

# Brix Foundation

## Brix Security

### Securing Software

**In-depth security for software applications and services is a mandatory requirement from today's market. DNV Software implements security best practice by using Brix Security. Brix Security components are used in all our software applications and services. By building on mainstream Microsoft security technologies and expertise from hosted services we are able to deliver robust security for applications and services.**

Brix Security components are securing DNV Software's applications, web services and controlling access to data. Brix Security builds on security mechanisms provided by Microsoft .NET and Microsoft Internet Information Server.

Brix Security provides an enterprise scale administration module, a flexible identity store, mechanisms for securing access to data as well as security providers for ASP.NET and Active Directory.

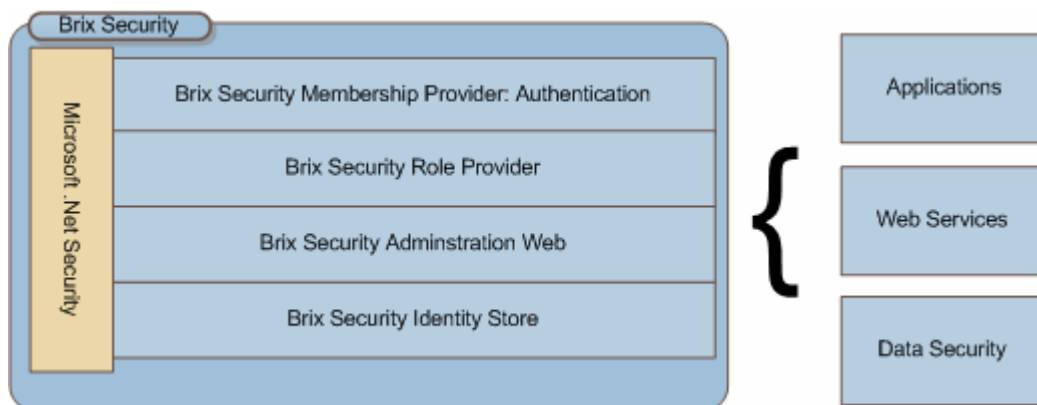


Figure – Brix Security Overview

#### Benefits

- Brix Security ASP.NET Membership and Role provider
- Integrated with Microsoft Active Directory
- Support Integrated Windows Security
- Support ASP.NET Forms Authentication
- Support integration with existing customer database
- Enterprise scale Administration Module, including customer self-service administration.
- Building on mainstream Microsoft Technologies
- Support both Intranet, Internet and Extranet deployment
- Provides Single-Sign-On between DNV Software Windows and Web Applications

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## Authentication

In order for people to use a DNV Software application or service, it must validate the person's identity. This process is known as authentication. DNV Software's applications can use Brix Security or Microsoft Active Directory as identity services. The actual authentication process is handled by Microsoft IIS. However, Brix Security is responsible for authorization to the application and content after a user successfully authenticates

Authentication methods determine which type of identity directory can be used and how users are authenticated by IIS. Brix Security supports two methods of authentication: Windows, ASP.NET Forms.

## Administration

Administration of security can be costly. Brix Security comes with an easy to use web enabled administration module. The administration is done through a web browser and the tools are targeted at support personnel.

## Access

Once users are added to an application, they are added to groups and assigned permissions to tools and data. Brix Security has several management controls in place for provisioning access to and within an application. Users, groups, services, and permission levels are used to configure access. Brix Security supports delegation of access through an organisational hierarchy.

For advanced in-depth data access, e.g. control ownership to data, Brix Security integrates with the native application's data security capability. Examples of this e.g. access to My Assets, My Projects, My Tasks etc.

## Integration

Brix Security integrates with directory services such as Active Directory or uses its own identity store. Runtime authentication against Active Directory is supported. Brix Security integrates with corporate Customer data stores.



Figure – Brix Security Administration Web