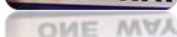


SDS0400: Smart Parking Solution for North American Market



“It is a thoughtful and overall solution for both biz parking and household garage”!
-- By Tconnex Review

Prior to the release of SDS0400, American car parking vendors can barely find a stable, reliable smart garage control system from the marketplace. An ideal system should feature overall functionality, highly expandable and capability to avoid any physical damage/vehicle accidents. Remote control and video/picture storage are also vital features. The SDS0400 system, which complies with local user experience and habit, is urgently needed in north America market.

CVIC SE has such a wealth of knowledge in embedded projects; we worked together with leading smart parking solution provider in United States by joint effort to develop a cutting edge garage control system-SDS0400. It adopts a comprehensive, open architecture that capable of connecting various external equipments. It is an effective and highly expandable structure as rapidly recognized by market and quickly became a buzz among SI providers and parking vendors.

Whatsoever, as CVIC SE's first “agile embedded project” which was actually developed based on “agile methodology” other than RUP, the project requests us to be keen and have a deep understanding on American parking market with right technical perspective. During the course of project, we and our client was facing a series of challenges:

Challenges During the Project

<p>CVIC SE's first outsourcing embedded project based on C</p>	<p>Adapt to the highly competitive smart parking market, the project adopts off-shore development model and it is the first project between CVIC SE and American client on Paradigm C/ C++ platform. There are amount of uncertainties during the project which brought challenges for both sides since the cultural gap and different business practice. So, timely and accurate communication is the key success factor for the two firms.</p>
<p>The legacy manual control facility needs to be updated urgently</p>	<p>Taking into account the parking efficiency, time saving and cost factors, manual deputy work model has become a “stone age” style. The existing manual facilities should be replaced by smart system. From business model perspective, the system should consider parking guidance, remote monitoring, unmanned deputy, cluster management, fire and inburstment alarm, password (PKI) management and RFID application... These requirements require us to have a panoramic view and right understanding on real market needs.</p>
<p>Technical challenges</p>	<p>SDS core system should communicate with various external devices such as way sensor, motion sensor, and weight sensor and so on. At the same time, we should correctly define core modules like Upper Machine, Middle Layer, PLC in order to deploy a simplified, reliable and high efficiency system. How to deal with these technical issues is also our concern.</p>

International Offshoring: Enjoy the Convenience and Park Safely

How could CVIC SE make this success happen?

1. English-speaking outsourcing team, with prompt project management and collaborative development platform. Our team is familiar with global business circumstance and culture, we have introduced 'Agile Methodology' and adopt scrum meeting, morning meeting and weekly meeting as communication channels, Skype as communication tool. These efforts definitely reduced time and geographical gaps across pacific ocean. The team also utilizes open source software, Mantis, for bug/issue/process tracking. By this means, we can outstandingly expurgate associated cost. Time zone difference also extends our working time to 24 hours a day and brought high efficiency.

2. CVIC SE and client worked tightly with the experience from American smart parking market as well as CVIC SE' excellent software engineering practice, these factors are vital to the project success. CVIC SE has over 18 years experience in software engineering. Comprehended on the system characteristics, our engineers, who are both familiar with embedded software and hardware, worked together with our partners to complete this high-end mission. The study and understanding on global fashion and consumer electronics made a lot of sense for us.

3. Introduce latest techno. CVIC SE team invests huge passion and hard study through organized training, self-study, and cyber technical community. We also have local connections and partnership with famous universities and research academies to assist us solving technical barriers.



SDS0400 system is currently adopted by a number of system integrators in North America accessing a wide range of applications. It brings customers a huge profit and improved user experience while shading cost. It also created an outstanding win-win model across pacific ocean.

- At May 2008, the system got high praise by Tconnex Review.
- The latest market intelligence shows SDS has successfully entered the main stream parking market in American accessing a wide range of applications. After the deployment, average efficiency improvement comparing with manual work model increased 3-5 times, the capability of vehicle pass-through doubles. At the same time, the overall cost per usage reduced by 30%.
- In the current downturn, the full-featured, cost-saving SDS system will play an indispensable role in reducing cost, enhancing investment return for parking vendors, in order to get through the downturn with new customer gained.

The obvious success of DS0400 is on our understanding and usage of 'Management Triangle'. The project quality is ensured by auto develop tools and criteria; the iteration rate is increased by utilizing component library so as to reduce development time frame while level down cost accordingly.

The success of SDS0400 is clearly and professionally stated by [Tconnex Review](#) that,

"It is a thoughtful and overall solution for both biz park and household garage!"

On Demand, Quick Building, Outstanding Quality and Succeeding Together