



seit 1558

Introducing BEXIS 2 Modularity

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BEXIS 2 as a Platform

- BEXIS is an open and modular platform for research data management

Openness

- With the release of 2.11 we open its modular power to the public
- Institutions and individuals are able to develop and deploy their own modules

Hot Plug-ability

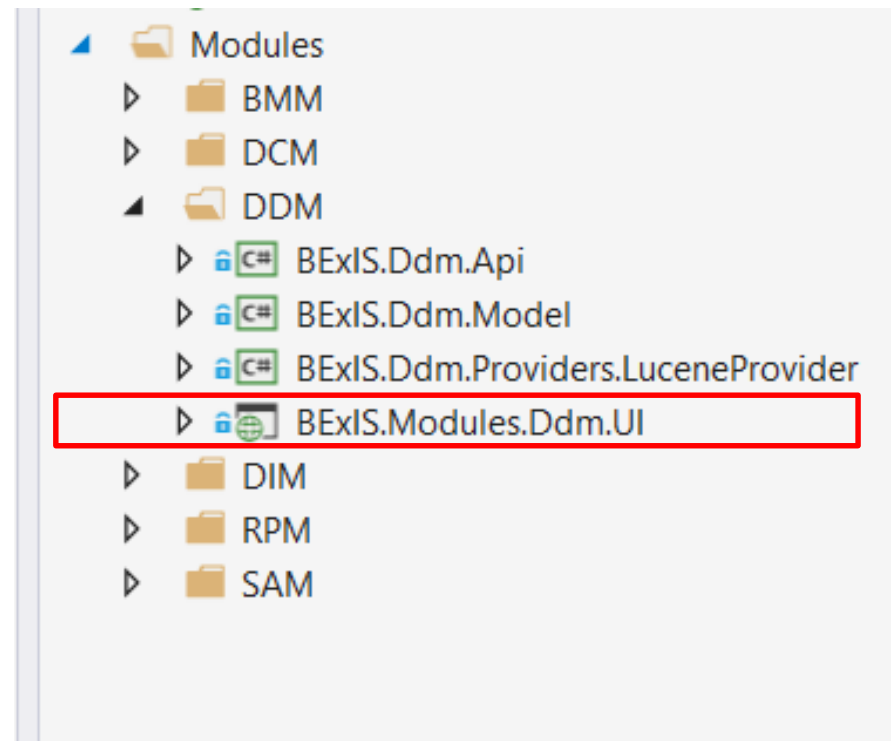
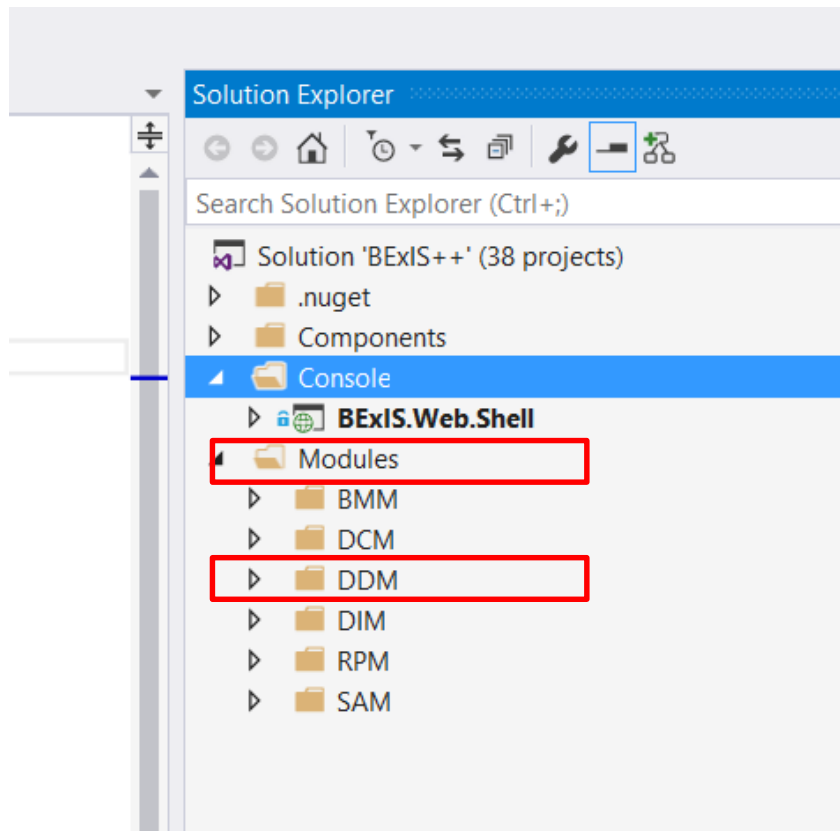
- Modules can be installed on a running BEXIS instance
- Their life cycle can be easily managed

The Simplified Procedure



- Develop
- Test
- Bundle
- Publish
- Deploy

Develop: Structure

- .NET MVC Web Application



Develop: Elements

▲   BExIS.Modules.Ddm.UI

▶   Properties

▶   References

▶   Content



▶   Controllers

▶   Helpers

▶   Models

  Scripts

▶   Views

  Ddm.Manifest.xml

▶   DdmModule.cs

  packages.config

▶   Web.config
java.01@uni-leipzig.de

Develop: Manifest

```
<?xml version="1.0" encoding="utf-8" ?>
<Manifest moduleId="ddm" displayName="Data Disc"
  <Description>...</Description>
  <Assemblies>...</Assemblies>
  <Dependencies>...</Dependencies>
  <Exports>
    <Export tag="settings" id="manageSearch" or
    <Export tag="menubar" id="menuSearch" order
      title="Search" description="Search
      controller="home" action="index"
      extends="./menubarRoot"
    />
    <Export tag="api" id="apiSearch"
      title="Search for Datasets" descrip
      controller="search" action="index"
      extends="./apiRoot"
    />
  </Exports>
</Manifest>
```


Develop: Lifecycle

```
public class DdmModule : ModuleBase  
{
```

0 references | Javad Chamanara, 19 days ago | 1 author, 1 change

```
public DdmModule()...
```

4 references | Javad Chamanara, 19 days ago | 1 author, 1 change

```
public override void Install()...
```

2 references | 0 changes | 0 authors, 0 changes

```
public override void Start()...
```

1 reference | 0 changes | 0 authors, 0 changes

```
public override void Shutdown()...
```

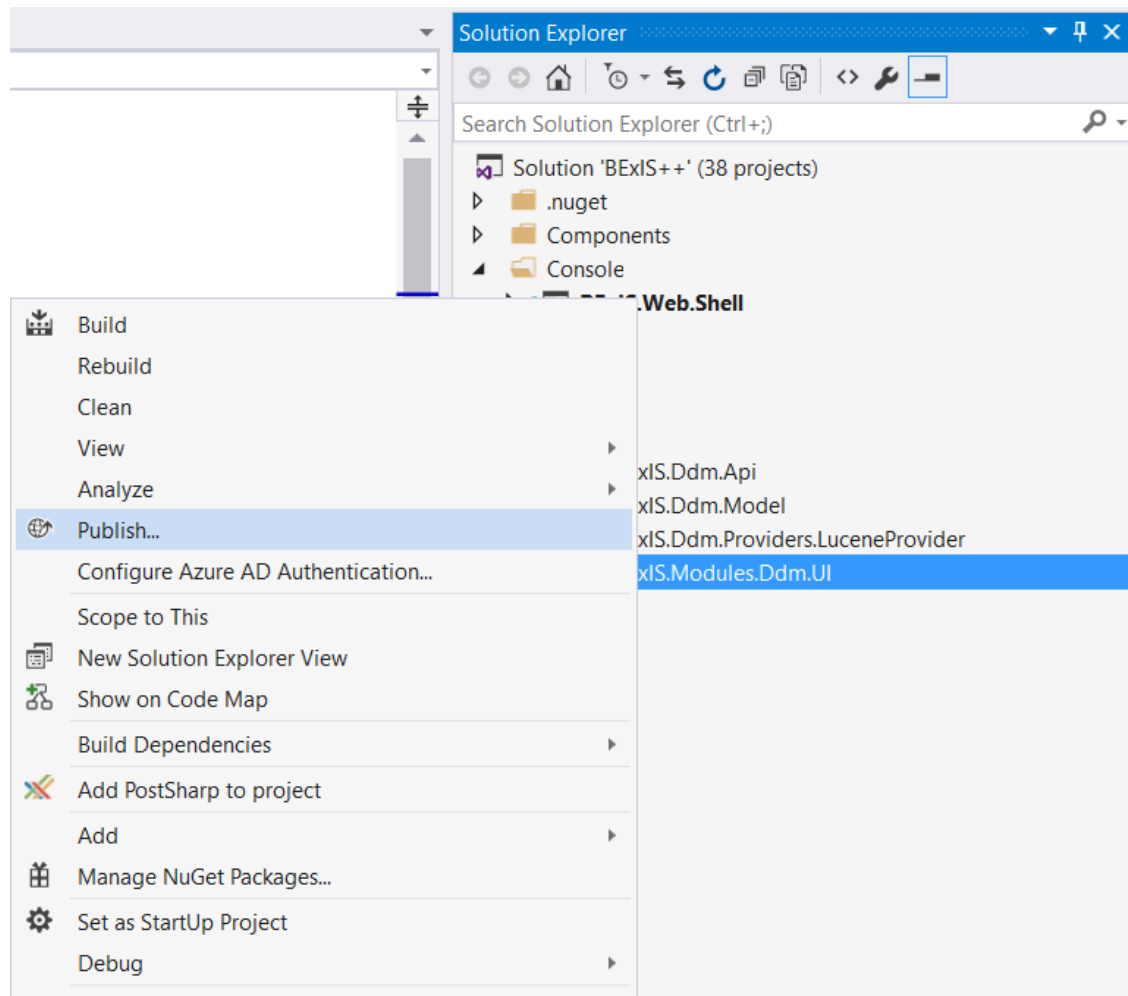
1 reference | 0 changes | 0 authors, 0 changes

```
public override void Uninstall()...
```

Test

- Build or Rebuild
- Debug as a normal application

Publish



Publish: Output

 bin

 Content

 Scripts

 Views

 Workspace


 Ddm.Manifest.xml

 Web.config

 BExIS.Ddm.Api.dll

 BExIS.Ddm.Model.dll

 BExIS.Ddm.Providers.LuceneProvider.dll

 BExIS.Modules.Ddm.UI.dll

 Lucene.Net.Contrib.Analyzers.dll









 Lucene.Net.Contrib.Highlighter.dll

 Lucene.Net.Contrib.Memory.dll

 Lucene.Net.Contrib.SimpleFacetedSearch....

 Lucene.Net.dll

Bundle

-  bin
-  Content
-  Scripts
-  Views
-  Workspace
-  Ddm.Manifest.xml
-  ddm_1.0.0.zip
-  Web.config

Deploy: Module Management



Dashboard

Collect ▾

BExIS - Modules ▾

Choose File No file chosen

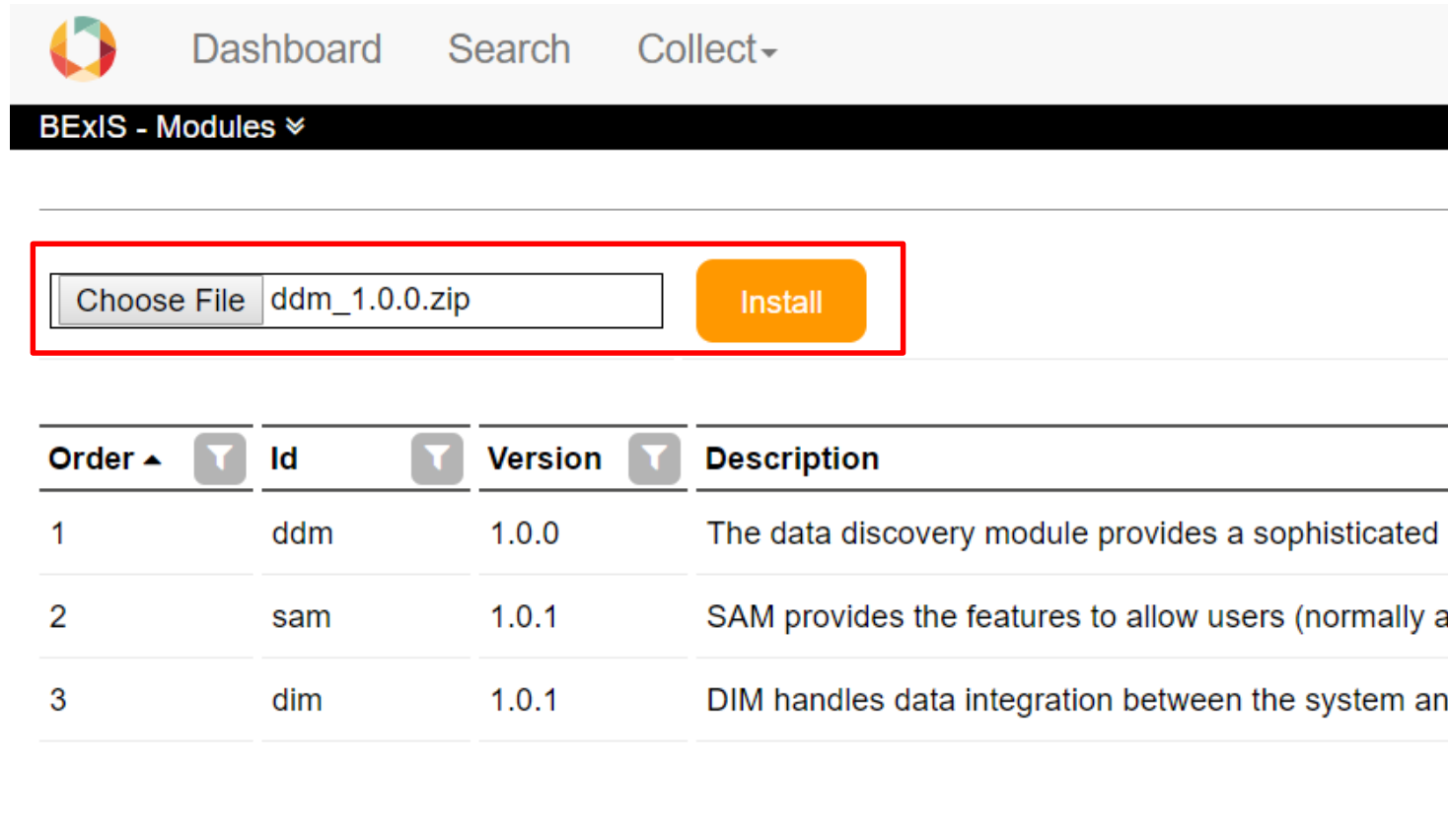
Install

Order ▲ ▾	Id ▾	Version ▾	Description
2	sam	1.0.1	SAM provides the features to allow users (normally ad
3	dim	1.0.1	DIM handles data integration between the system and

Deploy: Select Bundle

The screenshot displays a web application interface for deploying modules. At the top, there is a navigation bar with a logo on the left, followed by 'Dashboard' and 'Collect' with a dropdown arrow. Below this is a dark bar with 'BExIS - Modules' and a dropdown arrow. The main content area features a file upload section with a 'Choose File' button, a text field containing 'No file chosen', and an orange 'Install' button. Below the upload section, there is a table with an 'Order' column and rows numbered 2 and 3. A file explorer window is overlaid on the interface, showing the path 'This PC > Win (C:) > bppPublish > r'. The explorer shows a list of folders and files: 'bin', 'Content', 'Scripts', 'Views', 'Workspace', 'Ddm.Manifest.xml', 'ddm_1.0.0.zip' (which is selected), and 'Web.config'. The email address 'javad.chamanara@uni-jena.de' is visible at the bottom of the explorer window.

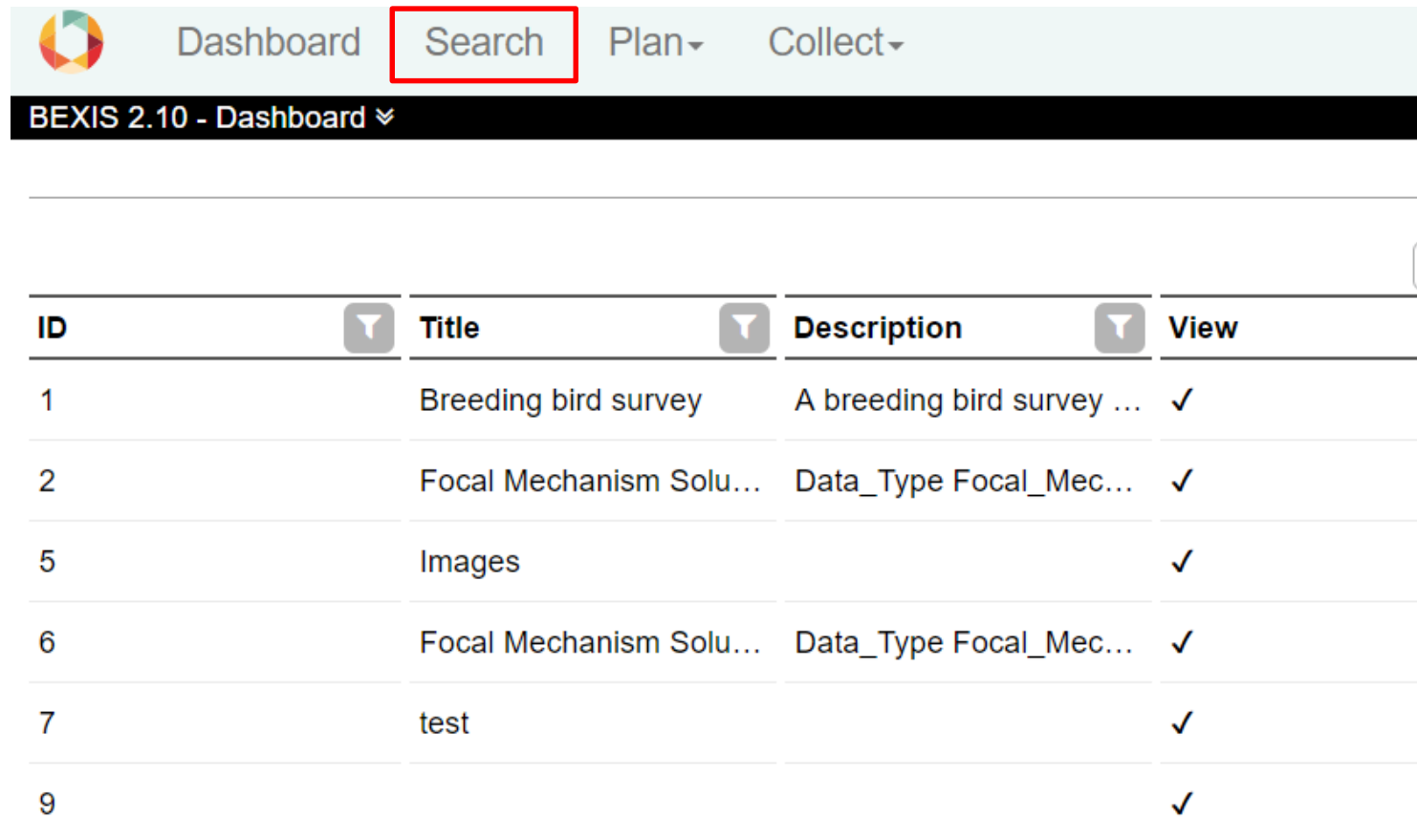
Deploy: Install Bundle



The screenshot shows the BEXIS dashboard interface. At the top, there is a navigation bar with a logo on the left and links for 'Dashboard', 'Search', and 'Collect'. Below this is a dark header with 'BEXIS - Modules'. The main content area features a file upload section with a 'Choose File' button, a text input field containing 'ddm_1.0.0.zip', and an orange 'Install' button. Below this is a table listing modules.

Order ▲	Id	Version	Description
1	ddm	1.0.0	The data discovery module provides a sophisticated s
2	sam	1.0.1	SAM provides the features to allow users (normally a
3	dim	1.0.1	DIM handles data integration between the system and

Use the Installed Module



The screenshot shows the BEXIS 2.10 interface. The navigation bar at the top includes 'Dashboard', 'Search' (highlighted with a red box), 'Plan', and 'Collect'. Below the navigation bar, the text 'BEXIS 2.10 - Dashboard' is visible. The main content area displays a table of installed modules.







ID	Title	Description	View
1	Breeding bird survey	A breeding bird survey ...	✓
2	Focal Mechanism Solu...	Data_Type Focal_Mec...	✓
5	Images		✓
6	Focal Mechanism Solu...	Data_Type Focal_Mec...	✓
7	test		✓
9			✓

Manage Installed Modules

Dashboard Search Collect ▾ Sign In ⚙

BExIS - Modules ▾

Choose File No file chosen Install

Order ▲	Id	Version	Description	Status	Is Loaded	
1	d dm	1.0.0	The data discovery module provides a	active	true	 
2	sam	1.0.1	SAM provides the features to allow us	active	true	 
3	dim	1.0.1	DIM handles data integration between	active	true	 

Displaying items 1 - 3 of 3

Displaying items 1 - 3 of 3

Thank You



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