

# Scripting

This section introduces JavaScript classes that are provided by Emakin and their how-to-use. Emakin allows running default JavaScript codes beside these classes in various places in a workflow, for example in [Task Prework Script](#), [Task Postwork Script](#), Form Script, Role Script and even on the form.

## Workflow Management

- [\\$Instance](#)  
Currently executing workflow instance
- [\\$WorkItem](#)  
Currently executing work item.
- [Instance](#)  
An instance of a workflow instance.
- [WorkItem](#)  
An instance of a workflow instance work item.

## Case Management

- [\\$Case](#)  
Attached case instance if defined.
- [Case](#)  
Instance of a case.

## Users and Organization Data

- [\\$Membership](#)  
Allows to access users and organization database objects.
- [Identity](#)  
Represents an identity (User, Organization Unit, Position, Group) in system.

## Data Model and Xml Data

- [\\$Xml](#)  
Allows to access process data model.
- [XmlNode](#)  
Instance of a XML dom node.
- [\\$XmlRepository](#)  
Allows to access xml based database.

## Database Management

- [\\$Database](#)  
Allows to perform relational database operations.
- [DataTable](#)  
Represents a relational database query result.
- [DataTableDictionary](#)  
Represents a data dictionary from [DataTable](#) instance for fast access.
- [DataTableRow](#)  
Represents a database table row instance.

## Documents and Files

- [\\$Documents](#)  
Allows to access document repository.
- [\\$Files](#)  
Allows to access standard file repository for basic files.
- [Files](#)  
Represents the instance of file a file repository.
- [Document](#)  
Represents a document instance with one or more files.
- [FileInfo](#)  
Represents a file instance.

## Messaging

- [\\$Messages](#)  
Allows to send new mails or parsing messages.
- [Message](#)  
Represents a mail message with MIME standard.
- [\\$ActivityStream](#)  
Allows to push system generated activities on activity stream.

## Integration

- [\\$Rest](#)  
Allows to call rest services with JSON or XML content types.
- [\\$Services](#)  
Allows to call SOAP services with JSON or XML content types.
- [RestClient](#)  
Represents a connection with a rest service.
- [RestRequest](#)  
Represents a request to perform with a rest service client.
- [RestResponse](#)  
Represents a response received from a rest service.

## Business Rules

- [\\$Decisions](#)  
Allows to perform script operations using predefined decision tables.

## Calendar

- [\\$Calendar](#)  
Gets the default calendar.
- [Calendar](#)  
Instance of a calendar that performs date based operations like adding or calculating differences by rules.
- [DateTimeOffset](#)  
The DateTimeOffset object represents a date and time value.

## Task Delegation

- [\\$Delegation](#)  
Allows to manage delegations between users.
- [DelegationEntry](#)  
Specifies a delegation entry.

## Cryptography

- [\\$Crypto](#)  
Allows the access cryptographic functions like hashing, encryption or sign or verify.

## Localization

- [\\$Localization](#)  
Allows to access localization dictionary entries from scripting environment.
- [\\$Templates](#)  
Allows to access templates that defined in pool definition.

## Utilities

- [VerificationResult](#)  
Instance of digital signature verification result that contains validity status and signer information of signatures.
- [VerificationSignature](#)  
Specifies the result of single signature verification.

- [\\$Domain](#)  
Allows to access domain specific properties.
- [\\$Cache](#)  
Allows to store and fetch objects for a limited time with fast access.
- [\\$Market](#)  
Allows to access market resources for license checks.
- [Milestone](#)  
Represents a milestone that created with [Milestones.Add](#) method.
- [Milestones](#)  
Represents the list of milestones on a case.
- [Script](#)  
Provides general usage utility functions.