

## TL 9000 Product Categories R4.5 vs. Likely NACE Codes

NOTE: The following list is provided as an aid in selecting NACE codes. It is not an exhaustive list of all possible NACE codes for a given TL 9000 Product Category. The actual NACE code used by the organization should be selected after consultation between the organization and its certification body auditor.

PRODUCT CATEGORY	NACE Code	IAF/EA #
<b>1 SWITCHING</b>		
1.1 Circuit Switch		
<b>1.2 Packet Switch</b>		
1.2.1 Legacy Packet Products	DL 32.2 Telephony mfg.	19
1.2.2 Access Multi-Service	and/or	
1.2.3 Media Gateways	K 72.2 Software supply	33
1.2.7 Application Servers		
1.2.8 Service and Network Controller		
<b>1.2.9 Routers</b>		
1.2.9.1 Core		
1.2.9.2 Edge		
1.2.9.3 Access		
<b>2 SIGNALING AND NETWORK CONTROL</b>		
2.1 Service Control (SCP)	DL 32.2 Telephony mfg.	19
2.2 Common Channel Signaling (STP)	and/or	
2.3 Home Location Register (HLR)	K 72.2 Software supply	33
2.4 Service Logic (SL)		
2.5 Protocol Server		
2.6 Network Access Control		
2.7 Network Security		
<b>3 TRANSMISSION</b>		
<b>3.1 Transmission Media and Structure</b>		
<b>3.1.1 Transmission Medium</b>		
<b>3.1.1.1 Metallic Products</b>		
3.1.1.1.1 Metallic Conductor Cable	DL 31.3 Wire & cable mfg.	19
3.1.1.1.2 Metallic Conductors	DL 31.2 Electricity distribution and control apparatus mfg.	19
<b>3.1.1.2 Optical Fiber Products</b>		
3.1.1.2.1 Optical Fiber	DL 33.4 Optical instruments and photographic equipment mfg.	19
3.1.1.2.2 Optical Connectors		
<b>3.1.1.3 Transmission Components</b>		
3.1.1.3.1 Active Sub-systems	DL 32.2 Telephony mfg.	19
3.1.1.3.2 Passive Optical Sub-systems	DL 33.4 Optical instruments and photographic equipment mfg.	19
3.1.1.3.3 Ancillary Sub-systems	DL 32.2 Telephony mfg.	19
<b>3.1.1.3.4 Fixed Antenna Systems</b>		
3.1.1.3.4.1 Radio Antenna Systems	DL 32.2 Telephony mfg.	19
3.1.1.3.4.2 Satellite Antenna Systems		
3.1.1.3.4.3 Optical Antenna Systems		
<b>3.1.2 Physical Structures</b>		
3.1.2.1 Enclosures	DJ 28.1 Structural metal product mfg.	17
3.1.2.2 Support Structures		
3.1.2.3 Conduits		

PRODUCT CATEGORY	NACE Code	IAF/EA #
<p><b>3.2 Transport Equipment</b></p> <p><b>3.2.1 Cross Connect Systems</b></p> <p>3.2.1.1 Manual Cross Connect Systems</p> <p>3.2.1.2 Digital Cross Connect Systems</p> <p>3.2.1.3 Optical Cross Connect Systems</p> <p><b>3.2.2 Carrier Systems / Multiplex</b></p> <p><b>3.2.2.1 Interoffice / Long Haul</b></p> <p>3.2.2.1.1 Metallic Carrier System</p> <p><b>3.2.2.1.2 Optical Carrier System</b></p> <p>3.2.2.1.2.1 SONET / SDH Transport System</p> <p>3.2.2.1.2.2 WDM / DWDM / Optical Amplification Products</p> <p>3.2.2.1.2.3 Reconfigurable Optical Add-Drop Multiplexer (ROADM)</p> <p>3.2.2.1.3 Microwave</p> <p>3.2.2.2 Loop Carrier</p> <p>3.2.3 Line Terminating Equipment / Distributing Frames</p> <p><b>3.2.4 Digital Subscriber Line (DSL)</b></p> <p>3.2.4.1 Legacy</p> <p>3.2.4.2 Symmetric</p> <p>3.2.4.3 Asymmetric</p> <p>3.2.5 Fiber to the User</p> <p><b>3.2.6 Video Transmission</b></p> <p>3.2.6.1 Cable Modem Termination Equipment</p> <p>3.2.6.2 Analog Video Transmission Equipment</p> <p>3.2.6.3 Digital Video Transmission Equipment</p> <p><b>3.3 Wireless Transmission</b></p> <p>3.3.1 Base Station Equipment</p> <p><b>3.3.2 Base Transceiver System (BTS)</b></p> <p>3.3.2.1 Basic</p> <p>3.3.2.2 Advanced</p> <p>3.3.2.3 4G</p> <p>3.3.3 Pilot Beacon Unit (PBU)</p> <p>3.3.4 WLAN Base Station Equipment</p> <p><b>3.4 Ancillary Products</b></p> <p>3.4.1 Location Services</p> <p>3.4.2 Lawful Intercept</p>	<p>DL 32.2 Telephony mfg. and/or</p> <p>K 72.2 Software supply</p>	<p>19</p> <p>33</p>
<b>4 OPERATIONS &amp; MAINTENANCE</b>		
<p><b>4.1 Test Systems</b></p> <p>4.1.1 Test Access Equipment</p> <p>4.1.2 Test Equipment Embedded</p> <p>4.1.3 Test Support Software</p>	<p>DL 33.2 Mfg. Of Instruments and appliances for measuring, checking, testing, etc.</p> <p>K 72.2 Software supply</p>	<p>19</p> <p>33</p>
<p><b>4.2 Operational Support Systems</b></p> <p>4.2.1 On Line Critical</p> <p>4.2.2 On Line Non-Critical</p> <p>4.2.3 Off Line</p> <p>4.3 Ancillary Operations and Maintenance</p>	<p>DL 32.2 Telephony mfg. and/or</p> <p>K 72.2 Software supply</p>	<p>19</p> <p>33</p>
<b>5 COMMON SYSTEMS</b>		
<p>5.1 Synchronization</p>	<p>DL 32.2 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus and/or</p> <p>K 72.2 Software supply</p>	<p>19</p> <p>33</p>
<p>5.2 General Purpose Computers</p>	<p>DL 31.0 Mfg. Of computers</p>	<p>19</p>
<p>5.3 Power Systems</p>	<p>DL 31.2 Mfg. Of electricity distribution and control apparatus and/or</p>	<p>19</p>

PRODUCT CATEGORY	NACE Code	IAF/EA #
	DL 31.4 Mfg. Of accumulators, primary cells and primary batteries	
5.4 Data Storage Systems	DL 30.0 Mfg. Of computers and/or K 72.2 Software supply	19 33
<b>6 CUSTOMER PREMISES</b>		
6.1 Enhanced Services	DL 30.0 Mfg. Of computers and/or K 72.2 Software supply	19 33
<b>6.2 Terminal Equipment</b> <b>6.2.1 Voice Terminals</b> 6.2.1.1 Wireless Telephone Sets <b>6.2.1.2 Wireless Subscriber User Terminals</b> 6.2.1.2.1 Simple 6.2.1.2.2 Complex 6.2.1.2.3 Radios	DL 32.3 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus	19
3.2.1.2.4 Wireless Terminal Software Applications	K 72.2 Software supply	33
6.2.2 Fax Equipment <b>6.2.3 Data Modems</b> 6.2.3.1 Wired Modems 6.2.3.2 Wireless Modems 6.2.4 Digital Data Service Units 6.2.5 Passive Optical Network Termination Units 6.2.6 Set Top Box 6.2.7 CPE Router 6.2.8 Home Base Station	DL 32.3 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus	19
6.3 Automatic Call Distribution (ACD) Systems	DL 30.0 Mfg. Of computers and/or K 72.2 Software supply	19 33
6.4 Private Branch Exchanges (PBX)	DL 32.2 Telephony mfg. and/or K 72.2 Software supply	19 33
6.5 Small Communications Systems (Key Telephone Systems)	DL 32.2 Telephony mfg. DL 32.3 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus	19
6.6 Internet Security Devices	DL 32.2 Telephony mfg. and/or K 72.2 Software supply	19 33
<b>7 SERVICE PRODUCTS</b>		
<b>7.1 Network Installation and Provisioning</b> 7.1.1 Installation	F 45.2 Building of complete construction or parts thereof; civil engineering or the NACE code of the product being installed	28
7.1.2 Provisioning	I 64.2 Telecommunications	31
7.1.3 Construction Services	F 45.2 Building of complete construction or parts thereof; civil engineering	28
<b>7.2 Engineering Services</b> <b>7.2.1 Network Engineering Services</b> 7.2.1.1 Fixed Network 7.2.1.2 Mobile Network	K 74.2 Architectural and engineering activities and related technical consultancy	34
7.2.2 Software Development Services 7.2.3 Hardware Development Services	K 74.8 Other business activities	35

7.2.4 Telecom Network Integration	I 64.2 Telecommunications DL 32.2 Telephony mfg.	31
7.2.5 Metrology and Calibration 7.2.6 Telecom Test Laboratory	K 74.3 Technical testing and analysis	35
<b>7.3 Maintenance Services</b> 7.3.1 Network Field Maintenance 7.3.2 Network Operations Center 7.3.3 Network Performance Services	K 74.8 Other business activities	35
7.4 Repair Services	Same NACE Code as manufacturer of hardware or systems being repaired	19
7.5 Customer Support Center <b>7.6 Purchasing Services</b> 7.6.1 Procurement Services 7.6.2 Sourcing/Purchasing Services	K 74.8 Other business activities	35
<b>7.7 Manufacturing Services</b> 7.7.1 Small Assemblies 7.7.2 Printed Circuit Board Assembly 7.7.3 Cable Assembly 7.7.4 Electromechanical Assembly	DL 32.3 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus	19
<b>7.7.5 Logistical Services</b> 7.7.5.1 Logistical Services, Third Party 7.7.5.2 Logistical Services, Internal 7.7.5.3 Reverse Logistics	K 74.8 Other business activities	35
<b>7.8 Business Services</b> 7.8.1 Financial Services 7.8.2 Contract/Temporary Staffing 7.8.3 Training 7.8.4 Fleet Logistics 7.8.5 Facility Management 7.9 General Support Services 7.10 e-Business Consulting 7.11 Customer Assistance	K 74.8 Other business activities	35
<b>8 Components and Subassemblies</b>		
<b>8.1 Components</b> 8.1.1 Discrete Semiconductors 8.1.2 Integrated Circuits 8.1.3 Passive Components 8.1.4 Electromechanical	DL 32.1 Mfg. of electronic valves and tubes and other electronic components	19
<b>8.2 Electronic Assemblies</b> 8.2.1 Simple 8.2.2 Medium Complexity 8.2.3 High Complexity 8.2.4 Very High Complexity 8.3 Cable Assemblies 8.4 Electromechanical Assemblies	DL 32.2 Telephony mfg. DL 32.3 Mfg. Of television and radio receivers, sound or video recording or reproducing apparatus	19
<b>8.5 Optical Fiber and Devices</b> 8.5.1 Optical Fiber <b>8.5.2 Optical Devices</b> 8.5.2.1 Opto-electronic Devices 8.5.2.2 Passive Optical Devices 8.5.2.3 Optical Subassemblies	DL 33.4 Optical instruments and photographic equipment mfg.	19
<b>8.6 Software Components and Tools</b> 8.6.1 Software Components 8.6.2 Software Development Tools	K 72.2 Software supply	33
<b>9 End-Customer Services</b>		
9.1 Voice 9.2 Wireless 9.3 Transport Networks	I 64.2 Telecommunications	31

9.4 Private Networks		
9.5 Internet Access		
9.6 e-Business & Content Hosting		
9.7 Bulk Transport		
9.7.1 Infrastructure		
9.7.2 Wholesale		
9.8 Video Broadcast		

Accredited certification bodies require approval from their accreditation body for the scope category (NACE Code) associated with the product category of the supplier being assessed for TL 9000 conformance; these are summarized as follows:

<b>NACE Code</b>	<b>TL 9000 Registration Specialty Options</b>
DJ 28.1	TL 9000-H
DL 30.0	TL 9000-H
DL 31.2	TL 9000-H
DL 31.3	TL 9000-H
DL 31.4	TL 9000-H
DL 32.2	TL 9000-H TL 9000-S
DL 32.3	TL 9000-H TL 9000-S
DL 33.2	TL 9000-H TL 9000-S
DL 33.4	TL 9000-H
F 45.2	TL 9000-V
I 64.2	TL 9000-V
K 72.2	TL 9000-S
K 74.2	TL 9000-V
K 74.8	TL 9000-V

Note: Does not include consideration of component level product categories.

Note: For any Hardware registration option above, if repair is also offered then the TL 9000-V option could also apply.

Note: Product Categories listed in **Red** will be used for possible Data Aggregation only. Measurements must be submitted in the lowest Product Category listing.