#bcopendiscussion

92’ND

06-08-2022

Interfaces- #msdyn365bc.

#bcopendiscussion

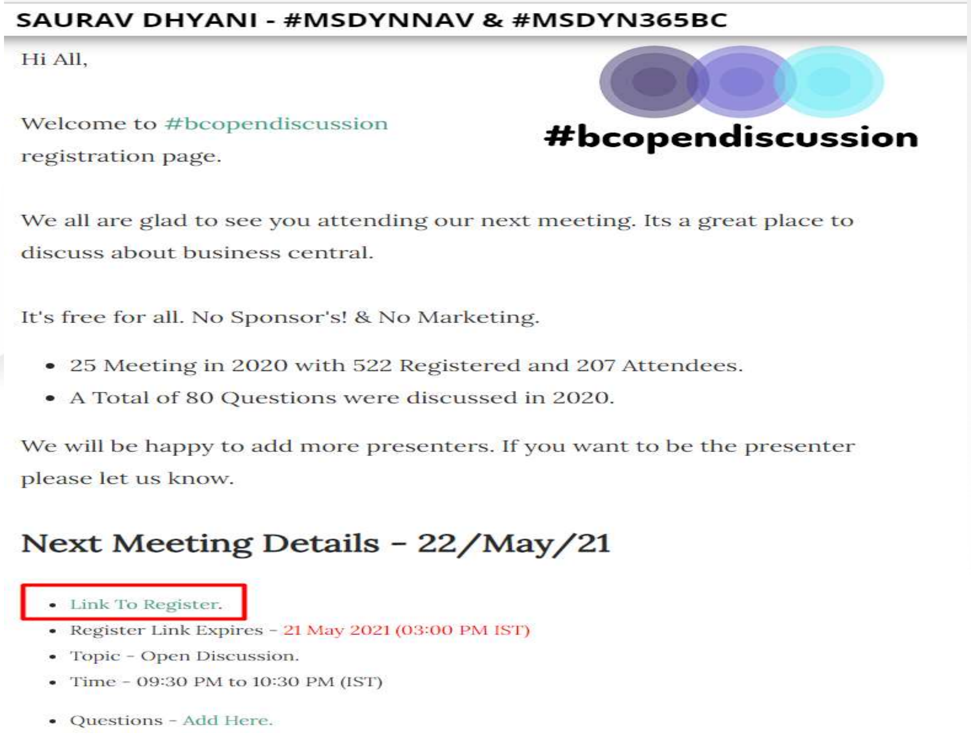
WHERE DO I REGISTER?

Register Here

http://bit.ly/msdyn365bcopendiscussion

Meeting Attendees

If you would like to be default attendee for future meeting, please drop **your name & Email address in chat** during meeting.



SAURAV DHYANI - #MSDYNNAV & #MSDYN365BC

Hi All,

#bcopendiscussion

Welcome to #bcopendiscussion registration page.

We all are glad to see you attending our next meeting. Its a great place to discuss about business central.

It's free for all. No Sponsor's! & No Marketing.

- 25 Meeting in 2020 with 522 Registered and 207 Attendees.
- A Total of 80 Questions were discussed in 2020.

We will be happy to add more presenters. If you want to be the presenter please let us know.

Next Meeting Details – 22/May/21

- Link To Register.
- Register Link Expires – 21 May 2021 (03:00 PM IST)
- Topic – Open Discussion.
- Time – 09:30 PM to 10:30 PM (IST)
- Questions – Add Here.

INTERFACE.

#bcopendiscussion

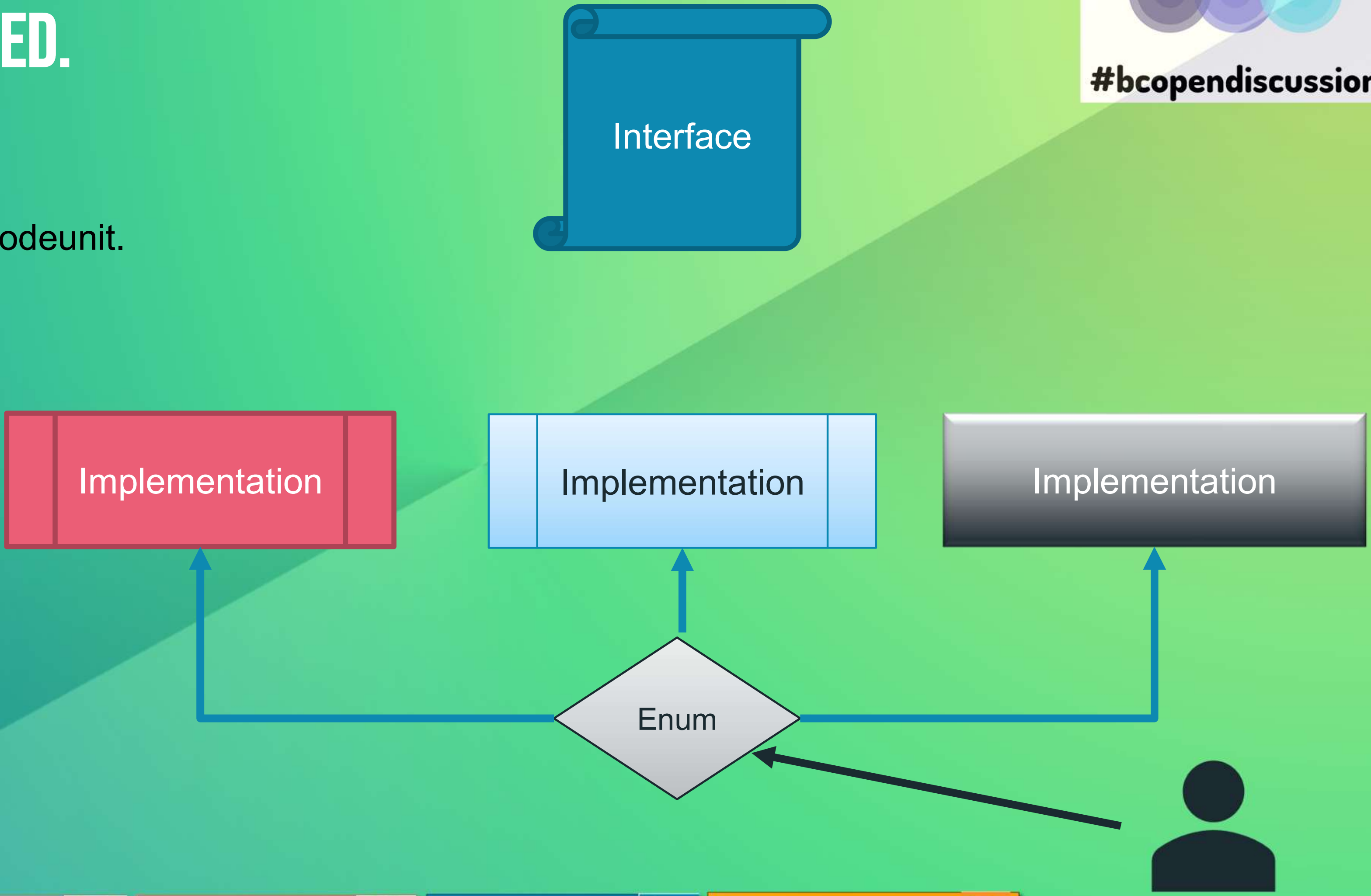
Interface is a **syntactical contract** that can be implemented by a non-abstract method.

The interface is used to **define which capabilities** must be available for an object, while allowing actual implementations to differ, as long as they comply with the defined interface.

PARTIES INVOLVED.

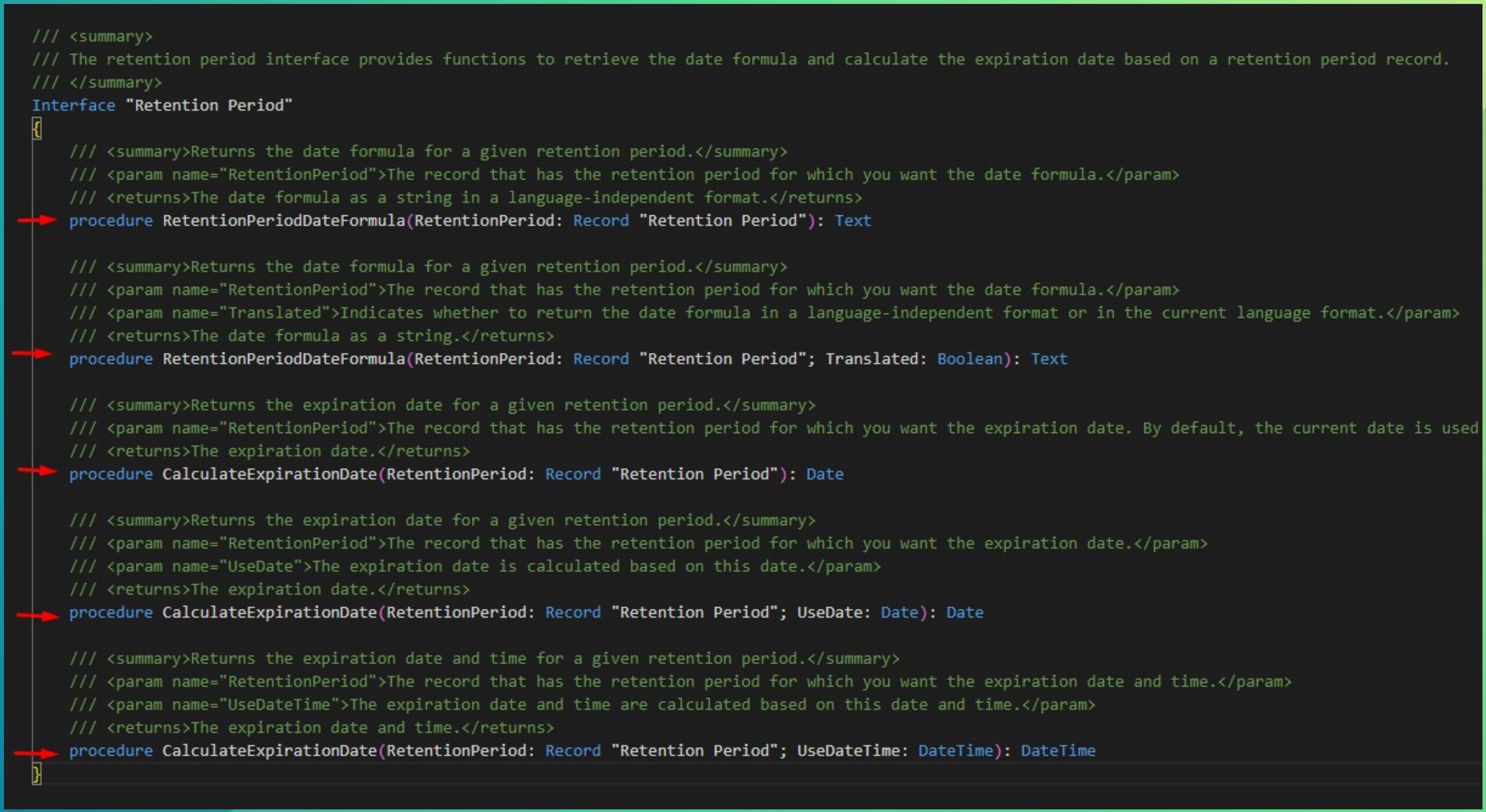
#bcopendiscussion

- Interface.
- Implementation Codeunit.
- Enums.



#bcopendiscussion

BASE INTERFACE



```
/// <summary>
/// The retention period interface provides functions to retrieve the date formula and calculate the expiration date based on a retention period record.
/// </summary>
Interface "Retention Period"
{
    /// <summary>Returns the date formula for a given retention period.</summary>
    /// <param name="RetentionPeriod">The record that has the retention period for which you want the date formula.</param>
    /// <returns>The date formula as a string in a language-independent format.</returns>
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"): Text

    /// <summary>Returns the date formula for a given retention period.</summary>
    /// <param name="RetentionPeriod">The record that has the retention period for which you want the date formula.</param>
    /// <param name="Translated">Indicates whether to return the date formula in a language-independent format or in the current language format.</param>
    /// <returns>The date formula as a string.</returns>
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"; Translated: Boolean): Text

    /// <summary>Returns the expiration date for a given retention period.</summary>
    /// <param name="RetentionPeriod">The record that has the retention period for which you want the expiration date. By default, the current date is used
    /// <returns>The expiration date.</returns>
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"): Date

    /// <summary>Returns the expiration date for a given retention period.</summary>
    /// <param name="RetentionPeriod">The record that has the retention period for which you want the expiration date.</param>
    /// <param name="UseDate">The expiration date is calculated based on this date.</param>
    /// <returns>The expiration date.</returns>
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDate: Date): Date

    /// <summary>Returns the expiration date and time for a given retention period.</summary>
    /// <param name="RetentionPeriod">The record that has the retention period for which you want the expiration date and time.</param>
    /// <param name="UseDateTime">The expiration date and time are calculated based on this date and time.</param>
    /// <returns>The expiration date and time.</returns>
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDateTime: DateTime): DateTime
}
```

MVP Microsoft Most Valuable Professional

YouTube c/sauravdhyani

Twitter @sauravdhyani

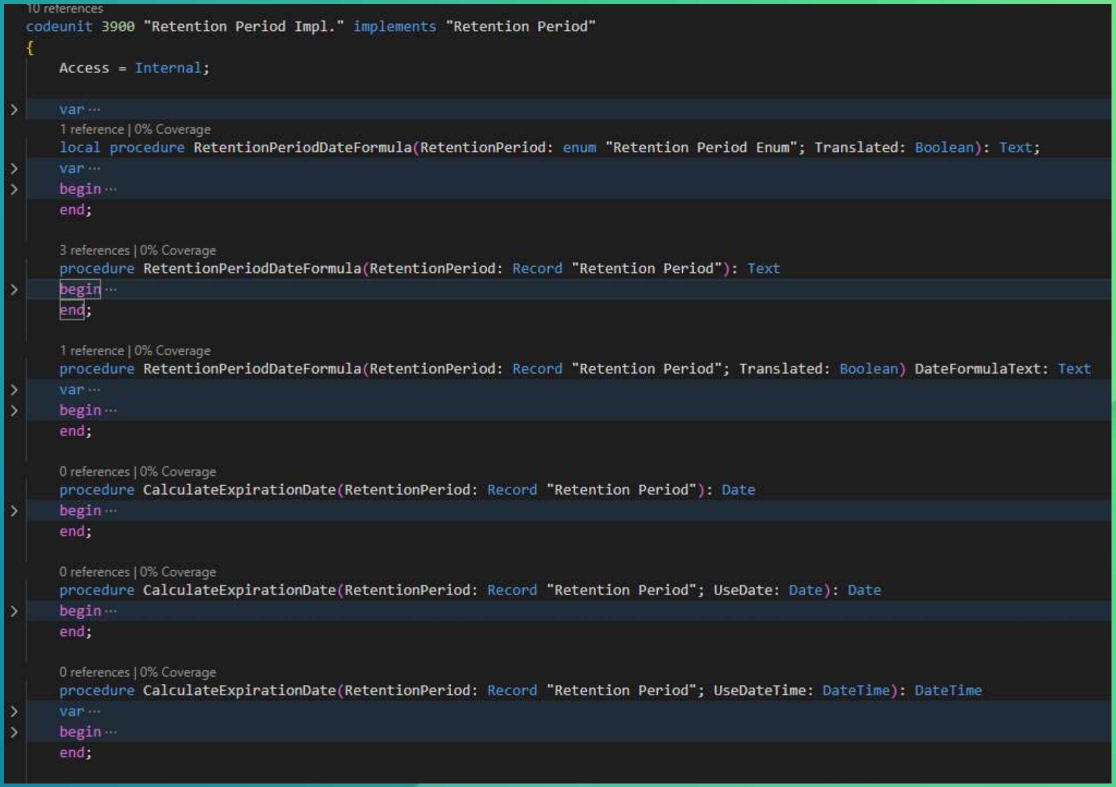
Facebook @SauravMSDYN365BC

Linked In in/sauravdhyani/

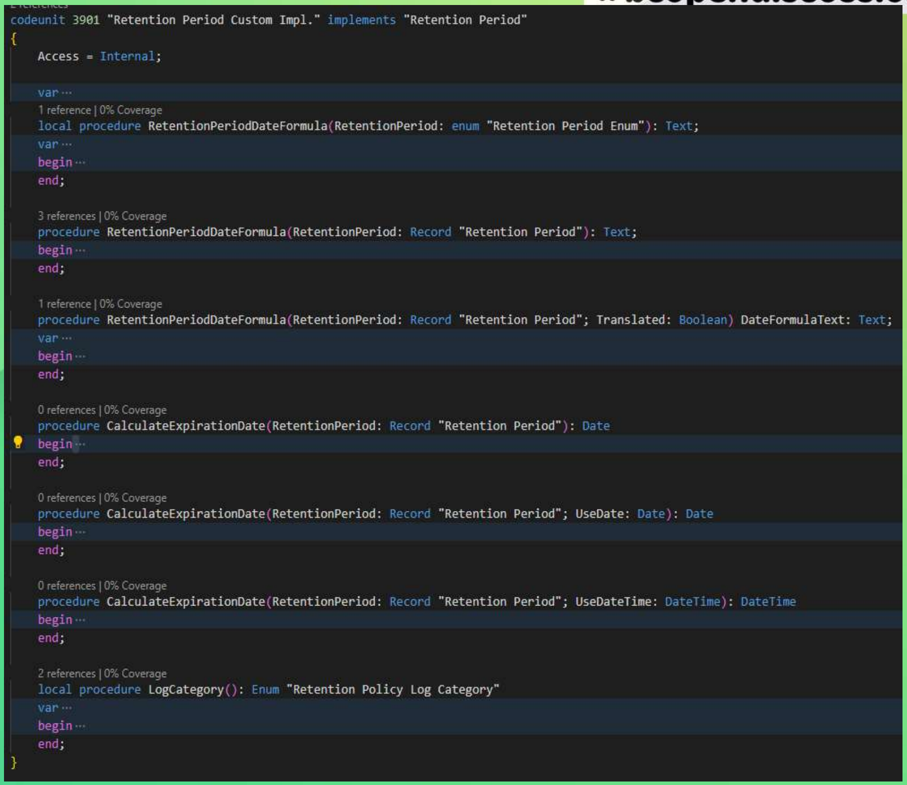
Blog www.sauravdhyani.com

BASE IMPLEMENTATION

#bcopendiscussion



```
10 references
codeunit 3900 "Retention Period Impl." implements "Retention Period"
{
    Access = Internal;

    var ···
    1 reference | 0% Coverage
    local procedure RetentionPeriodDateFormula(RetentionPeriod: enum "Retention Period Enum"; Translated: Boolean): Text;
    var ···
    begin ···
    end;

    3 references | 0% Coverage
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"): Text
    begin ···
    end;

    1 reference | 0% Coverage
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"; Translated: Boolean) DateFormulaText: Text
    var ···
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"): Date
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDate: Date): Date
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDateTime: DateTime): DateTime
    var ···
    begin ···
    end;
```



```
codeunit 3901 "Retention Period Custom Impl." implements "Retention Period"
{
    Access = Internal;

    var ···
    1 reference | 0% Coverage
    local procedure RetentionPeriodDateFormula(RetentionPeriod: enum "Retention Period Enum"): Text;
    var ···
    begin ···
    end;

    3 references | 0% Coverage
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"): Text;
    begin ···
    end;

    1 reference | 0% Coverage
    procedure RetentionPeriodDateFormula(RetentionPeriod: Record "Retention Period"; Translated: Boolean) DateFormulaText: Text;
    var ···
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"): Date
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDate: Date): Date
    begin ···
    end;

    0 references | 0% Coverage
    procedure CalculateExpirationDate(RetentionPeriod: Record "Retention Period"; UseDateTime: DateTime): DateTime
    begin ···
    end;

    2 references | 0% Coverage
    local procedure LogCategory(): Enum "Retention Policy Log Category"
    var ···
    begin ···
    end;
}
```

MVP Microsoft® Most Valuable Professional

YouTube c/sauravdhyani

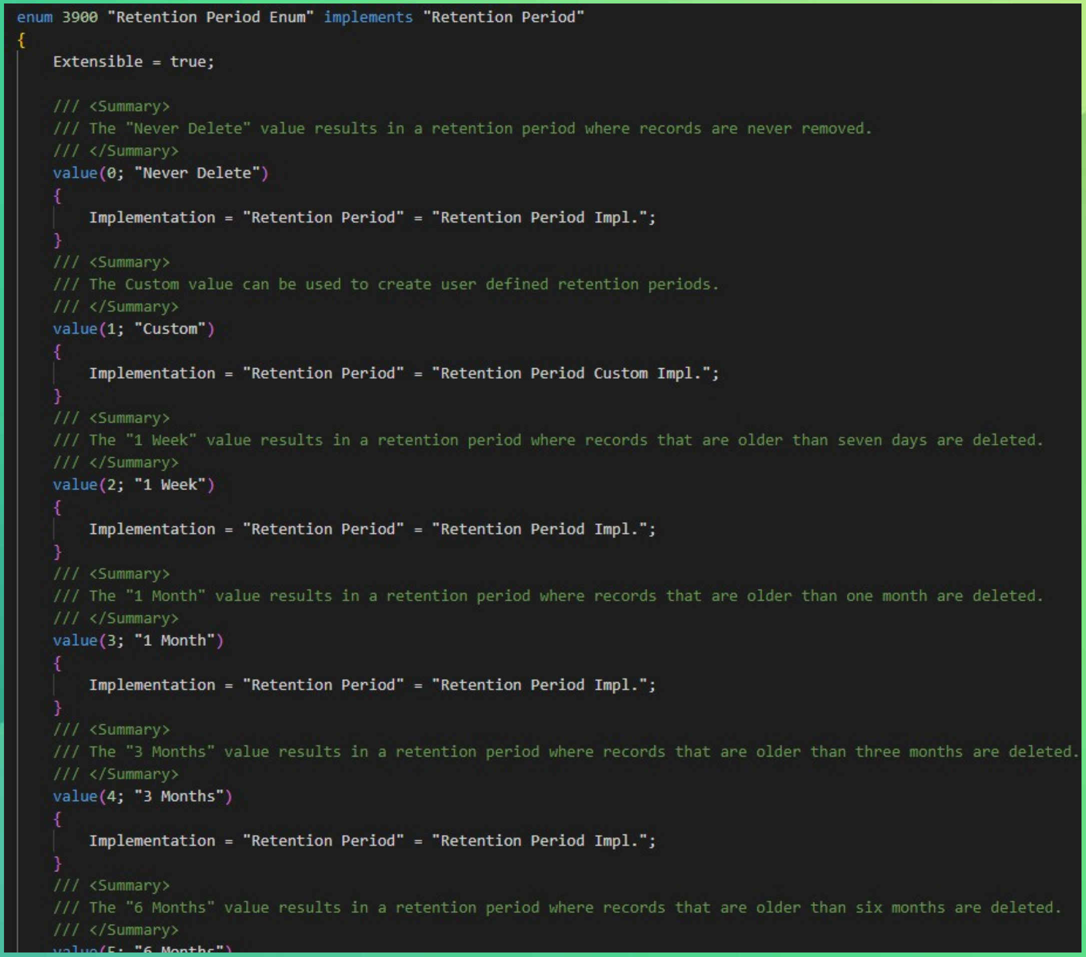
Twitter @sauravdhyani

Facebook @SauravMSDYN365BC

Linked In in/sauravdhyani/

Blog www.sauravdhyani.com

ENUM



```
enum 3900 "Retention Period Enum" implements "Retention Period"
{
    Extensible = true;

    /// <Summary>
    /// The "Never Delete" value results in a retention period where records are never removed.
    /// </Summary>
    value(0; "Never Delete")
    {
        Implementation = "Retention Period" = "Retention Period Impl.";
    }
    /// <Summary>
    /// The Custom value can be used to create user defined retention periods.
    /// </Summary>
    value(1; "Custom")
    {
        Implementation = "Retention Period" = "Retention Period Custom Impl.";
    }
    /// <Summary>
    /// The "1 Week" value results in a retention period where records that are older than seven days are deleted.
    /// </Summary>
    value(2; "1 Week")
    {
        Implementation = "Retention Period" = "Retention Period Impl.";
    }
    /// <Summary>
    /// The "1 Month" value results in a retention period where records that are older than one month are deleted.
    /// </Summary>
    value(3; "1 Month")
    {
        Implementation = "Retention Period" = "Retention Period Impl.";
    }
    /// <Summary>
    /// The "3 Months" value results in a retention period where records that are older than three months are deleted.
    /// </Summary>
    value(4; "3 Months")
    {
        Implementation = "Retention Period" = "Retention Period Impl.";
    }
    /// <Summary>
    /// The "6 Months" value results in a retention period where records that are older than six months are deleted.
    /// </Summary>
    value(5; "6 Months")
```

DEMO..

- Define a New Implementation of Interface “Retention Period”
- Extended Enum to Call the New Implementation.

#bcopendiscussion

Thank You!

See You Next Meeting.

www.sauravdhyani.com

http://bit.ly/msdyn365bcopendiscussion

Saurav Dhyani

MVP Microsoft Most Valuable Professional

YouTube c/sauravdhyani

Twitter @sauravdhyani

Facebook @SauravMSDYN365BC

Linked In in/sauravdhyani/

Blog www.sauravdhyani.com