

## TL 9000 Product Categories R5.4 vs. Likely NACE Rev 1 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		
<b>1.2.2 Access Multi-Service</b>	DL 32.2 Telephony mfg.	19
1.2.2.1 Wireline	and/or	
1.2.2.2 Wireless	K 72.2 Software supply	33
1.2.4 Carrier and Access Ethernet Switches		
1.2.3 Media Gateways		
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)		
2.2 Common Channel Signaling (STP)	DL 32.2 Telephony mfg.	19
2.3 Home Location Register (HLR)	and/or	
2.4 Service Logic (SL)	K 72.2 Software supply	33
2.5 Protocol Server		
2.6 Network Access Control		
2.7 Network Security		
2.8 Mobility Management Entity		
<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 Optical 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>3.2.4.4 IP</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>3.2.6.4 Ad Servers</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>3.3.2.4 Small Cell Radios</p> <p>3.3.2.5 Combined</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 K 72.2 Software supply</p>	<p>19</p> <p>33</p>
<b>4 OPERATIONS &amp; MAINTENANCE</b>		
<p>4.1 Test Systems</p>	<p>DL 33.2 Mfg. of Instruments and appliances for measuring, checking, testing, etc. and/or 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 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 K 72.2 Software supply</p>	<p>19</p> <p>33</p>

<b>PRODUCT CATEGORY</b>	<b>NACE Code</b>	<b>IAF/EA #</b>
5.2 General Purpose Computers	DL 30.0 Mfg. of computers	19
5.3 Power Systems	DL 31.2 Mfg. of electricity distribution and control apparatus and/or DL 31.4 Mfg. of accumulators, primary cells and primary batteries	19
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 Feature Phone 6.2.1.2.2 Smart Phone 6.2.1.2.3 Radios	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19
6.2.1.2.4 Wireless Terminal Software Applications	K 72.2 Software supply	33
6.2.1.2.5 Tablets	DL 30.0 Manufacture of office machinery and computers	19
6.2.1.2.6 External Power Systems	DL 31.6 Manufacture of electrical equipment n.e.c.	
<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 <b>6.2.6 Television Interfaces</b> 6.2.6.1 Set Top Box 6.2.6.2 TV Stick 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
6.7 Sensors and Internet Enabled Devices	DL 31.6 Manufacture of electrical equipment n.e.c.	
6.8 Remote Terminal	DL 32.2 Telephony mfg.	
<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	28

	code of the product being installed			
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		
7.1.4 Tower Construction	F 45.2 Building of complete construction or parts thereof; civil engineering	28		
7.1.5 Installation and Engineering Audit	K 74.3 Technical testing and analysis			
<b>7.2 Engineering Services</b>				
<b>7.2.1 Network Engineering Services</b>				
7.2.1.1 Fixed Network	K 74.2 Architectural and engineering activities and related technical consultancy	34		
7.2.1.2 Mobile Network				
7.2.2 Software Development Services	K 74.8 Other business activities	35		
7.2.3 Hardware Development Services				
7.2.4 Telecom Network Integration	I 64.2 Telecommunications DL 32.2 Telephony mfg.	31		
7.2.5 Metrology and Calibration	K 74.3 Technical testing and analysis	35		
7.2.6 Telecom Test Laboratory				
<b>7.3 Maintenance Services</b>				
7.3.1 Network Field Maintenance	K 74.8 Other business activities	35		
7.3.2 Network Operations Center				
7.3.3 Network Performance Services				
7.4 Repair Services	Same NACE Code as manufacturer of hardware or systems being repaired	19		
<b>7.5 Customer Support Center</b>				
7.5.1 Technical Assistance and Customer Support Centers	K 74.8 Other business activities	35		
7.5.2 End-customer Support Services				
<b>7.6 Purchasing Services</b>				
7.6.1 Procurement Services	DL 32.3 Mfg. of television and radio receivers, sound or video recording or reproducing apparatus	19		
7.6.2 Sourcing/Purchasing Services				
7.6.3 Communications Services Acquisition				
<b>7.7 Manufacturing Services</b>				
7.7.1 Small Assemblies	K 74.8 Other business activities	35		
7.7.2 Printed Circuit Board Assembly				
7.7.3 Cable Assembly				
7.7.4 Electromechanical Assembly				
<b>7.7.5 Logistical Services</b>				
7.7.5.1 Logistical Services, Third Party	K 74.8 Other business activities	35		
7.7.5.2 Logistical Services, Internal				
7.7.5.3 Reverse Logistics				
<b>7.8 Business Services</b>				
7.8.1 Financial Services	K 74.8 Other business activities	35		
7.8.2 Contract/Temporary Staffing				
7.8.3 Training				
7.8.4 Fleet Logistics				
7.8.5 Facility Management				
7.8.6 Project Management				
7.9 General Support Services				
7.10 e-Business Consulting				
7.11 Customer Assistance				
<b>8 Components and Subassemblies</b>				
<b>8.1 Components</b>				
8.1.1 Discrete Semiconductors	DL 32.1 Mfg. of electronic valves and tubes and other	19		
8.1.2 Integrated Circuits				

8.1.3 Passive Components 8.1.4 Electromechanical 8.1.5 Printed Circuit Boards	electronic components	
<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 9.4 Private Networks 9.5 Internet Access 9.6 e-Business & Content Hosting <b>9.7 Bulk Transport</b> 9.7.1 Infrastructure 9.7.2 Wholesale 9.8 Video Broadcast 9.9 Emergency Service Network	I 64.2 Telecommunications	31

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.