

Using offsets

Some SOAP functions (for example, list functions [GetLicenseOrderList](#), [GetCustomerList](#), and [GetProductList](#)) use an offset to handle arrays. For these functions, the returned values (such as licenses, customers, etc.) are stored into arrays of up to 100 elements. You can use an offset greater than 0 to get additional returned values. For example, for `GetCustomerList`: If you have 321 customers, you would run this method 4 times using the offsets 0, 100, 200, 300. The first 3 responses will have 100 customers each, and the last response will have 21 customers.

To find the end of the data (since you may not know the number of elements), you can stop looping when the query returns less than 100 results. For example:

```
for (int i = 0; ; i++)
{
    Soap_Response_List_LicenseOrder LOList = c.GetLicenseOrderList(L.token, 100 * i);

    foreach (Soap_LicenseOrder LO in LOList.result_array)
    {
        // Process data in result array
    }

    if (LOList.result_array.Length < 100)
        break;
}
```