dynamicWEB®

User manual

# CMS performance

## SINGLE SERVER SCENARIOS

Preliminary version: 1.0

2016.04.05

English

# LEGAL INFORMATION

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# INTRODUCTION

## What this document is about

This document contains performance numbers for the CMS part of Dynamicweb in some typical scenarios.

## Who this document is for

This document can serve as a guideline for choosing the proper hosting setup for your Dynamicweb CMS solution.

# 1 CMS PERFORMANCE

The purpose of the following document is to provide relevant performance data for the CMS part of Dynamicweb.

Web performance in general is very dependent on the chosen design and the specific implementation of the website. This will often be a more important factor than the power of the hardware hosting the site.

The performance figures below are based on the Dynamicweb documentation site solution and the Dynamicweb official website both running version 8.8. We have built these sites using only items and they are a good example of content rich solutions.

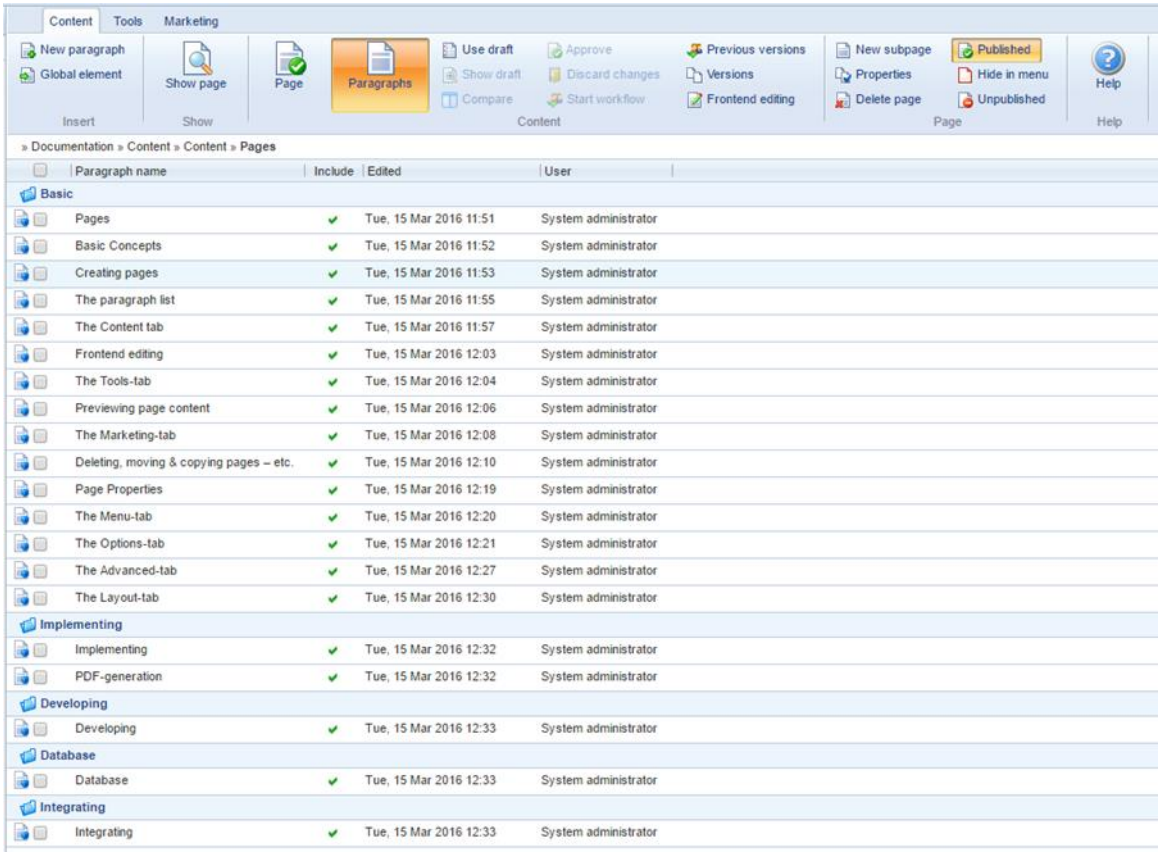
The hardware used in the tests are a *quad core Xeon E3-1230v2* server with *16 GB RAM* running on *Windows Server 2012 and MSSQL 2012.*

All testing is done using the Microsoft Visual Studio Ultimate Load and Stress testing tool. User behavior time is estimated by looking at click statistics for real life Dynamicweb solutions.

# 1.1 Item paragraph scenarios

Show a content rich page based on items




In this test, the visitor views a page with 20 paragraphs all item based. User behavior think times are supplied below.

*Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):*

300 concurrent users.

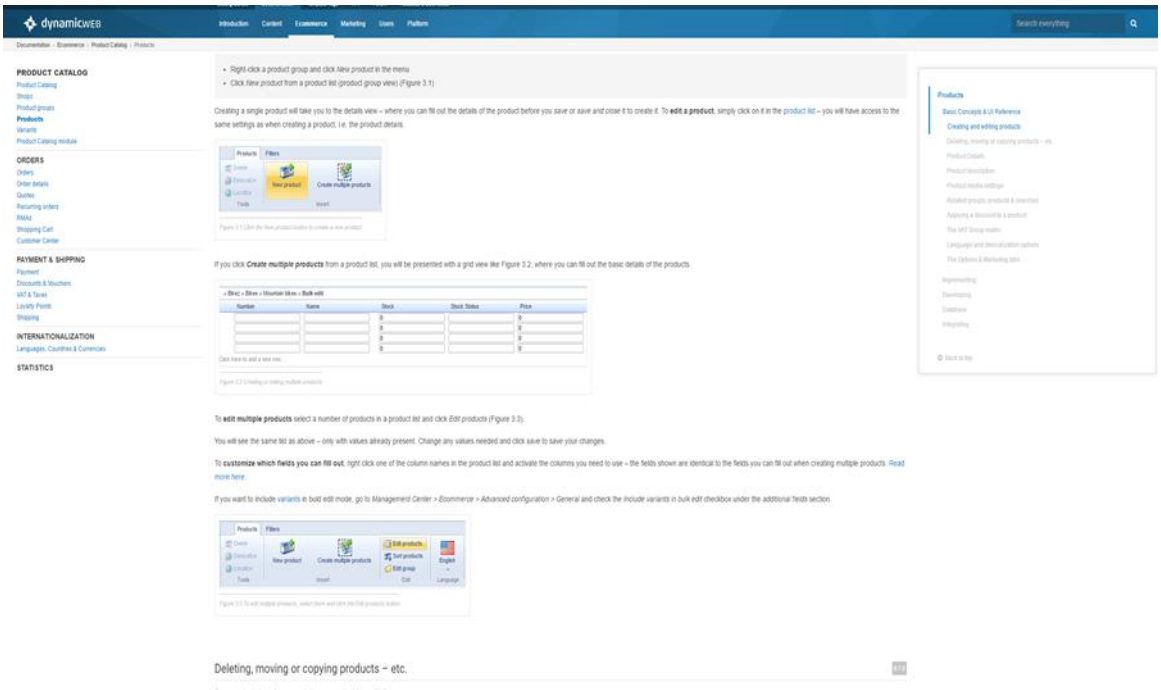
View page (12 sec.)

90.000 page views / hour

Average page time 0.35 seconds

Show a very content-heavy page based on items



In this test, the visitor looks at a very content-heavy page with 60 item based paragraphs in total containing 50 images and 50.000 characters of text. User behavior think times are supplied below.

*Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):*

150 concurrent users.

View page (12 sec.)

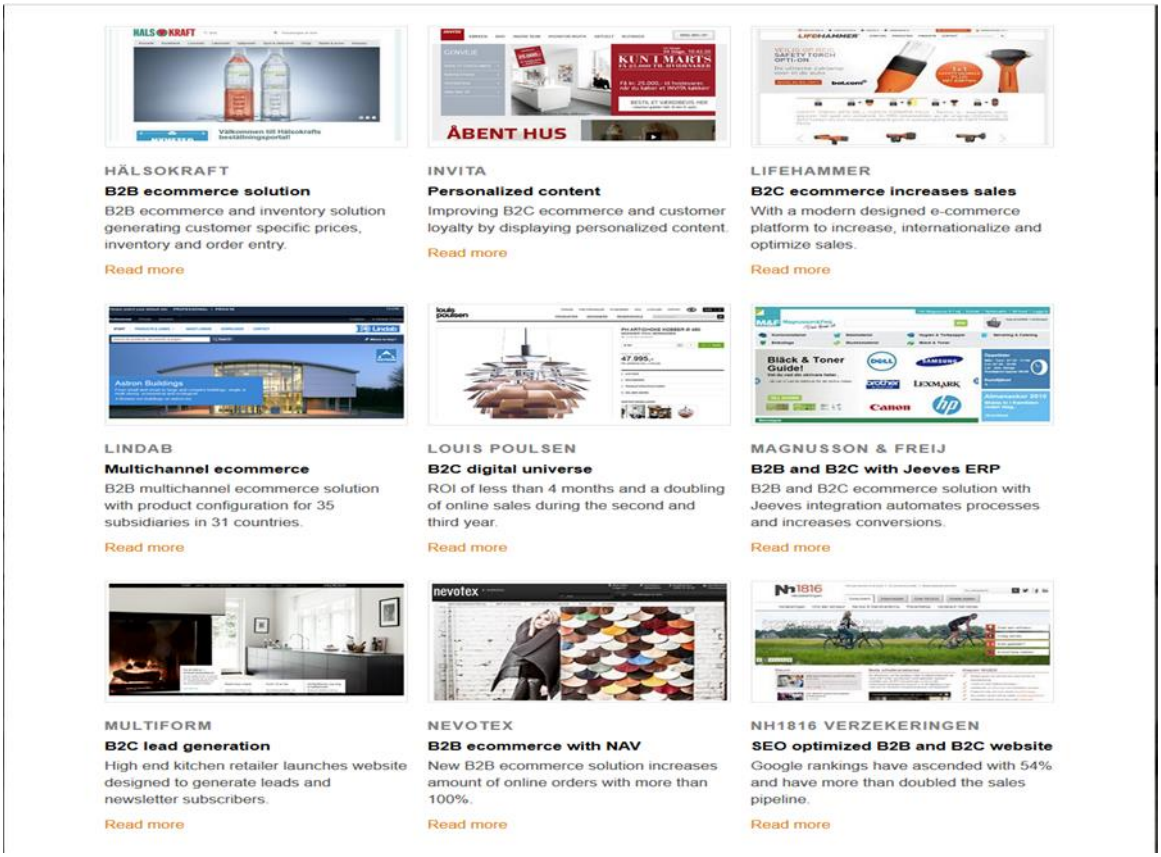
35.000 page views / hour

Average page time 1.5 seconds

## 1.2 Item list scenarios

Browse an item list containing 50 items on a large page (3mb)




In this test, the customer browses an item list on a large page with 50 items and chooses to show the details for a random item. User behavior think times are supplied below.

*Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):*

100 concurrent users

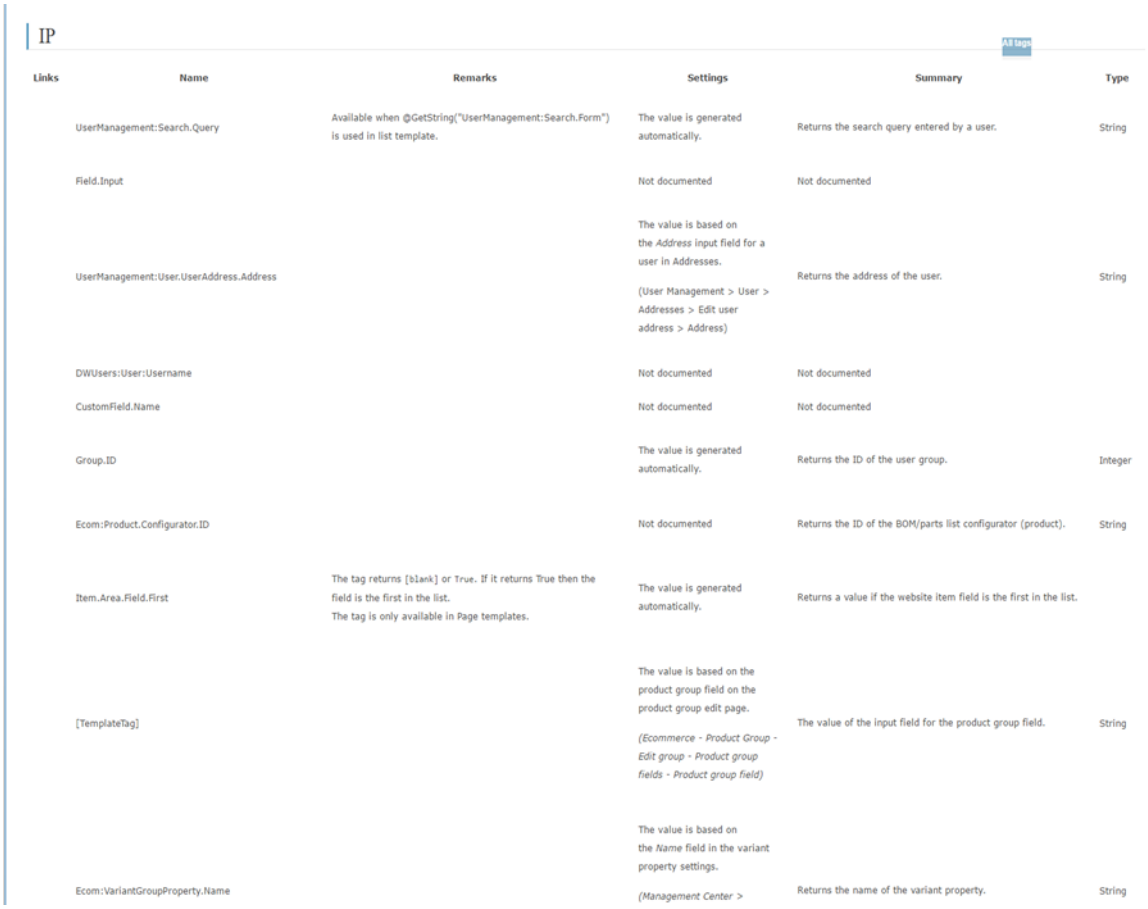
View list of 50 items (10 sec.), view item detail (10 sec.)

30.000 page views / hour

Average page time 0.7 seconds

Browse a large raw item lists



IP

All tags

| Links | Name | Remarks | Settings | Summary | Type |
|---|---|---|---|---|---|
| | UserManagement:Search.Query | Available when @GetString("UserManagement:Search.Form") is used in list template. | The value is generated automatically. | Returns the search query entered by a user. | String |
| | Field.Input | | Not documented | Not documented | |
| | UserManagement:User.UserAddress.Address | | The value is based on the *Address* input field for a user in Addresses.<br>(User Management > User > Addresses > Edit user address > Address) | Returns the address of the user. | String |
| | DWUsers:User:Username | | Not documented | Not documented | |
| | CustomField.Name | | Not documented | Not documented | |
| | Group.ID | | The value is generated automatically. | Returns the ID of the user group. | Integer |
| | Ecom:Product.Configurator.ID | | Not documented | Returns the ID of the BOM/parts list configurator (product). | String |
| | Item.Area.Field.First | The tag returns `[blank]` or `True`. If it returns True then the field is the first in the list.<br>The tag is only available in Page templates. | The value is generated automatically. | Returns a value if the website item field is the first in the list. | |
| | [TemplateTag] | | The value is based on the product group field on the product group edit page.<br>*(Ecommerce - Product Group - Edit group - Product group fields - Product group field)* | The value of the input field for the product group field. | String |
| | Ecom:VariantGroupProperty.Name | | The value is based on the *Name* field in the variant property settings.<br>*(Management Center >* | Returns the name of the variant property. | String |

In this test, the visitor browses through a raw item list showing 100 out of 3000 items. User behavior think times are supplied below.

*Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):*

100 concurrent users.

Show first page (10 sec). Show second page (10 sec). Show third page (10 sec.)

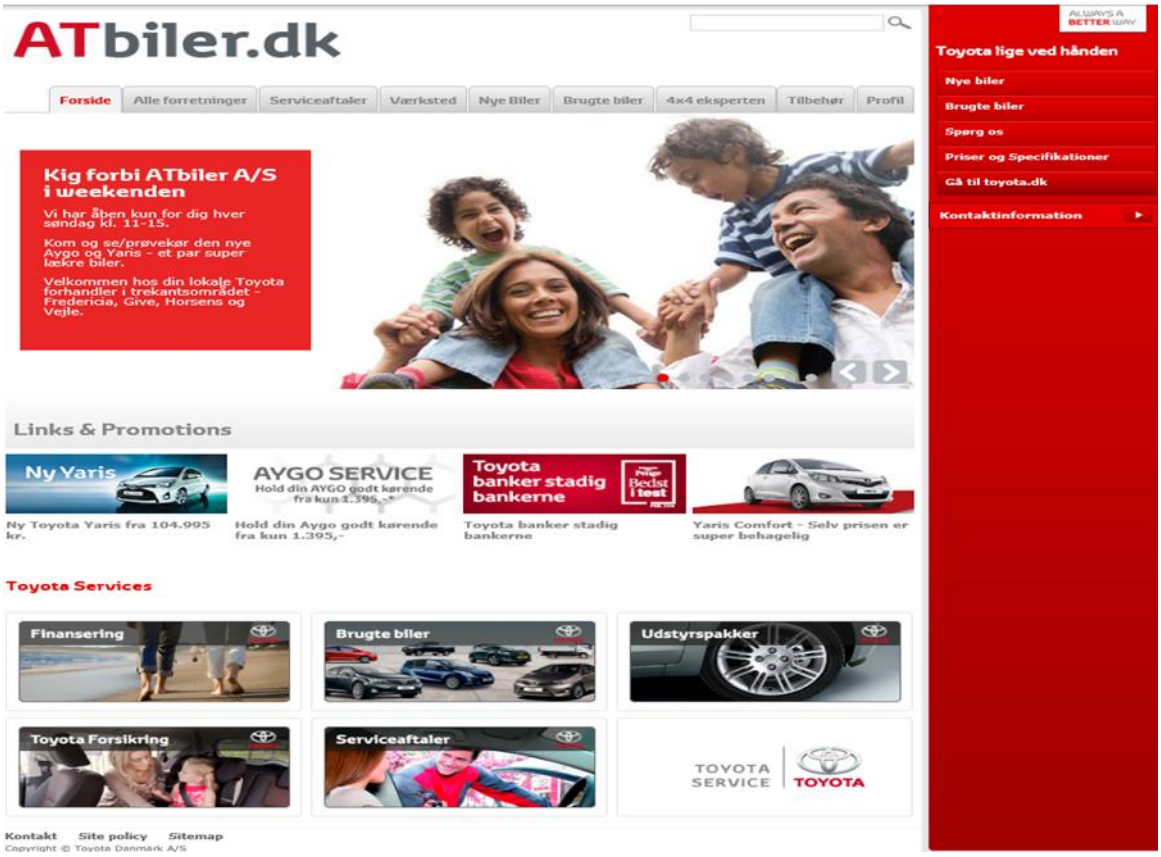
30.000 page views / hour

Average page time 0.5 second

## 1.3 Default paragraphs and pages

View simple front page of a site




In this test, the customer views the front page of a site based on default paragraphs and pages. User behavior think times are supplied below.

*Single server (1 x Xeon E3-1230v2, 16 GB, Windows Server 2012, SQL 2012):*

200 concurrent users

View front page (10 sec.)

75.000 page views / hour

Average page time 0.2 seconds