

Web Services

Integrate Your Various Systems and Devices



Managing parking operations with technology from a variety of manufacturers has always been a challenge. Work processes are inefficient, information is scattered and reports don't always show the big picture. Digital Payment Technologies (DPT) is working to solve these challenges with the power and flexibility of Web Services.

DPT has incorporated Web Services into its dynamic software tool, the Enterprise Management System (EMS). As a result, DPT is able to increase the value of the data contained within the EMS, deliver the tools required to build new applications, and simplify how clients manage information from various parking technologies.

Applications for Web Services

Enforcement

Deliver space data from pay stations to third-party enforcement devices in real-time to improve quality of citations and efficiency of enforcement operations.

Maintenance

Allow maintenance people to use Internet-enabled handheld devices to assist them in troubleshooting pay station issues.

Accounting

Connect the financial data from various parking technologies to your organization's primary accounting system.

Pay Station Monitoring

Display the status of your pay stations in applications other than the EMS.

Space Monitoring

Integrate with monitoring systems located in individual parking spaces to deliver automated applications that can proactively adjust rates and/or automatically notify personnel of vehicles requiring citations.

The potential applications for Web Services are limitless as almost any Internet-enabled system has the ability to integrate with DPT's Web Services.

Benefits of Web Services

- Greater integration between Internet-enabled systems and devices
- Faster development of new applications
- Improved information flow to streamline your operations

Web Services

Web Services Technology

Web Services is available over the Internet using a standardized XML messaging system. XML is used to encode all communications to the Web Service. A client or third-party technology would invoke a Web Service by sending an XML message and then waiting for a corresponding XML response. This exchange of information would include data such as space information, expiry times, current pay station status and any alarms that have been triggered.

A common application of Web Services technology is a handheld enforcement device that pulls space expiry times from the EMS in real-time. This application eliminates the need to manually print reports from the pay stations.

Since all communication is in XML, Web Services is not tied to any one operating system, platform or programming language—Java can talk with Perl; Windows applications can talk with UNIX applications; and handheld units can talk directly to the EMS server.

Technology Integration

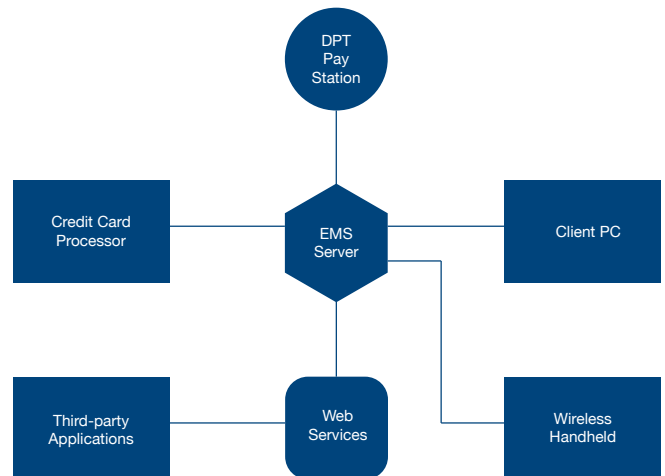
Web Services allows for a higher degree of integration with third-party software such as enforcement, accounting and monitoring systems. By developing an open platform for integration, Web Services provides accessibility to the wealth of information and functionality stored in the EMS. Proprietary systems used by educational institutions, municipal governments and private operators will now be able to share information as if they were designed to work together from the start.



Network Components

The delivery of Web Services' applications requires the following network components:

1. DPT's LUKE or SHELBY pay station
2. DPT's Enterprise Management System (EMS)
3. Subscription to DPT's Web Services
4. Third-party Internet-enabled systems or devices
5. Internet connectivity



If you have existing third-party parking technologies and would like to learn more about how Web Services can work for you, talk to us today.

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