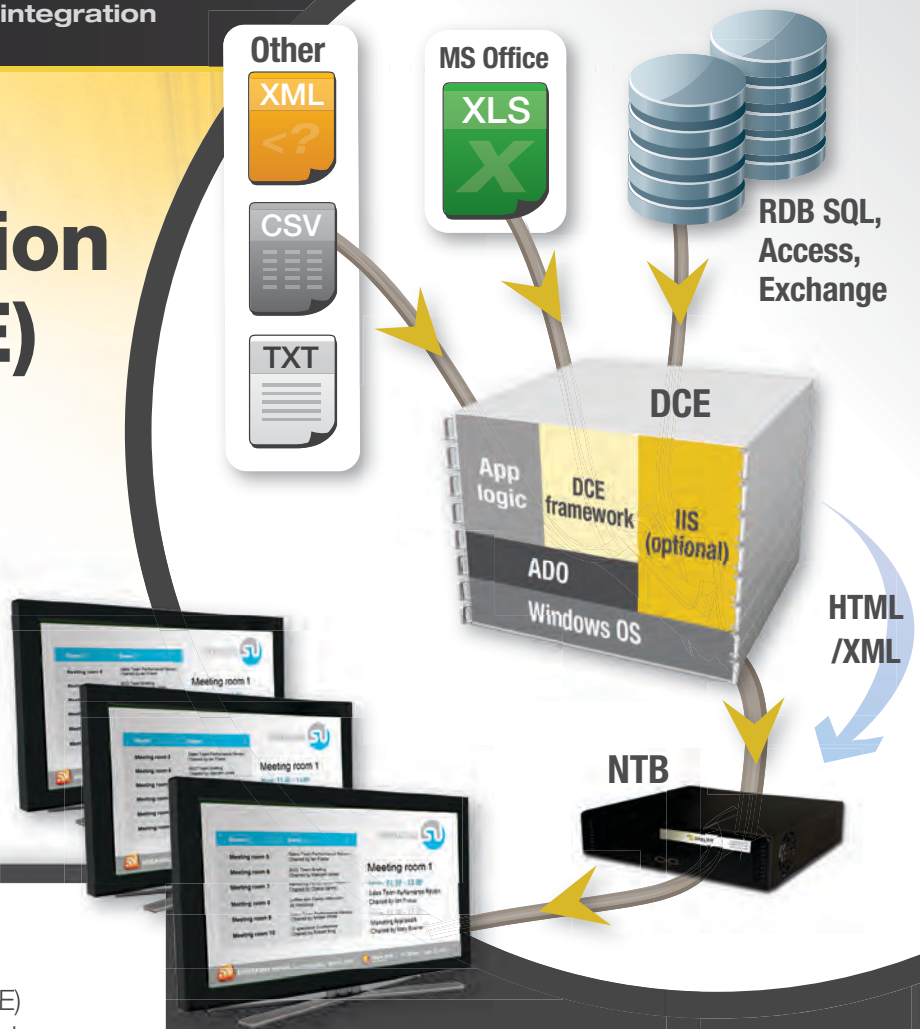


Data Collection Engine (DCE)

ONELAN's Data Collection Engine is a single box solution for capturing, collating and re-purposing data held in external systems for display on a ONELAN Digital Signage System in graphical form.



Overview

The ONELAN Data Collection Engine (DCE) is a framework of software functionality that provides connections between a wide variety of customer data sources to the ONELAN Digital Signage Media Players – the Net-Top-Box series.

The DCE is a software plus hardware solution that runs on a Windows operating system platform. The DCE hardware can be supplied by ONELAN or the customer may use their own platforms.

Example applications

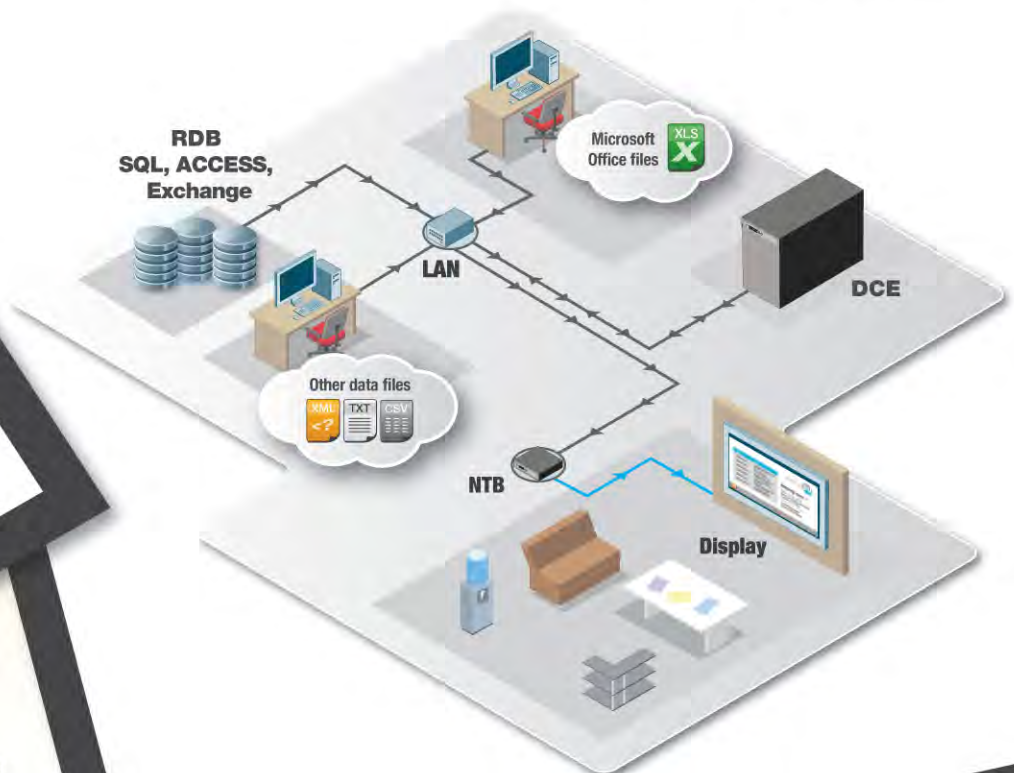
- ◆ **Corporate**
Deliver business process critical information direct to employees
- ◆ **Education**
Deliver room booking summaries and availability to installed digital signage infrastructure
- ◆ **Retail**
Extract live pricing information from POS systems



Key features...

- ✓ **Data Collection** – from user defined sources including queries:
 - Relational databases – such as Microsoft SQL Server, Microsoft Access, Oracle, Microsoft Exchange, PostgreSQL
 - Microsoft Office files – such as Excel
 - Other files – such as .CSV, .XML, .TXT
- ✓ **Data Processing** – execution of application specific logic on the data. Sometimes a null operation for example:
 - Check values within a range, averaging etc.
 - Data look-up based on processed data
- ✓ **Data Re-formatting** – conversion of processed data into 'dynamic media' in a textural or graphical form that can easily be displayed by an NTB – e.g. HTML.
- ✓ **Media Delivery** – Depending on application requirements, the DCE will deliver media to the NTB (a 'push') or will provide an HTML service from which NTBs can 'pull' the media.

DCE Operation



Software Architecture

The DCE is based on a Windows operating system since this gives the widest possible range of interfaces to user data. The Data Collection function is accomplished by using appropriate connector modules and code libraries available with the Microsoft operating system environment in combination with application specific custom queries into the user data sources.

Data Processing code (where required) is typically implemented in a contemporary programming language such as C#.

Data Re-formatting is implemented using library code developed by ONELAN.

Media Delivery will be by FTP or by using the Web service facilities built into Microsoft operating systems – depending on the application requirements.

Integration Service

The DCE can be supplied with or without hardware. The DCE is normally supplied with 2 days of:

- ◆ Consultancy for requirements gathering
- ◆ Configuration / coding
- ◆ Commissioning & training

For installations requiring more than this bundled effort, applications will be quoted on a case by case basis.

Hardware Platforms

Customers may specify their own hardware platform for the DCE. The minimum requirements are generally:

- ◆ Intel Core 2 Duo 2 GHz or better
- ◆ 1G Byte RAM
- ◆ 160GBytes hard disk space
- ◆ Ethernet interface. 10, 100 or 1000 Mbps

For customers who do not express a preference, ONELAN will provide the following or similar:

- ◆ HP Small Business Server (mini-tower) with spec as above