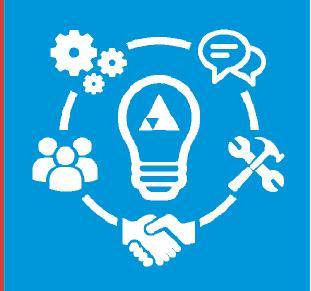
Uniface Dev Conf

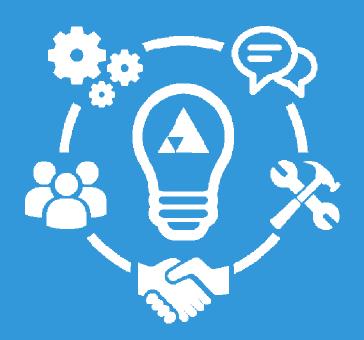
Thomas S Shore III Subject Matter Expert

March 3, 2016





Uniface and REST



Agenda

- What is REST?
- Required facilities
- Functionality
- Uniface Examples

What is REST?

As REST is an acronym for REpresentational State
Transfer

What is REST?

- Uniform Interface
- <u>Stateless</u>
- <u>Cacheable</u>
- Client Server
- <u>Layered System</u>
- Code on Demand

Invocation

- Maps "typical" CRUD to HTTP methods
 - Create = POST
 - Retrieve = GET
 - Update = PUT
 - Delete = DELETE
- Plus
 - HEAD Existence Check
 - OPTIONS What do you support?

Mechanics

- Resources and their information
 - /globalprocs
 - /globalprocs/SYSTEM_LIBRARY
 - /globalprocs/SYSTEM_LIBRARY/GLOBAL_SORT
 - /xref/APICUSTOMER
 - Try this

Commercial Examples

- What could possibly go wrong :
 - Open the roof
- PETA would not be happy
 - Storage Example

Results

Here's a list of the most important status codes:

- Success codes:
 - 200 OK (the default)
 - 201 Created
 - 202 Accepted (often used for delete requests)
- User error codes:
 - 400 Bad Request (generic user error/bad data)
 - 401 Unauthorized (this area requires you to log in)
 - 404 Not Found (bad URL)
 - 405 Method Not Allowed (wrong HTTP method)
 - 409 Conflict (i.e. trying to create the same resource with a PUT request)

Output

- Accept header with a value of:
 - "application/xml" or
 - application/json
- ?Format=csv/json/xml

What's new with Uniface?

- http://HostServer:Port/uniface/Servlet/ComponentName{.PublicOperation}{{/PathInput} | {?QueryString}}
- For example: http://example.com:8080/uniface/wrd/products.getInfo?/a=chairs&b=red/
 - PathInput—optional; string of input parameters in the form:
 - Value{/Value}
 - The PathInput is used for semantic URLs. Input path parameters are put into the PATHINPUT channel of \$\\$webinfo.
 - QueryString—optional; string of input parameters in the form:
 - Key=Value{&Key=Value}
 - The list can contain key=value pairs or value-only parameters but not both. The QueryString is used in non-semantic URLs.
 - For dynamic server pages, the parameters are put in the HTTPREQUESTPARAMS channel of \$webinfo.
 - For static server pages, they are put into the INPUT channel of \$webinfo.

\$webinfo

PATHINPUT

- The PATHINPUT channel is used in both dynamic and static server pages for RESTful URLs. For more information, see Uniface URL Format.
- If the request was formatted as a RESTful URL, the PATHINPUT channel contains an associative list of input parameters.

\$webinfo

- HTTPREQUESTHEADERS
 - What should I send?
 - What is accepted
- HTTPRESPONSEHEADERS
 - What is allowed

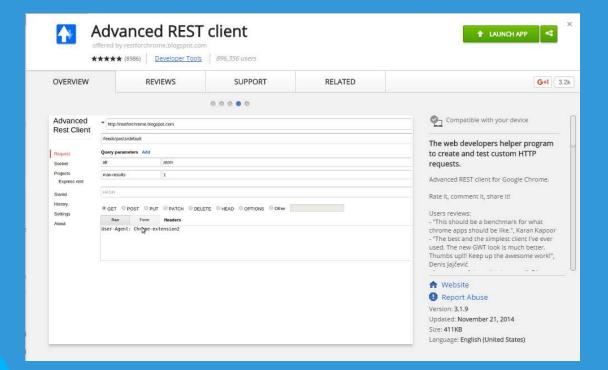
Output

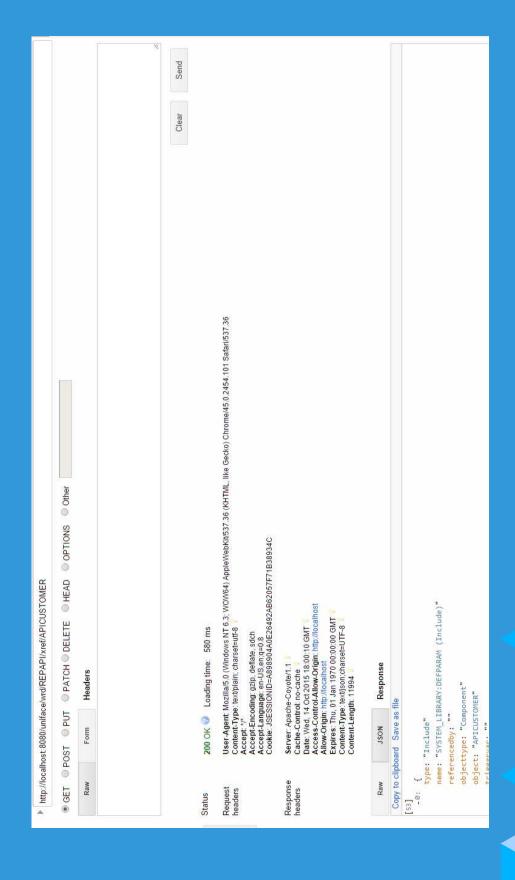
• XMLENCODE

Testing facility

 https://chrome.google.com/webstore/detail /advanced-restclient/hgmloofddffdnphfgcellkdfbfbjeloo?hl=

en-US





Thank You! Questions?

