# Powerpoint markup

## Försättsblad

## What is Asp.Net Identity Framework

* Framework for security and authorization management.
* One Solution for several projects
* Simple Memberships Successor

## Why Asp.Net Identity Framework

* Compatible with all Asp.Net Frameworks
* Easy use of social login providers
* Claims Based authentication
* OWIN Integration (CookieAuthentication)

## What was before Asp.Net Identity Framework

## Asp.Net Membership, Simple Membership and Universal Providers

* Forms based Authentication
* Deisgned with only SQL servers in mind.
* No Owin integration.
* No Social Login providers

## Asp.Net Identity 1.0

* Released 2013
* Simple way to store and handle user data.
* Role provider
* Claims Based
* Social Login Providers

## Asp.Net Identity 2.0

* Released 2014
* Security Token Provider
* Two-Factor Authentication
* Account Confirmation
* Account Lockout
* Password Reset

## OWIN

* Decouple server and application
* A middleware (pipeline between server & application.)

## Authentication & Authorization

**Authentication – Who are you?**

**Authorization – What are you allowed to do?**

For example you can use your driver license for both authentication and authorization. You can authenticate yourself by showing your personal information on the license and the license authorizes you to be allowed to drive a car.

# Claims based Authentication

## What is a Claim?

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* A claim is a statement about a subject for example a name, your age or your home address.
* Each claim has a type, a value and an Issuer
* A Type is for example a “Name” or “Addres”
* A Value is for example “Something Road 11”
* An Issuer (provider) is an entity which can issue claims. You can choose how much you trust this claim depending on who the issuer is. A trusted issuer could for example be your government issuing you your driver license.

## Why Claims?

* The user delivers the claim which means you don’t have to look up the information from a database.
* Claims can include more information about an identity than roles, making it more flexible.
* Encapsulated in a token making it easy to access & secure.

## What is a Token?

* A token contains a set of claims.
* A token is serialized to grant security to your claims.

## What is a Principal

* A principal represents an Identity including its roles.