



# Exploring eaDocX - Tables

This document looks at how you can print elements in tables, where each row of the table is one element.

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Section: Section1

## 1 Table Formatting

This section looks at some techniques for printing elements in tables.

This looks good when you have a large number of elements, to print, but don't have much data about each one.

Specifically, we'll look at:

1. *Basic table formatting*
2. *Putting hyperlinks into tables*
3. *Using Word table styles for really fancy tables*
4. *Printing really big tables*

### 1.1 Some Components

This shows the basic layout of an eaDocX table.

Each row is a single element, and you can configure the column title, the shading of the title row, and the Word paragraph style it uses.

You can also configure the widths of each column, though Word can sometimes 'help' by making these a bit wider, if you put lots of text into a cell of the table.

Component	Ref	Status	Created date
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Component	Ref	Status	Created date
Component1	CMP001	Proposed	13/02/2013
Component2	CMP002	Proposed	13/02/2013
Component3	CMP003	Proposed	13/02/2013
Component4	CMP004	Proposed	13/02/2013

## 1.2 Some More Components

This table is for <<interesting>> Components, and shows how we can use Word paragraph styles. Here we use three new ones:

- **tableText** for the main cells in the table
- **tableBullet** for un-numbered bullets
- **tableNumbered** for numbered bullets

Interesting Component	Ref	Description
Component10	CMP010	
Component11	CMP011	<p>This component has a long description with also contains some bullet points</p> <ul style="list-style-type: none"> <li>• like this</li> <li>• and this</li> </ul> <p>as well as a numbered list</p> <ol style="list-style-type: none"> <li>1. like this</li> <li>2. and this.</li> </ol> <p>Each of these bullet styles can use their own Word paragraph style, which you can use to make the text a bit smaller, and with less white-space between lines. This seems to make tables look neater.</p> <p>Because this is written using the EA Rich Text editor, you can also use colours like <b>red</b> and <b>blue</b> to add emphasis to your document.</p>
Component12	CMP012	
Component13	CMP013	

## 1.3 Special Components

These components have a stereotype of <<special>>

We have created a different Profile for Components of this type, and chosen to use a Word Table style, which defines what the table looks like in a much more customizable way.

Just as with Word Paragraph styles, those customizations are done in Word: eaDocX uses them. In this case, we have

- made alternate rows shade in different colours (useful for long tables)
- column 1 bold text
- removed the borders around the table

### Advice

This enables tables to be made to look different for each kind of element and stereotype, but beware of using this too much - the idea is to make your documents easier to read, so design a small number of word table styles, and stick to them.

Special Component	Ref	Status	Description
Component23	CMP023	Proposed	
Component24	CMP024	Proposed	
Component25	CMP025	Proposed	
Component20	CMP020	Proposed	<p>This component has a long description with also contains some bullet points</p> <ul style="list-style-type: none"> <li>• like this</li> <li>• and this</li> </ul> <p>as well as a numbered list</p> <ol style="list-style-type: none"> <li>1. like this</li> <li>2. and this.</li> </ol> <p>Each of these bullet styles can use their own Word paragraph style, which you can use to make the text a bit smaller, and with less white-space between lines. This seems to make tables look neater.</p> <p>Because this is written using the EA Rich Text editor, you can also use colours like <b>red</b> and <b>blue</b> to add emphasis to your document.</p>
Component21	CMP021	Proposed	
Component22	CMP022	Proposed	

## 1.4 Hyperlinked Components

This small table of components shows how you can also add hyperlinks into tables. Here, each <<connected>> Component has been connected to a <<system>> Component.

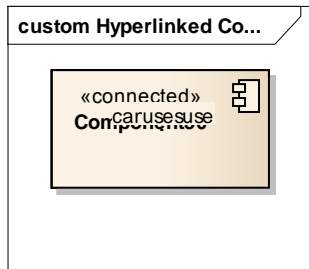


Figure 1-1 : Hyperlinked Components

Connected Component	Ref	connected to
Component30		<a href="#">Component33</a> , <a href="#">Component34</a>
Component31		<a href="#">Component36</a>
Component32		

### 1.4.1 System Components

In the table above, we can see which <<connected>> Components connect to which <<system>> Components, but we have lost the detail of the name of the association between them.

So in this section, we print the <<system>> Components Inline, and for each one create table of the <<connected>> component to which it is related.

eaDocX calls these '**Relationship Tables**', as there is one row for each related element. You can be very specific about exactly which relationships you want to show. You can specify the relationship type and stereotype, the direction of the relationship, as well as the element type and stereotype of the element at the other end of the connection.

#### 1.4.1.1 CMP033 - Component33

**Ref:** CMP033

**Stereotype:** system

##### 1.4.1.1.1 Related Component details

Relationship type	Relationship name	Related Element type	Related Element stereotype	Related Component
Association	uses	Component	connected	<a href="#">Component30</a>

#### 1.4.1.2 CMP034 - Component34

**Ref:** CMP034

**Stereotype:** system

#### 1.4.1.2.1 Related Component details

Relationship type	Relationship name	Related Element type	Related Element stereotype	Related Component
Association	cannot use	Component	connected	<a href="#">Component30</a>

#### 1.4.1.3 CMP035 - Component35

**Ref:** CMP035

**Stereotype:** system

#### 1.4.1.4 CMP036 - Component36

**Ref:** CMP036

**Stereotype:** system

##### 1.4.1.4.1 Related Component details

Relationship type	Relationship name	Related Element type	Related Element stereotype	Related Component
Association	uses	Component	connected	<a href="#">Component31</a>

## 1.5 Mixed Package

This package has a mixture of all the different types of Component which were used above.

It shows how each Component is printed in the same style as was used above.

Notice how eaDocX groups-together stereotypes which are printing in the same way, and puts them into one table, no matter where they are in the Package.

### Advice

Creating different styles of printing for several different stereotypes of an element is quite normal in large models, so to avoid document looking like this, you might consider putting each different stereotype of Component into its own EA Package.

Component	Ref	Status	Created date
Component40	CMP040	Proposed	13/02/2013
Component41	CMP041	Proposed	13/02/2013
Component42	CMP042	Proposed	13/02/2013
Component47	CMP047	Proposed	13/02/2013
Component48	CMP048	Proposed	13/02/2013
Component49	CMP049	Proposed	13/02/2013

Special Component	Ref	Status	Description
Component43	CMP043	Proposed	Description of Component43
Component51	CMP051	Proposed	Description of Component51

Connected Component	Ref	connected to
Component46	CMP046	
Component50	CMP050	

### 1.5.1 CMP044 - Component44

**Ref:** CMP044

**Stereotype:** system

### 1.5.2 CMP045 - Component45

**Ref:** CMP045

**Stereotype:** system

### 1.5.3 CMP052 - Component52

**Ref:** CMP052

**Stereotype:** system

## 1.6 A Wide Table

For this type of component - 'green' ones - we want to show lots of attributes. So many that they won't fit into a normal A4 Portrait-orientation page.

So, we created yet another Profile, for 'green' Components, added all the attributes we want, then ticked 'Print Landscape' to print just this table (and any other <<green>> Components elsewhere in the document on a separate Landscape page.

Component	Ref	Status	Created date	Author	Last_Updated	Stereotype	Difficulty
Component69		Proposed	13/02/2013	Ian	13/02/2013	green	
Component68		Proposed	13/02/2013	Ian	13/02/2013	green	
Component67		Proposed	13/02/2013	Ian	13/02/2013	green	
Component72		Proposed	13/02/2013	Ian	13/02/2013	green	
Component71		Proposed	13/02/2013	Ian	13/02/2013	green	
Component70		Proposed	13/02/2013	Ian	13/02/2013	green	
Component66		Proposed	13/02/2013	Ian	13/02/2013	green	
Component62		Proposed	13/02/2013	Ian	13/02/2013	green	
Component61		Proposed	13/02/2013	Ian	13/02/2013	green	
Component60		Proposed	13/02/2013	Ian	13/02/2013	green	
Component65		Proposed	13/02/2013	Ian	13/02/2013	green	
Component64		Proposed	13/02/2013	Ian	13/02/2013	green	
Component63		Proposed	13/02/2013	Ian	13/02/2013	green	

## 1.7 Conditional Formatting

Creating great document is all about making them readable.

Not all the information in your document is equally important for the reader - you may want to highlight certain bits of data.

There's already a way to do this which is used in Excel - the idea of Conditional Formatting. This means creating a simple rule which changes the appearance, or the content, of a cell, depending in its value.

The rules we have created below are:

- All empty 'Ref' attributes are highlighted red, to show our readers we're missing some data.
- Where Status is 'Proposed' (the EA default) we've made it blank, but where it is 'Approved' we've changed that to 'Signed-off'
- Where Phase is 2.0, we have also highlighted that.

As with other formatting, all these rules are saved with the document, and don't affect your EA model.

Component	Ref	Status	Phase
Component100	CMP100		1.0
Component101	CMP101		1.0
Component102	CMP102		2
Component103	CMP103	Signed-off	1.0
Component104	CMP104		1.0
Component105			1.0
Component106	CMP106		2
Component107	CMP107	Signed-off	1.0
Component108			1.0
Component109	CMP109		1.0
Component110	CMP110		1.0

End





