Precision Frequency Control and Timing Solutions

- Oven Controlled Crystal Oscillators (OCXO)
- Evacuated Miniature Crystal Oscillators (EMXO)
- Temperature Compensated Crystal Oscillators (TCXO)
- Voltage Controlled SAW Oscillators (VCSO)
- Voltage Controlled Crystal Oscillators (VCXO)
- Frequency Translators / Jitter Attenuators (FX / CS / CDR)
- SAW Filters
- Clock Oscillators (XO)
- Rubidium Standards
- Precision Timing Solutions
- High Temperature Electronics (HTE)
Vectron International offers its FCU to provide both commercial and military personnel with a comprehensive overview of the manufacturing process and basic design information for crystals, crystal oscillators (XO, VCXO, TCXO, OCXO, EMXO, VCSO), crystal filters, SAW filters, and oscillator based modules. As the focus is product training, we will use our frequency control components for training examples where necessary, though there will be no sales pitch for Vectron products. These classes have been attended by both technical and non-technical personnel with excellent results. The training session is free and you will be provided with all reference material required. Vectron covers your hotel accommodations and meals. You are responsible for transportation to the training location as well as to and from the hotel to Vectron. Sessions are held several times per year and they alternate between our Mt. Holly Springs, PA and our Hudson, NH facilities.
**About Vectron International**

*Vectron International* is a world leader in the design, manufacture and marketing of Frequency Control, Sensor, and Hybrid Product solutions using the very latest techniques in both bulk acoustic wave (BAW) and surface acoustic wave (SAW) based designs from DC to microwave frequencies. Products include crystals and crystal oscillators, frequency translators, clock and data recovery products, SAW filters and components used in telecommunications, data communications, frequency synthesizers, timing, navigation, military, aerospace and instrumentation systems.

Headquartered in Hudson, NH and with operating facilities and sales offices in North America, Europe and Asia, Vectron International is well known for its technical capabilities in both crystal oscillator and SAW filter design. The innovation and capability provided by the company reflects the trend towards higher frequencies, low cost designs and miniaturization, as well as more technologically sophisticated integrated solutions. Some of the key technologies offered include: ASIC Design, Surface Mount Technology, Ceramic Packaging, Hybrid Manufacturing to class “S”, High Frequency Fundamental (HFF) Crystal design and Space Component Capability.

Our facilities contain state of the art equipment. From discrete crystal technology highlighted by the advanced manufacture of High Frequency Fundamental and SC cut crystals...to class 100 and class 10,000 clean room facilities in the manufacture of leading edge ceramic packaged VCXOs, timing recovery and clock recovery units and SAW based filters...to state of the art testing capabilities including a dedicated facility for space component manufacture.

Vectron is both a product manufacturer and a solutions provider, leading with its unique technology but always prepared to design and engineer custom solutions where required. Vectron’s core competency combines its classic crystal and SAW technology with sophisticated integrated circuits and advanced packaging. Aside from these great innovative capabilities, Vectron strives to be extremely flexible and focused on service, responding quickly and professionally helping customers innovate, improve and grow their business.

**Vectron’s Quality Policy**

*Vectron is and will remain a world-class supplier to its global market and will apply innovative, forward-looking, ethical principles in complying with the requirements of that market. We are totally committed to recognizing the needs of our customers, and responding to those needs with superior quality, service, responsiveness and specification compliance.*

*All of our employees are dedicated to these principles with total customer satisfaction and continual improvement as their constant goal.*

**Our Commitment to Quality**

The company’s quality assurance systems are geared towards customer service, from initial customer contact through product development to delivery of product and after sales support. All Vectron International facilities have a fully documented and implemented Quality Management System certified to the international ISO 9001 standard. Continuous improvement is the foundation of Vectron International’s working philosophy which is managed through deployment of Lean manufacturing principles, 5S planning and Six Sigma initiatives.

**Commitment to Business Integrity, Social Responsibility, Environment, Health & Safety**

Emerging Electronic Industry business standards continue to focus on business integrity, social responsibility, environment and health & safety compliance. Vectron has a documented Code of Conduct that defines how company and its employees manage the business with integrity and comply with all laws and regulations dealing with employment and wage practices, labor practices, import/export trade regulations, environment and health & safety regulations.

With its key locations registered to the ISO14001 Environmental Management standard, Vectron is committed to the protection of the environment and conservation of natural resources. Vectron facilities fully comply with all required environmental regulations and laws, and review compliance on a regular basis. All of Vectron’s manufacturing operations are free of ozone-depleting substances, as well as where applicable; the products are free of any hazardous substances that are stipulated or prohibited from use by customer requirements and/or international regulations, such as RoHS and REACH.

Conservation of global resources and pollution prevention is a high priority in our operations which is exemplified by site-specific practices which may include among others, recycling and use of recycled products.
**Clock / XO Solutions**

**Crystals**
- Frequency: 32.768 kHz to 200 MHz
- Packages from HC-49 to SMD 1.6 x 1.2 mm
- Fundamental or 3rd overtone modes
- Temperature Stabilities of 10ppm to 50ppm
- Load Capacitance: 6 to 32pF

**VC-840**
- Output: LVCMOS
- Frequency: 1 to 125 MHz
- Package: 2.5 x 2 x 0.9 mm
- Power Supply: 1.8, 2.5 or 3.3V
- Enable/Disable for board test and debug
- Temperature stability: -40/85°C; ±25ppm

**VC-826**
- Output: LVPECL, LVDS
- Frequency: 20 MHz to 170 MHz
- Package: 3.2 x 2.5 x 1.05 mm
- Power Supply: 2.5 or 3.3 V
- Enable/Disable for board test and debug
- Temperature Stability: -40/85°C; ±25ppm
- Typically <200fs rms jitter, 12 kHz - 20 MHz

**VC-709**
- Output: LVPECL, LVDS, HCSL
- Frequency: 10 to 200 MHz
- Package: 5 x 7 x 1.8 mm
- Power Supply: 2.5 or 3.3 V
- Operating Temperature: -40/85°C
- Fundamental Oscillator design with low jitter performance

**PS-702**
- Output: LVPECL, LVDS
- Frequency: 150 to 1 GHz
- Package: 5 x 7.5 x 2 mm
- Power Supply: 3.3 V
- ASIC Technology for ultra-low jitter
- 0.100 ps rms typical across 12 kHz to 20 MHz
- 0.120 ps rms typical across 50 kHz to 80 MHz
- Output disable feature
- Improved temperature stability over standard SAW XO

**HT-MM900A**
- Output: CMOS
- Frequency: 1 to 137 MHz
- Packages: 5x7 / 3.2x5 / 2.5x3.2 / 2x2.5 / 1.6x2
- Power Supply: 1.8, 2.5, 2.8, 3.0 or 3.3 V
- RMS Phase Jitter: 1.5 ps rms (-40°C to 125°C)
- Low Power Consumption: 4.5 mA typical
- Capable of surviving 50,000g shock, with 70g vibration resistance and 0.1ppb/g g-sensitivity

**VV-800**
- Output: CMOS
- Frequency: 1.544 to 77.76 MHz
- Package: 3.2 x 5 x 1.2 mm
- Power Supply: 3.3 or 5.0 V
- Fundamental crystal design with low jitter performance
- Output Disable feature
- Temperature Stability: -40/85°C; ±20ppm
- Replacement to VVC4

**VV-701**
- Output: CMOS
- Frequency: 1.544 to 77.76 MHz
- Package: 5 x 7.5 x 1.8 mm
- Power Supply: 3.3 or 5.0 V
- Fundamental crystal design with low jitter performance
- Output Disable feature
- Temperature Stability: -40/85°C; ±20ppm

**VV-705**
- Output: CMOS, LVDS, PECL
- Frequency: 77.76 to 160 MHz
- Package: 5 x 7 x 1.8 mm
- Power Supply: 3.3 V
- Output disable feature
- Temperature Stability: -40/85°C; ±20ppm
- Low Phase Noise: -131dBc/Hz at 10kHz offset

**VX-501**
- Output: HCMOS, PECL, LVDS, LVPECL, Sinewave
- Frequency: 10 MHz to 1.2 GHz
- Package: 14 x 9 x 5.9 mm or height option 2.8 mm
- Power Supply: 3.3 or 5.0 V
- AT-Cut Crystal
- Surface Mount FR4 based package
- Reflow process compatible
- Low phase noise
- Tight stabilities

**VX-504**
- Output: CMOS
- Frequency: 30 to 160 MHz
- Package: 9 x 14 x 2.8 mm
- Power Supply: 3.3 or 5.0 V
- Low G-Sensitivity: 0.3ppb/g
- Temperature stability: -40°C to 85°C; ±30ppm
- Phase noise: -150dBc/Hz at 10K offset
### VCSO Solutions

#### VS-800
- **Output:** Sinewave, Balanced Sinewave
- **Frequency:** 800 MHz to 3.2 GHz
- **Package:** 5 x 3.2 x 1.8 mm³
- **Power Supply:** 3.3 V
- 6 fs-rms typical (fN = 1.56897 GHz, DIFF 1x, 12 kHz to 20 MHz)

#### VS-705
- **Output:** LVPECL or LVDS
- **Frequency:** 122.88 MHz to 1 GHz
- **Package:** 5 x 7.5 x 2.5 mm
- **Power Supply:** 2.5 or 3.3 V
- 0.100 ps-rms typical across 12 kHz to 20 MHz
- Improved temperature stability over standard VCSO

#### VS-709
- **Output:** LVPECL, LVDS
- **Frequency:** 155.52 to 983.04 MHz
- **Package:** 5 x 7 x 1.8 mm
- **Power Supply:** 3.3 V
- 120 fs-rms (IN = 622.08 MHz, 12 kHz to 20 MHz)
- Tri-State frequency select (F1, OD, F2)
- Replacement to VS-751

#### VS-501
- **Output:** Sinewave, Balanced Sinewave, LVPECL
- **Frequency:** 800 MHz to 2.8 GHz
- **Package:** 9 x 14 x 4.9 mm
- **Power Supply:** 3.3 or 5.0 V
- Ultra-Low jitter performance
- 12 fs-rms (12 kHz to 20 MHz)
- Operating temperature: -40°C to +85°C

#### VS-504
- **Output:** Sinewave, Balanced Sinewave
- **Frequency:** 800 MHz to 2.5 GHz
- **Package:** 9 x 14 x 4.8 mm
- **Power Supply:** 3.3 V
- Dual Frequency VCSO
- 13 fs-rms (fN = 1.747 GHz, 12kHz to 20 MHz)

### TCXO Solutions

#### VT-840
- **Output:** Clipped Sine Wave
- **Frequency:** 8 to 52 MHz
- **Package:** 2.5 x 2 x 0.9 mm
- **Power Supply:** 1.8, 2.8, 3.0 or 3.3 V
- **Temperature Stability:** -30°C to 85°C; ±0.5ppm
- Optional TCXO function available

#### VT-803
- **Output:** CMOS, Clipped Sine Wave
- **Frequency:** 10 to 52 MHz
- **Package:** 5 x 3.2 x 1.5 mm
- **Power Supply:** 2.8, 3.0, 3.3 or 5.0 V
- **Temperature Stability:** -10°C to 70°C; ±100ppb
- -40°C to +85°C; ±200ppb
- Tri-State frequency select (F1, OD, F2)
- Replacement to VS-751

#### TX-801
- **Output:** Clipped Sine Wave, CMOS
- **Frequency:** 6 to 52 MHz
- **Package:** 5 x 3.2 x 1.7 mm
- **Power Supply:** 3.3 V
- **Temperature Stability:** -10°C to 70°C; ±100ppb
- -40°C to +85°C; ±200ppb
- Tri-State output select (OD, GS, OE)
- Replacement to VS-700

#### TX-707
- **Output:** HCMOS
- **Frequency:** 6.4 to 160 MHz
- **Package:** 9 x 14 x 5.9 mm
- **Power Supply:** 3.3 or 5.0 V
- **Temperature Stability:** -40°C to 85°C; ±2ppm
- EFC function
- Standard frequencies: 10, 12.5, 20, 25, 40, 50 MHz

#### TX-500
- **Output:** HCMOS, Sinewave, PECL
- **Frequency:** 6.4 to 160 MHz
- **Package:** 9 x 14 x 5.9 mm
- **Power Supply:** 3.3 or 5.0 V
- **Temperature Stability:** -40°C to 85°C; ±20ppb
- EFC standard
- Low phase noise option
- Low profile

#### MX-600
- **Output:** HCMOS
- **Frequency:** 8 to 40 MHz
- **Package:** 7 x 9 x 4.1 mm
- **Power Supply:** 3.3 V
- **Temperature Stability:** -20°C to 70°C; ±10ppb
- -40°C to 85°C; ±30ppb
- Phase noise: -153dBc/Hz at 10 kHz offset
- OCXO replacement with low power consumption
### OCXO/EMXO Solutions

**EX-421**
- **Output**: HCMOS, Sinewave
- **Frequency**: 10, 20 or 100 MHz
- **Package**: 13 x 13 x 10 mm
- **Power Supply**: 3.3 or 5.0 V
- **Temperature Stability**: 0°C to 70°C; ±10ppb; -40°C to 85°C; ±30 ppb
- **Low Power**: 0.25W steady state
- **Aging**: 1 ppb/day, 100 ppb/year
- **Phase Noise Floor**: -165 dBc/Hz

**OX-501**
- **Output**: HCMOS
- **Frequency**: 10 to 40 MHz
- **Package**: 9.5 x 14.4 x 6.2 mm
- **Power Supply**: 3.3 V
- **Temperature Stability**: -40°C to 85°C; ±10 ppb
- **AT-cut aging**
- **mini OCXO with high stability**

**OX-221**
- **Output**: HCMOS
- **Frequency**: 10 to 37.2 MHz
- **Package**: 22 x 25.4 x 12.1 mm
- **Supply**: 3.3 V
- **Temperature Stability**: 0°C to 70°C; ±0.4 ppb, -40°C to 85°C; ±0.8 ppb
- **Low aging**: 0.15ppb/day
- **TCXO replacement for better short term stability**

**OX-208**
- **Output**: HCMOS, Sinewave
- **Frequency**: 5 to 20 MHz
- **Package**: 25.4 x 25.4 x 12.7 mm
- **Supply**: 3.3 or 5.0 V
- **Temperature Stability**: 0°C to 70°C; ±0.4 ppb, -40°C to 85°C; ±0.8 ppb
- **Low aging**: 0.15ppb/day

**OX-204 / OX-205**
- **Output**: HCMOS, Sinewave
- **Frequency**: OX-204 10 MHz standard (3.3, 5.0 or 12.0 V) OX-205 100 MHz standard (5.0 or 12.0 V)
- **Package**: 25.4 x 25.4 x 15 mm
- **Power Supply**: 3.3 or 5.0 V
- **Phase noise** -135dBc/Hz at 10 Hz offset -175dBc/Hz at 10 kHz offset
- **Other frequencies available upon request**

**OX-171**
- **Output**: HCMOS, Sinewave
- **Frequency**: 5 to 20 MHz
- **Package**: 38 x 28 x 14 mm
- **Power Supply**: 3.3, 5.0 or 12.0 V
- **Excellent Temperature Stability**: 0°C to 70°C; ±0.4 ppb or -40 to +85°C; ±0.8 ppb
- **Power**: 4 watts during warm up / 1.5 watts steady state
- **ADEV performance of 5e-12@1 sec and low aging 0.06ppb per day**

### FX/CS/CDR Solutions

**CD-700**
- **Output**: CMOS
- **Output Frequency**: 1 to 78 MHz
- **Package**: 5 x 7.5 x 2 mm
- **Power Supply**: 3.3 or 5.0 V
- **Industry’s smallest quartz-based CDR PLL with quartz stabilized VCXO Tri-State output**
- **Operating temperature**: 0/70°C or -40/85°C
- **Jitter Attenuation, Frequency Translation, Clock Recovery**

**FX-700**
- **Output**: CMOS
- **Output Frequency**: 1 to 78 MHz
- **Package**: 5 x 7.5 x 2 mm
- **Power Supply**: 3.3 or 5.0 V
- **Industry’s smallest quartz-based PLL**
- **External loop filter components required**
- **Capable of locking to an 8 kHz Pulse/BITS clock**
- **Tri-State output allows on board testing**
- **Absolute Full Range performance to ±100 ppm**
- **Jitter Attenuation, Frequency Translation**

**FX-702**
- **Output**: LVPECL or LVDS
- **Output Frequency**: 62.5 MHz to 1 GHz
- **Package**: 5 x 7.5 x 2 mm
- **Power Supply**: 3.3 V
- **VCSO based PLL for ultra-low jitter**
- **CMOS / LVDS / LVPECL inputs compatible**
- **Tri-State output allows on board testing**
- **Jitter Attenuation, Frequency Translation**
- **Improved jitter/phase noise performance**

**MD-261 Disciplined Oscillator Module**
- **Miniature 25 x 20 mm footprint**
- **Embedded GNSS receiver - GPS and Glonass Compatible**
- **1pps and 10 MHz output signals standard**
- **Embedded precision oscillator**
- **Serial communications interface standard**

**MD-171**
- **Embedded GNSS Receiver - GPS/Glonass Compatible**
- **Embedded precision OCXO**
- **1PPS LVCMOS output standard**
- **10MHz LVCMOS output standard**
- **1PPS auxiliary input**
- **Modified NMEA (VSIP)**
- **Holdover to 1.5μs over 8 hours**
- **Field upgradeable for Galileo**

**AR-133 (Rubidium Clock)**
- **Output**: 10 MHz and 1 PPS
- ** PLL**: 77 x 77 x 25.4 mm
- **Long-Term-Stability**: 5E-11/month when undisciplined
- **Phase Noise**: -150 dBc/Hz @10 kHz
- **Disciplines to input 1 PPS or operates in free run mode**
SAW Filter Solutions

High Performance Telecom
- Frequency: 70 MHz to 2.6 GHz
- Standard / Custom Filters for GSM, TDMA, EDGE, CDMA, W-CDMA, UMTS and 4G-LTE
- Custom Frequencies Available
- Low Loss, Wide Bandwidth
- Low Temperature Coefficient of Frequency
- Package: Optimized SMD and PIN
- High Input Power Capabilities

RF Filters
- Frequency: 700 MHz to 2.7 GHz
- Bandwidth: 0.2 to 85 MHz
- Low Loss: <1dB
- Custom Designs
- Balanced, Unbalanced and Mixed Mode
- Package: Miniature SMD (3x3, 2.5x2 and 2x1.6 mm)
- High Input Power Capabilities

Military & Space
- Frequency: 35.42, 70, 465 MHz and others
- Bandwidth: 0.2 to 100 MHz
- Low Loss: <10 dB depends on BW
- Balanced or Unbalanced or Mixed Mode
- Package: Small SMD (3x3 and 13x6 mm LCC)
- Many Custom Designs
- High Input Power Capabilities

Navigation (GPS/GIS)
- Dual Band 1200 & 1600MHz for high precision receivers
- Frequency: 1227, 1237, 1575.42, 1590 MHz
- Bandwidth: 2.4, 20, 40 MHz
- Low Loss: <0 dB
- Low Ripple: <0.3 dB
- Balanced, Unbalanced and Mixed Mode
- Package: Miniature SMD (3x3 and 2.5x2 mm)
- High Input Power Capabilities

ISM Band Filters & Resonators
- Frequency: 433.92, 315, 868, 915 MHz
- Bandwidth: 0.1 to 2 MHz
- Custom Frequencies Available
- Low Loss: <2 dB
- Low Temperature Coefficient of Frequency
- Package: Small SMD (3.8x3.8 and 3x3 mm)
- High Input Power Capabilities

Monolithic Crystal Filters
- Frequency: 4 to 250 MHz
- Bandwidth: 0.1 to 500 kHz
- Package: 3.8 x 3.8 & 3 x 3 mm, SMD
- Poles: Up to 12
- High Selectivity
- High Frequency Stability
- Internal Matching Available

Hi-Temp Solutions

PX-702
- Output: HCMOS/ACMOS
- Frequency: 32,768 kHz to 50 MHz (higher frequency option is available)
- Package: 5 x 7 x 1.8 mm, 4 or 6 Pad SMD
- Power Supply: 1.8, 2.5, 3.3 or 5.0 V
- Continuous operating temperature range -55 to 230°C
- Product is free of lead and compliant to EC RoHS directive
- Design for high shock & vibration
- Contact factory for custom requirements

PX-570
- Output: HCMOS/ACMOS
- Frequency: 32,000 kHz to 50 MHz (higher frequency option is available)
- Package: 8 x 8.5 x 2.9 mm, ceramic leaded package
- Power Supply: 1.8, 2.5, 3.3 or 5.0 V
- Continuous operating temperature range -55 to 230°C
- Low jitter and phase noise
- Compliant crystal mount for high shock & vibration
- RoHS Compliant
- Contact factory for custom requirements

HX-171
- Output: HCMOS
- Frequency: 10 or 20 MHz (other frequencies available)
- Package: 38 x 28 x 23 mm
- Power Supply: 5.0 V
- Temperature range -40 to 150°C
- Temperature stability: ±5ppb
- Aging: ±1.5ppb/day
- Contact factory for custom requirements

Hi-Temp Real Time Clock Module
- Timing, Calendar and Alarm set via I2C BUS
- Built-in 32.768kHz Quartz Oscillator
- Package: 12 x 12mm, 8 pin DIP
- Power supply: 2.7 to 3.6V
- Continuous operating temperature range: -40 to 200°C
- Tight temperature stability of ±100ppm or better
- Low power consumption of 100 uA or less

VX-708
- Output: HCMOS/ACMOS
- Frequency: 2 to 40 MHz
- Package: 5 x 7 x 1.8 mm, 4 or 6 Pad SMD
- Power Supply: 3.3 V
- Continuous operating temperature range -55 to 180°C
- Low jitter and phase noise
- Compliant crystal mount for high shock & vibration
- Contact factory for custom requirements

Hi-Temp Packaged Crystals
- Frequency from 3 to 200 MHz
- Operating temperature range up to 250°C
- AT, SC, FC, AC and IT-Cut resonator design & fabrication
- All standard cold weld and resistance weld crystal holders
- 8x8mm & 6x3.5mm SMD ceramic packages available
- Special shock and vibration capability available
- Low aging
- Low phase noise
- Contact factory for custom requirements
# World-Wide Locations

## United States

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Phone Number</th>
<th>Fax Number</th>
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<tbody>
<tr>
<td>VI Hudson</td>
<td>Corporate Headquarters</td>
<td>1.888.328.7661</td>
<td>1.888.329.8328</td>
</tr>
<tr>
<td>Hudson</td>
<td>267 Lowell Road, Suite 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hudson, NH 03051</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VI Mount Holly Springs</td>
<td>100 Watts Street</td>
<td>1.717.486.3411</td>
<td>1.717.486.5920</td>
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<tr>
<td></td>
<td>Mount Holly Springs, PA 17065</td>
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<tr>
<td>VI Cincinnati</td>
<td>4914 Gray Road</td>
<td>1.513.542.5555</td>
<td>1.513.542.5146</td>
</tr>
<tr>
<td></td>
<td>Cincinnati, OH 45232</td>
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## Europe

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<tbody>
<tr>
<td>VI Neckarbischofsheim</td>
<td>Landstrasse, D-74924</td>
<td>+49 (0) 7268.8010</td>
<td>+49 (0) 7268.801281</td>
</tr>
<tr>
<td></td>
<td>Neckarbischofsheim, Germany</td>
<td></td>
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</tr>
<tr>
<td>VI Teltow</td>
<td>Potsdamer Strasse 18</td>
<td>+49 (0) 3328.35085.22</td>
<td>+49 (0) 3328.4784.30</td>
</tr>
<tr>
<td></td>
<td>D-14513 Teltow, Germany</td>
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## Asia

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<tr>
<td>VI Neckarbischofsheim</td>
<td>68 Yin Cheng Road(C), 22nd Floor</td>
<td>+86 21 61946886</td>
<td>+86 21 61633598</td>
</tr>
<tr>
<td></td>
<td>One LuJiaZui</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Pudong, Shanghai 200120, China</td>
<td></td>
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</tr>
<tr>
<td>VI Teltow</td>
<td>56 Serangoon North Avenue 4, #06-01</td>
<td>+65 65551926</td>
<td>+65 65554377</td>
</tr>
<tr>
<td></td>
<td>Singapore, 555851</td>
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