

Create Periodic Orders Plugin

This sample plugin allows the user to specify the individual periodicity and days of service for a set of orders, and then easily add these orders to the schedules for all appropriate days in a period. It is useful for learning how to create a custom Page with some controls, and adding multiple custom Commands to it which read a file, and add and delete orders from the project. The file *PeriodicOrdersPage.xaml* contains xaml code for creating the custom page, *PeriodicOrdersPage.xaml.cs* contains the support code for the page and *CreatePeriodicOrdersCmd.cs* and *ClearFutureOrdersCmd.cs* contain the code for the custom commands.

Installation:

1. Copy the plugin DLL (*CreatePeriodicOrdersPlugin.dll*) into the ArcLogistics install directory.

Usage:

1. A new action panel called *Periodic Orders* appears on the Schedule tab. There are two tasks in the *Tasks* widget of the page, *Add Periodic Orders* and *Delete Future Orders*.
2. First, click the *Browse* button on the page, and select a csv file containing the orders to be distributed. The column headers for the csv file must conform to the *Sample Plugins Import Specification*. The orders will be displayed on the page, along with some periodicity options.
3. Next, specify the number of days starting on the current day, that the orders must be spread over.
4. Finally, specify the periodicity of the orders (every week, every two weeks etc.) and specify the days (Sunday – Saturday) on which the orders must be serviced. For example, assume that the current day is a Monday. If you specify the periodicity as every week, days to be visited as Tuesday and Friday, and the number of days as 28, then the order will be added to the schedules for every Tuesday and Friday for the next four weeks.
5. Click the *Add Periodic Orders* button. The orders will be added to the schedule on the days specified by the periodicity.
6. Clicking the *Delete Future Orders* button deletes all orders from the schedule starting from the current date, up to the number of days specified on the page. This is useful for quickly removing all orders from the schedule, making changes to the periodicity of the orders, and adding them back.

Note: The periodicity and days of service can also be imported for the orders csv file. Add a column called “Weekly Periodicity” with values between 1 and 4 to specify the weekly periodicity. Add a column called “Days” with semicolon separated 3-letter day names to specify days of service. For Example: “Mon;Thu;Fri”.

Customization:

1. Open the Visual Studio Project *CreatePeriodicOrdersPlugin*.
2. Modify references and project settings if needed.
3. Modify the code in the *Execute* method to change plugin behavior. It contains logic for setting the app status to busy, creating orders and adding them to schedules.

4. *ClearFutureOrdersCmd.cs* contains the code for finding days with orders, and deleting orders from the schedule.
5. It may also be useful to change some of the other methods or properties, such as *Title* and *Tooltip*.
6. Modify the page's xaml code in *PeriodicOrdersPage.xaml* to change how the page looks, or the support code in *PeriodicOrdersPage.xaml.cs* to change how the page reacts to user interaction. The support code also contains logic for adding UI elements such as checkboxes and dropdown menus to the page through code.
7. Rebuild the project to obtain the new dll.
8. Copy the dll into the install directory, and run ArcLogistics to check the results.