.

OUR DATA CENTER SOLUTION PORTFOLIO

13. Data Center Security

Physical security is an important component of mission-critical infrastructure.

- Solutions include:
- Access control
- Biometric access
- Door monitoring
- CCTV integration
- Visitor management
- Rack-level security
- Security alarms
- Environmental alarms
- These systems can be integrated with centralized monitoring platforms where supported.

OUR DATA CENTER SOLUTION PORTFOLIO

14. Edge Data Centers & Micro Data Centers

Also supports compact and distributed computing environments.

- **Solutions**

- Micro data centers
- Edge data centers
- Smart racks
- Outdoor data center cabinets
- Telecom edge infrastructure
- Integrated UPS and battery systems
- Precision cooling
- Fire protection
- Environmental monitoring
- Remote DCIM monitoring
- These solutions are suitable for telecom, banking, enterprise, industrial, retail and remote-site applications.

OUR DATA CENTER SOLUTION PORTFOLIO

15. Data Center Modernization

We help organizations upgrade existing facilities without unnecessarily replacing the complete infrastructure.

Modernization Services

- Existing infrastructure assessment
- UPS replacement
- Battery replacement
- Cooling modernization
- Rack modernization
- Power distribution upgrade
- DCIM implementation
- Environmental monitoring
- Energy monitoring
- Network infrastructure upgrade
- Capacity expansion

Redundancy improvement

OUR DATA CENTER SOLUTION PORTFOLIO

16. Data Center Lifecycle Services

Our support extends beyond installation.

Services

- Preventive maintenance
- Corrective maintenance
- UPS maintenance
- Battery maintenance
- Cooling maintenance
- Electrical inspection
- Thermal inspection
- Power quality assessment
- Data center health check
- DCIM support
- Remote monitoring
- Asset management
- Capacity assessment
- Annual maintenance contracts
- Emergency support

Integration and Deployment Services

Optimize IT Operations with Professional Integration and Deployment Services



SST TECHNOLOGIES



**Set-Up
& Implement**



Maintain



Dispose



Comprehensive Deployment

- Comprehensive Deployment
- Secure migration from current operating system to Windows 10
- Deployment of Migration Kits
- Post migration support via floor walking services.
- Secure Data Back-Ups, Imaging and Data Restoration



System Integration

- Implement hardware and software seamlessly into existing IT infrastructure for a streamlined transition.
- Achieve efficient communication across devices and applications to enhance productivity and minimize downtime.



Customized Solutions

- Develop deployment strategies tailored to meet organization's specific needs and objectives.

End User Support

Empowering workforce with exceptional IT support



SST TECHNOLOGIES



Set-Up
& Implement



Maintain



Dispose



24/7 Helpdesk Support

Real-time monitoring and assistance to resolve IT issues quickly and minimize disruption.



Remote & Onsite Support

Flexible support options tailored to operational needs.

- **Dedicated/ Full time** - Full-time IT professionals stationed at the site
- **Shared Service model** - IT resources shared across multiple locations
- **On call support** - Support provided on a per-call or per-hour basis
- **Depot support** – Centralized service center for users to ship their faulty device for repair and fix
- **IT Kiosk** - Physical, self-service station or booth equipped with hardware and software to support walk-in users.



User Training

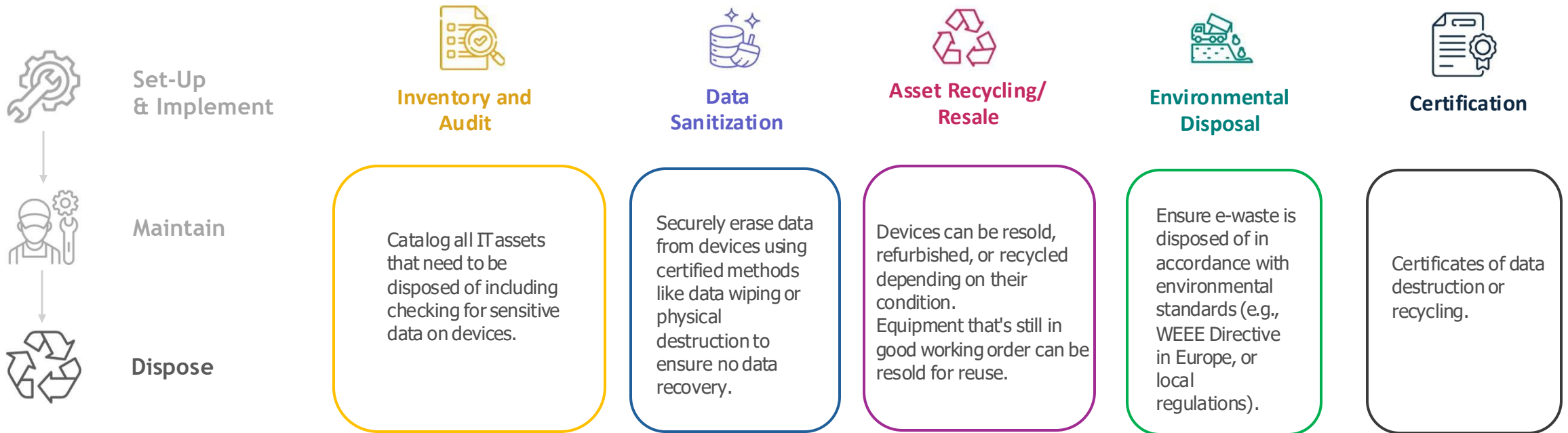
Empower users with IT knowledge and tools for smoother operations.

Reboot Reclamation

Sustainably and securely manage end-of-life IT equipment



SST TECHNOLOGIES





SST TECHNOLOGIES

Hardware Lift & Shift

Relocate Rack and Servers with precision and minimal downtime



Assessment and Planning

- **Inventory:** Identify all hardware and IT assets that need to be moved.
- **Compatibility Check:** Ensure the hardware is compatible with the new location (e.g., space in the rack, power requirement etc).



Pre-Migration Preparation

- **Decommissioning:** Properly shut down systems and disconnect cables to prepare the hardware for transport.
- **Labeling and Documentation:** Label each hardware component to avoid confusion during re-installation
- and ensure proper tracking.



Physical Move

- **Packaging and Transport:** Carefully package the hardware to prevent damage during transit. Specialized transportation may be required for sensitive equipment.



Re-installation

- **Setup:** Reinstall the hardware at the new location, reconnecting all necessary components C cables.
- **Power-Up:** Ensure the hardware powers up correctly, and perform basic checks on the systems.



Post-Migration Testing

- **Network Connectivity:** Run diagnostic tests and ensure that all devices are correctly integrated into the network and can communicate with other systems.



SST TECHNOLOGIES

IT Asset Hub

Streamline the process of managing IT hardware logistics, reduce overhead costs associated with physical storage, and provide greater flexibility to hardware deployment.



Storage and Warehousing

Safe and secure storage of IT hardware, including servers, networking equipment, and peripherals.



Inventory Management

Monitoring of stock levels, tracking of assets, and regular updates on the status of the equipment.



Staging and Configuration

Staging, configuration and testing IT hardware before it is shipped to its destination.



Logistics and Distribution

Coordination of shipping, receiving, and delivering hardware to the required destination, including shipping to multiple locations.



Asset Tracking and Reporting

Real-time updates on the location, condition, and usage of hardware, helping businesses optimize their IT resources.



Security and Compliance

Secure facilities with physical and cyber security measures, including access controls, surveillance, and compliance with industry standards.



SST TECHNOLOGIES

Connect Sphere Survey

Analyze, design, and optimize wireless networks to ensure proper signal coverage, capacity, and performance in the network



Predictive Survey: Uses simulation software to predict how wireless signals will behave in a given area based on floor plans and other data.



Passive Survey: Measures signal strength and quality without generating traffic. Typically used for Wi-Fi network analysis.



Active Survey: Involves generating traffic to analyze how the network performs under real-world conditions.

Coverage



SST TECHNOLOGIES

APAC Region:

- Australia
- Bangladesh
- Cambodia
- China
- Hong Kong
- India
- Indonesia
- Japan
- Malaysia
- Maldives
- Nepal
- New Zealand
- Pakistan
- Philippines
- Singapore
- South Korea
- Sri Lanka
- Taiwan
- Thailand
- Vietnam



EMEA & GULF region:

- Austria
- Belgium
- Denmark
- Egypt
- Finland
- France
- Germany
- Ghana
- Greece
- Hungary
- Ireland
- Italy
- Kuwait
- Luxembourg
- Netherlands
- Nigeria

- Norway
- Poland
- Portugal
- Romania
- Russia
- South Africa
- Spain
- Sudan
- Sweden
- Switzerland
- Turkey
- United Kingdom
- Bahrain
- Kuwait
- Oman
- Qatar
- Saudi Arabia
- United Arab Emirates



On-going Projects



SST TECHNOLOGIES





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Thanking You

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