C16996_10/ISB – Prototyp HERMES5 SharePoint

Artifacts & Deployment Instructions to Hermes H5 SharePoint 2013 Prototype

Author: Gianni Zanetti, Voltar Systems GmbH (zanetti@voltar.ch)

History of this Document

Date	Comment	Author
23.4.2014	Initial version	Gianni Zanetti
1.6.2014	Smoke Test and purpose specified	Gianni Zanetti
13.7.2014	Chapter "Overview of the provided Files" added.	Cornel Studach
15.7.2014	Document Review Developer	Gianni Zanetti
25.7.2014	Shutdown Time Limit - adapt in Central Admin Application Pool	Gianni Zanetti
28.7.2014	Minor corrections	Cornel Studach
28.7.2014	Step 3 File name corrected	Gianni Zanetti
29.7.2014	Section "Smoke Tests": File name corrected	Cornel Studach

Purpose of Document

To give precise step by step instructions how to deploy the existing Hermes H5 SharePoint 2013 Pilot platform

Target Audience: SharePoint Administrators., SharePoint Architects with experience in Client-Sided Scripting (CSOM Client Side Object Model

Overview of the provided Files

1. Project "Vorlagen_WP"

   (Vorlagen_WP.sln as Visual Studio Source Content plus Metadata)

2. Project "Rollenzuteilung_WP"

   Rollenzuteilung_WP.sln, was Visual Studio Source Content plus Metadata)

3. Project: "HERMES5_Projektvorlage.WSP"

   (This is a file in "CAB" format that can be renamed with the extension".CAB" and then can be unzipped using 7-Zip). The WSP file can be directly imported into Visual Studio.

   The development enviroment that can be used to develop and maintain this project is available on http://collaboration-dev.hermes5-online.ch. The development was done directly on the web platform. The last version was extracted from there as package.

The Hermes 5 Portal is located on the SharePoint 2013 Server (collaboration.hermes5-online.ch) as "Publishing Portal Site" (templating is not supported by Microsoft). An existing portal has to be complemented with the content of the file "Portal-SiteAssets.ZIP" in order to activate Hermes5 Projektvorlage.

As alternative option – if deployed to an environment running on SharePoint Foundation Edition only, there exists the file

4. Project "HERMES5_PROJEKTPORTAL.WSP"

This solution package is used to make a start site using SharePoint Foundation Edition (without SharePoint Enterprise Edition). Projects can be added to the start site as sub-sites.

Step 1: Web Parts

Install the following two web parts to the target farm (or WebApplication)

File "Vorlagen_WP.WSP"

File "Rollenzuteilung_WP.WSP"

```
Example:
Add-SPSolution -LiteralPath Vorlagen_WP.WSP
Install-SPSolution -Identity Vorlagen_WP.WSP -GACDeployment
```

Step 2: Web Solution Package for Project Portal

File "Hermes5_Projektportal.WSP"

1. Action: Install "Hermes5_Projektportal.WSP" into the solution catalogue of the target farm (gets activated automatically when upload to the solution catalogue)

2. Action: Create a new Site Collection using the given solution "Hermes5_Projektportal.WSP" as the root site

Step 3: Web Solution Package for Hermes5 Sharepoint 2013

File "HERMES5_Projektvorlage.WSP"

Hint: This file serves as Site Template for the Hermes5 projects.

It contains in the current version the Feature ID {6c0638dc-4211-47ea-a2a4-4cfd52284afe}. This ID is referenced in the below given script to create a new Hermes5 Project Site.

In case the package (HERMES5_projektvorlage.wsp) is updated then any new feature ID of the solution would need to be applied in the JS-Script.

Action: Install this file into the solution catalogue of the project portal (gets activated automatically when upload to the solution catalogue)

Smoke Tests: Hermes5 Project Template

To test the installation, add manually a new sub-site, using the "HERMES5_Projektvorlage.WSP" as template (shows up in Custom Templates)

Once this new template can be successfully applied to create a new sub-site, inspect the following points to verify successful installation

1. Complete sub-Site is created

2. Document Templates are in place

3. Role List is in place and can be edited

4. Result List is in place and can be edited

5. Task List is in place and can be edited

Option Publishing Portal Site

Hint: Creating a Publishing Portal Site thru use of a site template is currently not supported by Microsoft. The following steps can be used in such a case

In case you want to use a publishing portals site, as the root of the project, then manually apply the following files and actions

Action: Install the following files into the existing Library "SiteAssets" (File: PORTAL-SITEASSETS.ZIP)

- Hermes5.jpg

- jquery.min

- jquery.SPServices-2013.01.min

- jquery-1.10.2

- spjs-utility.js

Load the following file to your list templates: Hermes5_Projekterstellung.STP –

1. Action: Create a new List called "Projekterstellung" from the List template Hermes5_Projekterstellung.STP

2. Action: add a scripted link to create a new project item in this list in the top or quick URLs (example:
    /_layouts/15/listform.aspx?PageType=8&ListId=*%7BF3E6FDE8%2D23F4%2D4AD8%2D8F06%2DC51B3FEF4CC5%7D*&RootFolder=&source=*https://collaboration.hermes5-online.ch*) –
    Action: Replace in the given URL the ListID with the GUID of your current implementation and the source with the URL of your root site.

3. Add /edit a script webpart in the page Lists/Projekterstellung/EditForm.aspx with the following code below

```
<script src="../../siteassets/jquery.min.js"></script>

<script>
```

```
// Blank team Site: var ProjectTemplateGUID = 'STS#0';

var ProjectTemplateGUID = '{6c0638dc-4211-47ea-a2a4-4cfd52284afe}#HERMES5_Projektvorlage';

var Projektname;

var Projektname;

var Firma; // left variable, label changed to Amt

var Abteilung;

var Auftraggeber;

var Projektleiter;

var Projektlink;

var Projektbeschreibung;

var Projektpfad;

var waitDialog='' ;

var notifyID='';

var NewWebURL;


$ (function(){

    Projektbeschreibung = $("input[title='Projektbeschreibung']").val();

    Projektname = $("input[title='Projektname']").val();

    Projektpfad =  $("input[title='Projektname']").val(); // Projektname ist jetzt eindeutig
erfasst UNIKAT, deshalb Projektname = Pfad

    Projektleiter = $("input[title='Projektleiter']").val();

    Firma = $("input[title='Amt']").val();

    Abteilung = $("input[title='Abteilung']").val();

    Auftraggeber = $("input[title='Auftraggeber']").val();

    Projektbeschreibung = $("input[title='Projektbeschreibung']").val();
});


SP.SOD.executeFunc('sp.js', 'SP.ClientContext', sharePointReady); // make sure sp.js is loaded


// Create an instance of the current context.

function sharePointReady() {

    clientContext = SP.ClientContext.get_current();

    website = clientContext.get_web();

    clientContext.load(website);

    clientContext.executeQueryAsync(onRequestSucceeded, onRequestFailed);
}
```

```
function onRequestSucceeded() {

    //alert(website.get_url());

}


function onRequestFailed(sender, args) {

    alert('Fehler bei der Verbindung zum Server : ' + args.get_message());

}


function onQuerySucceeded(sender, args) {

    waitDialog.close();

    //alert('Die Projektsite wurde erstellt: ' + this.oNewWebsite.get_title() + ' Decription:
' + this.oNewWebsite.get_description());

    // go directly to the new site

    NewWebURL= location.protocol +'//'+ location.hostname + '/' + Projektpfad;

    // alert('die neue Site ist auf ' + NewWebURL);


    // location.href=NewWebURL+ '/lists/Rollenzuteilung';

    createProjectData();

}


function onQueryFailed(sender, args) {

    waitDialog.close();

    alert('Site konnte nicht erstellt werden ' + args.get_message() + '\n'  +
args.get_stackTrace());

}


function createWebSite() {

    waitDialog = SP.UI.ModalDialog.showWaitScreenWithNoClose('Ihr Projekt wird erstellt', 'Wir
bereiten die Daten auf, die geschätzte Zeitdauer beträgt rund drei Minuten ...', 180, 480);

    var webDescription = Projektbeschreibung;

    var webLanguage = 1031;

    var webTitle = Projektname;

    var webUrl = Projektpfad;

    var webPermissions = true; // inherit Permissions

    var webTemplate =ProjectTemplateGUID;

    clientContext = SP.ClientContext.get_current();
```

```
    clientContext.set_requestTimeout(300000); // set to 5 minutes to have some reserve 180
seconds is default, not enough

    this.oWebsite = clientContext.get_web();

    var webCreateInfo = new SP.WebCreationInformation();

    webCreateInfo.set_description(webDescription);

    webCreateInfo.set_language(webLanguage);

    webCreateInfo.set_title(webTitle);

    webCreateInfo.set_url(webUrl);

    webCreateInfo.set_useSamePermissionsAsParentSite(webPermissions);

    webCreateInfo.set_webTemplate(webTemplate);

    this.oNewWebsite = this.oWebsite.get_webs().add(webCreateInfo);

    clientContext.load(this.oNewWebsite);

    clientContext.executeQueryAsync(Function.createDelegate(this, this.onQuerySucceeded),
Function.createDelegate(this, this.onQueryFailed));
}
//SP.SOD.executeFunc('core.js', 'SP.ClientContext', createWebSite);/* in some contextes
possibly required .... */


function createProjectData() {
    //alert('starting createProjectData at ' + NewWebURL);

    var clientContext = new SP.ClientContext(NewWebURL);

    //alert('newContext loaded ');

    var oList = clientContext.get_web().get_lists().getByTitle('Projektdaten');

    var itemCreateInfo = new SP.ListItemCreationInformation();

    this.oListItem = oList.addItem(itemCreateInfo);


    // use internal names
    oListItem.set_item('Title', Projektname);

    oListItem.set_item('Company', Firma);

    oListItem.set_item('ol_Department', Abteilung);

    oListItem.set_item('Auftraggeber', Auftraggeber);

    oListItem.set_item('Projektleiter', Projektleiter);

    oListItem.set_item('Projektbeschreibung', Projektbeschreibung);

    oListItem.set_item('Web_x0020_Link', NewWebURL);


    oListItem.update();

    //alert('Update done');
```

```
    clientContext.load(oListItem);


    clientContext.executeQueryAsync(Function.createDelegate(this,
this.oncreateProjectDataSucceeded), Function.createDelegate(this,
this.oncreateProjectDataFailed));

}


function oncreateProjectDataSucceeded() {

    // change the display names as needed

    //changeDisplayName();

    // redirect to new site

    var targetPage = NewWebURL + '/lists/Projektdaten';

    NewItem2(event, targetPage);

}


function oncreateProjectDataFailed(sender, args) {

    alert('Projekt-Eintrag konnte nicht erstellt werden. ' + args.get_message() + '\n' +
args.get_stackTrace());

}


function changeDisplayName() {

    /* Adapting the Display Names*/

    var ctx = new SP.ClientContext(NewWebURL);

    field = ctx.get_web()                          //SP.Web

            .get_lists()                           //SP.ListCollection

            .getByTitle('Aufgaben')                //SP.List

        .get_fields()                              //SP.FieldCollection

        .getByInternalNameOrTitle("Title");        //SP.Field

    ctx.load(field, "Title");                      //load only Title

    ctx.executeQueryAsync(function() {

        field.set_title("Aufgabe");

        field.update();

        ctx.executeQueryAsync();

    });


    field2 = ctx.get_web()                         //SP.Web

            .get_lists()                           //SP.ListCollection
```

```
            .getByTitle('Ergebnisse')                    //SP.List

        .get_fields()                         //SP.FieldCollection

        .getByInternalNameOrTitle("Title");     //SP.Field

    ctx.load(field2, "Title");                         //load only Title

    ctx.executeQueryAsync(function() {

        field2.set_title("Ergebnis");

        field2.update();

        ctx.executeQueryAsync();

    });

}

</script>

<input id="btnNewDocument" onclick="javascript:createWebSite();" type="button" value="Website
für dieses Projekt anlegen"/>
```
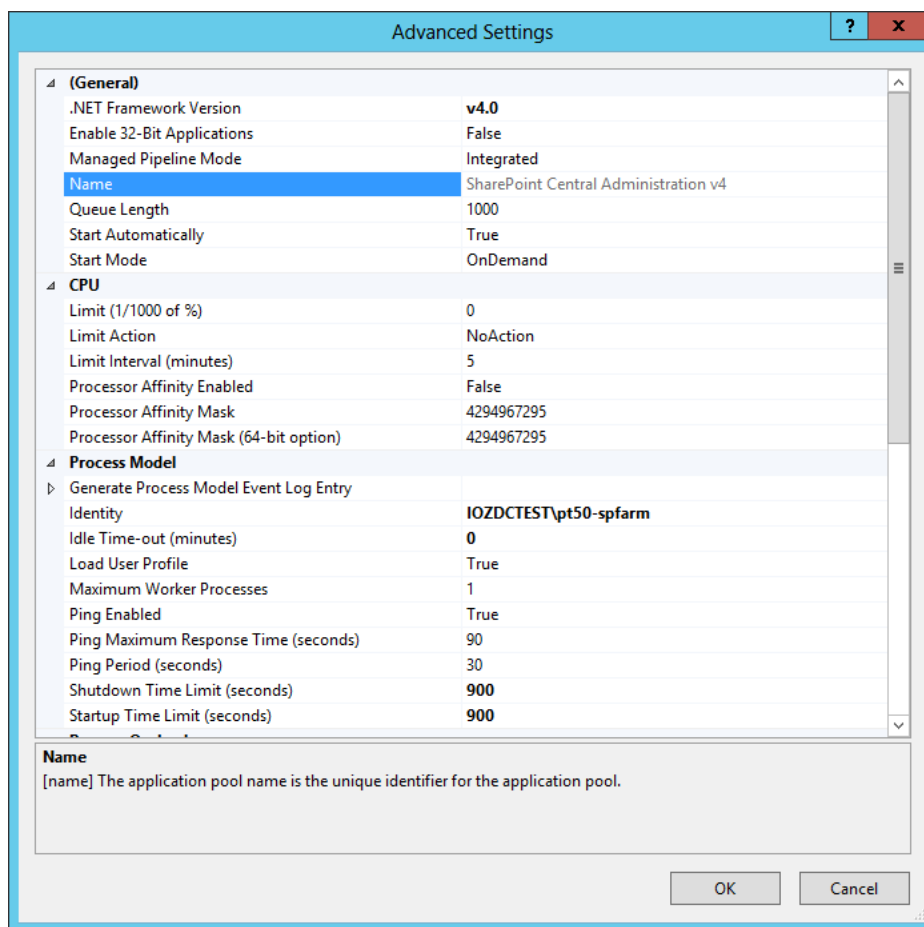
Smoke Tests after installation of Script

A new project can be created from the list "Projekterstellung"using the script button (Button with the description "*Website für dieses Projekt anlegen*")

Shutdown Time Limit - adapt in Central Admin Application Pool

Depending on Server Capacity, resource challenging and general infrastructure (SharePoint Farm) it becomes a necessity to adapt in CENTRAL ADMIN the time out level. (Shutdown Time Limit). This increase is required, should you receive a time out message while creating the project site.

To change it , open IIS MANAGER – APPLICATION POOLS – SHAREPOINT CENTRAL ADMINISTRATION POOL – ADVANCED SETTINGS. Currently on IOZ environment it is set to 900 seconds, with a modern Quad-Core Processor it might be set to 240 seconds and still have sufficient reserves.

Advanced Settings	
(General)	
.NET Framework Version	**v4.0**
Enable 32-Bit Applications	False
Managed Pipeline Mode	Integrated
Name	SharePoint Central Administration v4
Queue Length	1000
Start Automatically	True
Start Mode	OnDemand
CPU	
Limit (1/1000 of %)	0
Limit Action	NoAction
Limit Interval (minutes)	5
Processor Affinity Enabled	False
Processor Affinity Mask	4294967295
Processor Affinity Mask (64-bit option)	4294967295
Process Model	
▷ Generate Process Model Event Log Entry	
Identity	**IOZDCTEST\pt50-spfarm**
Idle Time-out (minutes)	**0**
Load User Profile	True
Maximum Worker Processes	1
Ping Enabled	True
Ping Maximum Response Time (seconds)	90
Ping Period (seconds)	30
Shutdown Time Limit (seconds)	**900**
Startup Time Limit (seconds)	**900**

Name
[name] The application pool name is the unique identifier for the application pool.

OK   Cancel

Reference: http://njbblog.blogspot.ch/2014/02/sharepoint-2013-how-to-increase.html