

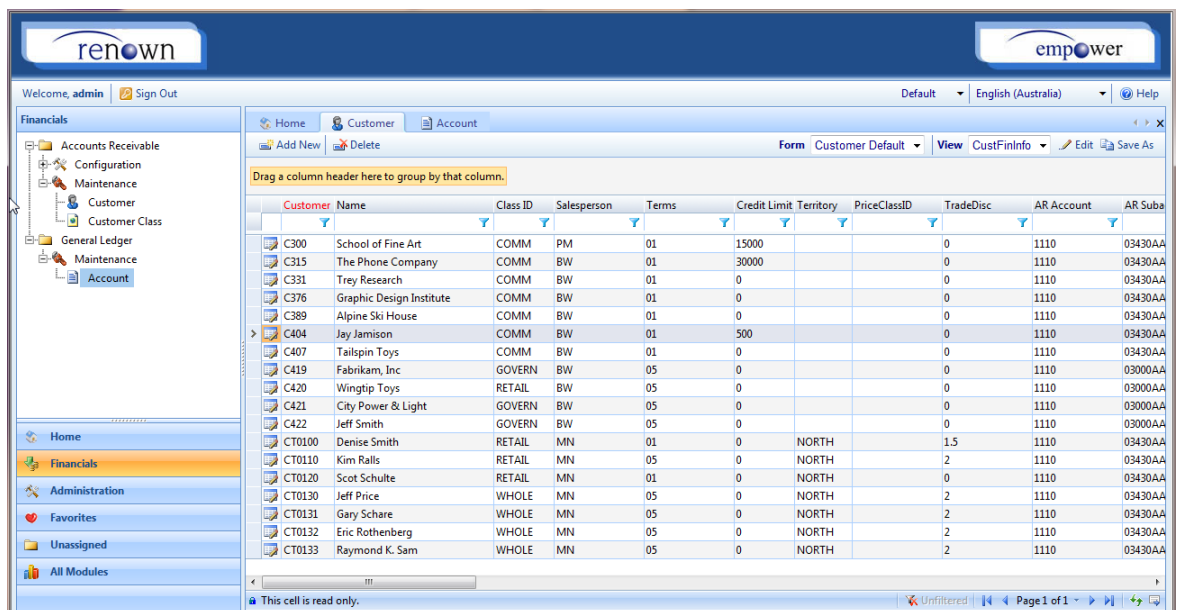
empower has two core elements, an Enterprise Management Portal and Web Development Framework enabling businesses to develop custom applications critical to managing their unique and challenging operational requirements.

Enterprise Management Portal

The Enterprise Management Portal delivers a rich web user interface for businesses to remotely maintain and manage their corporate ERP data held in the Microsoft's leading ERP application, Microsoft® Dynamics™ SL.

The Enterprise Management Portal consists of three key components:

- An Outlook style menu enabling role, process or module based structures.
- Web Views to display user configurable data lists for viewing or editing.
- Web Forms for delivering tailored data processing forms.



The screenshot shows the Renown Enterprise Management Portal interface. The top navigation bar includes the Renown logo, user information (Welcome, admin), and language settings (Default, English (Australia)). The main content area displays a table of customer data with columns for Customer ID, Name, Class ID, Salesperson, Terms, Credit Limit, Territory, PriceClassID, TradeDisc, AR Account, and AR Suba. The table is filtered to show 13 records. The left sidebar contains a navigation menu with categories like Financials, Administration, Favorites, and Unassigned. The bottom status bar indicates 'Unfiltered' and 'Page 1 of 1'.

Customer	Name	Class ID	Salesperson	Terms	Credit Limit	Territory	PriceClassID	TradeDisc	AR Account	AR Suba
C300	School of Fine Art	COMM	PM	01	15000			0	1110	03430AA
C315	The Phone Company	COMM	BW	01	30000			0	1110	03430AA
C331	Trey Research	COMM	BW	01	0			0	1110	03430AA
C376	Graphic Design Institute	COMM	BW	01	0			0	1110	03430AA
C389	Alpine Ski House	COMM	BW	01	0			0	1110	03430AA
C404	Jay Jamison	COMM	BW	01	500			0	1110	03430AA
C407	Tailspin Toys	COMM	BW	01	0			0	1110	03430AA
C419	Fabrikam, Inc	GOVERN	BW	05	0			0	1110	03000AA
C420	Wingtip Toys	RETAIL	BW	05	0			0	1110	03000AA
C421	City Power & Light	GOVERN	BW	05	0			0	1110	03000AA
C422	Jeff Smith	GOVERN	BW	05	0			0	1110	03000AA
CT0100	Denise Smith	RETAIL	MN	01	0	NORTH		1.5	1110	03430AA
CT0110	Kim Ralls	RETAIL	MN	05	0	NORTH		2	1110	03430AA
CT0120	Scot Schulte	RETAIL	MN	01	0	NORTH		0	1110	03430AA
CT0130	Jeff Price	WHOLE	MN	05	0	NORTH		2	1110	03430AA
CT0131	Gary Schare	WHOLE	MN	05	0	NORTH		2	1110	03430AA
CT0132	Eric Rothenberg	WHOLE	MN	05	0	NORTH		2	1110	03430AA
CT0133	Raymond K. Sam	WHOLE	MN	05	0	NORTH		2	1110	03430AA

Portal security can be via Domain authentication or via a web logon challenge. Users are associated to Roles (user groups). User groups are then assigned access to Menus, Views and Forms.

It is possible to define multiple Views and Forms for a single Entity, enabling different groups of users to have different access levels to specific fields or data.

Examples: One group of users may have custom Views and Forms limiting them to display only and hiding sensitive data fields (cost or profit). Views may be created with filters by region restricting users to only seeing records applicable to their region. Custom forms may be created to highlight critical Input fields.

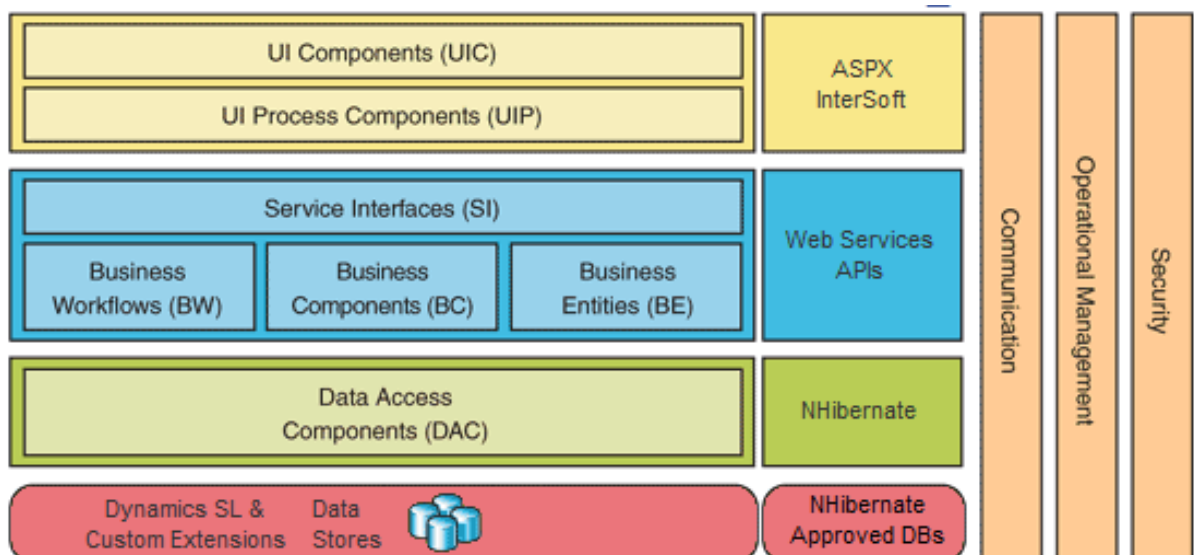
empower has tight integration to Microsoft® Dynamics™ SL and ships with APIs, Views and Forms for most Dynamics SL screens, enabling full read and write access to Dynamics SL via the Enterprise Management Portal.

Web Development Framework

Web Development Framework is designed as a Three- Layered Services application following Microsoft's MSDN patterns and practices. Web UI tools and a code generator, containing Microsoft® Dynamics™ SL business logic, enable users to build and modify custom Entities or extend the provided Dynamics SL Entities.

An Entity is a collection of database objects (tables or stored procedures) and business logic compiled into an API. The APIs are consumed by the Enterprise Management Portal and available as Web Services for external applications.

Views and Web Forms can be created or modified by Users righting to the underlying Entity (API) and updating the Dynamics SL or custom database tables.



The above schematic shows a representation of the layers and technologies used within the empower application including; Presentation, Business and Data.

- **Presentation Layer** - provides the user interface. Empower has been developed using ASP.NET and InterSoft web controls.
- **Business Logic Layer** - applies the business functionality and controls required for data validation, error handling and data processing. The Dynamics SL Entities apply matching business logic as the SL VBA forms.
- **Data Access Layer** - interfaces to the databases using NHibernate and will integrate to any database supported by NHibernate.