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Installing an Asset Extension

How to export and import custom assets in CCS

Technical Field Enablement

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Introduction

This document discusses techniques for transporting Control Compliance Suite asset schema extensions between installations. For demonstration purposes, the Organizational asset extensions available in the demonstration images will be moved to a new installation.

About Schema Extensions

Control Compliance Suite supports custom asset creation through the schema manager. The schema extension process generally happens in three steps:

1. Create entity schema – This defines the metadata for the new asset(s). New assets must be associated with a user defined platform which connects related assets.
2. Create asset type – After defining the schema, this step formally registers a new asset type that can be imported into the asset system.
3. Create target type – This optional step defines a target type so that standards module checks can be created.

In the demonstration environment, a new platform called Organization was created. Using the Organization platform, three asset types were created: Company, Business Unit, Facility

Process Overview

Transporting schema extensions between installations occurs in two distinct phases. First, an existing schema must be ‘exported’ from a CCS environment and later it will be imported into another environment. The key activity that is not documented is registering the platform extension in the new environment. The export and import process can be summarized as follows:

Schema Export

1. Use csmconfig to gather component registration information
2. Create platform component registration file
3. Gather entity schema files

Schema Import

1. Copy entity schema files

2. Register platform component using csmconfig
3. Add asset and target types corresponding to schema extensions

Create a component registration file

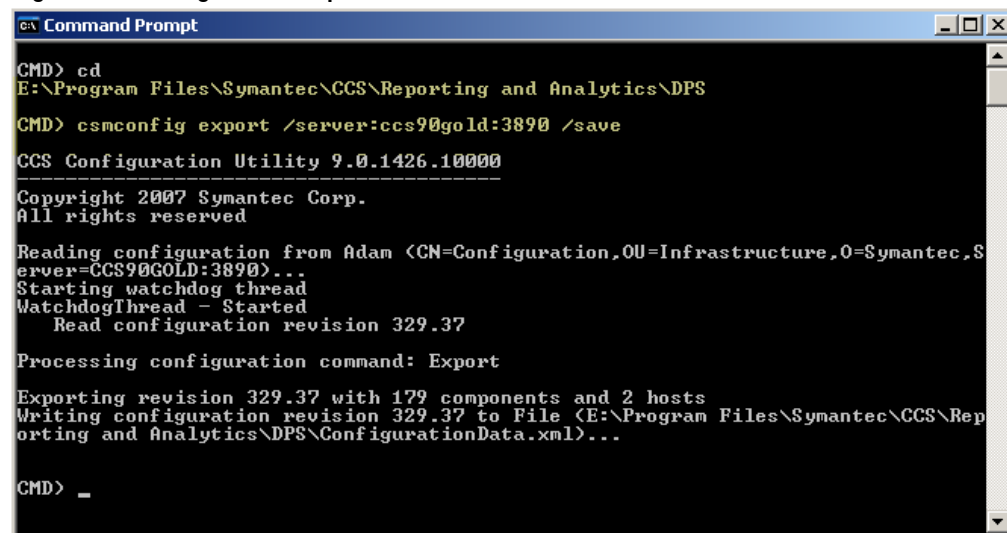
To make schema extensions portable, a platform registration file is required for the custom platform. In the context of CCS this registration file is typically referred to as a 'component registration file'. The steps for creating a registration file are not automated. You will use a command line tool called CSMCONFIG to export configuration information into an XML file from the source environment. You will then extract a portion of the configuration file and create a new registration file using that information.

Export current configuration

The CSMCONFIG utility is installed in the DPS software directory. In the source environment:

1. Logon to a desktop session on one of the DPS servers
2. Start a command prompt
3. Change directory to *<Program Files>\Symantec\CCS\Reporting and Analytics\DPS*
4. Execute the command: `csmconfig export /server=<directory server>:3890 /save`
5. Configuration information will be saved to an XML file called ConfigurationData.xml in the DPS directory (*<Program Files>\Symantec\CCS\Reporting and Analytics\DPS*)

Figure 1 – Configuration Export



```

C:\ Command Prompt

CMD> cd
E:\Program Files\Symantec\CCS\Reporting and Analytics\DPS

CMD> csmconfig export /server:ccs90gold:3890 /save

CCS Configuration Utility 9.0.1426.10000
-----
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Reading configuration from Adam (CN=Configuration,OU=Infrastructure,O=Symantec,S
erver=CCS90GOLD:3890)...
Starting watchdog thread
WatchdogThread - Started
Read configuration revision 329.37

Processing configuration command: Export

Exporting revision 329.37 with 179 components and 2 hosts
Writing configuration revision 329.37 to File (E:\Program Files\Symantec\CCS\Rep
orting and Analytics\DPS\ConfigurationData.xml)...

CMD> _
  
```

Create registration file

1. Using a text or XML editor, create a new file called
 <platform>.Component.Registration.xml
2. Insert the text contents of [Table 1](#) into the new file
3. Using a text or XML editor, open the ConfigurationData.xml created in the prior step
4. Search for the extended platform in ConfigurationData.xml
5. There should be two XML <Component> stanzas in sequence corresponding to the platform (see [Figure 2 – Platform definition in ConfigurationData.xml](#))
6. Copy these two XML stanzas into <platform>.Component.Registration.xml in the designated insert area (see [Figure 3 – Sample <platform>.Component.Registration.xml](#))
7. Save your changes to <platform>.Component.Registration.xml

Table 1 – Platform Registration Wrapper

```

<?xml version="1.0" encoding="utf-8"?>
<Symantec>
  <Registration>
    <Declarations>
      <Components>
  
```

```

<!-- Insert Component information from ConfigurationData.xml --
>

</Components>
</Declarations>
</Registration>
</Symantec>

```

Figure 2 – Platform definition in ConfigurationData.xml

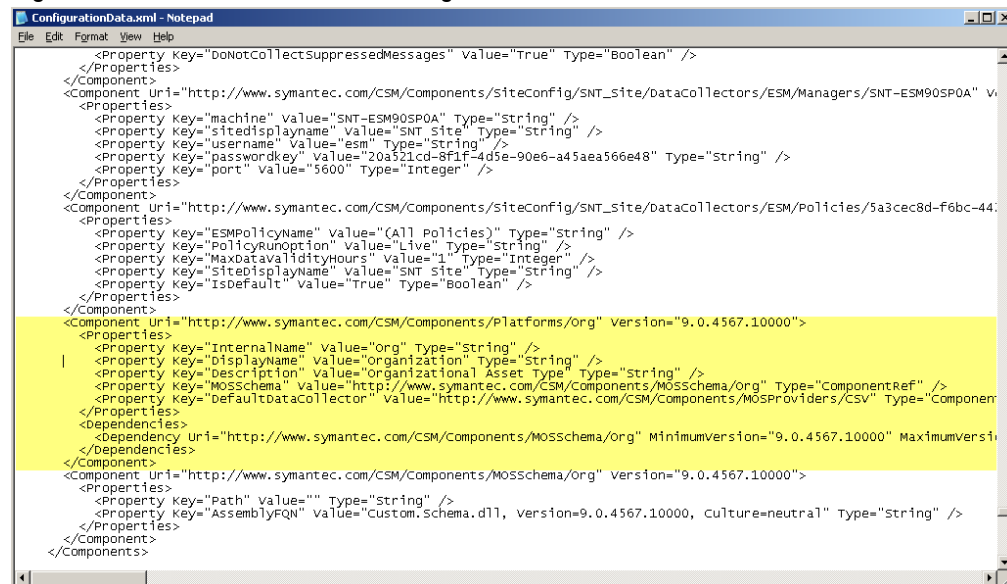
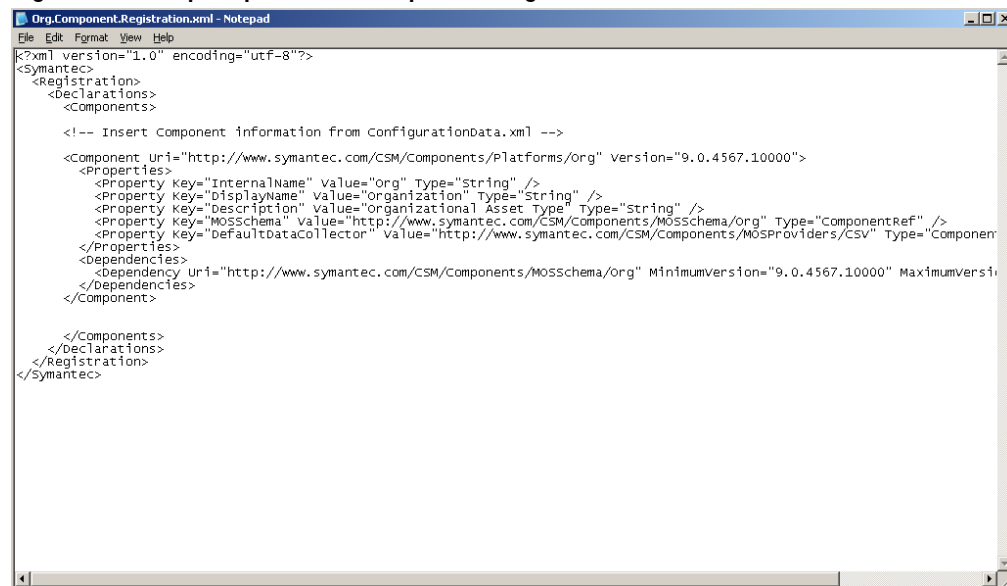


Figure 3 – Sample <platform>.Component.Registration.xml



Bundling the schema extension

After you have created the registration file, the last step is to copy the registration file and entity schemas from the source environment. For each asset entity that you have defined there are two files ending in EntitySchema.xml. There is also one entity schema for the platform. The location of these files was chosen when you created the entities. If you fully configured and tested these extensions, then a copy should be available in the DPS directory where you created the ConfigurationData.xml file.

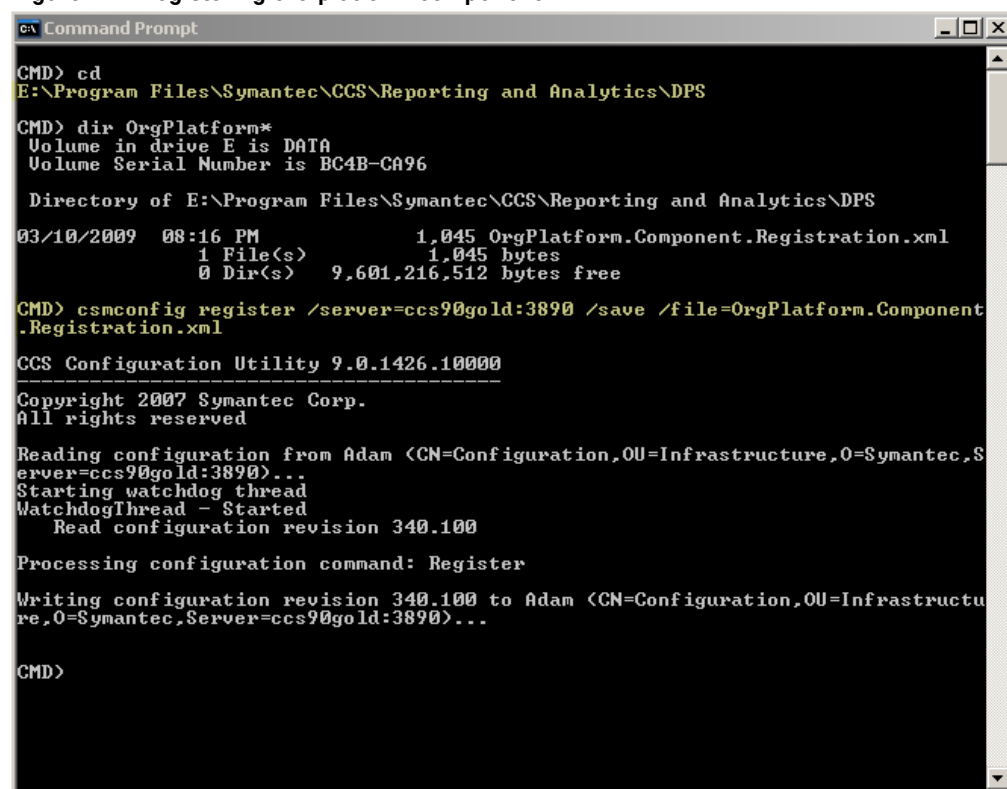
Installing the schema extension in the target environment

The steps for installing the schema extension in the target environment are the following:

1. Copy the schema extension files into the target environment as if you had created the schema locally
 - a. Application Server: <Program Files>\Symantec\CCS\Reporting and Analytics
 - b. Application Server: <Program Files>\Symantec\CCS\Reporting and Analytics\Application Server
 - c. Each DPS: <Program Files>\Symantec\CCS\Reporting and Analytics\DPS

2. Register the new platform (see [Figure 4 - Registering the platform component](#))
 - a. Login to one of the DPS servers
 - b. Open a command prompt
 - c. Change directory to <Program Files>\Symantec\CCS\Reporting and Analytics\DPS
 - d. Execute the command: `csmconfig register /server=<directory server>:3890 /save /file=<platform>.Component.Registration.xml`
3. Restart services
4. Add asset and target types using the Schema Manager (**CCS Console > Settings > Schema Manager**). Refer the [CCS User Guide](#) page 346 for more information regarding adding assets and target types.

Figure 4 - Registering the platform component



```

C:\ Command Prompt

CMD> cd
E:\Program Files\Symantec\CCS\Reporting and Analytics\DPS

CMD> dir OrgPlatform*
Volume in drive E is DATA
Volume Serial Number is BC4B-CA96

Directory of E:\Program Files\Symantec\CCS\Reporting and Analytics\DPS

03/10/2009  08:16 PM                1,045 OrgPlatform.Component.Registration.xml
               1 File(s)                  1,045 bytes
               0 Dir(s)  9,601,216,512 bytes free

CMD> csmconfig register /server=ccs90gold:3890 /save /file=OrgPlatform.Component
.Registration.xml

CCS Configuration Utility 9.0.1426.10000
-----
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Reading configuration from Adam <CN=Configuration,OU=Infrastructure,O=Symantec,S
erver=ccs90gold:3890>...
Starting watchdog thread
WatchdogThread - Started
  Read configuration revision 340.100

Processing configuration command: Register

Writing configuration revision 340.100 to Adam <CN=Configuration,OU=Infrastructu
re,O=Symantec,Server=ccs90gold:3890>...

CMD>
  
```


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