



Collaboration Days

Creating Hands-on Value



Microsoft®


SharePoint® Server 2010

Christian Glessner

Wolke 7 für Entwickler? Sandboxed Solutions in SharePoint Online 2010



SharePointCommunity.ch

... born to be shared! 

About Me

Christian Glessner

cg@expertsinside.com

iLoveSharePoint.com

@cglessner  



Sandboxed Solutions

Isolated process

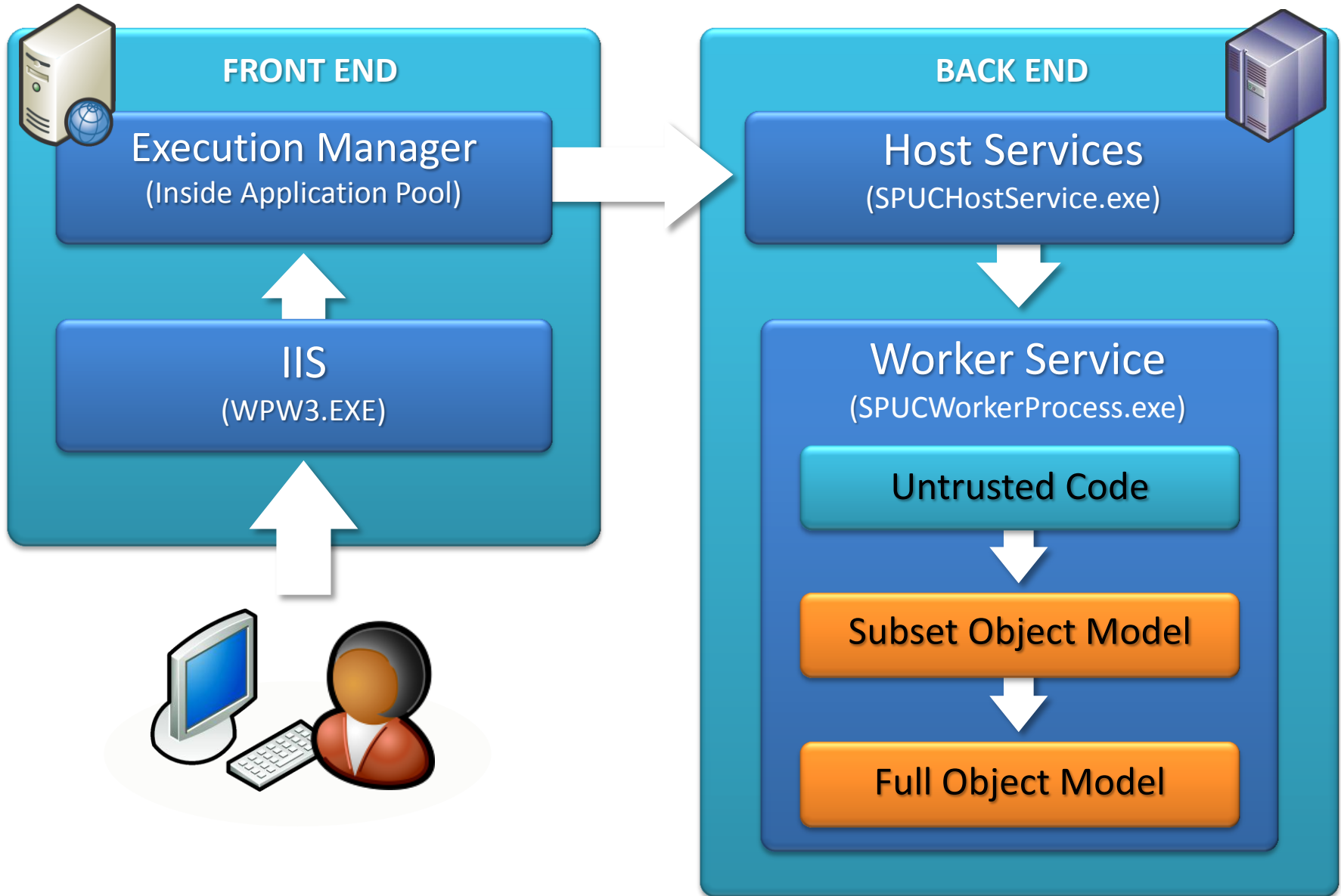
Exposes only partial API **Microsoft.SharePoint**

Increased Code Access Security

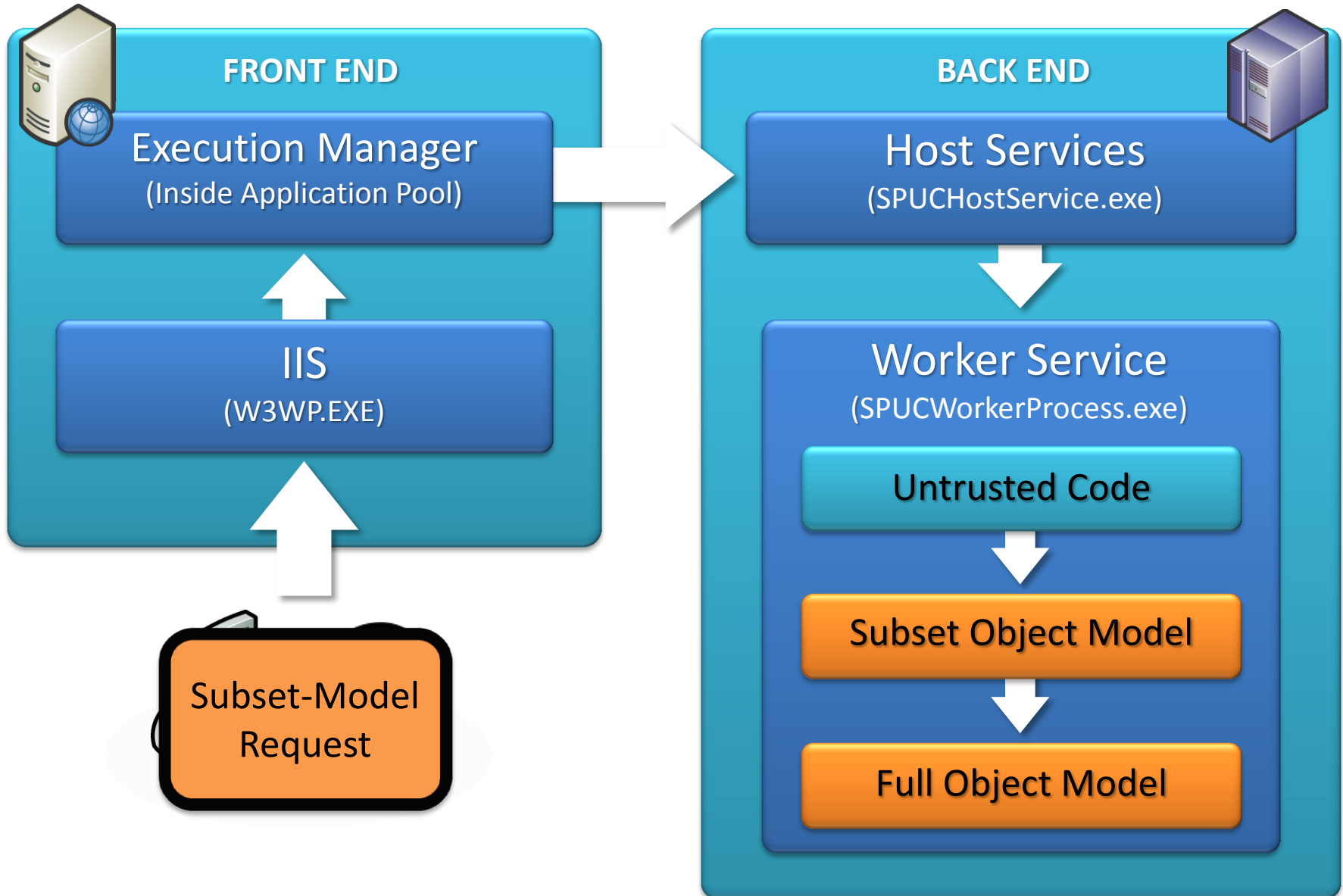
Deploy via web to Site Collection Solution Gallery

Monitoring these solutions

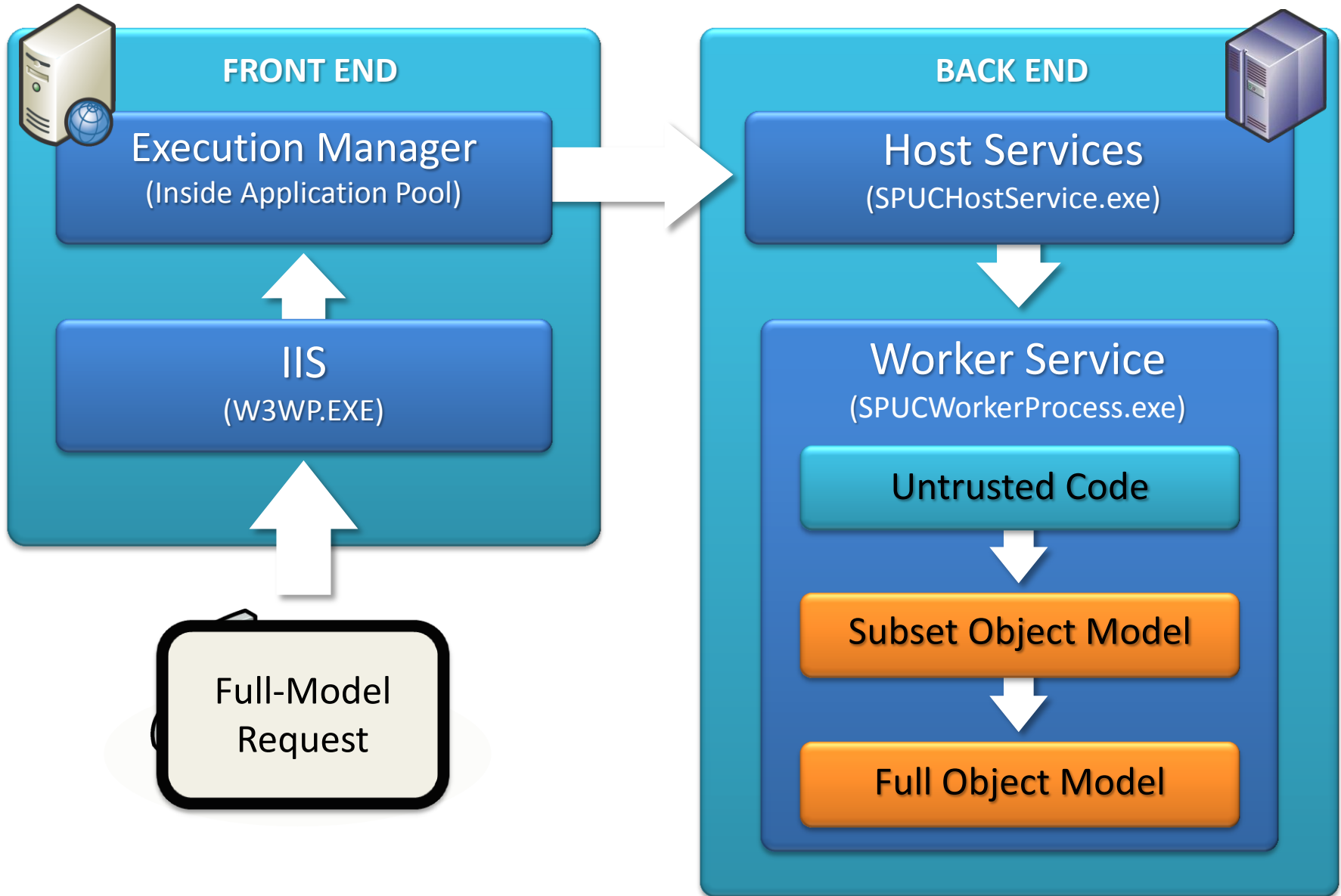
Sandbox Architecture



Sandbox Architecture



Sandbox Architecture



Supported functionalities

- List definitions
- List instances
- Content Types/Fields
- Navigation
- Web Parts
- Event receivers
- Custom Workflow Actions
- Workflows
- Modules

Not supported

- Off-box connections, http, web services, etc
- ADO.net
- Enterprise features (Search, Term Store, etc.)
- Threading
- P-Invoke
- IO
- Other sites
- Impersonation
- SharePoint Web Controls



Collaboration Days

Creating Hands-on Value



Microsoft®

SharePoint® Server 2010



- Simple WebPart
- SharePoint Designer Action



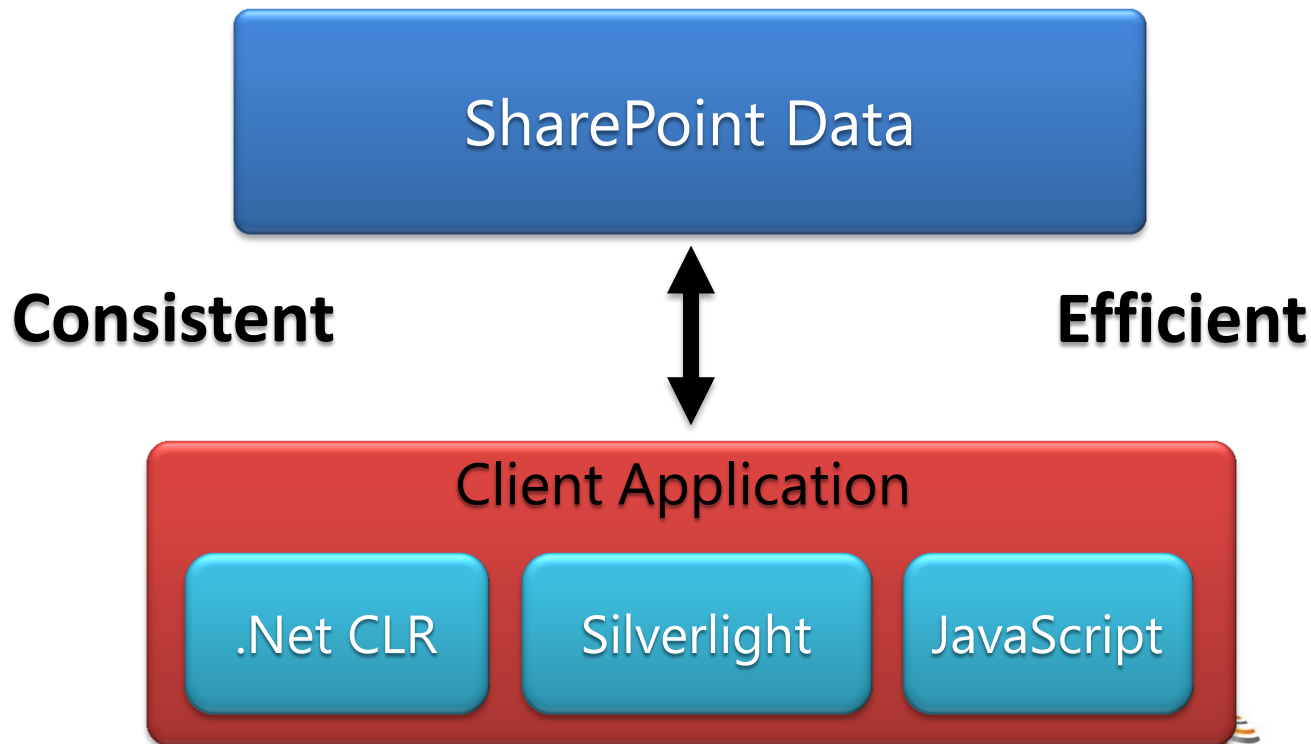
SharePointCommunity.ch

... born to be shared!

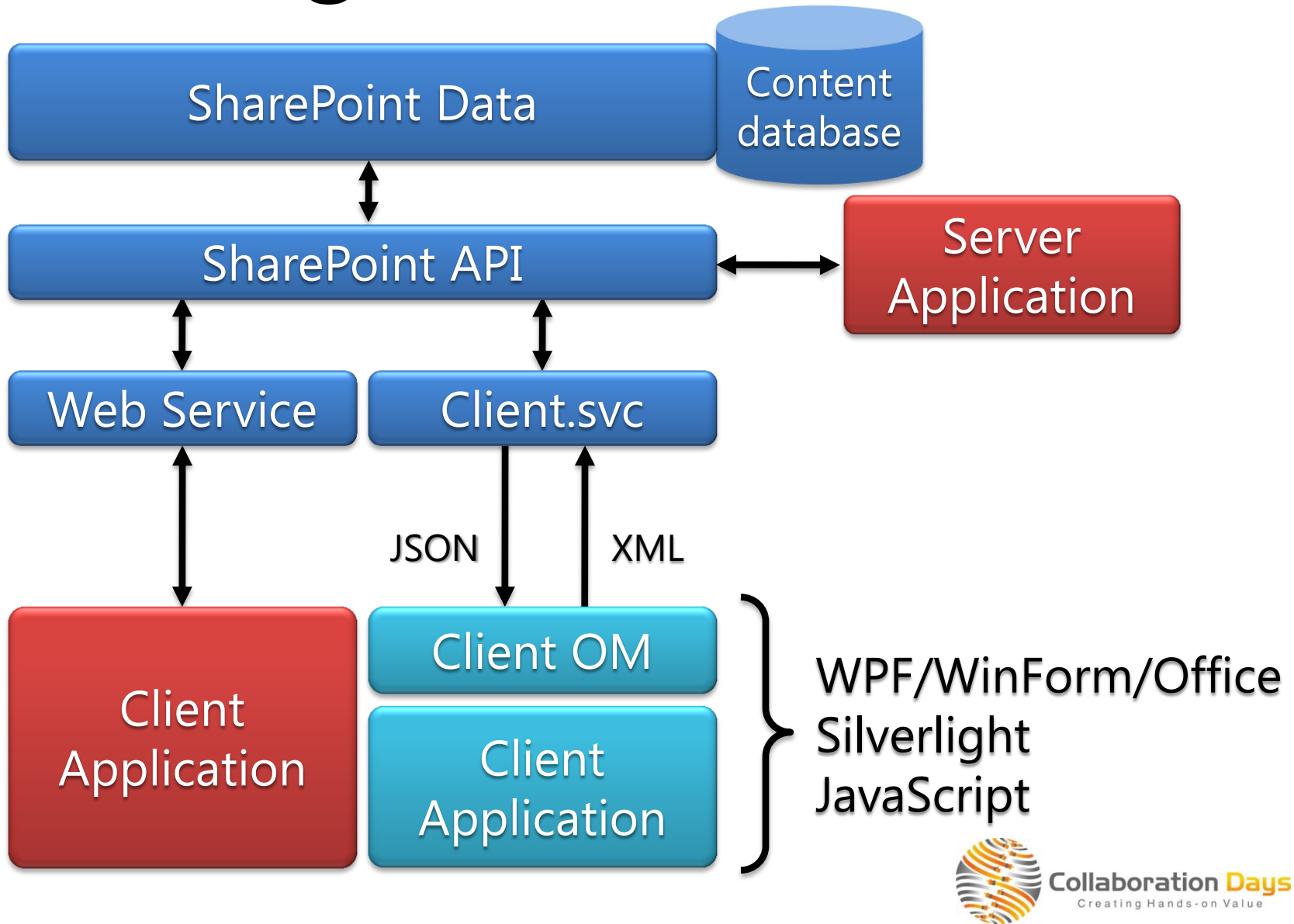


Client Object Model

Simple and easy to use API to Add, Retrieve, Update and Manage Data in SharePoint.



Accessing Data with Client OM



Getting Started: 3 things to know

1. ClientContext is the central object

```
clientContext =  
new ClientContext("http://mysite");
```

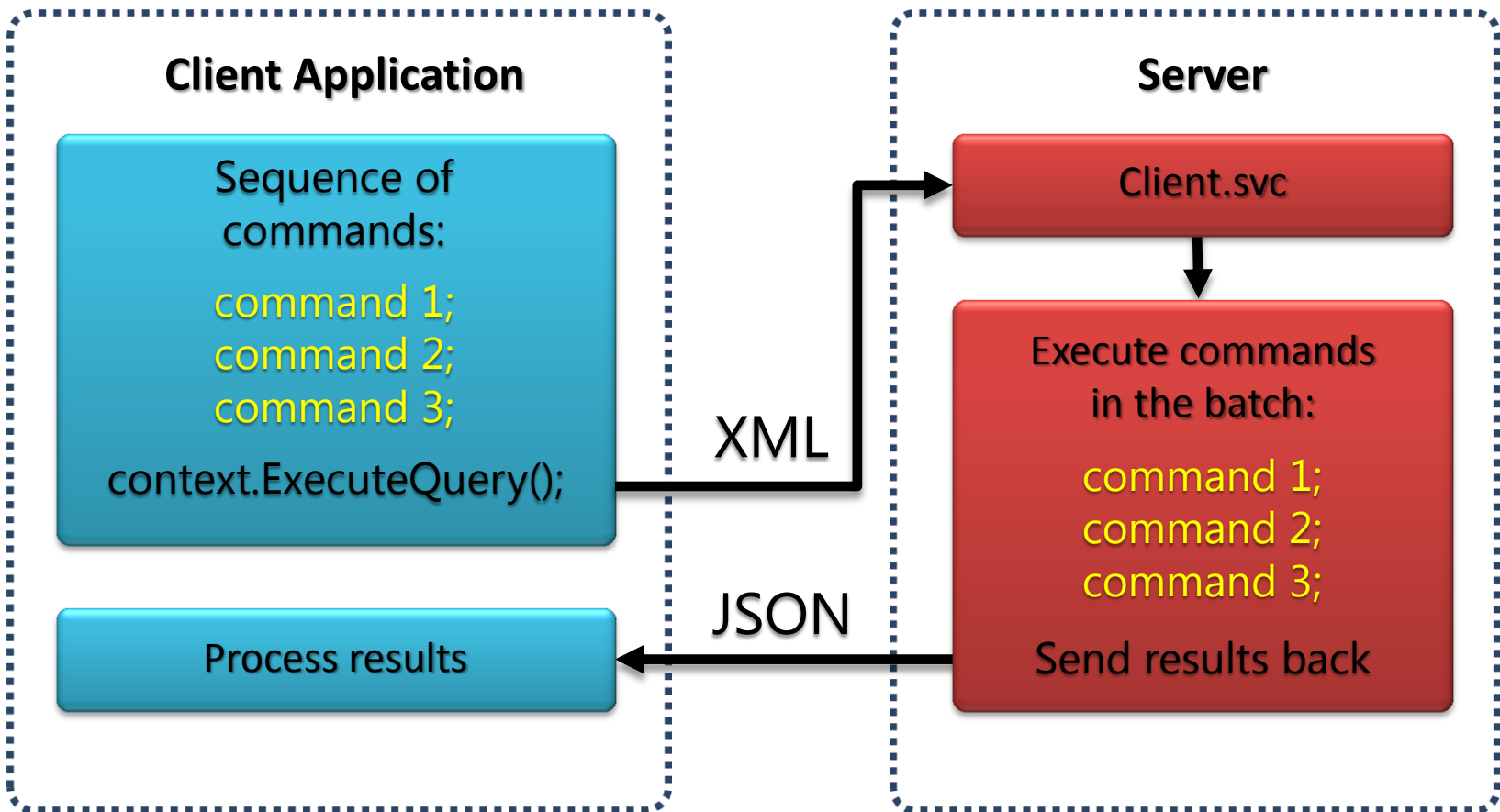
2. Before you read a property, you have to ask for it

```
clientContext.Load(list);
```

3. All requests must be committed in a batch

```
clientContext.ExecuteQuery();
```

High level handling of commands



Client Object Model Limitations

- You still need to handle synch/update semantics (change log could help)
- No elevation of privilege capabilities
- Requests are throttled
- .net CLR has sync method;
Silverlight CLR and Jscript are async



Collaboration Days

Creating Hands-on Value



Microsoft®

SharePoint® Server 2010



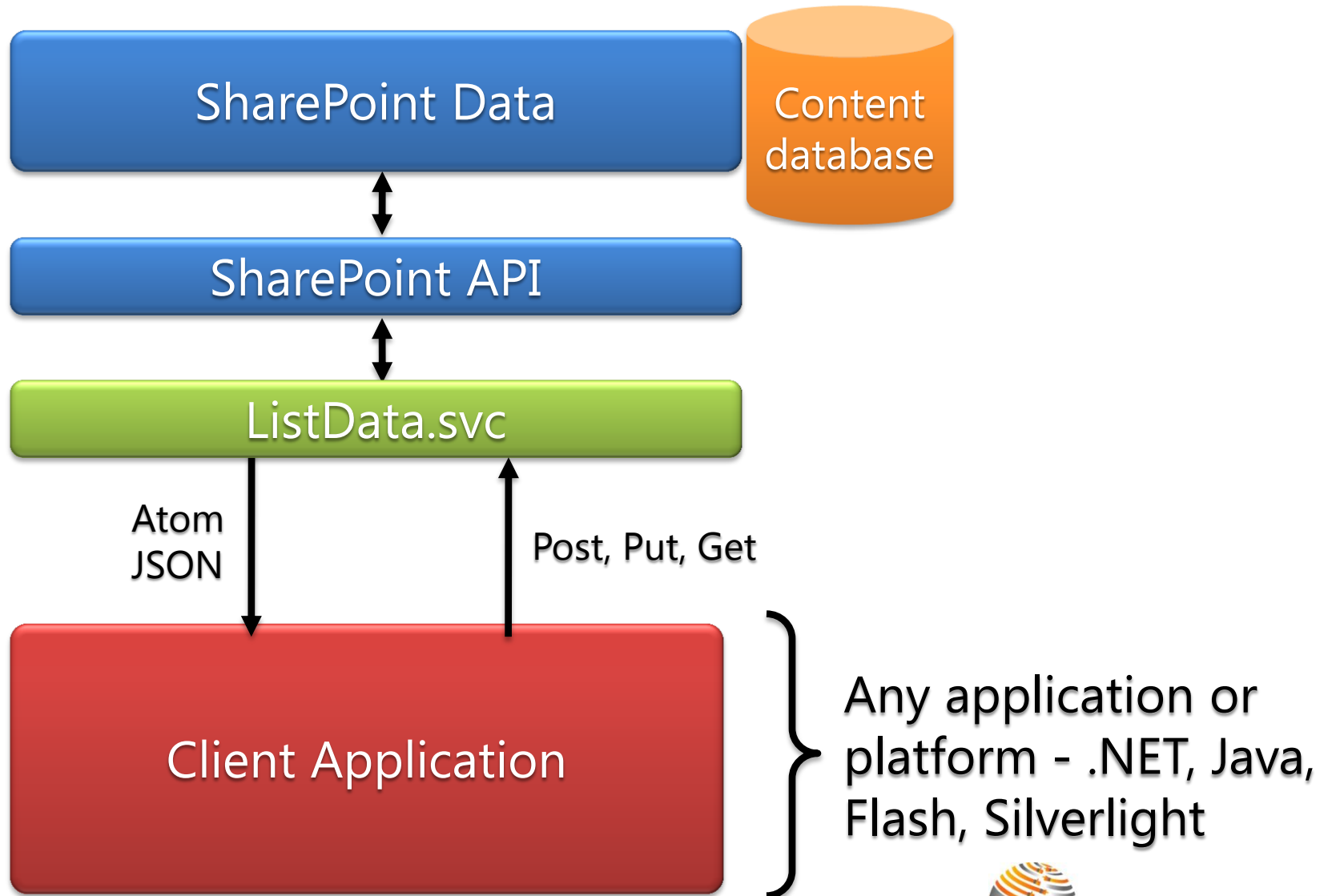
JavaScript Client OM



SharePointCommunity.ch

... born to be shared! 

REST & WCF Data Services



URL Conventions

■ Addressing lists and items

List of lists	.../_vti_bin/listdata.svc/
List	listdata.svc/Employees
Item	listdata.svc/Employees(123)
Single column	listdata.svc/Employees(123)/Fullname
Lookup traversal	listdata.svc/Employees(123)/Project
Raw value access	listdata.svc/Employees(123)/Project/Title/\$value

• Presentation options

Sorting	listdata.svc/Employees?\$orderby=Fullname
Filtering	listdata.svc/Employees?\$filter=JobTitle eq 'SDE'
Projection	listdata.svc/Employees?\$select=Fullname,JobTitle
Paging	listdata.svc/Employees?\$top=10&\$skip=30
Inline expansion	listdata.svc/Employees?\$expand=Project



Collaboration Days

Creating Hands-on Value



Microsoft®

SharePoint® Server 2010



URI Syntax



SharePointCommunity.ch

... born to be shared! 

Office 365 & Azure

- JavaScript (JSONP)
- Silverlight (client access policy)
- BCS



Collaboration Days

Creating Hands-on Value



Microsoft®

SharePoint® Server 2010

Azure Silverlight WebPart



SharePointCommunity.ch

... born to be shared!

