

Comparison of ERPConnect Services (ECS) vs. Duet Enterprise for Microsoft SharePoint and SAP

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Capabilities	Duet Enterprise	ERPConnect Services
Integration with existing SAP Business Systems	<ul style="list-style-type: none"> ERP: 4.6C or higher SAP Business Suite SAP NetWeaver BI <p>Uses RFC or SOAP protocol (requires support in Business System).</p>	<ul style="list-style-type: none"> ERP: 4.6C or higher SAP Business Suite SAP NetWeaver BI <p>Uses RFC protocol.</p>
SAP Data Access	<p>Read/Write Access on:</p> <ul style="list-style-type: none"> RFCs/BAPIs Enterprise Services Screen scraping (via SAP Gateway) 	<p>Read/Write Access on:</p> <ul style="list-style-type: none"> RFCs/BAPIs SAP Tables Screen scraping (via transaction control using Batch Input)
Single Sign-On and User Mapping	With SAML and SAP Assertion Tickets.	With SharePoint Secure Store.

System Landscape*	Duet Enterprise	ERPConnect Services
SAP Business System	Required	Required
SAP NetWeaver Gateway	Required (based on NW ABAP 7.02)	Not required
SAP NetWeaver Enterprise Service Repository (ESR)	Required (for custom solution development)	Not required
Microsoft SharePoint Server 2010	Required (Enterprise Edition)	Required (Foundation, Standard or Enterprise Edition)
Client	Browser supported by SharePoint or Office 2010.	Browser supported by SharePoint or Office 2010.

*See Appendix for System Landscape Illustrations.

Installation	Duet Enterprise	ERPConnect Services
SAP Business System	Optional: Components (ABAP Add-Ons) for Screenscraping and Event Publishing.	No installation required.
SAP NetWeaver Gateway	ABAP Add-Ons via SAINT.	N/A.
SAP NetWeaver ESR	Optional: Sample content, e.g. Time Management	N/A.
Microsoft SharePoint Server	Setup.exe	Setup.exe
Client	No installation required.	No installation required.

Configuration	Duet Enterprise	ERPConnect Services
SAP Business System	Required: <ul style="list-style-type: none"> Connectivity to NW Gateway Single Sign-On Optional: <ul style="list-style-type: none"> Reporting, Workflow 	No configuration required.
SAP NetWeaver Gateway	Required: <ul style="list-style-type: none"> Connectivity to SharePoint Connectivity to SAP Business System Single Sign-On Optional: <ul style="list-style-type: none"> Starter Services, Reporting, Workflow, Role & Profile Sync 	N/A
SAP NetWeaver ESR	Required: <ul style="list-style-type: none"> Connectivity to NW Gateway 	N/A
Microsoft SharePoint Server	Required: <ul style="list-style-type: none"> Connectivity to NW Gateway Single Sign-On Optional: <ul style="list-style-type: none"> Starter Services, Reporting, Workflow, Role & Profile Sync 	Required: <ul style="list-style-type: none"> ECS Service Application Secure Store Target Application (for Single Sign-On)
Client	No configuration required.	No configuration required.

Solution Development		Duet Enterprise	ERPConnect Services
Sample Solutions		<ul style="list-style-type: none"> Delivered as external content types (e.g. customer, contact, product, inquiry, quotation, and employee). Additional components include site templates or web parts. 	Sample solutions are continuously developed and can be obtained from Theobald Software.
Development Tools	SAP Business System	<ul style="list-style-type: none"> ABAP Workbench Customizing (IMG) 	<ul style="list-style-type: none"> ABAP Workbench Customizing (IMG)
	SAP NetWeaver Gateway	<ul style="list-style-type: none"> ABAP Workbench Customizing (IMG) NW Gateway Modeller BDC-Publisher (for export of model to SharePoint) 	N/A
	SAP NetWeaver ESR	Service definitions are created in NetWeaver Gateway.	N/A
	Microsoft SharePoint Server	<ul style="list-style-type: none"> Visual Studio SharePoint Designer 	<ul style="list-style-type: none"> Visual Studio SharePoint Designer ECS Designer (Visual Studio Plug-In) with IntelliSense BCS Connector for no-code solutions
	Client	Visual Studio for: <ul style="list-style-type: none"> Office Client Silverlight Client Script, jQuery, Ajax 	Visual Studio for: <ul style="list-style-type: none"> Office Client Silverlight Client Script, jQuery, Ajax
Data model and 'flattening' of complex SAP structures		<ul style="list-style-type: none"> Model is developed on NetWeaver Gateway and then exported to SharePoint. 	<ul style="list-style-type: none"> ECS Runtime: Flattening is not required; the developer can work with complex data structures. BCS Connector: Flattened data model is generated with the Designer and only exists in SharePoint.



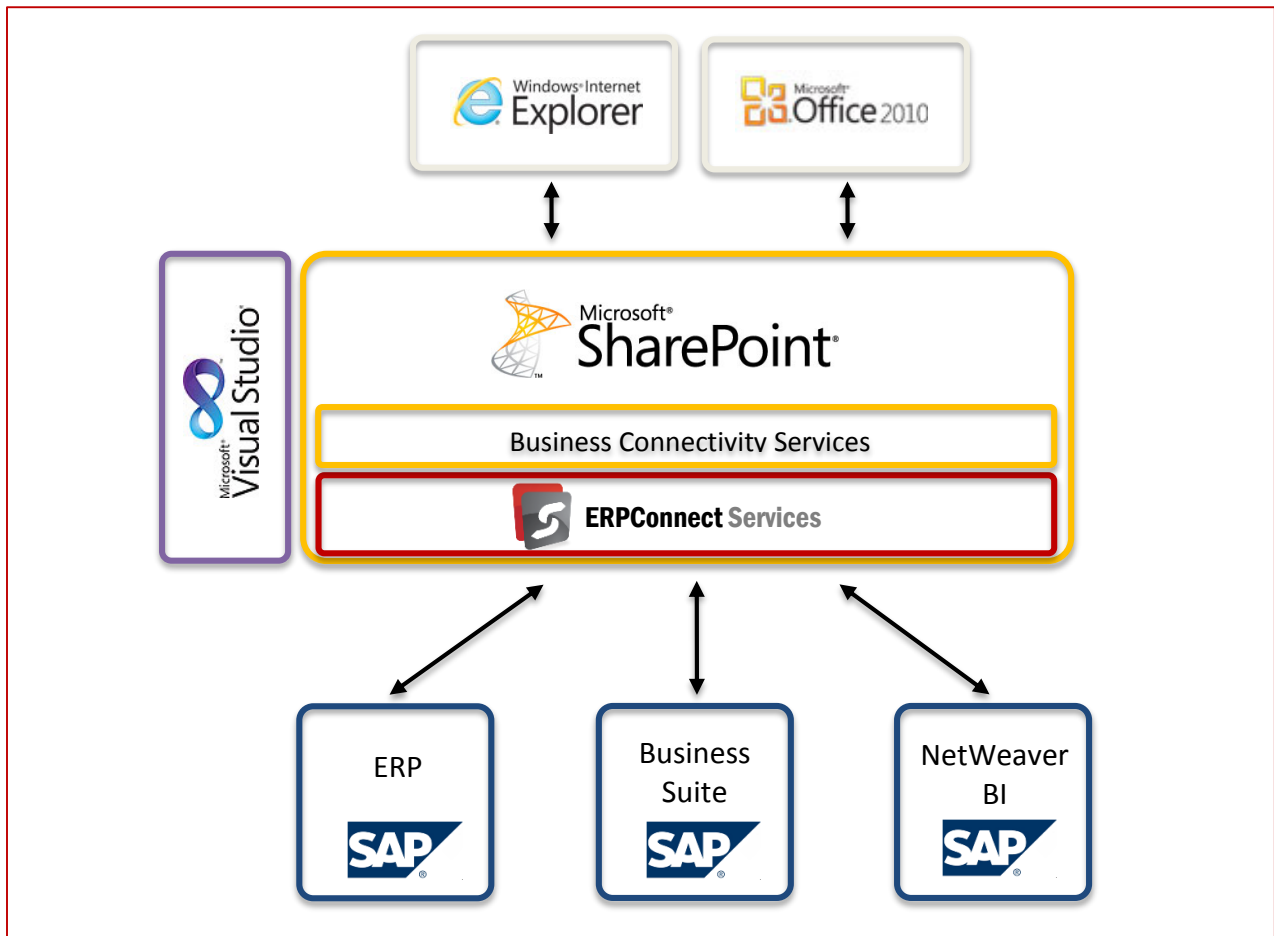
Solution Development	Duet Enterprise	ERPConnect Services
Programming Model for SAP Data Access	For data defined as external content types or in external lists: <ul style="list-style-type: none"> • SharePoint BDC Object Model • SharePoint Client Object Model • SharePoint Web Services 	For data defined as external content types or in external lists: <ul style="list-style-type: none"> • SharePoint BDC Object Model • SharePoint Client Object Model • SharePoint Web Services For direct SAP data access and complex data structures: <ul style="list-style-type: none"> • ECS Object Model • ECS Web Services
Debugging	May involve up to four systems: <ul style="list-style-type: none"> • SharePoint Server • NW Gateway • NW ESR • SAP Business-System 	May involve two systems at most: <ul style="list-style-type: none"> • SharePoint Server • SAP Business-System
Deployment	May involve up to four systems: <ul style="list-style-type: none"> • SharePoint Server • NW Gateway • NW ESR • SAP Business-System 	May involve two systems at most: <ul style="list-style-type: none"> • SharePoint Server • SAP Business-System

Administration	Duet Enterprise	ERPConnect Services
System Monitoring	SCOM Management Packs: <ul style="list-style-type: none"> • Duet Enterprise • Business Connectivity • SharePoint Foundation 	SCOM Management Packs: <ul style="list-style-type: none"> • Business Connectivity • SharePoint Foundation
User Maintenance	<ul style="list-style-type: none"> • SAP users have to be synchronized between SAP Business System and NetWeaver Gateway. • Individual SharePoint users can be mapped to SAP users for Single Sign-On (via SAML mapping in NetWeaver Gateway). 	<ul style="list-style-type: none"> • SAP users need to be maintained in the SAP Business System only. • Individual SharePoint users can be mapped to SAP users for Single Sign-On (via Secure Store in SharePoint).
Software Updates	May involve up to four systems: <ul style="list-style-type: none"> • SharePoint Server • NW Gateway • NW ESR • SAP Business-System 	May involve two systems at most: <ul style="list-style-type: none"> • SharePoint Server • SAP Business-System

Licensing & Support	Duet Enterprise	ERPConnect Services
License	Not published. Dependent on number of users and transaction volume.	Server license: Starting at 3.300 € for 1 SharePoint Server. No user or transaction based license.
Test/Development License	Unknown.	Test license for non-productive usage: 990 €
Maintenance	Not published.	6 months of maintenance and support included in purchase of license. Afterwards 20 % of the current license cost per year.
Trial Version	90 days, pre-configured as virtual machines	30 days , fully functional, free
Free Support during Evaluation	No	Yes
Product Documentation, Online Help	English – on SAP Marketplace, SCN, MSDN, TechNet	English and German – at www.theobald-software.com

Appendix: System Landscape

ERPConnect Services is fully integrated into the SharePoint service architecture. SAP data can be accessed directly using ERPConnect Services or in conjunction with the Business Connectivity Services. There is no need for any additional and complex integration systems.



Duet Enterprise uses NetWeaver Gateway to provide access to SAP data. The NetWeaver Gateway system can be installed and configured as a standalone system, or together with the SAP Business-System. For the integration with SharePoint, the Business Connectivity Services are utilized. A separate NetWeaver Enterprise Repository system is required for the development of custom solutions on Duet Enterprise.

