



TRANSLÖC INC.  
Transit Visualization Systems

## Developer API

### Architecture

- RESTful API format
- Open Source platform
- MVC Framework
- XML/JSON support

### Key Features

- Ability to support & throttle hundreds of simultaneous users
- Easily Extendable
- High Scalability
- Simplicity of API calls

### Usage Examples

API is an HTTP REST API, with GET & POST methods available

*Example API call:*

`/object/action.format?param=value&...`

**object:** The data of interest  
*(buses, routes, stops, etc.)*

**action:** What you would like to get  
*(listing, info, stats, etc.)*

**format:** How to format the data  
*(JSON, XML, RSS, etc.)*

**param=value:** How to limit your data  
*(org = ncsu, bus = #12)*

# Real-Time Mashup and API



## Real-Time Mashup

### Architecture

- Driven by TransLoc API calls
- Adobe Flex 3 platform
- Developed using ActionScript 3
- Google Maps Flash API

### Key Features

- Real-Time plotting of bus locations
- Rich mapping layer
- Bus schedule availability
- Bus arrival notifications
- RSS news feed integration
- Modular across different campuses
- Simple user interaction
- Developed using emerging web technologies, thus creating an innovative new product

### Usage Examples

Come interact with our demo today!

### Team Members

John Doig  
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**CSC 492 Fall 2008**  
**Team 9, TransLoc, Inc.**  
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### Sponsor Background

A few years ago a band of comp-sci kids graduated from NCSU & struck out on their own. The result was a way for students on campus to track the Wolfline buses in real-time, on the web, & on mobile phones. Now that technology is being used at over half a dozen schools.

### Project Initiative

- 1) Develop a web API to TransLoc's software
- 2) Add support for hundreds of simultaneous users
- 3) Build a mashup to demonstrate the API's capabilities

