Whitepaper

OPC Interoperability Workshop (IOP) App

User Guide

OPC Foundation

May 8, 2015

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1 Introduction

This document provides an overview of the Interoperability Workshop Management Application (IOP-WS) which allows users to:

- Register for a workshop
- Manage products that will be Tested at the IOP
- Manage test results
- View test results (only available to participants for closed workshops)

Participation in Interoperability Workshops is available only for OPC member companies.

IOP application: https://www.opcfoundation.org/iopworkshop/

A login is required (email and password) and an administrator must approve your participation. After login the IOP Start Page will be displayed.

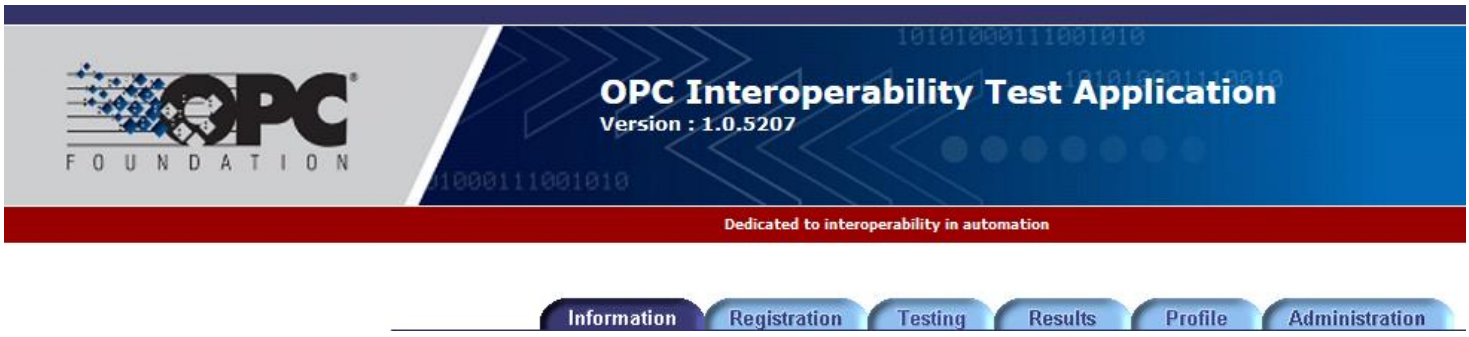
Note: The application uses Javascript and a modern browser is required, i.e. IE v11 or newer; Firefox v23 or newer; Chrome v33 or newer.

1.1 Confidentiality

All information contained within this application is private. None of this information is available to the general public. All test-results stored within this application are private and available to the Client and Server vendors only.

2 Start Page

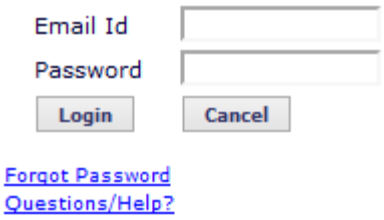
The Start Page is the entry point to all tasks provided by the IOP Workshop Application. It is sub-divided into various Tabs.



3 Accessing the IOP Application (Login)

In the March of 2015 the behavior of this tab was modified so the application uses single-sign-on with the OPC Foundation website. Previously, a separate user login account was needed.

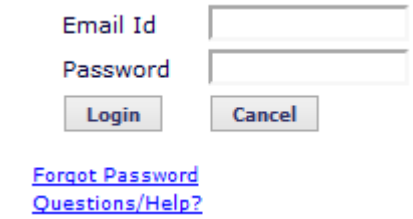
Most of the IOP application is accessible after logging in. The login form is visible on the "Information" tab:



The following sub-topics describe how to create an account, logging in, and recovering a forgotten password etc.

3.1 Logging in

Simply enter your OPC Foundation website login name and password into the form:



Once logged in you will see the following welcome message in the "Information" tab:

3.2 Problems Logging in

Forgotten your password? Simply click the link "Forgot Password" in the login form. An email will be sent to you with a new/temporary password.

We recommend immediately changing your password once you login using the temporary password.

3.3 Logging out

A "Logout" link is available in the header:

Once logged out, only the "Information" tab will be accessible.

4 Information Tab

Provides basic information about the IOP application and options for logging in, or registering a new account etc.

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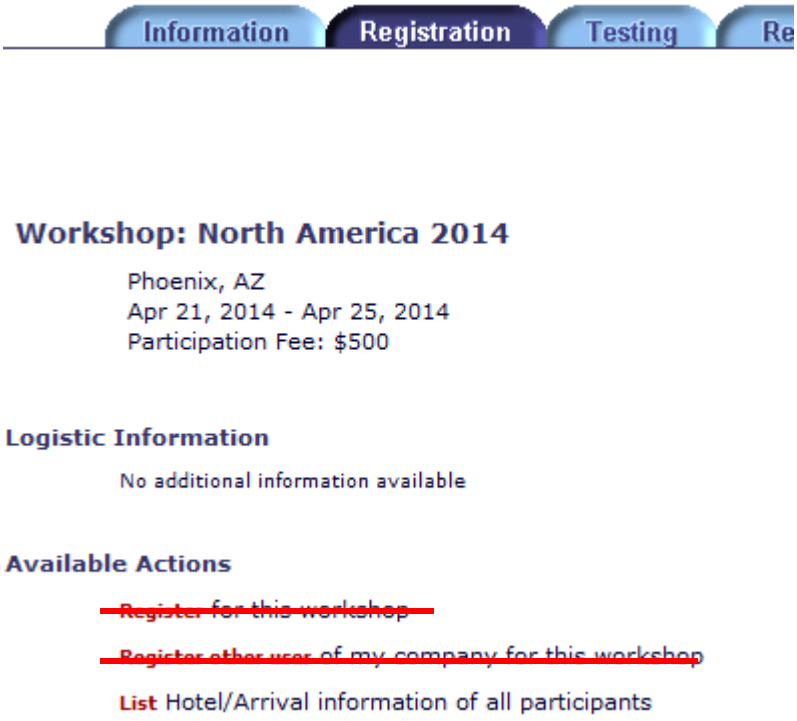
5 Registration Tab

In the March of 2015 the behavior of this tab was modified. Registration for IOP events now occurs via the OPC Foundation website events center. Previously, registration occurred via this website.

This tab is only available once you have logged into the IOP app. From here, you can see all IOP workshops that are currently available for registration. For each workshop, you can:

- Register other people within your organization
- View information about other attendees



The *Available Actions* will change depending on the status of the registration and the status of the workshop.

5.1 Registration

You can view or modify the products to be tested during the workshop, as shown here:

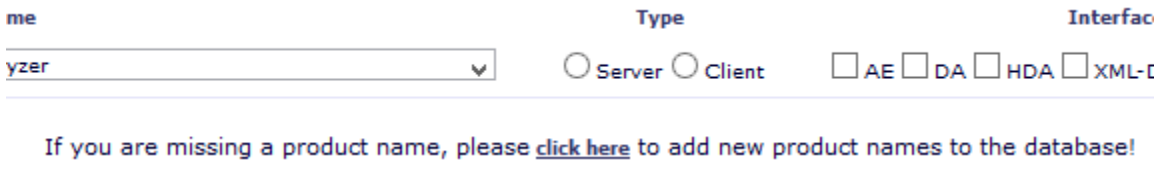
5.2 Product Configuration, for Testing

Click "View / Change" products to go into the product administration section where you can:

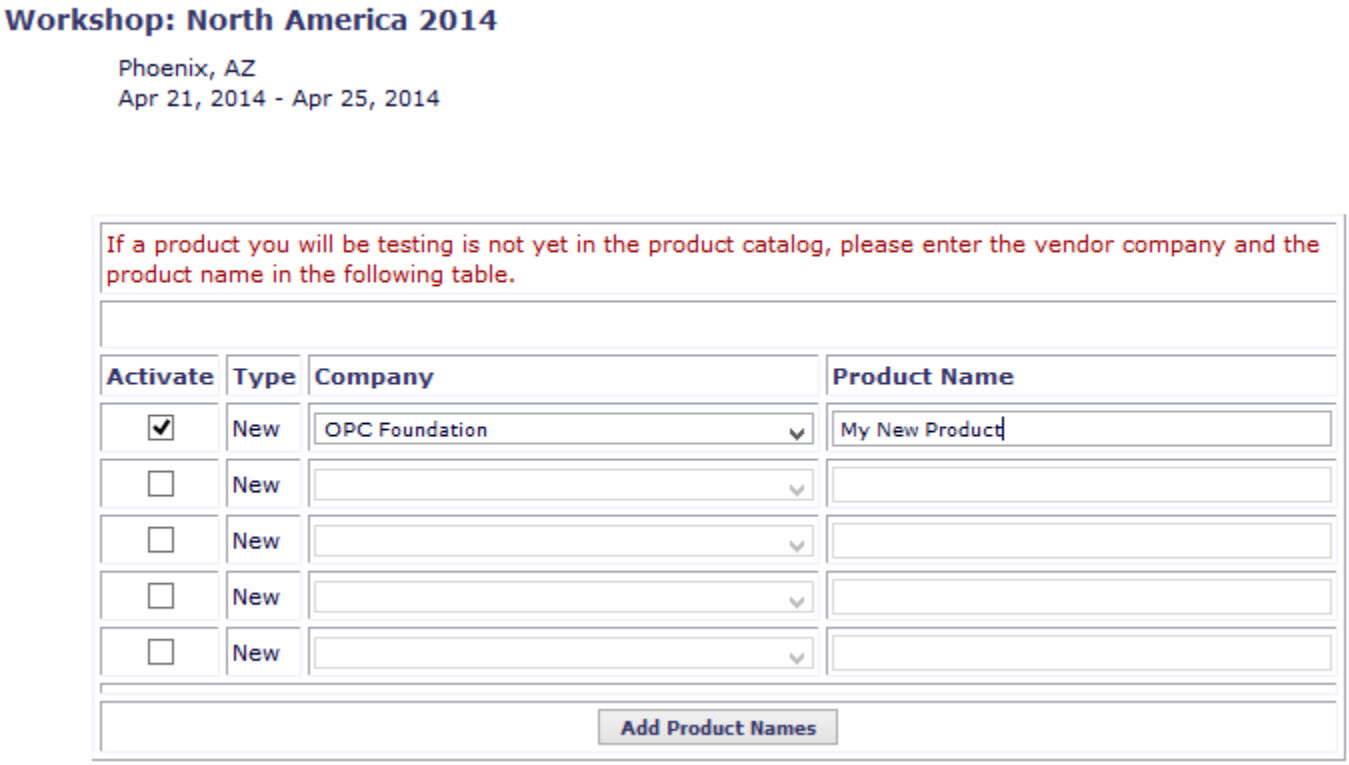
- Add Products to the IOP database
- Specify the OPC interfaces supported (e.g. UA, DA, A&E, HDA, XMLDA etc.) and if a Server or Client.

5.2.1 Adding Products to the Catalog

If you have a new product to add to the catalog then simply click the "click here" link at the bottom of the screen:



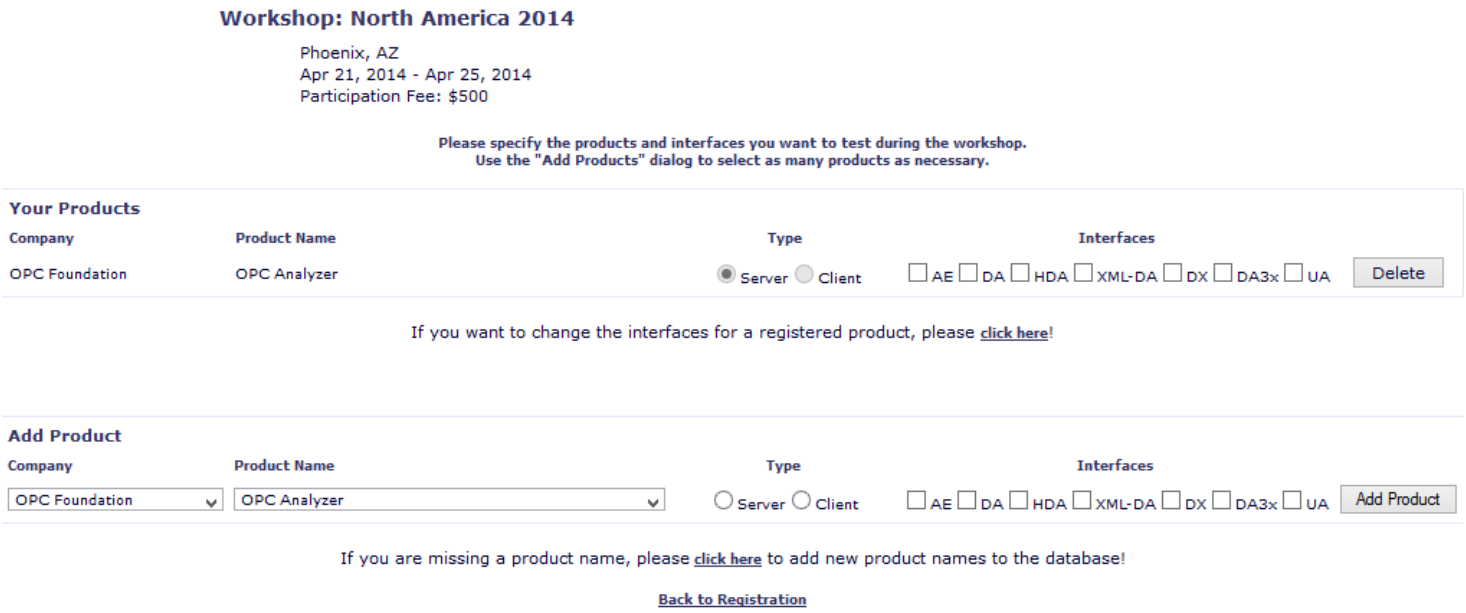
In the following screen you can specify the new product's name and activate (make it available for use) it:



You can add up to 5 products in this screen. Simply enter their names first, check the box to "Activate" for each, and then click the "Add Product Names" button.

5.2.2 Adding a Product to the Test List

Products that will be tested must be specified in this screen. Products already registered for testing are shown at the top of the screen, which can be removed by clicking the "Delete" button.



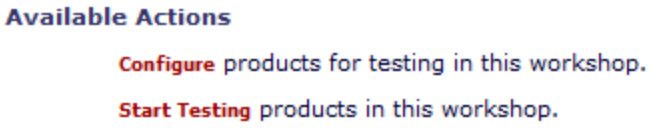
Choose the product from the list in the "Add Product" section; specify if it will be tested as client or server and which interfaces will be tested. If both client and server will be tested for the same product, two product lines have to be used.

Also note, that the same product can be registered by more than one person (e.g., one will be testing DataAccess, the other one Alarm&Event).

Once added, your products are visible to other users and to the Workshop Organization Committee. You are free to change your registration information (additional products, interfaces) via the "***View / Change***" Products link:

6 Testing

This tab is available once you have logged in. This is where you will configure the technical capabilities of your products and conduct the testing:

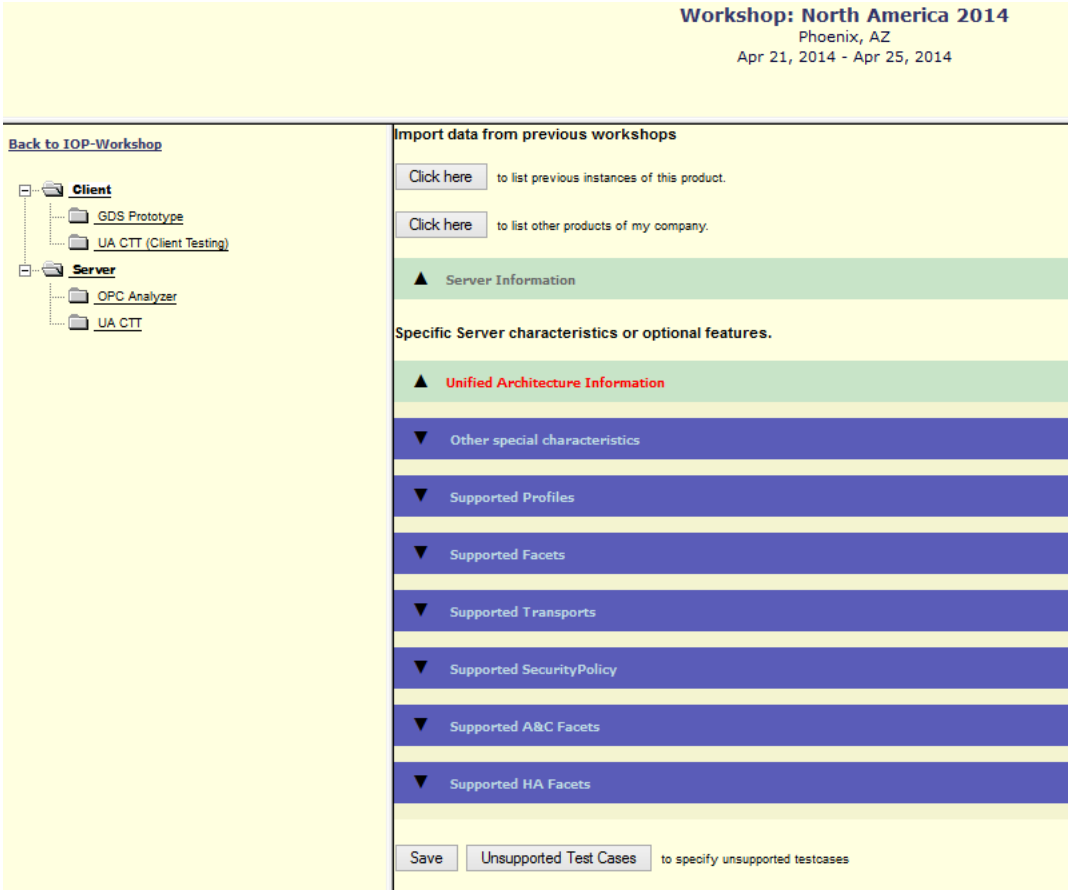


Each of these options are covered in the following sub-sections.

6.1 Product Configuration

The "Configure" link in the "Testing" tab brings you to the product configuration screen where you will specify:

- The name and version of the application, and if the product is ready for testing
- The name of the computer where the product is installed; needed for other people to connect to.
- Technical features that are supported.

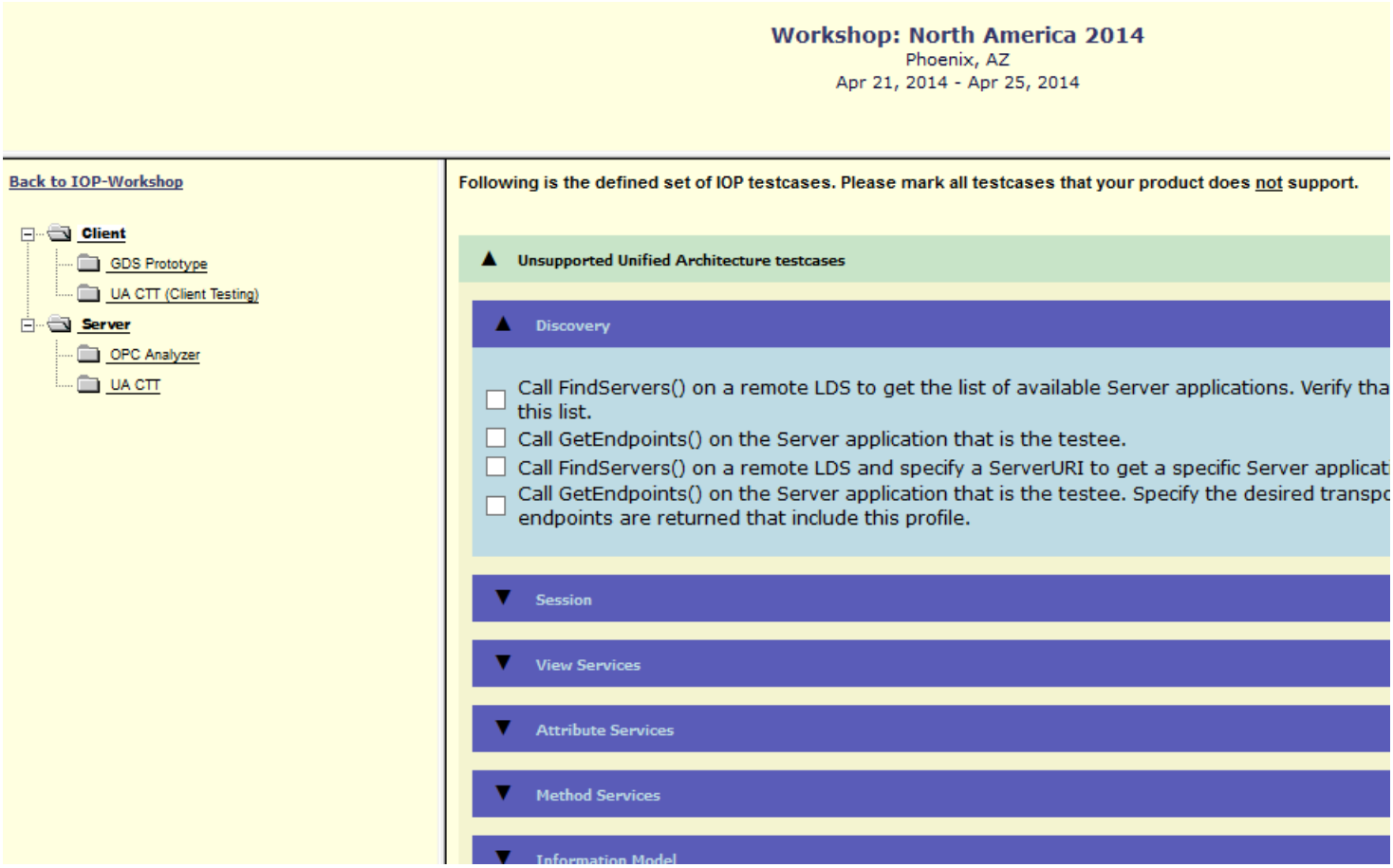


All information stored here is available to all other IOP workshop participants.

6.1.1 Deactivating Test Cases

It is possible that some of the IOP test-cases do not apply to your product. Removing test-cases will remove them from the screen of the person feeding-back test results.

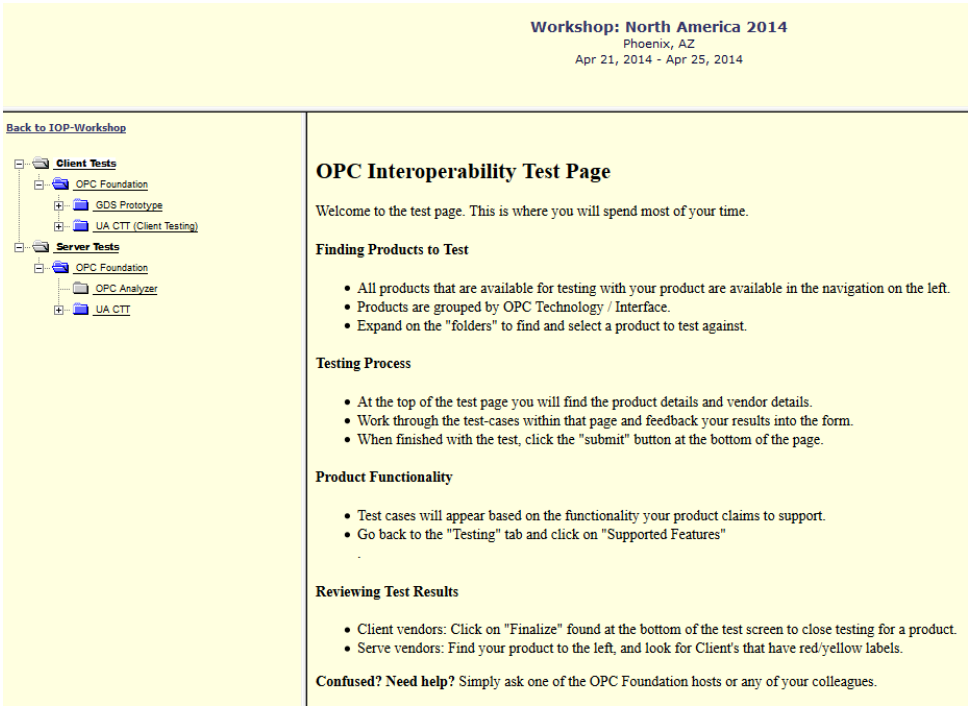
Click on the "Unsupported Test Cases" button to specify which test-cases should be removed from the test-plan, by checking the applicable boxes:



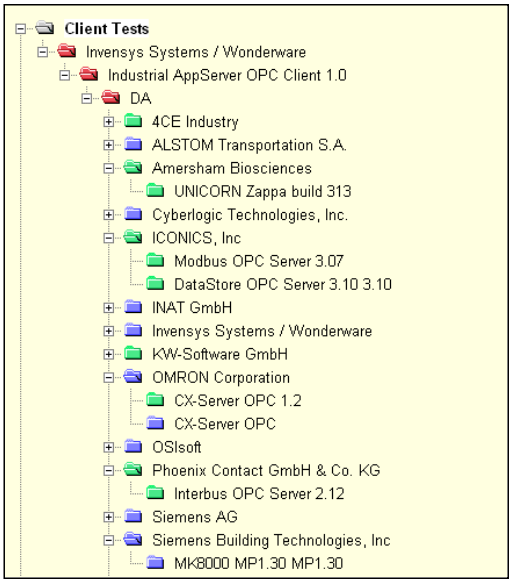
Click "Save & Return" to commit your changes. You can revisit this screen any time.

6.2 Test Results Feedback (Start Test)

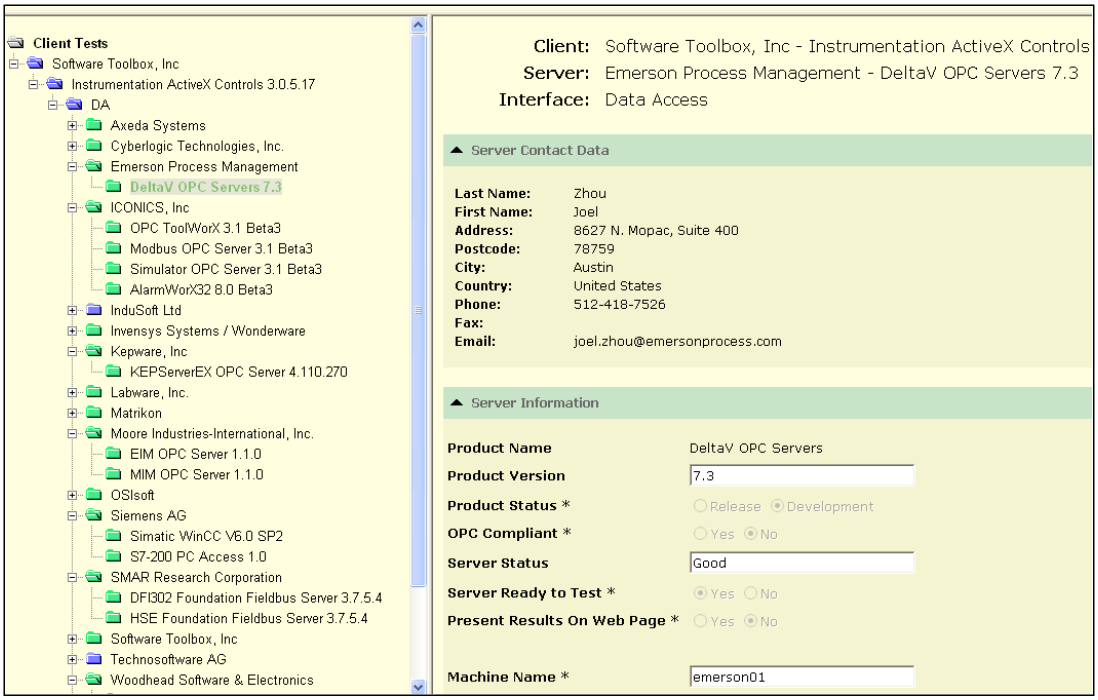
Click the "Start Testing" link in the "Testing" tab to enter the test console:



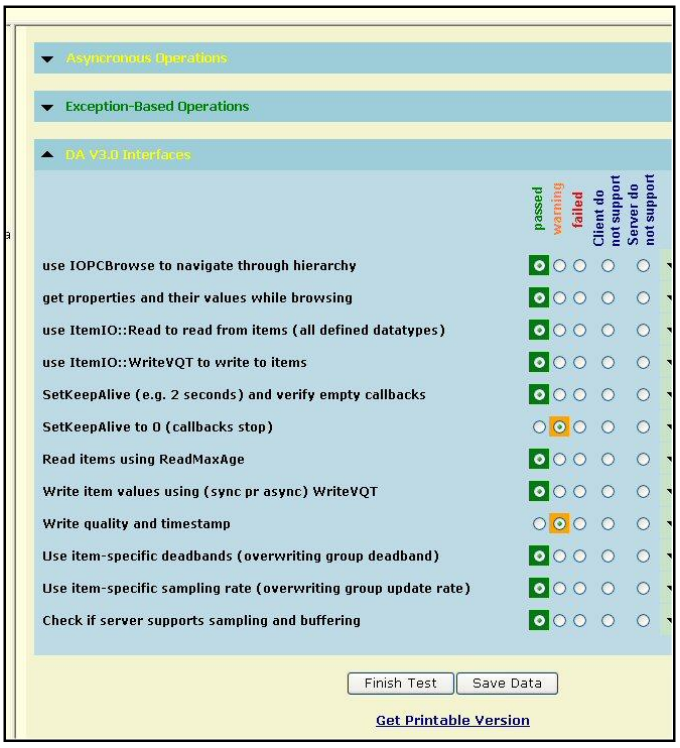
Your products are displayed in the left-pane. Expanding the product will reveal the other products that are available to test interoperability with:



Clicking on a product will go to the test details page, visible in the right-pane:



Test cases are first grouped by interface and then sub-divided into sections:



Frequent use of ***Save Data*** is recommended to avoid loss of data.

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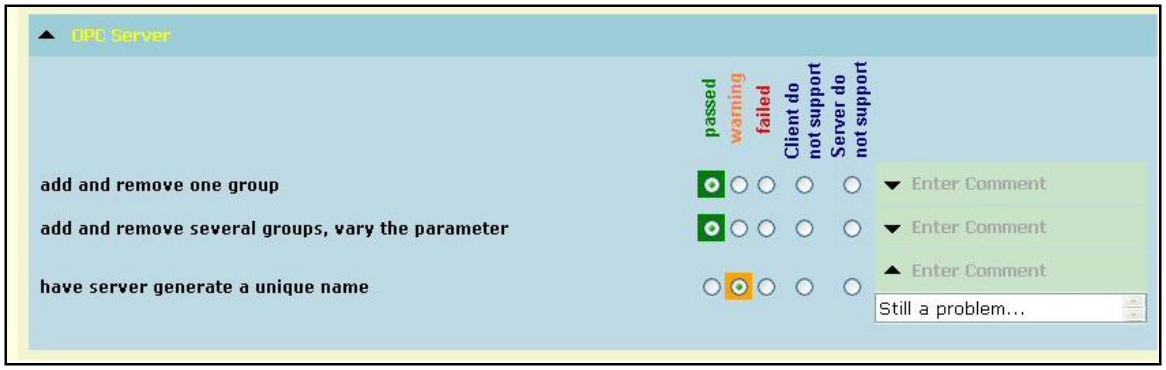
6.2.1 Finishing Tests

Client vendors must click the ***Finish Test*** button to mark as complete in the database. Test results will be visible to the Server vendor only after either ***Save Data*** or ***Finish Test*** has been executed by the client (see below).

Clients should make use of comments as much as possible when they find errors or strange behavior. This will allow servers to detect and possibly fix problems. On request of the server vendor clients should repeat tests and eventually change a result if the server was able to fix the problem.

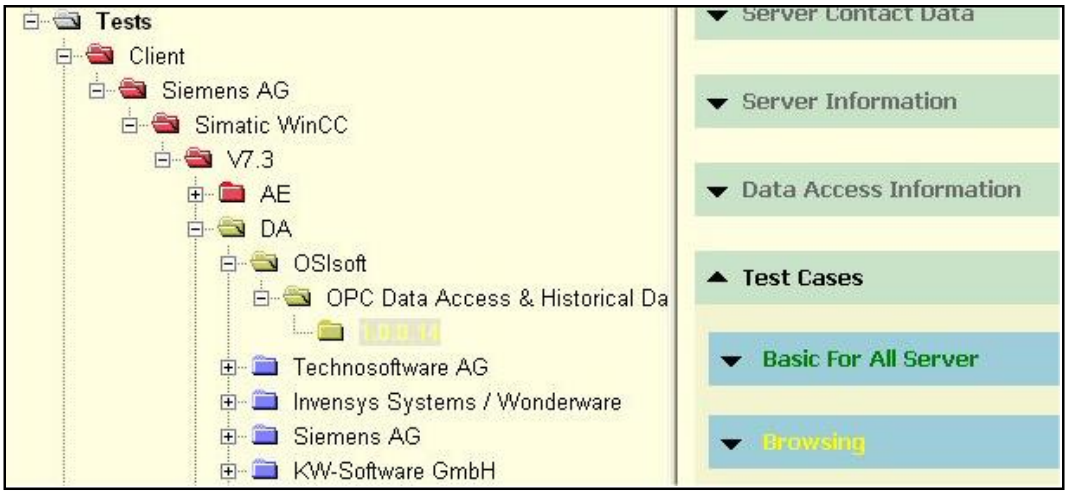


Once a test has been declared "finished" by the client, the server vendor can "accept" it to mark it unchangeable. After the result has been accepted by the server vendor it cannot be opened again (except by the administrator).

Client and server vendors are encouraged to discuss any issues with each other and other workshop participants.

6.2.2 Current Test Status (in tree)

Information is available in the tree to recognize the state of testing:

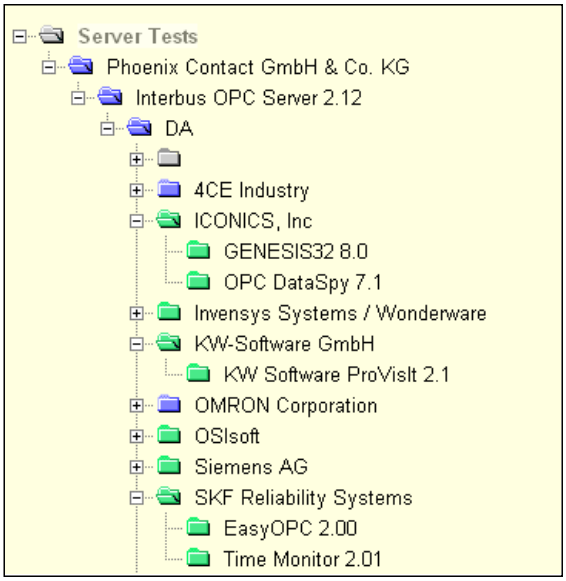


Colors represented mean:

- **Red**: if any of the tests failed
- **Yellow**: some warnings are present, but no errors.
- **Green**: if all possible tests passed, without warning or error.
- Blue: is used for servers that have not yet been started.

6.3 Viewing/Confirming Test Results

The Test-Management application creates a server tree for each interface of all potential clients:

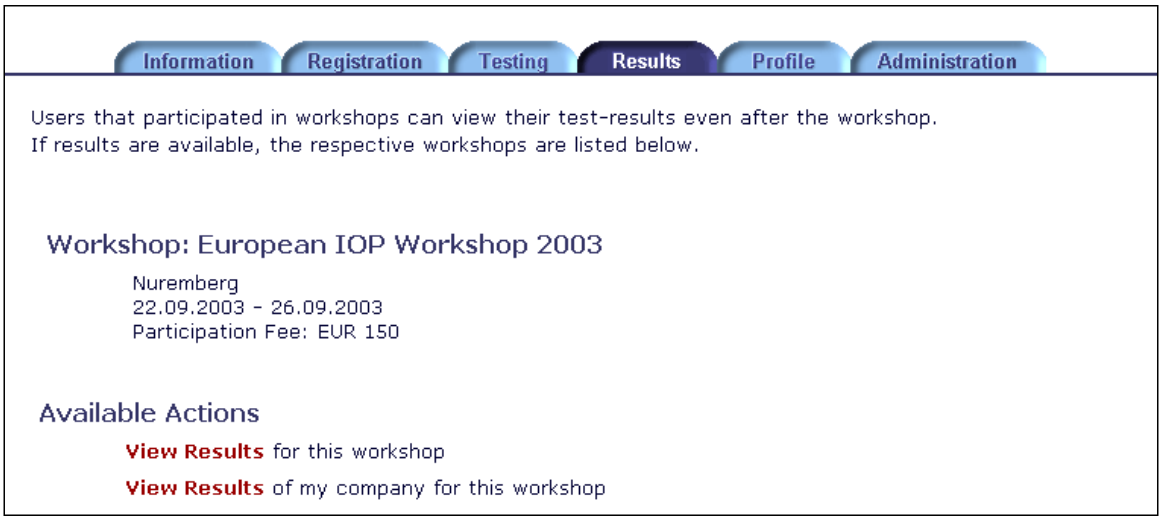


Selecting one of the clients will open the test page in the right frame. The server can only view results that have been saved or completed.

Once a test page is marked completed and the server vendor accepts the results then it becomes read-only.

7 Viewing / Printing Results

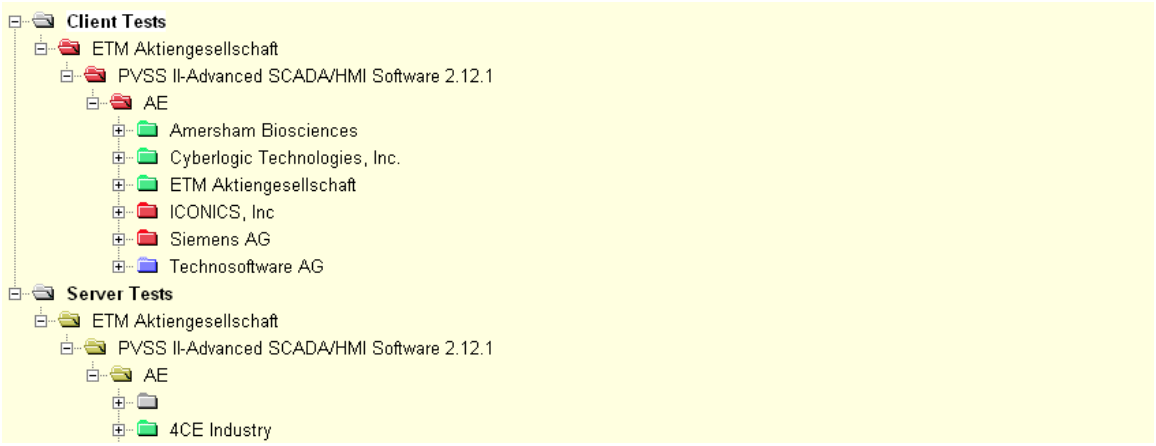
The Results page shows all workshops attended by current user and/or company:



View My Results allows viewing the test results for the user that is currently logged in.

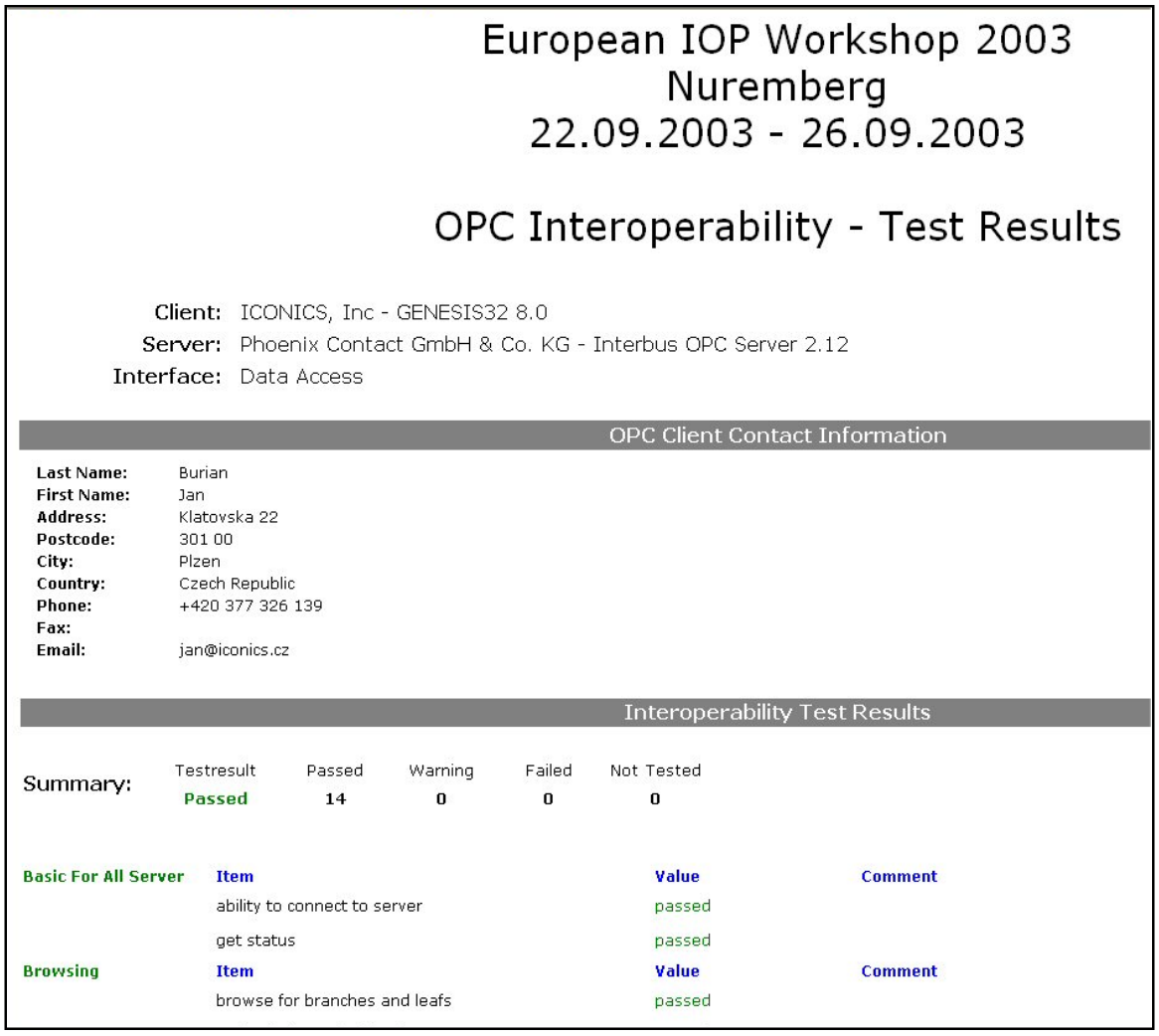
View Results of <company> allows viewing results of all products of the user's company that have been tested.

Clicking any of the actions will create a new page with all test combinations just as they were shown during testing.



To select a result, click any of the products.

The format of the Test Result pages is optimized for printing. However, they can also be saved and imported into MS-Word. The following screen-shot is a subset of the complete result information:



European IOP Workshop 2003
Nuremberg
22.09.2003 - 26.09.2003

OPC Interoperability - Test Results

Client: ICONICS, Inc - GENESIS32 8.0
Server: Phoenix Contact GmbH & Co. KG - Interbus OPC Server 2.12
Interface: Data Access

OPC Client Contact Information

Last Name:	Burian
First Name:	Jan
Address:	Klatovska 22
Postcode:	301 00
City:	Plzen
Country:	Czech Republic
Phone:	+420 377 326 139
Fax:	
Email:	jan@iconics.cz

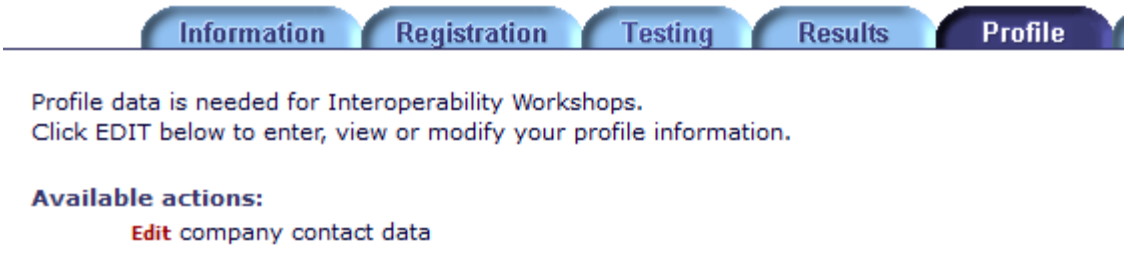
Interoperability Test Results

Summary:	Testresult	Passed	Warning	Failed	Not Tested
	Passed	14	0	0	0

	Item	Value	Comment
Basic For All Server	ability to connect to server	passed	
	get status	passed	
Browsing	Item	Value	Comment
	browse for branches and leafs	passed	

8 Profile

Every login has a profile. In this section you can modify your contact details:



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Revision History

Version	Date	Author	Change
1	2004	OPC	Initial version.
2	Mar-5-2014	NP	Revised document to match the new version of IOP app. Reformatted for new Template.
3	May-8-2015	NP	Removed "Creating an Account" and modified "Logging in" section because behavior now controlled by OPCF website. Removed "Registration" instructions because users now register via the OPCF website.

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