

ImageEngine™



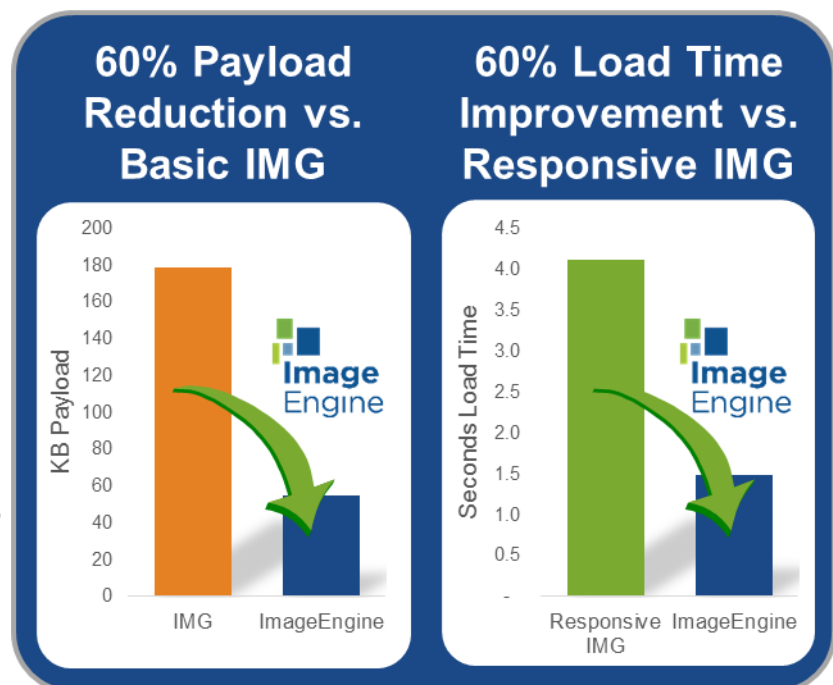
ImageEngine: A Mobile-Optimized Image Resizing Cloud Service

[ImageEngine](#) combines 3 capabilities into a simple yet powerful image resizing solution that will reduce your image payload and improve load time by 60%.

- **Mobile device detection** – ScientiaMobile has integrated its WURFL device detection to drive more effective image resizing for mobile devices.
- **Image resizing, cropping, and optimization** – ImageEngine provides both automatic and explicit control parameters for Web designers. They can make sure images look the way they want.
- **Content Delivery Network (CDN)** – We cache resized images on our Enterprise-scaled cloud platform to provide fast response time.

The ImageEngine Difference

- **Simplicity and Accuracy** - A single line of ImageEngine code can replace hundreds of lines of Responsive Image code. And given WURFL's accurate mobile device detection, it will automatically do a better resizing job.
- **Performance Improvement from Payload Reduction** - Typically, we can reduce the image payload and load-time by over 60%. This means the experience is improved – particularly on mobile devices, with fewer abandons.
- **Scalability** - We already handle billions of image requests for our customers.



How It Works

ScientiaMobile's ImageEngine is easy to use. It uses the standard img command with a src reference to a URL that combines 3 elements:



Call to ImageEngine Service with Token

Optional Image Manipulation Parameters

Full-sized image

```
img src="https://xyz123.imgeng.in/w_320/h_200/http://jelly.com/bread.png"
```

ImageEngine comes as a fully featured cloud-based service, licensed to provide the levels of image resizing appropriate for many businesses. ImageEngine Lite provides many of the core features, but comes with image size and data transfer limits.

Feature	ImageEngine	ImageEngine Lite
Automatic or explicit compression, format conversion	Yes	Yes
Automatic or explicit resize by detected screen size	Yes	Yes
Fit Methods	Yes	Yes
Maximum original image size	No limit	2 MB
Maximum monthly data transfer (in/out)	No limit	5 GB
Commercial license	Yes	No
Explicit crop and rotate	Yes	No
Full support of Client Hints	Yes	No
CNAME and customer SSL certificates	Yes	No
Help desk support	Yes	No

Automatic compression, resize, format conversion

ImageEngine delivers an image that is automatically optimized based on the device requesting the image. WURFL detects each device's model and critical capabilities, including its screen dimensions and supported formats. It then automatically compresses, resizes, and changes format to generate an optimized. JPG, BMP, GIF, PNG, and WEBP formats are supported.

Explicit resize and format conversion control

Designers can use ImageEngine's setting parameters to explicitly control the resizing percent or format conversion for the output image.

Fit Methods

ImageEngine supports several methods that automatically resize an image to fit within specified width and height. These methods (box, letterbox, cropbox, stretch) take different approaches to resizing and cropping to make the image fit.

