

The logo for CTG, featuring the letters 'CTG' in a bold, italicized, blue sans-serif font. A thick orange curved line starts from the right side of the 'G' and sweeps upwards and to the left, ending under the 'C'.

**CTG**

A DIVISION OF BLUE RAVEN  
SOLUTIONS

A solid orange horizontal banner with a rounded right end, containing the text 'PRODUCT LIST' in white, uppercase, sans-serif font.

**PRODUCT LIST**

## Any Part, Any Platform, We Can Help

### Consumables

Adhesives, Tapes & Sealants  
Solvents  
Composite Materials  
Shop Supplies  
Oils, Greases & Lubricants  
Paints & Coatings  
Industrial Gases  
Metal Working Fluids

### Expendables

Batteries  
Bonding Leads  
Cable Assemblies  
Connectors  
Contacts  
Fans  
Fasteners  
Filters  
Hardware  
Inductors  
Lamps/LEDs  
Placards/Decals  
Relays  
Tape

### Rotables

Actuators  
Air Regulators  
APUs  
Ballast Units  
Boroscopes  
Cargo Liners  
Cargo Nets  
Cargo Panels  
Cockpit Avionics  
Composites  
Compressors  
Disks  
Displays  
Doors  
Drive-Shafts  
Elevator Assemblies  
Engine Components  
Engines  
Evacuation Slides and Life Rafts

### ATA Chapters

Accessory Gearboxes  
Air Conditioning  
Airborn Auxiliary Power  
Auto Flight  
Central Maintenance  
System  
Communications  
Doors  
Electrical Power  
Engine Controls  
Engine Exhaust  
Engine Fuel and Control  
Engine Indicating  
Engine Oil  
Equipment/Furnishings  
Fire Protection  
Flight Controls  
Fuel  
Fuselage  
Hardware  
Helicopter Vibration  
Hydraulic Power  
Ice and Rain Protection  
Ignition  
Instruments  
Landing Gear  
Lights  
Main Rotor  
Main Rotor Drive  
Nacelles/Pylons  
Navigation  
Oxygen  
Placards and Markings  
Pneumatic  
PowerPlant  
Propellers/Propulsors  
Reciprocating Engine  
Rotors Flight Control  
Servicing  
Stabilizers  
Standard Practices/Structures  
Starting  
Tail Rotor  
Tail Rotor Drive  
Turbocharging  
Turbine/Turboprop Engine  
Vacuum  
Water/Waste

Water Injection  
Windows  
Wings

## Actives

### INTEGRATED CIRCUITS

AC to DC Switching Converters  
Analog  
Analog – Digital Converter  
Angular and Linear  
    Position Sensors  
Application Processor and SOC  
Audio Processor  
Controllers  
Converters  
CPLD  
CPUs  
Current Meters  
Current Mode PWM  
    Controller  
Current Sensor  
DC to DC Controller  
Digital – Analog Converter  
D-RAM  
DSP  
EE-PROM  
EPROM  
FPGA  
Hall Effect Sensor  
Hot Swap Controller  
Hybrid Microcircuit  
Linear Regulator  
Logic – 54+74 Series  
Low Dropout Controller  
Memory  
Microcircuits  
Microcontroller  
Microprocessors  
OLED Modules  
RMS to DC Converter  
Secondary Side PWM Controller  
Semiconductors  
Soft Switching PWM Controller  
Special Purpose Voltage Regulators  
Specialized Power ICs and Modules  
SPLD  
SRAM  
STN Graphics Modules  
TCOS Static RAM

TFT Modules  
Transducers  
Tuners  
Video Processor  
Voltage Mode PWM  
    Controller  
Voltage Supervisory

### OPTOELECTRONIC DEVICES

Dot-Matrix Display  
LED Display  
Optical Interrupter  
Optical Switch  
Opto-Coupler  
Optoelectronics  
Opto-Isolator  
Photo Interrupter  
Photo Switch  
Photo-Coupler  
Seven-Segment Display  
Sixteen-Segment Display  
Solid State Relay (SSR)

### POWER SOURCES

Battery  
Electrical Generator  
Fuel Cell  
Photo Voltaic Device  
Power Supply  
Thermo Electric Generator

### TRANSISTORS

Bipolar Junction Transistor (BJT)  
Darlington Transistor  
Field-Effect Transistor  
HEMT (High Electron Mobility  
    Transistor)  
IGBT (Insulated-Gate Bipolar  
    Transistor)  
JFET (Junction Field-Effect Transistor)  
MESFET (Metal Semiconductor FET)  
MOSFET (Metal Oxide Semiconductor  
    FET)  
Photo Darlington  
Photo Transistor  
Programmable Unijunction Transistor  
    (PUT)  
Silicon-Controlled Rectifier (SCR)

## TRANSISTORS (CONT'D)

SIT (Static Induction Transistor)  
SITH (Static Induction Thyristor)  
Sziklai Pair  
TRIAC (TRIode for Alternating Current)  
Unijunction Transistor (UJT)

## VACUUM TUBES

Cathode Ray Tube (CRT)  
Diode Tube  
Gas Discharge Tube  
Hexode  
Ignitron  
Klystron  
Magic Eye Tube  
Magnetron  
Mercury Arc Rectifier  
Nixie Tube  
Octode  
Pentagrid  
Pentode  
Photodiode  
Photomultiplier Tube  
Phototube  
Rectifier Tube  
Tetrode  
Thyratron  
Traveling-Wave Tube  
Triode  
Vacuum Fluorescent Display (VFD)  
Voltage Regulator Tube  
X-ray Tube

## Passives

### ASSEMBLIES, MODULES

Digital Voltmeters  
Display Devices  
Filter  
Liquid Crystal Display (LCD)  
Oscillator

### MAGNETIC (INDUCTIVE) DEVICES

Ferrite Beads  
Ferrite Core  
Inductor, Coil, Choke  
Magnetic Amplifier  
Motor/Generator  
Networks  
Saturable Inductor

Solenoid  
Transformer  
Variable Inductor

## CAPACITORS

Aluminum Electrolytic Capacitor  
Capacitor  
Capacitor Network  
Ceramic Capacitor  
Electrolytic Capacitor  
Film Capacitor  
Filter Capacitor  
Fixed Capacitors  
Integrated Capacitors  
Light-emitting Capacitor  
Lithium-ion Capacitor  
Mica Capacitor  
MIS Capacitor  
Motor Capacitor  
Niobium Electrolytic Capacitor  
Photoflash Capacitor  
Polymer Capacitor  
Power Capacitor  
Reservoir Capacitor  
Safety Capacitor  
Supercapacitor  
Tantalum Electrolytic Capacitor  
Trench Capacitor  
Trim Capacitor  
Tuning Capacitor  
Vacuum Capacitor  
Vacuum Variable  
Capacitor  
Variable Capacitor  
Varicap

## PROTOTYPING AIDS

Breadboard  
Wire-wrap

## RESISTORS

Fixed Value Resistor  
Humistor  
Memristor  
Photoresistor  
Potentiometer  
Power resistor  
Resistor Network

Rheostat  
Thermistor  
Trim Pot  
Variable Resistors  
Varistor

### **TRANSDUCERS, SENSORS, DETECTORS**

Accelerometer  
Audio  
Bolometer  
Flow Meter  
Hygrometer  
Inclinometer  
Linear Variable Differential  
Transformer (LVDT)  
Loudspeaker  
Magnetometer, Gauss Meter  
Motion Sensor, Vibration Sensor  
Photo resistor – Light Dependent  
Resistor (LDR)  
Resistance Temperature Detector (RTD)  
Strain Gauge  
Thermal Cutoff  
Thermal Sensors  
Thermistor  
Thermocouple  
Thermopile

### **Electromechanical**

#### **CABLE ASSEMBLIES**

Cable Accessories  
Cable Assemblies  
Cable Assemblies Coaxial  
Cable Assemblies Fiber Optic  
Cable Assemblies Flat/Ribbon  
Cable Clamps  
Cable Clips  
Cable Markers  
Cable Multi-Conductor  
Cable Single-Conductor  
Cable Ties  
Coaxial Cable  
Fiber Optic Cable  
Flat/Ribbon Cable  
Jumper Assemblies  
Metal Tubing  
Patch Cord

Power Cord  
Rods  
Test Lead  
Wiring Ducts

### **PIEZOELECTRIC DEVICES**

Ceramic Filter  
Ceramic Resonator  
Crystal  
Surface Acoustic Wave (SAW) Filters  
Ultrasonic Motor

### **PROTECTION DEVICES**

Circuit Breaker  
Circuit Breaker  
Accessories  
ESD Suppressors  
Fuse  
Fuse Accessories  
Gas Discharge Tube  
Ground-Fault Protection  
Inrush Current Limiter  
Lightning Arrester  
Metal Oxide Varistor (MOV)  
PolySwitch  
PTC Resettable Fuse  
Spark Gap  
Surge Absorber  
Surge Arrester  
Thermal Cutoff  
Thyristor Surge Protection Devices  
Transient Blocking Devices  
TVS

### **SWITCHES**

Centrifugal Switch  
Circuit Breaker  
Contact Blocks  
DIP switch  
Footswitch  
Humidistat  
Keypad  
Knife Switch  
Limit Switch  
Mercury Switch  
Micro Switch  
Pushbutton Switch  
Reed Switch

## SWITCHES (CONT'D)

Relay  
Rocker Switch  
Rotary Switch  
Slide Switch  
Switch  
Thermostat  
Thermostat Toggle Switch

## TERMINALS & CONNECTORS

Backshell  
Backshell Kits  
Connector  
Contacts  
Pin Header  
Screw Terminal  
Shrink Boot Adapters  
Socket  
Terminal  
Terminal Blocks

## Hardware

Adapters  
Anchors  
Bearings  
Bellow  
Bent Bolts  
Bolt Drivers  
Bolts  
Boxes, Enclosures  
    and Racks  
Bumpers and Leveling Elements  
Bushings  
Caps  
Cargo Hooks  
Casters  
Clamps  
Clips  
Coupling  
Crimp Terminals  
Disc, Air Piston  
Drill Bits  
Elbow  
Enclosures  
Fasteners  
Fittings  
Gasket  
Grommets and Eyelets  
Grounding Clamp

Handles  
Handles, Locks  
    and Latches  
Hardware Tools  
Hex Bolts  
Hex Keys  
Hinges  
Hose Assembly  
Hose Fittings and Accessories  
Hoses  
Inserts  
Insulator  
Jacks  
Knobs/Dials  
Latches  
Mechanical Pins  
Mil-Spec, Aerospace  
Mounting Brackets  
Mounting Hardware  
Nuts  
Orings  
Outlets  
PCB Spacers and Supports  
Pins  
Plugs  
Retaining and Snap Rings  
Rivet Guns, Rivets  
Screw Shields  
Screws  
Seal  
Shim  
Spacers  
Spiral Wraps  
Springs  
Standoffs  
Strain Reliefs  
Studs  
Terminals  
Tiedown Straps  
Toggles  
Tubing  
Valve  
Washers

## Radio Frequency

Active Filter  
Amplifier IC Development Boards and  
    Kits  
Analog Divider and Multiplier

Audio Amplifier  
CATV Amplifier  
Comparator  
Couplers/Attenuators  
Digital Attenuator  
Fiber Optic Attenuator  
Fixed Attenuator  
GPS Amplifier  
OP Amp  
Optical Add/Drop Multiplexer  
RF Amplifier Chip  
RF Amplifier Module  
RF BJT  
RF Combiner and Divider  
RF Couplers  
RF Detector  
RF Devices  
RF Diode  
RF Duplexer  
RF Filter  
RF Front End  
RF ICs Misc  
RF Isolator and Circulator  
RF Mixer  
RF Modules Misc  
RF MOSFET  
RF Multiplexers  
RF Multipliers  
RF Switch  
RF Transceiver  
RF Transformer  
SAW Filter  
Sinusoidal Output Filter  
SP Amplifier  
Telecom Transformer  
Video Amplifier  
Voltage Variable Attenuators

### **Miscellaneous**

Accelerometer  
Adhesives  
Antistatic Devices  
Carpet  
Chemicals/Adhesives  
Containers  
Epoxy Adhesives  
First Aid Kits  
Flares  
Hazmat

Label/ID Products  
Life Vests  
Lubricants/Oils  
Medical Supplies  
Outlet Strips  
Paints/Coatings/Resin  
Safety Light Curtain  
Sealants  
Sleeving  
Solder Products  
Tapes  
Upholstery

### **Telecom**

80 2.11 Wireless LAN  
80 2.15.4 LR-WPAN  
ADC  
ADPTC Voice Compression  
ADSL Driver and Receive  
Analog Front End  
Antennas  
ATM Concentrator  
ATM SAR  
ATM UNI  
Attenuators  
Audio CODEC  
Audio Indicator and Alerts  
Audio Transformer  
BAW Filters  
Bluetooth  
Board Mount EMI Enclosures  
Bridge Rectifier  
Bus Line Transceiver  
Bus Transceiver  
Caller ID  
CATV Amplifier  
Cellular Module  
Ceramic Filters  
CODEC  
Combo Wireless Module  
Common Mode Chokes  
Communication Devices  
Communication Misc  
Controller Area Network  
Crystals  
Current Regulator  
DAC  
Darlington BJT  
Data Acquisition System

## Telecom (cont'd)

Data Conversion Development Boards  
Data Conversion Misc  
DC Block  
Digital Attenuator  
Digital BJT  
Digital Potentiometer  
Direct Digital Synthesizer  
Discrete Misc  
DSL Router  
DTMF Transceiver  
ECHO Canceller  
EMI Absorbers  
EMI Filter  
EMI Gaskets  
Ethernet Controller  
Ethernet Switch  
Ethernet Transceiver  
Fiber Optic Switch  
Fiber Optic Transceivers  
Filters  
Fixed Attenuator  
Framer  
GFI (Ground Fault Interrupters)  
GP BJT  
GPS Amplifier  
GPS Receiver  
GPS Receiver  
GPS Units  
Headphones  
Headsets  
IGBT and MOSFET  
    Gate Drivers  
IGBT Chip  
IGBT Module  
Infrared Emitter  
IR Remote Receiver  
IrDA Transceiver  
ISDN Controller  
ISDN ST U Interface  
LIN Transceiver  
Logic Output Photocouplers  
Mapper  
Microphones  
Mod and Demod  
Modem Chip  
Modem Module  
Network Processor  
NFC/RFID Reader and Writer  
NFC/RFID Tag and Transponder

Oscillators  
Phase Shifter  
Photodiode  
Phototransistor  
PHY  
Prescalers  
Radios  
Sample and Hold  
SLIC  
Speakers  
Specialized Fiber Optic  
Speech Network  
Suppressors  
Switch Fabric  
Symmetric DSL  
Synchro and Resolver to Digital  
    Converters  
Telecom Ringer  
Telephone Circuits  
Test Accessories  
Transceiver  
Transmitters  
Transponders  
Up-Down Converter and Mixer  
USB Transceiver  
V2F and F2V  
Video CODEC  
Video Encoders/Decoders  
Wireless Charging

## Tooling for Supported Airframes

Adapters  
Boot Straps Kits  
Crimp Tools  
Engine Tools  
Fixtures  
Gauges  
Hand tools  
Inspection Kits  
Nose/Main Wheel  
    Nut Wrenches  
Pullers  
Slings  
Spanner Wrenches  
Test Boxes



## Federal Supply Classes

- |   |   |
|---|---|
| 1560 Airframe Structural Components   | 2820 Steam Engines, Reciprocating and Components                      |
| 1610 Aircraft Propellers  | 2825 Steam Turbines and Components                                    |
| 1615 Rotor Blades, Drive Mechanisms   | 2830 Water Turbines and Water Wheels                                  |
| 1620 Aircraft Landing Gear Components   | 2835 Gas Turbines & Jet Engines, Except                               |
| 1630 Aircraft Wheel & Brake Systems   | 2840 Gas Turbines and Jet Engines, Aircraft and Components            |
| 1640 Aircraft Control Cable Products  | 2845 Rocket Engines & Components                                      |
| 1650 Aircraft Hydraulic, Vacuum, and De-Icing System Components                         | 2850 Gasoline Rotary Engines and Components                           |
| 1660 Aircraft, Air Conditioning, Heating and Pressurizing Equipment                     | 2895 Miscellaneous Engines and Components                             |
| 1670 Parachutes: Aerial Pick-Up, Delivery, Recovery System and Cargo Tie Down Equipment | 2910 Engine Fuel System Components, Non-Aircraft-10                   |
| 1680 Miscellaneous Aircraft Accessories and Components                                  | 2915 Engine Fuel System Components, Aircraft                          |
| 1710 Aircraft Landing Equipment   | 2920 Engine Electrical System Components, Non-Aircraft-10             |
| 1720 Aircraft Launching Equipment   | 2925 Engine Electrical System Components, Aircraft                    |
| 1820 Space Vehicle Components   | 2930 Engine Cooling System Components, Non-Aircraft-10                |
| 1925 Marine & Support Equip : Special Service Vessels                                   | 2935 Engine Cooling System Components, Aircraft                       |
| 2010 Ship and Boat Propulsion Equipment   | 2940 Engine Air and Oil Filters, Strainers and Cleaners, Non-Aircraft |
| 2090 Miscellaneous Ship and Marine Equipment  | 2945 Engine Air and Oil Filters, Strainers and Cleaners, Aircraft     |
| 2510 Vehicular Cab, Body and Frame Structural Components-10                             | 2950 Turbosuperchargers   |
| 2520 Vehicular Power Transmission Co  | 2990 Miscellaneous Engine Accessories, Non-Aircraft-10                |
| 2530 Vehicular Power Transmission Components-10   | 2995 Miscellaneous Engine Accessories Aircraft                        |
| 2540 Vehicular Furniture & Accessories  | 3010 Torque Converters and Speed Changers                             |
| 2541 Weapons System Specific Vehicular Accessories                                      | 3020 Gears, Pulleys, Sprockets and Transmission Chain                 |
| 2590 Miscellaneous Vehicular Components-10  | 3030 Belting, Drive Belts, Fan Belts and Accessories                  |
| 2610 Tires and Tubes, Pneumatic, Except Aircraft  | 3040 Miscellaneous Power Transmission Equipment                       |
| 2620 Tires and Tubes, Pneumatic, Aircraft   | 3110 Bearings, Antifriction Unmounted                                 |
| 2630 Tires, Solid & Cushion   | 3120 Bearings, Plain, Unmounted                                       |
| 2640 Tire Rebuilding and Tire and Tube Repair   |   |
| 2805 Gasoline Reciprocating Engines Except Aircraft and Components                      |   |
| 2810 Gasoline Reciprocating Engines, Aircraft and Components                            |   |
| 2815 Diesel Engines and Components  |   |

## Federal Supply Classes (cont'd)

- 3130 Bearings, Mounted
- 3410 Electrical and Ultrasonic Erosion Machines
- 3419 Miscellaneous Machine Tools
- 3470 Machine Shop Sets, Kits, and Outfits
- 3670 Microcircuit, Printed Circuit Board
- 4010 Chain and Wire Rope
- 4020 Fiber Rope, Cordage, and Twine
- 4020 Fiber Rope, Cordage and Twine
- 4030 Fittings for Rope, Cable and Chain
- 4110 Refrigeration Equipment
- 4120 Air Conditioning Equipment
- 4130 Refrigeration and Air Conditioning
- 4140 Fans, Air Circulators, Blower Equipment
- 4150 Vartex Tubes and Other Related Cooling Tubes
- 4210 Fire Fighting Equipment
- 4220 Marine Lifesaving and Diving Equipment
- 4230 Decontaminating and Impregnating Equipment
- 4310 Compressors and Vacuum Pumps
- 4320 Power and Hand Pumps
- 4330 Centrifugals, Separators and Pressure and Vacuum Filters
- 4510 Plumbing Fixtures and Accessories
- 4540 Miscellaneous Plumbing, Heating and Sanitation Equipment
- 4710 Pipe and Tube
- 4720 Hose and Tubing, Flexible
- 4730 Fittings and Specialties; Hose, Pipe and Tube
- 4800 Fiber Optic Cable Assemblies
- 4801 Electrical Equip – Fiber Optic Switches
- 4805 Electrical Equip – Fiber Optic Transmitters
- 4806 Electrical Equip – Fiber Optic Receivers
- 4810 Valves, Powered
- 4820 Valves, Nonpowered
- 4910 Motor Vehicle Maintenance and Repair Shop Specialized Equipment
- 4920 Aircraft Maintenance and Repair Shop Specialized Equipment
- 4921 Torpedo Maintenance, Repair, and Checkout Specialized Equipment
- 5110 Hand Tools, Edged, Nonpowered
- 5120 Hand Tools, Nonedged, Nonpower
- 5130 Hand Tools, Power Driven
- 5305 Screws
- 5306 Bolts
- 5307 Studs
- 5310 Nuts and Washers
- 5315 Nails, Machine Keys and Pins
- 5320 Rivets
- 5325 Fastening Devices
- 5330 Packing and Gasket Materials
- 5331 O- Ring
- 5335 Metal Screening
- 5340 Hardware
- 5341 Brackets
- 5342 Hardware, Weapon System
- 5345 Disks and Stones, Abrasive
- 5350 Abrasive Materials
- 5355 Knobs and Pointers
- 5360 Coil, Flat, Leaf and Wire Springs
- 5365 Busings, Rings, Shims and Spacer
- 5410 Prefabricated and Portable Buildin
- 5411 Rigid Wall Shelters
- 5680 Miscellaneous Construction Mater
- 5805 Telephone and Telegraph Equipment
- 5810 Communications Security Equipment and Components
- 5811 Other Cryptologic Equipment and Components
- 5815 Teletype and Facsimile Equipment

- 5820 Radio and Television  
Communication Equipment,  
Except Airborne
- 5821 Radio and Television  
Communication Equipment,  
Airborne
- 5825 Radio Navigation Equipment,  
Except Airborne
- 5826 Radio Navigation Equipment,  
Airborne
- 5850 Visible and Invisible Light  
Communication Equipment
- 5855 Night Vision Equipment, Emitted  
and Reflected Radiation
- 5895 Miscellaneous Communication  
Equipment
- 5905 Resistors
- 5910 Capacitors
- 5915 Filters and Networks
- 5920 Fuses, Arrestors, Absorbers and  
Protectors
- 5925 Circuit Breakers
- 5930 Switches
- 5935 Connectors, Electrical
- 5940 Lugs, Terminals and Terminal  
Strips
- 5945 Relays and Solenoids
- 5950 Coils and Transformers
- 5955 Oscillators and Piezoelectric  
Crystals
- 5960 Electron Tubes and Associated  
Hardware
- 5961 Semiconductor Devices and  
Associated Hardware
- 5962 Microcircuits, Electronics
- 5963 Electronic Modules
- 5965 Headsets, Handsets, Microphones
- 5970 Electrical Insulators and Insulating
- 5975 Electrical Hardware and Supplies
- 5977 Electrical Contact Brushes
- 5985 Antennas, Wayguides and  
Related Equipment
- 5990 Synchros and Resolvers
- 5995 Cable, Cord and Wire Assemblies:  
Communication Equipment
- 5996 Amplifiers
- 5998 Electrical and Electrical  
Assemblies, Boards, Cards, and  
Associated
- 5999 Miscellaneous Electrical and  
Electronic Components
- 6006 Attenuators
- 6007 Filters
- 6015 Fiber Optic Cables
- 6020 Fiber Optic Cable Assemblies and  
Harnesses
- 6021 Fiber Optic Switches
- 6105 Motors, Electrical
- 6110 Electrical Control Equipment
- 6120 Transformer: Distribution and  
Power Station
- 6125 Converters, Electrical, Rotating
- 6130 Converters, Electrical, Nonrotating
- 6135 Batteries, Nonrechargeable
- 6145 Wire and Cable, Electrical
- 6210 Indoor and Outdoor Electrical  
Lighting Fixture
- 6220 Electrical Vehicular Lights and  
Fixtures
- 6230 Electric Portable and Hand  
Lighting Equipment
- 6240 Electric Lamps
- 6250 Ballast, Lamp Holders and Starters
- 6320 Shipboard Alarm and Signal  
Systems
- 6505 Misc. Medical
- 6510 Surgical Dressing Materials
- 6515 Medical and Surgical Instruments,  
Equipment and Supplies
- 6532 Hospital and Surgical Clothing and  
Related Special Purpose Items
- 6605 Navigational Instruments
- 6610 Flight Instruments
- 6615 Automatic Pilot Mechanisms and  
Airborne Gyro Components
- 6620 Engine Instruments
- 6625 Electronic Testing Instruments
- 6625 Electrical and Electronic  
Properties Measuring and Testing  
Instruments
- 6650 Optical Instruments
- 6685 Pressure, Temperature/Humidity
- 8115 Boxes, Cartons and Crates
- 8135 Packaging and Packing Bulk Mater

**BLUE RAVEN**  
SOLUTIONS



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