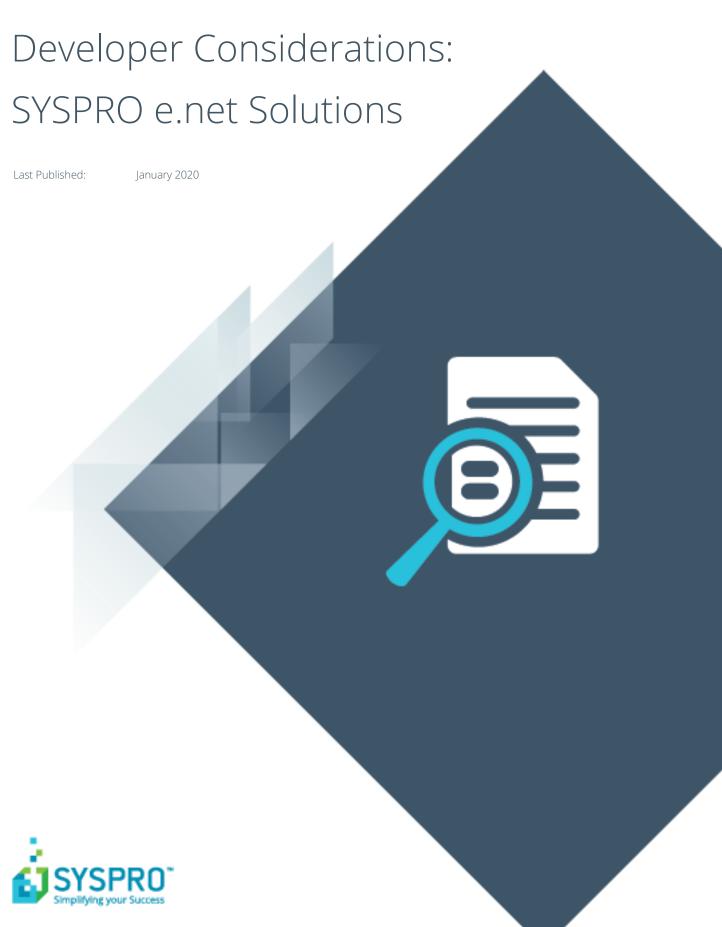
SYSPRO 8



SYSPRO Help and Reference

Copyright © 2020 SYSPRO Ltd

All rights reserved

No part of this document may be copied, photocopied, or reproduced in any form or by any means without permission in writing from SYSPRO Ltd. SYSPRO is a trademark of SYSPRO Ltd. All other trademarks, service marks, products or services are trademarks or registered trademarks of their respective holders.

SYSPRO Ltd reserves the right to alter the contents of this document without prior notice. While every effort is made to ensure that the contents of this document are correct, no liability whatsoever will be accepted for any errors or omissions.

This document is a copyright work and is protected by local copyright, civil and criminal law and international treaty. This document further contains secret, confidential and proprietary information belonging to SYSPRO Ltd. It is disclosed solely for the purposes of it being used in the context of the licensed use of the SYSPRO Ltd computer software products to which it relates. Such copyright works and information may not be published, disseminated, broadcast, copied or used for any other purpose. This document and all portions thereof included, but without limitation, copyright, trade secret and other intellectual property rights subsisting therein and relating thereto, are and shall at all times remain the sole property of SYSPRO Ltd.

Contents

Introduction	3
Entry Points	4
-	4
e.net Solutions WCF Service	4
SYSPRO 8	6
Entry Point Changes	6
SYSPRO 8 e.net Load Balancer Se	rvice6
SYSPRO 8 Benefits	7

INTRODUCTION

Since the initial development of **SYSPRO e.net Solutions** around 2002, any application developed using e.net Solutions would work unchanged, even if an end-user subsequently migrated to a later version of SYSPRO.

This version independence is an important component in allowing third party developers to create applications and ship them without worrying about future upgrades.

For example:

If a third party developer created an application to perform the following steps:

- login to e.net Solutions and return a session ID
- call the 'add customer' business object (ARSSCS) passing the session ID and a specific XML string
- verify any returned exception and/or XML
- logout using the session ID

This code would work unchanged on all versions of SYSPRO from when it was first developed indefinitely into the future.

This concept has not changed and will continue to be supported into the foreseeable future.

Entry Points

ENCORE.DLL

When e.net Solutions was initially released, our product was called **Encore** and the entry point into our system via e.net was an assembly called **ENCORE.DLL**.

Third party developers who wished to use e.net 'referenced' ENCORE.DLL.

This allowed them to invoke various methods to query data, maintain items or post transactions.

ENCORE.DLL was a 32-bit application.

E.NET SOLUTIONS WCF SERVICE

During 2011 (**SYSPRO 6.1**), the SYSPRO development team developed a communication service gateway to e.net Solutions that used the Microsoft WCF (Windows Communication Foundation) framework for building service-oriented applications.

In effect, an application communicated with the service endpoint providing all of the following as before:

- login
- querying
- maintenance
- transaction
- logoff methods

There are many benefits to third party applications using the e.net Solutions Service rather than referencing **ENCORE.DLL** directly. These include:

Improved memory management

The e.net Solutions Service included code to ensure optimal memory management.

Improved threading

The e.net Solutions Service included code to handle multi-threading effectively. Without this, third party developers would typically be reduced to using a single thread, leading to bottlenecks in higher throughput situations.

Improved process decoupling

Accessing e.net Solutions via a service decouples the application from having to run on the SYSPRO application server.

This results in an improved ability to manage multi-server and remote client connections to e.net (the alternative, such as DCOM, typically was difficult to setup and administer).

Improved start and restart management

The e.net Solutions Service can be stopped and restarted if there are problems with the e.net environment.

Previously this could require a server restart.

Application architecture independence

The e.net Solutions Service is 64-bit – all applications (whether 64-bit or 32-bit) can use the service endpoint.

Previously only 32-bit applications could reference **ENCORE.DLL** directly.

Once the e.net Solutions Service was released, many third party applications were quickly changed to use the service endpoint rather than reference **ENCORE.DLL** directly.

This provided improved flexibility, scalability and performance as mentioned above.

SYSPRO 8

SYSPRO 8 is the latest version of SYSPRO ERP and provides:

- improved performance and scalability
- a new browser interface (SYSPRO Avanti)
- focus on SQL Server for enterprise strength, data integrity, security and administration

ENTRY POINT CHANGES

The SYSPRO 8 Server software is completely 64-bit, providing improved memory scalability and performance.

Thus **ENCORE.DLL** is no longer available and 32-bit applications can no longer reference **ENCORE.DLL** directly.

WHAT DOES THIS MEAN?

For SYSPRO 8, all applications that previously referenced **ENCORE.DLL** must be recoded to reference the e.net Solutions Service endpoint.

This is typically a relatively trivial change and once done allows your application to work with any version of SYSPRO that supports the e.net Solutions Service.

SYSPRO 8 E.NET LOAD BALANCER SERVICE

In addition for SYSPRO 8, your service endpoint can be directed to the **e.net Communications Load Balancer Service**.

This provides even higher scalability, more reliability and improved isolation between processes and threads.

SYSPRO 8 BENEFITS

In summary, there are several benefits to ensuring that all applications using e.net use the newer communication technology, including:

- SYSPRO 8 includes an e.net Communications Load Balancer Service.
 This is an improved version of the e.net Solutions Service providing multiple worker processes to provide enhanced scalability and isolation between processes.
- SYSPRO 8 is a 64-bit product and 32-bit applications that previously referenced
 ENCORE.DLL would never be able to reference SYSPRO 8 components directly.
 By referencing the service endpoint, the 'bitness' of your application is decoupled from SYSPRO.
- By all developers using the e.net Communications Load Balancer Service we can provide a greater range of enhancements to SYSPRO 8 in future.
 Until now some enhancements would have required each, and every, developer to modify their applications.
 This was not practical and so limited our enhancement capability.

It should be repeated that, apart from ensuring that your application uses the e.net service endpoint, any application that has been developed to use e.net Solutions classes and methods will continue to work unchanged.



AFRICA

SYSPRO South Africa

Block A Sunninghill Place 9 Simba Road Sunninghill Johannesburg Email: info@za.syspro.com

SYSPRO South Africa

Lagoon Beach Office Park

Cnr Marine & Boundary Rd

Block A

Milnerton

Cape Town

South Africa

ASIA-PACIFIC

SYSPRO Australia

Suite 1102, Level 12 201 Miller Street North Sydney NSW 2060 Australia Tel: +61 (2) 9870 5555 Toll free: +1 300 882 311 Email: info@au.syspro.com

SYSPRO Australia

Tel: +1300 882 311

SYSPRO Asia

Singapore

059818

8 Eu Tong Sen Street

#19-91 The Central

Tel: +65 6256 1921

E-mail: info@sg.syspro.com

Notting Hill

Melbourne

Australia

CANADA

SYSPRO Canada

4400 Dominion Street Suite 215 Burnaby Vancouver British Columbia Canada V5G 4G3 Tel: +1 (604) 451 8889

Toll free: +1 888 259 6666 Email: info@ca.syspro.com

SYSPRO Canada

5995 Avebury Road Suite 902 Mississauga Ontario Canada L5R 3P9 Tel: +1 905 502 5502

Tel: +27 (0) 21 552 2220 E-mail: info@au.syspro.com Email: info@za.syspro.com

SYSPRO South Africa

4 Nollsworth Crescent Nollsworth Park La Lucia Ridge La Lucia Durban North Tel: +27 (0) 31 566 4240 Email: info@za.syspro.com

SYSPRO East Africa

Ground Floor - Office No.1 E Panari Sky Centre Mombasa Road Nairobi Kenya Tel: +254 720 909 644

+254 720 909 530 Email: info@za.syspro.com

Email: info@ca.syspro.com

SYSPRO Canada 6080 Young Street

Suite 1002

Halifax

Nova Scotia Canada B3K 5L2 Tel: +1 902 423 1256 Toll free: +1 866 979 7776 Email: info@ca.syspro.com

EUROPE

SYSPRO United Kingdom

Baltimore House 50 Kansas Avenue Salford Quays Manchester United Kingdom M50 2GL Tel: +44 161 876 4498 Email: info@uk.syspro.com

USA

SYSPRO USA and Americas

959 South Coast Drive Suite 100 California Tel: +1 (714) 437 1000

Toll free: +1 800 369 8649 Email: info@us.syspro.com

www.syspro.com

V01 Copyright © 2017 SYSPRO. All rights reserved. All brand and product names are trademarks or registered trademarks of their respective holders.