Stadium and Venues:

| **Product code** | CZK-StdVen |
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| **Hardware Platform** | Edge: Nvidia Jetson Series, Sophgo Micro Servers  Central: Nvidia H100, L40, RTX 4000 Series, RTX 5000 Series Ada, A16, A30, Sophon AI server |
| **Operating System** | Ubuntu, MS Windows |
| **Management Interface** | Web-Based Management Software |
| **Database** | PostgreSQL |
| **Development Approach** | Microservice, containerized |
| **Frontend** | React |
| **Backend** | Python |
| **3rd party Integration** | 3rd Party API Integration  Camera Support: RTSP, ONVIF |
| **Keywords** |  |

**Specific Video Analytics Applications:**

* **Crowd Density Monitoring** – Prevents overcrowding and optimizes crowd flow.
* **Intrusion Detection** – Detects unauthorized access to restricted areas.
* **VIP Facial Recognition** – Enhances security and provides premium guest services.
* **Abandoned Object Detection** – Identifies unattended bags or suspicious items.
* **Perimeter Security** – Ensures restricted zones are protected from intrusions.
* **Emergency Evacuation Analytics** – Assists in safe and efficient crowd evacuation.
* **Queue Management** – Monitors and reduces long lines at entry points and concessions.
* **Fan Behavior Analysis** – Detects aggressive or unusual behavior in real-time.
* **Vehicle and Parking Security** – Monitors entry and exit points to prevent theft.
* **Fire and Smoke Detection** – Enhances safety by alerting authorities to potential hazards.

**Key Benefits:**

* **Improved Fan Safety** – Prevents overcrowding, fights, and unauthorized access.
* **Faster Security Response** – Alerts authorities instantly for better incident management.
* **Enhanced VIP Experience** – Uses facial recognition for seamless entry and premium services.
* **Optimized Event Operations** – Reduces congestion at entry, food stalls, and restrooms.
* **Emergency Preparedness** – Provides evacuation analytics for crisis scenarios.