# Manufacturing Operations Management (MOM)

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Installation Guide | Technical

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## Introduction

### **Overview**

SYSPRO's Manufacturing Operations Management (MOM) solution provides complete manufacturing lifecycle management from planning, scheduling, publishing, collecting, tracking and analyzing to optimize and improve end-to-end manufacturing operations.

Used in combination with SYSPRO's ERP, this Manufacturing Execution System (MES) offers a unique level of delivery, cost and quality control of manufacturing operations for job shop, batch production, production line and mixed mode environments, helping to increase productivity, minimize loss and lower production costs.

SYSPRO's MOM is made up of the various components:

- Visual APS Server/Desktop Client
- MOM Website
- SmartLYNQ Website

### **Visual APS Desktop Client**

The Visual APS Desktop Client can be installed locally or on an application server supporting either Citrix or Terminal Services. In situations where Visual APS will be accessed by users in remote locations, the application should be run over Citrix or Terminal Services. Visual APS is used by your production planners for scheduling and publishing purposes. Users can connect to Visual APS using either Windows or SQL authentication. SQL permissions can be granted using the LYNQ application role, database roles, server roles or with explicit SQL permissions. For users outside of the corporate network, SQL authentication must be used if they are not accessing the application on a Citrix/Terminal Server within the same corporate network where SYSPRO is installed.

### **MOM Web Site**

Manufacturing Operations Management (MOM) requires an instance of the application to be installed per SYSPRO Company. Users connect to the Manufacturing Operations Management site using windows authentication from their web browser. Each instance of Manufacturing Operations Management is configured for a specific SYSPRO company and it is recommended to install a separate instance for testing/training purposes in production environments. Users accessing the Manufacturing Operations Management site outside of the corporate network will need to enter their domain and username credentials. Application rights are configured through the Manufacturing Operations Management application.

### **SmartLYNQ Website**

Manufacturing Operations Management (MOM) is a value added application powered by LYNQ. Seamless integration with SYSPRO ERP is achieved using SYSPRO's e.net objects in combination with a web application called SmartLYNQ. In addition SmartLYNQ maintains settings for the configuration of the Manufacturing Operations Management document library. This application should be made available to system administrators and to any user that will maintain the integration of Manufacturing Operations Management to SYSPRO. SmartLYNQ communicates with SYSPRO via the SYSPRO WCF Services. This service must be installed prior to installing SmartLYNQ. Users connect to the SmartLYNQ site using windows authentication from their web browser. Users accessing the SmartLYNQ site outside of the corporate network will need to enter their domain and username credentials.

### **Integration Overview**

The image below describes the flow of information between **MOM** and **SYSPRO**.



Visual APS, the desktop application reads data directly from SYSPRO through a set of SQL Views. If for example you open Visual APS, the Jobs that appear in the Task Panel are read in instantly through SQL views. Visual APS has its own set of tables for storing data local to the application. For example, company-wide configuration settings, detailed scheduling information, material requirements. Visual APS does not maintain its own independent database. When Visual APS is installed and on first connection to a SYSPRO company, the necessary SQL objects are created. Objects include tables,

views, stored procedures and functions. All **Visual APS** SQL object names are prefixed with Lynq\_VP. Objects sit within the **SYSPRO** database. **Visual APS** will write back some information to the Work In Progress Master Table such as start and end dates of the job and this is all done via the logic within SQL. At this point **Visual APS** is not calling the e.Net WCF business objects.

SYSPRO Tables that are referenced by **Visual APS** views can be **Inbound** or **Outbound**. Inbound refers to the data that is read into **MOM** and outbound updates **SYSPRO** tables.

Data Tables	SYSPRO Datasource C	Objects		Direction
Work Centers	[BomWorkCentre]			Inbound
Machines	[BomMachine]			Inbound
Inventory Items	[InvMaster]			Inbound
Inventory Locations	[InvWhControl]			Inbound
Item-Inventory	[InvWarehouse]			Inbound
Forecast Order Lines	[MrpForecast], [ArCusto	omer], [InvMaster]		Inbound
Sales Order Lines	[SorDetail], [SorMaster],	, [ArCustomer]		Inbound
Purchase Order Lines	[PorMasterDetail], [PorM	/lasterHdr], [ApSup	plier]	Inbound
MRP Purchase Order Lines	[MrpSugReqDetail], [Ap	Supplier]		Inbound
Routings	[BomOperations]			Inbound
Routing Operations	[BomOperations]			Inbound
Routing Materials	[BomStructure]			Inbound
Production Orders	[WipMater], [WipMaster	Sub], [InvMaster],	[ArCustomer]	Inbound/Outbound
Production Order Operations	[WipJobAllLab], [\ [BomWorkCentre]	WipMaster],	[BomMachine],	Inbound/Outbound
Production Order Materials	[WipJobAllMat]			Inbound
MRP Orders	[mrpMaster]			Inbound
MRP Order Operations	[MrpSugJobAlLab]			Inbound
MRP Order Materials	[MrpSugJobAlMat]			Inbound
Workforce	[BomEmployee]			Inbound
Production Order Operation Tasks	[WipJobAllLab], [\ [BomWorkCentre]	WipMaster],	[BomMachine],	Inbound

**MOM** reads data via the SQL views, some views sit within the **SYSPRO** database, but **MOM** does have its own local database. This database can be split into three types of databases: **Data** (Transactional data), **Configuration** data or **Logic** data. When installing MOM for non-demonstration purposes, three separate MOM databases are created. When selecting the option to install **MOM** for demonstration purposes all SQL objects are created within the **SYSPRO** company database. MOM SQL objects are prefixed with **LYNQ\_ME**. Five business objects are used for the integration between **SYSPRO** and **MOM**. By default, transactions created in **MOM** via the **Workbench** or via the **Timesheet** function are created with a status of unposted. Within **MOM**, the manual approval process changes the status of a transaction from **Unposted** to **PendingPosting**. All transactions with a status of **PendingPosting** will be considered ready for synchronization to **SYSPRO**. Synchronization to **SYSPRO** is executed via the business objects. From advanced settings> Definitions > Diversions, the default approval status can be set to submitted (unposted), approved or excluded for each individual diversion type.

Refer to the table below which shows how the triggers in MOM update the Work in Progress and Inventory movement business objects.

Work in Progress updated by Business Objects (Outbound)		Triggered by MOM by posting		
WIPTLP	WIP Labor Posting	Labor, Quantity, Status, Scrap Transactions		
WIPTJR	WIP Job Receipt	Quantity Transaction on last operation of type run		
WIPTMI	WIP Specific Issues	Material Issue or Kit Issue Transaction		
INVTMO	Inventory Movement (Warehouse Transfer Out)	Scrap Quantity on last operation of type run (if enabled)		
INVTMI	Inventory Movement (Warehouse Transfer In)	Scrap Quantity on last operation of type run (if enabled)		

**Note:** SQL views are configured as read with no lock against the SYSPRO Database.

The SmartLYNQ install also has its own database and its reads the data from the MOM Data database. It looks at transactions that need to be posted. It will use the configuration of the integration instance and call the WCF Service based on a parameter set and the business object will handle the actual posting. The SYSPRO Web Service then updates SYSPRO and the cycle starts again.

### **Product Versions**

The initial install of Manufacturing Operations Management (MOM) uses the offline installation wizard and the base versions built into this installation wizard. Currently they are:

- Visual APS Build 9.7
- MOM Build 3.8
- Smart LYNQ Build 5.4

The offline installation wizard can be downloaded from the **SYSPRO Learning Channel**.

It is important to note that if you are using your installed version of MOM in combination with the Training Guide, you must update all features of your MOM installation to versions listed below:

- Visual APS Build 9.16
- MOM Build 3.17
- Smart LYNQ Build 5.7

Hotfixes and service packs should be applied frequently using the **Product Updater**. The **Product Updater** requires internet connectivity. Periodically, improvements are made to the **Product Updater** and you can be requested to download a newer version of this file.



Please note that the upgrades available for Manufacturing Operations Management are not dependent on the version of the **Product Updater** you are running.

This guide is for a first time installation of Manufacturing Operations Management.

If you have installed an earlier versions of LYNQ MOM, this must be uninstalled using the **Product Updater** prior to re-installation of SYSPRO Manufacturing Operations Management.

### What's new in MOM

With this release of the software, improvements have been made to better help manufacturers:

- Measure performance to help drive toward world class standards of operation
- Increase productivity and lower costs by minimizing loss within the business
- Optimize operations through the provision of a fully integrated solution which can schedule, publish, collect, track, analyze and improve production efficiencies
- Connect machines and other devices to help digitize the factory to remain competitive supporting Industry 4.0

The following is a summary of the new features and bug fixes included in this release:

#### Improved user experience

- Improved look and feel with hyperlinks for faster navigation
- Simplified user maintenance and access control
- Enhanced resource maintenance
- User specific shortcuts for quick linking to internal & external sites
- Improved management messaging
- Extended access control using workgroups
- · Ability to set file size limits on document uploads
- Ability to attach documents to employee and equipment records
- New functionality to check whether installation has any customization developed by LYNQ
- Enhanced online help with video tutorials

#### Extended finite capacity scheduling & shop floor publishing

- New planning management dashboard
- · Enhanced shift definition for determination of planned hours
- Published schedule with progress tracking
- Improved resource availability tracking
- Order issue tracking with enhanced visibility
- New online loading visibility and loss analysis
- New functionality to auto schedule from the list by operation view
- New functionality to allow editing of operation details on the fly
- New functionality to identify and reschedule late operations
- New "show detail" option when right clicking on a job/operation
- Ability to set a sequence number against the machine
- New functionality to drag and drop multiple operations

- New setting to allow alternate machine scheduling priority
- New ASAP scheduling setting to equally schedule jobs across available alternate machines
- New scheduling setting to take into account the current time when performing auto schedule

#### Enhanced shop floor execution and data collection

- New workforce management dashboard
- Extended workbench functions for employees and equipment
- Automated data collection by connecting machines and other devices
- Manual equipment control including clock in/out, start/stop jobs, status tracking and more
- New "stopwatch" style downtime tracking of availability loss
- Enhanced tracking of performance and quality loss
- Material issue validation of bin/serial/lot items
- Scrap/reject code entry validation & enforcement
- · Job receipts posting including bin/serial/lot
- Extended management with posting of non-productive time
- Extended warning messages by job
- Extended transaction control & reporting

#### New factory performance tracking and analysis

- Loss management dashboard with powerful drilldown to drive continuous improvement
- Factory management dashboard including total effective equipment performance (TEEP)
- Extended employee analysis to drive world class overall labor effectiveness (OLE)
- Extended equipment analysis to drive world class overall equipment effectiveness (OEE)
- Product analysis showing performance and quality metrics by employee or equipment
- Loading charts and analysis for greater understanding of capacity utilization and availability
- Availability analysis for employee (direct/indirect) and equipment (uptime/downtime) reporting
- Performance analysis for actual vs planned run rate analysis
- Quality analysis for scrap/waste analysis

## **Server Configuration and Requirements**

### **Overview**

MOM can be installed in two server configurations:

- Two-tier server configuration where the MOM SQL databases and MOM website are installed/hosted on the same physical or virtual server. The Visual APS application server should be a separate server.
- Three-tier server configuration where the MOM SQL server and MOM website server are on separate servers. The Visual APS application server should be a separate server.

MOM has a number of requirements. Please review these requirements carefully and ensure you have satisfied them prior to the installation:

- Hardware requirements
- Software requirements and prerequisites

### **Two-Tier Server Configuration**

The MOM Two-Tier server configuration is where the Web and SQL are installed on the same Server.

The **MOM Two-Tier** server configuration is where the **MOM Web Site** and the **MOM SQL** databases are installed/hosted on the same physical or virtual server. In the example of a two-tier setup, all components of **Manufacturing Operations Management** will be installed on the same server. **Manufacturing Operations Management**, **SmartLYNQ** and the databases required for each application will reside on the **SYSPRO** Server.

This type of setup is suitable for organizations with a small number of users and where performance and security of the application is less of a consideration. This type of setup is not recommended, especially where a customer wants to make the **MOM Web Site** publicly available. If a single server is compromised both web server and database server are vulnerable.

Normal recommendation is to split out the Web and SQL Servers (Three-Tier).

It is a requirement that **MOM** Databases are hosted within the same **SQL** instance as the **SYSPRO** databases. You do not need to consider a different **SQL Server** or **SQL** instance dedicated to MOM.

A Citrix Server or a RDS Server may be considered if sites have a high number of **Visual APS** users or when **Visual APS** users are connecting to the SQL Server via a WAN/VPN connection. In this scenario, **Visual APS** would be published as an application to the Citrix/RDS Server, providing ease of deployment, centralized management and better application performance over low bandwidth networks.



Note: The Manufacturing Operations Management Web Site database(s) must reside on the same SQL Server or same SQL Server instance as the SYSPRO company databases. SQL Server must be configured in mixed mode authentication.

### **Three-Tier Server Configuration**

The Three-Tier server configuration is where you have a dedicated Web Server and a separate SQL Server.

In the example of a three-tier setup, components of Manufacturing Operations Management will be installed on a dedicated Web and SQL Server. Manufacturing Operations Management and SmartLYNQ will be installed on the Web Server and the applications databases will reside on the dedicated SQL Server. Citrix will be on a separate server.

This type of setup is suitable for organizations where performance and security of the application is an important consideration.



Note: The Manufacturing Operations Management Web Site database(s) must reside on the same SQL Server or same SQL Server instance as SYSPRO. SQL Server must be configured in mixed mode authentication. SYSPRO's terminology around Two-Tier and Three-Tier has a different meaning. SYSPRO's terminology does not refer to the Web Server being split out but whether SYSPRO and the SQL Server are running on the same server or not.

### **Software Requirements and Prerequisites**

The following tables detail the minimum software requirements for all components of Manufacturing Operations Management.

Operating System	Manufacturing Operations Management is supported on the following operating systems:				
	Windows Server 2008 R2				
	Windows Server 2012				
	Windows Server 2012 R2				
Windows Server 2016					
Additional Software	<ul> <li>IIS 7.0+, IIS 8.0+ and IIS 10 with .NET Extensibility Enabled</li> <li>ASP.NET Impersonation and Windows Authentication enabled</li> </ul>				
	<ul><li>Microsoft .NET Framework 4 or above</li><li>SSL Certificate (Optional)</li></ul>				

#### Minimum Software Requirements – Web Server

Supported B	rowsers
-------------	---------

- Internet Explorer 11+
- Microsoft Edge
  - Google Chrome
- Safari

#### Minimum Software Requirements – Database Server

RAM	Cores (virtual)	Cores (physical)	Hard Disk	NIC	Screen Resolution
4GB/8GB	2 to 4	1 processor	1GB	100MB/1GB	21"-24" (1920 x 1080

#### Minimum Software Requirements – Visual APS

Operating System	Manufacturing Operations Management is supported on the following operating systems:
	<ul> <li>Windows Server 2008 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2016</li> </ul>
Additional Software	<ul> <li>Microsoft .NET Framework 3.5 or above</li> <li>Citrix and Microsoft Terminal Services (optional)</li> </ul>
Supported Browsers	<ul> <li>Internet Explorer 11+</li> <li>Microsoft Edge</li> <li>Google Chrome</li> <li>Safari</li> </ul>

**Note: Firefox** browser is not supported.

#### Minimum Software Requirements – SYSPRO

Manufacturing Operations Management reads data directly from a number of SYSPRO tables. The following tables must be populated with data in order to use Manufacturing Operations Management effectively.



## Outbound



Production Order Schedule Flag = 'U' Production Order Date Calculation Method = 'M' Production Order Start and End Date / Time Production Operation Machine Suggested Order Schedule Flag = 'U' Suggested Order Date Calculation Method = 'M' Suggested Order Start and End Date / Time Suggested Operation Start and End Date / Time Suggested Operation Machine

#### Figure 1: Visual APS Desktop Client



**Figure 2: Manufacturing Operations Management** 

### **Minimum Hardware Requirements**

The following hardware requirements should be considered for production environments.

#### **Dedicated SQL Server**

Company Size	Database Size	Users	RAM	Cores (Virtual)	C o r e s (Physical)
Small	<10GB	1 - 10	8GB	2-4	1 processor
Medium	10 - 50GB	11 - 100	16GB	4 - 6	2 processors
Large	50GB +	100+	24GB	6 - 8	2 processors

The disk capacity requirements for the **Microsoft SQL Server** may increase/decrease depending on the volume of jobs/operations generated within **SYSPRO** and the level of activity generated against these jobs/operations.

#### **Dedicated Web Server**

MOM Instances	RAM	Cores (Virtual)	Cores (Physical)	Hand Disk*
1-2	4GB	2 - 4	1 processor	2GB
3 - 4	8GB	2 - 4	1 processor	4GB
5+	16GB	4 - 8	2 processors	5GB+



**Note:** \* (Hard Disk requirements) Allow 1GB of Disk Space per Manufacturing Operations Management (MOM) instance and add any additional space requirements for storing attachments in the document library.

#### Application Server (Citrix/Terminal Services) for Visual APS

The application server should not host the **Microsoft SQL Server** or Internet Information Services due to performance concerns. The application server will require a certain amount of RAM to be set aside for the operating system, leaving the rest for client sessions.

**Visual APS** is processor intensive. While processing the auto scheduling operation, we recommend that you dedicate a separate processor (core) for each Visual APS session. Supplying additional cores for the applications auto scheduling operation will provide faster performance almost proportionally to the number of cores you have used.

Visual APS uses Random Access Memory (RAM) to hold all data while it processes planning data. Each installation will vary on the amount of memory required based on the amount of process data. You should consider 4/8GB RAM per Visual APS session depending on the complexity of scheduling requirements and volume of data.

Hardware	<ul> <li>PC, Laptop, Tablet PC, All-in-One Touch screen PC, iPad</li> <li>USB Host port or Bluetooth for Data Input Devices (Barcode Scanners)</li> <li>1GHz Processor (Dual Core preferable)</li> <li>2GB RAM</li> <li>10" screen minimum for tablet devices</li> <li>1920 x 1080 minimum for screen resolution</li> <li>Case protector (optional)</li> <li>Wall mounting devices (optional)</li> <li>Network Connectivity to Web Server</li> </ul>
Software	<ul> <li>Android and iOS</li> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Internet Explorer 11</li> <li>Google Chrome</li> <li>Safari</li> <li>Microsoft Edge</li> </ul>

#### Manufacturing Operations Management Application and Shop Floor Users

#### Visual APS Desktop Client

RAM	Cores (Virtual)	Cores (Physical)	Hard Disk	NIC	Screen Resolution
4GB/8GB	2 - 4	1 processor	1GB	100MB/1GB	21"-24" or 1920 x 1080

### **SQL Disk and Database Configurations**

Manufacturing Operations Management maintains separate databases for the application logic, application data and the application configuration. It is recommended that the recovery model in Microsoft SQL Server set against the application database is set to full recovery for disaster recovery purposes.



**Note:** Remember to include in any disk capacity calculations adequate space for storing transaction logs, incremental and full SQL backups as required.

Unless you can tolerate any downtime, you should add protection to your servers against unexpected drive failures by using RAID. Hardware RAID implementations are always preferred over software RAID implementations. RAID 0 (disk striping without parity) offers optimal read/write performance, but if a drive fails, IIS/SQL won't be able to continue operation until the drive is replaced and its contents are restored from backup. Because of this, RAID 0 isn't the recommended choice. RAID 1 (disk mirroring) creates duplicate copies of data on separate physical drives, allowing the server to remain operational when a drive fails, and even while the RAID controller rebuilds a replacement drive in a failed mirror. RAID 5 (disk striping with parity) offers good protection against single-drive failure but has poor write performance. RAID 1+0 (disk stripping and mirroring with parity) offers the best level of performance and protection.

For the best network throughput, all servers should be configured with a 1GB Network Interface.

Note: Hardware requirements for both the Database and Web Server should be periodically reviewed to ensure Manufacturing Operations Management's response times are within acceptable levels for your organization. To maintain read/write times it is recommended that Microsoft SQL Server Database Maintenance plans are configured to rebuild and reorganize data on a regular basis.

## Installation

### **Overview**

The software requirements need to be checked before you start the installation. A list of software requirements are shown below and the recommended installation process follows this sequence.

- 1. Install Visual APS.
- 2. Configure Visual APS.
- 3. Install Manufacturing Operations Management.
- 4. Configure Manufacturing Operations Management.
- 5. Install SmartLYNQ.
- 6. Configure an instance of SmartLYNQ to connect to SYSPRO via the SYSPRO WCF Services.

### **Requirements and Prerequisites**

Ensure that you have verified the hardware, system and software requirements.

Software Requirements :

- IIS 7.0+ with .NET Extensibility enabled
- ASP.NET Impersonation and Windows Authentication enabled
- Microsoft .NET Framework 4 and above
- SSL Certificate (Optional)
- Microsoft SQL Server
- SYSPRO e.net communications

Under features of the server, **.NET Framework 4.5 Features (installed)**, there is a **WCF Services (Installed)**. Make sure that the option **HTTP Activation (Installed)** is selected.



### **Installing MOM**

The start of the installation is with a manual download of the Manufacturing Operations Management zip file to a folder of your choice.

There are three features that need to be installed and they are **Visual APS Server**, **Management Operations Management** and **SmartLYNQ**.

The installation wizard allows you to install all three features one after the other.

Note: Between each install there are configurations that need to be completed before the start of the next feature being installed.

#### Visual APS

- The Visual APS Client should be installed by Visual APS user's only after the Visual APS Server feature has been installed and users have been setup in the application.
- The Visual APS client cannot be used to install the pre-requisites for Visual APS.
- Pre-requisites for **Visual APS** are installed as part of the **Visual APS Server** feature. The user installing the **Visual APS Server** feature must have SQL administrator rights as the installation wizard will execute SQL statements that require this level of security.
- The Visual APS Server and Visual APS Client feature will install the same Visual APS application. The Visual APS Server feature should be installed on the Web Server during the installation of the Web Sites.
- When the Visual APS Server install is completed and before you start the Manufacturing Operations Management install, you need to add a Company Database Connection and import at least one resource (machine).

#### Manufacturing Operations Management (MOM)

- Visual APS Server needs to be installed and configured before you start with the MOM install.
- After the MOM install you need to perform a few tasks to configure the feature before installing SmartLYNQ.
- You need to **Configure a Profile** in MOM, Import and activate seats. Each Employee and Machine that are activated consume a seat.

During the Manufacturing Operations Management Install:

Internet Information Services (IIS) Manager				<u> </u>
HELENHOL + Application Po	ols			
File View Help				
Connections	Application Pools This page lets you view and manage th associated with worker processes, cont applications.	e list of application pools on ain one or more applications	the server. Applicati , and provide isolati	ion pools are on among different
> To Derault web site	Filter:       Topology         Name       Image: Comparison of the second	Show All Group by: Status .NET CLR V Started v4.0 Started v4.0 Started v4.0 Started v4.0 Started v4.0 Started v4.0	No Grouping Managed Pipel Integrated Classic Integrated Integrated	Identity ApplicationPoolId ApplicationPoolId ApplicationPoolId LocalSystem

- The MOM install creates it own application call (LynqMEAppPool\_MOM\_MOM). This is found under **Application Pools**.
- It will also create a Web Site under the **Default Web Site**. The Web Site is pre-configured.



• If the IIS role has not been enabled on the Server, the install will enable it automatically, it will select the required options of the role.

#### **SmartLYNQ**

- The install of **Visual APS** has created a **SQL account** called **thinklynqservice**. This account is key to operation of SmartLYNQ and MOM.
- Once SmartLYNQ is installed you need to Configure SmartLYNQ and then Map MOM to SmartLYNQ.

#### **Product Updater**

The installation wizard installs the base versions, currently they are:

- Visual APS Build 9.7
- MOM Build 3.8
- SmartLYNQ Build 5.4

It is important to note that if you are using your installed version of MOM in combination with the Training Guide, you must update all features of your MOM installation to versions listed below:

- Visual APS Build 9.16
- BOM Build 3.17
- SmartLYNQ Build 5.7

You need to run the **ProductUpdater** with **Administrator** rights to update all versions to the latest build.

### **Installation Checklist**

During the installation of Manufacturing Operations Management, you will be requested for the following information.

To prepare for the install it is recommended that you have the following information to hand.

Note: You must be logged on as a windows administrator to perform the install and User Account Control must be disabled on each server or client computer. The user that is completing the installation of Manufacturing Operations Management must be a member of the SQL sysadmin fixed server role. You will be issued with a license file and a Manufacturing Operations Management license name. You must have the license file and license name available before starting the installation.

Requested Information	
Manufacturing Operations Management License Name (Provided by SYSPRO)	
Manufacturing Operations Management License File (Provided by SYSPRO)	
Web Server Name	
Database Server Name	
SYSPRO Database Name	
Manufacturing Operations Management Database Names (created during installation)	
SmartLYNQ Database Name (created during installation)	
Web Site User Name & Password (supplied during installation)	
Network User Names for configuring application security	
SMTP Mail Configuration Settings (optional)	

Manufacturing Operations Management and SmartLYNQ databases are created automatically by the installation wizard. Manufacturing Operations Management Database names are unique to the SYSPRO Company Code that you are installing.

The installation wizard will create databases based on the type of installation selected.

Manufacturing Operations Management Data is stored directly in the SYSPRO database when the option to install a demonstration instance of Manufacturing Operations Management is selected. This is not recommended for Production or Test environments.

The [CompanyCode] is specified during the installation wizard and represents the SYSPRO company code.

Manufacturing	<b>Operations</b>	Management	<b>Databases</b>

Environment	Content Type	Database Name
Production	Data	MOM_[CompanyCode]_Data
	Configuration	MOM_[CompanyCode]_Config
	Logic	MOM_[CompanyCode]_Logic
Test	Data	MOM_[CompanyCode]_Data
	Configuration	MOM_[CompanyCode]_Config
	Logic	MOM_[CompanyCode]_Logic
Demonstration	Data	SYSPRO Database
	Configuration	SYSPRO Database
	Logic	SYSPRO Database

#### **SmartLYNQ Databases**

Environment	Content Type	Database Name
Production	Data	Default is SmartLYNQ (Can be overwritten)
Test/Demonstration	Configuration	Default is SmartLYNQ (can be overwritten)
	Logic	Default is SmartLYNQ (can be overwritten)

#### **SQL Server Connection Strings**

The Manufacturing Operations Management and Smart LYNQ Web Sites connect to the databases (both Manufacturing Operations Management and SYSPRO) using the account specified in each of the applications web.config file. The SQL account "thinklynqservice" is automatically created during the installation process specifically for this purpose.

Note: Ensure that you have enabled mixed mode authentication in SQL before proceeding. It is important that this account is not deleted and/or the password changed. Changing any of the account settings will prevent the web site applications from working.

The installation wizard will install the necessary pre-requisites for internet information services. You must however ensure that Microsoft SQL Server, SYSPRO WCF services and any required licencing has been installed prior to installing Manufacturing Operations Management.

### **Installing Visual APS Server**

The following steps describe how to install Visual APS Server

- These installation steps will reference the SysproCompanyMOM database. You will reference your company's database(s) instead. However, if you are installing this for a demo environment, please ensure that you have loaded the SYSPRO MOM demonstration company with the SysproCompanyMOM database and are able to log in to SYSPRO.
  - 1. Logon as the administrator to the server where you have chosen to install the web site features of **Manufacturing Operations Management**.
  - 2. Run the file name **Manufacturing Operations Management Suite.exe** to start the installation wizard.

The *Welcome to Manufacturing Operations Management Suite Setup* window is displayed.



3. Select Next >.

The *Features to Install* window is displayed.



4. Select the feature(s) to be install and select Next >.

For our purposes, select **Server Features: Visual APS Server**. You will be installing each feature separately.

Select **Next >** to continue.

Note: The Visual APS Client should be installed by Visual APS user's only after the Visual APS Server feature has been installed and users have been setup in the application. The Visual APS client cannot be used to install the pre-requisites for Visual APS. Pre-requisites for Visual APS are installed as part of the Visual APS Server feature. The user installing the Visual APS Server feature must have SQL administrator rights as the installation wizard will execute SQL statements that require this level of security. The Visual APS Server and Visual APS Client feature will install the same Visual APS application. The Visual APS Server feature should be installed on the Web Server during the installation of the Web Sites

The End-User License Agreement window is displayed.

👼 Manufacturing Operations Manage	ment Suite Setup	$\times$
📩 End-User License Ag	greement	
Collecting information	Please read the following license agreement carefully	
Installing	LICENSE AGREEMENT IMPORTANT! THIS IS THE LICENSE AGREEMENT TERMS OF USE THAT YOU ARE REQUIRED TO ACCEPT BEFORE INSTALLING AND USING LYNQ LIMITED	Î
Finalizing installation	SOFTWARE. CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT BEFORE PROCEEDING WITH THE DOWNLOADING AND/OR INSTALLATION OF THIS SOFTWARE PRODUCT. BY OPENING OR BREAKING THE SEAL ON THE SOFTWARE PACKAGE, INSTALLING OR DOWNLOADING THE SOFTWARE, OR USING THE SOFTWARE THAT HAS BEEN PRELOADED OR IS EMBEDDED IN YOUR PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS, PROMPTLY RETURN ALL SOFTWARE ITEMS (DISKS, WRITTEN MATERIALS, AND PACKAGING) AND DELETE ANY PRELOADED OR EMBEDDED SOFTWARE.	,
	I accept the terms in the License Agreement	
	O I <u>d</u> o not accept the terms in the License Agreement	
powered by LYNQ	< Back Next > Cancel	

Select I accept the terms in the License Agreement and then Next >.
 The Apply License window is displayed.



 Browse and select the license file sent to you by SYSPRO. Do NOT rename the license file. Enter your license name as sent to you by SYSPRO and select Next > to continue.

The License Name is not case sensitive.

The Confirm the License name Window is displayed.

Confirm t	he licence name	×
1	Have you typed the licence name "	
	Yes No	

7. Confirm the license name entered and select Yes.

The *Ready to Install Features* window is displayed.



8. Select **Install** from the *Ready to Install Features* window to start the installation of the **Visual APS Server**.

The Welcome to Visual APS Server Setup window is displayed.



#### 9. Select Next >.

The Installation Folder window is displayed.

installation Folder					
	This is the folder where the Visual A	.PS Client will t	oe installed		
Collecting information					
Preparing installation	To install in this folder, click "Next". To in "Browse".	istall to a differe	ent folder, enter it	below or click	
Installing					
Finalizing installation	Folder:				
	C:\SYSPRO\LYNQ\Visual APS\			Browse	
powered by LYNQ		< Back	Next >	Cancel	

#### SYSPRO EDUCATION

Manufacturing Operations Management (MOM) | 28

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 Browse for the folder where you want to install Visual APS Client and select Next > to continue.

It is recommended to use the default folder.

Note: Visual APS creates SQL objects in the selected SYSPRO databases when Visual APS first connects to each SYSPRO database.

The Configuring SYSPRO for Visual APS window is displayed.



11. Select **Next >** to continue.

The Select SQL Server for SYSPRO window is displayed.

Visual APS Server Setup	X
👌 Select SQL Server	for SYSPRO
	Select the name of the SQL Server which hosts the SYSPRO Databases
Collecting information	Server: (local) ~
Preparing installation	
🔵 Installing	You MUST specify a user that is a member of the SYSADMIN role to install the Visual APS Server components The installation will prepare your system for the SYSPRO database(s)
Finalizing installation	you select during the installation wizard.
	Trusted Connection (Windows integrated authentication) Username: Password: You MUST test the SQL connection before clicking on the "Next" button Click here to test the SQL Connection
powered by LYNQ	< Back Next > Cancel

12. Enter the required **Server** information, test the **SQL Connection** and **Next** > to continue.

Select (local) if the **SYSPRO** database resides on the local computer or select the **server** where the **SYSPRO** databases reside.

Select how you wish to connect to the **SQL Server** (Windows or SQL Authentication).

Test the SQL connection by clicking on the 'Click here to test the SQL Connection''.

If the SQL Connection is successful you can select Next > to continue.

Note: If the SQL Server Browser Service is not running on your network, type in the server name. Visual APS does not use any ODBC calls.

The SYSPRO PRODUCTION Company Database window is displayed.



13. Select a **PRODUCTION (Live) company** that **Visual APS** will connect to or add the company later.

Select **SysproCompanyMom** and click **Next >** to continue.

#### Note:

At this point you are given an option to automatically setup a database connection between **Visual APS** and the **SYSPRO Company**. You can ignore this and setup the company when you launch **Visual APS**. This **SYSPRO Company database name** will be validated by the system. It will also validate if there is any data that **Visual APS** will not be able to handle.

SYSPRO Databases are case sensitive whereas MOM is case insensitive.

The SYSPRO SANDBOX/DEMO Company Database window is displayed.

To Visual APS Server Setup	X				
👌 SYSPRO SANDBOX	SYSPRO SANDBOX/DEMO Company Database				
	Select the name of the SANDBOX/DEMO company that Visual APS will connect to				
Collecting information	Company:				
Preparing installation					
🔵 Installing	The installer will automatically configure Visual APS for the company you have selected from the list. A new database connection will be saved wiithin your Visual				
Finalizing installation	APS profile.				
	Do NOT configure a SANDBOX/DEMO company				
powered by LYNQ	< Back Next > Cancel				

14. Select whether or not you will create a the **SYSPRO SANDBOX Company**. Select **Next >** to continue.

For our purposes, you will not be configuring a **SYSPRO SANDBOX/DEMO Company**.

Select **Do NOT configure a SANDBOX/DEMO company**. Select **Next >** to continue.

The Configure Additional Companies window is displayed.



15. You can configure additional companies by selecting **Yes - I want to configure additional companies**, else select **Next >**.

For our purposes, DO NOT select the option. Select **Next >** to continue.

#### Note:

The **Visual APS Server** installation can only support the configuration of **two** companies.

To add additional companies, click **Yes – I want to configure additional companies** for further instructions.

The APS Administration Account window is displayed.

To Visual APS Server Setup	×			
aPS Administrator	Account			
	Configuring the Visual APS Administrator Account			
Collecting information				
Preparing installation	The installation wizard will create a Visual APS Administrator Account named "thinklyngadmin" with the password specified below. NOTE: This account will receive the highest SOL security.			
Installing	priviledges.			
Finalizing installation	It is recommended that this account is created in scenarios where the user installing the application will not be the administrator of the Visual APS application.			
	Specify the password for the user (thinklyngadmin) below			
powered by LYNQ	< Back Next > Cancel			

16. You have the option of creating a **Visual APS (SQL) Administrator** account by entering a password or assume that the windows login that is running the install will be administrator by selecting **Do NOT configure a separate APS Administrator account**.

For our purposes select **Do NOT configure a separate APS Administration Account** and then **Next >** to continue.

Note: The install allows you to create a separate admin user for Visual APS. There are times when the person installing the software is not the normal IT administrator of the system. They could be a contractor or someone that is not normally around all the time.

The *Ready to Install* window is displayed.

💿 Visual APS Server Setup				×	
👸 Ready to Install					
	The Setup Wizard is ready	The Setup Wizard is ready to begin the Visual APS Server installation.			
Collecting information					
Preparing installation	Visual APS will automatically c	onnect to the following ser	ver and company(:	5)	
Installing					
Finalizing installation	SQL Server Name:	(local)			
	Production Database: Sandbox/Demo Database:	SysproCompanyMom Not Defined			
	Authentication:	WindowsAuthentication			
	Click "Install" to begin the inst installation settings, click "Back	sllation. If you want to rev ". Click "Cancel" to exit th	iew or change any e wizard.	of your	
powered by LYNQ		< Back	Install	Cancel	

17. Confirm that you have selected the correct options from the previous dialog windows and click **Install**.

The Installing Visual APS Server window is displayed during the installation.



Once the install is complete the *Visual APS Server Setup Complete* window is displayed.
Visual APS Server Setup			X
📩 Visual APS Server	Setup Complete		
<ul> <li>Collecting information</li> <li>Preparing installation</li> <li>Installing</li> <li>Finalizing installation</li> </ul>	Click the "Finish" button to exit the S	ietup Wizard.	
powered by LYNQ		< <u>B</u> ack <b>Finish</b>	Cancel

18. Select Finish.

The *Manufacturing Operations Management Suite Setup Complete* window is displayed.

👼 Manufacturing Operations Mana	gement Suite Setup				×
👌 Manufacturing Op	erations Management Suite S	etup Com	plete		
	Click the "Finish" button to exit the	Setup Wizard.			
Collecting information					
Preparing installation					
🔵 Installing					
Finalizing installation					
/					
/					
/					
powered by LYNQ		< Back	Finish	Cancel	

- 19. Select **Finish** to exit.
- 20. The Visual APS Client will be loaded.

### **Note:**

You will need to complete the following configuration tasks before continuing with the installation. They are:

- Adding a new database connection
- Importing a machine.

DO NOT move onto the MOM install before completing the tasks mentioned above.

### Adding a company database connection

The following steps describe how to add a new company database connection in the Visual APS Client.

1. When the first install of **Visual APS** is complete the **Visual APS Client** will be opened.

The Visual APS home page is launched,



View or add a new Company Database Connection.
 Select File>Open>Company from the top left hand corner of the window.

The **Open Database** window is displayed and shows the connection to the database you have selected during the install.

Open Database			x
Scheduling interval from:	8878/06/712 -	to <b>2818/09/88</b> ×	
Server	Company	Authentication Mode	From
) (local)	SysproCompanyMom	WindowsAuthentication	2008/86/4
			<b>v</b>
New Database Connecti			
New Database Connecti	on		$\odot$

You can add additional Company Database connections by clicking on New Database Connection if you need to add more Company Database Connections.
 You have already added the connection to the SYSPRO MOM database and therefore do not need to add another.

The *Edit Settings* window is displayed.

Scheduling interval	from: 🕅	<b>XXXXX</b> □ ▼ to	****	
Comp	any	Authentication Mod	e From	T
•				-
Server				
Authentication				Security
Windows Au	thentication	Login		App Role
SQL Server A	uthentication	Password		
Company Type of	latabase nam	e		ОК
New Database Co	nnection			

#### 4. Enter the information required for the **New Database Connection**.

Browse and select the **Server Name**. You can leave the **Authentication** method as Windows Mode. It is recommended to select **App Role** for **Security** purposes. Browse at the **Company** prompt and select the required SYSPRO database.



The **App Role** is related to how **SQL security** is assigned to a user. It is only required if the **Login** (either Windows or SQL) does not have rights via a database or server role i.e. (data reader, data writer, database owner, sysadmin). When using the **App Role**, the Login (either Windows or SQL) requires minimal security. The **Login** must be mapped to the SYSPRO Database **Public** Role. **App Role** is the most secure form or assigning security to users.

5. Select OK.

### How to import machines

The following steps describe how to import machines in Visual APS.

1. Select **Home** > **Import** from the toolbar.

	FILE	HOME	м	ANAGE	PLAN SC	HEDULE	REVIEW	/ RE	PORTS	VIEW		
	0		ø	8	бо	0		8-8 03	7		?	
	Work Cen	ters Ma	chines	Alternatives	Constraints	Import	Mapping	Shifts	Changes	Activities	Help	
l				Factory	/				Shifts		Online Help	

The Import Machines window is displayed.

Import Machines	_ = ×
Infinite Resource	
Resources	
Resource Type:	Not Defined -
Default Resource Qty:	1
Float Resource Usage:	
Float Resource Usage Type:	All
Float Discrete Resource Usage:	
Min Resource Consumption:	0
Max Resource Consumption:	0
Recommended Load Level(%):	100
Split Task Consumption (Min)	00:00
Split Task Interruption (Max)	00:00
C Shifts	
Shift: Default - Default Shift	•
Edit Default Shift	Changes
	Ok Cancel

2. Select the resource type and default shift.

Select Machines - Machine Hours from the dropdown list.

Accept the **Default - Default Shift** for the **Shift**.

Select **Ok**.

The Machine Import window is displayed showing all the available machines to be imported.

h	npo	ort	Machines		- = •
ſ		D	rag a column header here	to group by that column.	E.
I			Work Center	Description	Select
I	⊧	٠	ABC_AS	Assembly for AB Costing	J
L		ŧ	Tools	Tools	J
L		+	ASSEMB	Assembly	J 2
L		٠	BOTT	Bottling	J 2
L		+	CAST	Casting	1
L		٠	DIG	Digging/Excavation	1
L		+	DRILL	Drilling	J 🕴
L		+	DRY	Drying	J /
L		٠	FIRE	Firing	J 7
L		٠	GALV	Galvanizing/Plating	J
L		٠	GFMD	Molding	1
L		+	GGASSY	GARDEN GATE - ASSE	J )
L		٠	GLAZE	Glazing	J 2
L		+	LATHE	Lathe	J
L		٠	MBBA	Bicycle Brake Assembly	J 2
L		+	MBCC	Bicycle Cleaning Center	J
L		+	MBFA	Bicycle Assembly	J
L		+	MBQA	Quality & Inspection	J (*
I		+	MBWA	Bicycle Wheel Assembly	J
I		٠	MHBA	Handle Bar Assembly	J
I		+	MIX	Mixing	J
		٠	N-CAST	Casting - North	J
		٠	N-DRY	Drying - North	1
		٠	N-FIRE	Fire - North	J
		٠	N-GLZ	Glazing - North	J

3. Select the machine(s) to import into Visual APS and click Ok.

Importing machines is function that is done during an implementation. However, to continue with the MOM install you need to have at least one machine imported.

By default all the machines have been selected.

**Deselect** all the **Work Centers** by clicking on **Select**. Select **Work Center ABC\_AS** - **Assembly for AB Costing**. Click on **Ok**.

4. Exit the program.

### **Installing Manufacturing Operations Management**

The following steps describe how to Install Manufacturing Operations Management.

You need to install **Visual APS** before installing MOM.

- 1. Logon as the administrator to the server where you have chosen to install the web site features of **Manufacturing Operations Management**.
- 2. Run the file name **Manufacturing Operations Management Suite.exe** to start the installation wizard.

The *Welcome to Manufacturing Operations Management Suite Setup* window is displayed.



3. Select Next >.

The *Features to Install* window is displayed.



 Select the feature(s) to be install based on the components you are licensed for and select Next >.

For our purposes, select **Server Features: Manufacturing Operations Management Web Site**.

Select **Next >** to continue.

The End-User License Agreement window is displayed.

👼 Manufacturing Operations Manage	ment Suite Setup	$\times$
📩 End-User License Ag	greement	
Collecting information	Please read the following license agreement carefully	
Installing	LICENSE AGREEMENT IMPORTANT! THIS IS THE LICENSE AGREEMENT TERMS OF USE THAT YOU ARE REQUIRED TO ACCEPT BEFORE INSTALLING AND USING LYNQ LIMITED	Î
Finalizing installation	SOFTWARE. CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT BEFORE PROCEEDING WITH THE DOWNLOADING AND/OR INSTALLATION OF THIS SOFTWARE PRODUCT. BY OPENING OR BREAKING THE SEAL ON THE SOFTWARE PACKAGE, INSTALLING OR DOWNLOADING THE SOFTWARE, OR USING THE SOFTWARE THAT HAS BEEN PRELOADED OR IS EMBEDDED IN YOUR PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS, PROMPTLY RETURN ALL SOFTWARE ITEMS (DISKS, WRITTEN MATERIALS, AND PACKAGING) AND DELETE ANY PRELOADED OR EMBEDDED SOFTWARE.	,
	I accept the terms in the License Agreement	
	O I <u>d</u> o not accept the terms in the License Agreement	
powered by LYNQ	< Back Next > Cancel	

Select I accept the terms in the License Agreement and then Next >.
 The Apply License window is displayed.

🌄 Manufacturing Operations Management Suite Setup				
Apply Licence				
	Select the location of the Manufacturing Operations Management License File			
Collecting information				
Preparing installation	You will not be able to install any features of Manufacturing Operations Management without a valid license. If you have been sent a license file you can apply this by browsing for the file.			
Installing				
Finalizing installation	Browse for Licence:			
/	Browse			
	IMPORTANT: Do not rename the license file that has been sent to you. The filename should be in the format (nnn_License.vpkey)			
	Enter your licence name as specified in the email to you			
	Licence Name:			
powered by LYNQ	< Back Next > Cancel			

 Browse and select the license file sent to you by SYSPRO. Do NOT rename the license file. Enter your license name as sent to you by SYSPRO and select Next > to continue.

Note: The license Name is not case sensitive.

The Confirm the License name Window is displayed.

Confirm th	ne licence name	×
1	Have you typed the licence name "CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
	Yes No	

Confirm the license name entered and select Yes.
 The *Ready to Install Features* window is displayed.



8. Select Install.

The Welcome to Manufacturing Management Setup window is displayed.



9. Select Next > to continue.

The Configure Demonstration Instance window is displayed.



10. Select **Next >** to continue.

**Note:** If you want to configure a demonstration instance you would select **Yes**.

The **Select Manufacturing Operations Management Components** window is displayed.

👼 Manufacturing Operations Manag	jement Setup				×
📩 Select Manufacturi	ng Operations Management	Compone	nts		
	Select the components of Manufact	turing Operati	ons Managemen	t	
Collecting information	Will you be using Planning Manager?				
Preparing installation	O Yes				
Installing	O No				
Finalizing installation	Will you be using Workforce Manager?				
/	O Yes				
	No No				
	Will you be using Factory Manager?				
	O Yes				
	● No				
powered by LYNQ		< Back	Next >	Cancel	

11. All components need to be installed. Select **Next >** to continue.

The Configure Instance Database Settings window is displayed.

👼 Manufacturing Operations Manager	ment Setup X
👌 Configure Instance I	Database Settings
<ul> <li>Collecting information</li> <li>Preparing installation</li> </ul>	Select the name of the SQL Server where SYSPRO is installed Server: (local) ~ You MUST specify a user that is a member of the SYSADMIN role to install Manufacturing
Tostalling	Operations Management. Select how you wish to connect
<ul> <li>Finalizing installation</li> </ul>	Trusted Connection (Windows integrated authentication)
	SQL Authentication Username: Password: Select which SYSPRO Database and company code this instance will relate to Database: SysproCompanyMom
	You MUST test the SQL connection before clicking on the "Next" button Click here to test SQL Connection Connection successful
powered by LYNQ	< Back Next > Cancel

12. Enter the configuration information, test the connection and then select Next >.

At the **Database** field, browse and select **SysproCompanyMom**. Enter *MOM* at the **Company Code** field.

Test the **SQL Connection** and if successful select **Next >** to continue.

Note: The company code will become part of the URL and needs to be unique. MOM can be linked to multiple companies which are referred to as instances. Each instance needs to be licensed.

The Configure Message Centre Settings window is displayed.

Manufacturing Operations Mana	gement Setup	$\times$
📩 Configure Messag	e Centre Settings	
	Configure the Message Centre for Manufacturing Operations Management	
Collecting information	Use the message centre to send and view messages to and from the shop floor. Review performance and other data alerts.	
Preparing installation		
Installing	Note: message centre settings can be configured after the installation of Manufacturing Operations Management. Click "Next" to ignore these settings and configure at a later time.	
Finalizing installation		
	SMTP Server Name:   SMTP Server Port:   Use SSL   Account Name:   Password:   Email Address:	
powered by LYNQ	< Back Next > Cancel	

13. If you want to send messages to and from the **Shop Floor** enter your **SMTP** details and then select **Next** >.

For our purposes you will not be sending messages to and from the Shop Floor. Select **Next >** to continue.

You will be able to set up SMTP changes to this later if required.

The *Installation Folder* window is displayed.



14. Browse for the folder where you want to install **MOM** and select **Next >** to continue. It is recommended to use the default folder.

**Note:** The **MOM installation Folder** is unique to each company.

The *Ready to Install* window is displayed.



15. Select Install.

The *Installing Manufacturing Operations Management* window is displayed during the install.



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🌄 Manufacturing Operations Mana	gement Setup			×						
📩 Manufacturing Ope	Manufacturing Operations Management Setup Complete									
	Click the "Finish" but	ton to exit the Setup Wizard.								
Collecting information										
Preparing installation	Manufacturing Operation	ons Management has been installe	d for the following i	instance						
Installing										
Finalizing installation	Site Name:	http://HELENHOL/MOM_MOM								
	Databases:	MOM_MOM_Data MOM_MOM_Logic MOM_MOM_Config								
	MOM_MOM_Coning SYSPRO Database SysproCompanyMom									
	Manufacturing Operations Management will automatically load in the browser. Please do not close the browser until the application is fully loaded.									
powered by LYNQ		< Back	Finish	Cancel						

16. Select Finish.

The *Manufacturing Operations Management Suite Setup Complete* window is displayed.

Nanufacturing Operations Mana	gement Suite Setup				×
Manufacturing Ope	erations Management Suite S	etup Com	plete		
	Click the "Finish" button to exit the	Setup Wizard.			
Collecting information					
Preparing installation					
Installing					
Finalizing installation					
powered by LYNQ		< Back	Finish	Cancel	

17. Select Finish.

The **MOM Web Site** will open with a URL **localhost/MOM\_MOM**. The last three characters represent the **SYSPRO Company ID**.

Start-up Configuration ×	Vicitan Visilitati — 🗆 🗙
← → C ☆ localhost/MOM_MOM_MenuPages/Administration/StartConfigurator.aspx?pt=0	९ ☆ 🔄 :
🗱 Apps G www.google.co.za 📴 Helen 📴 IDEAL 🧾 PartnerUP 🛄 SYSPRO 🛄 MOM	
	0000000
HOME   PLANNING   WORKFORCE   FACTORY	PRINT   EMAIL   BOOKMARK
Start-up Configuration	
Profiles User Maintenance Seats	
Drag a column header here to group by that column	
Name Description	
•	۲
SM R2 Build 3.8	

### Note:

Before you continue with the **SmartLYNQ** install you need complete the following tasks in MOM:

• Configuring a Profile

• Importing and Activating Seats.

# **Configuring a MOM profile**

The following steps describe how to associate a MOM build to a Profile.

When the first install of Manufacturing Operations Management (MOM) is complete, it will load the MOM Web Site so that you can perform some Start-up Configuration.

👌 Start-up Configuration 🗙	
← → C ☆ O localhost/MOM_MOM/MenuPages/Administration/StartConfigurator.aspx?pt=0	
🗰 Apps 💪 Google 🧧 Helen 🧧 IDEAL 🧧 PartnerUp 📑 SYSPRO Education 📑 SYSPRO 🙋 Helen Hollick - Outlo 🌓 intr	anet 🗋 ERP Software
HOME   PLANNING   WORKFORCE   FACTORY	
Start-up Configuration	
Profiles User Maintenance Seats	
SAVE CURRENT LOAD SELECTED EDIT DELETE EXPORT TO FILE IMPORT FROM FILE	
Drag a column header here to group by that column	
Name	Descriptio
	Ŷ
SM R2	Build 3.8

1. The installer comes with a the default build and this needs to be associated with the **Profile**.

Associate the Build 3.8 to the Profile and then select LOAD SELECTED.

**Note:** The Profile contains a number of defaults, system configurations so that you don't have to configure everything from scratch.

The *Confirmation* window is displayed.



Select OK.
 You now need to move onto the importing one or more seats (employees and/or equipment) and activating them. (Task Importing and Activating Seats).

# Importing and activating seats

The following steps describe how to import and activate seats.

Seats refer to **Employees** and **Equipment**. MOM is licensed by the number of seats.

From the previous task the **Start-up Configuration** is still open.

SYSPE Simplifying your S		IPANY M	ОМ					99
HOME   PLANNI	NG   WORKFORCE	FACTORY					PRINT   EMAIL   BO	OKMARK
Start-up C	Configuratio	۱						
Profiles	User Maintenance	Seats						
SAVE CURRENT	LOAD SELECTED	EDIT	DELETE	EXPORT TO FILE	IMPORT FROM FILE			
Drag a column he	eader here to group	by that column						
	Name					Description		
					Ŷ			Ŷ
	SM R2					Build 3.8		

1. From Start-up Configuration select Seats, select IMPORT and then IMPORT EMPLOYEES.

The **Employees** window is displayed.

🏍 Em	ployees		×
	Employee	▲ Crew	
		•	+
	Dan Fisherman		-
	Dean Cook		
	Donald McLain		
	Jacob Stottman		
	James Francis		
	Jane Smith		
	Jill Freeman		
	Justin Franks		_
	Lisa Denton		
	Loran Launham		
	Maria Wilson		
	Mike Thompson		
	Paul Best		
	Richard Neil		
	Sandy Cornfield		
			OK

2. Select to import the Employees and the select OK.

As with Machines you normally import Employees during implementation.

You will only import one employee and that is Dan Fisherman.

Select Dan Fisherman and OK.

Note: These employee records come directly from the SYSPRO database. At this stage you don't have to import all employees. Even though the employees have been imported it does not mean that they have consumed the seat count. The license in the window below shows that the seat allowance is 300, but there are not Active seats. Only when you Active the record will the seats be consumed.

The selected employees have been imported.

3. From Start-up Configuration select Seats, select Import and then Import Equipment.

**Wote:** There is only one record that was imported into Visual APS.

The *Equipment* window is displayed.

æ Equipment				
	Equipment	<ul> <li>Description</li> </ul>		
		Ŷ	٩	
	ABC_AS / ABC_AS	Assembly for AB Costing		

4. Select the equipment to import and then select **OK**.

ò								00	00000	
HOME	HOME   PLANNING   WORKFORCE   FACTORY PRINT   EMAIL   BOOKMARK							EMAIL   BOOKMARK		
Sta	rt-up Con	figuratio	n							
P	rofiles User M	aintenance	Seats					llerr	- Fundament	Facility
Currer	nt user: [Helen.Holli	ckj helen.hollick						Users	Employees	Equipment
	NEW	EDIT	DELETE	IMPORT	ACTIVATE	DEACTIVATE			EXPORT	FILTERS
	Category		Name		Workbench ID		Source		User	Active?
			Ŷ		Ŷ	Ŷ		Ŧ		Ŷ
	Employee		Dan Fisherman		110		ERP		Workbench	No
	Equipment		ABC_AS / ABC_A	s	1		ERP		Manual	No

5. Select all the **Employees** and **Equipment** and then **Activate**.

Note: You will notice that the Active? column is populated with Yes. Also the Active seats count is no longer 0. You will require a seat license for each employee and equipment that are activated.

Ó								8?			
HOME	E   PLANNING	G   WORKFOR	CE   FACTORY						PRINT	EMAIL   E	BOOKMARK
Sta	rt-up Co	onfigurat	ion								
	Profiles Use	er Maintenance	Seats								
Curre	nt user: [Helen.H	ollick] helen.holli	ck					Users	Employees	Ec	quipment
	NEW	EDIT	DELETE	IMPORT	ACTIVATE	DEACTIVATE			EXPORT	ch 7	TEDC
	Category		Name		Workbench ID		Source		User	Active?	•
			•		۴	<b>•</b>		۴		÷ [	*
	Employee		Dan Fisherman		110		ERP		Workbench	Yes	
	Equipment		ABC_AS / ABC_/	AS	1		ERP		Manual	Yes	
Page	Page 1 of 1 (2 items) 🔌 1 Page size: 50 💌										
Seat a Active	Seat allowance = [300] Active seats: 2										

### Installing SmartLYNQ

The following steps describe how to install SmartLYNQ.

- 1. Logon as the administrator to the server where you have chosen to install the web site features of **Manufacturing Operations Management**.
- 2. Run the file name **Manufacturing Operations Management Suite.exe** to start the installation wizard.

The *Welcome to Manufacturing Operations Management Suite Setup* window is displayed.



3. Select **Next >**.

The *Features to Install* window is displayed.



4. Select the features to be install based on the components you are licensed for and select **Next >**.

For our purposes, select Server Features: SmartLYNQ Web Site.

Select **Next >** to continue.

The End-User License Agreement window is displayed.

表 Manufacturing Operations Manager	ment Suite Setup	$\times$
📩 End-User License Ag	preement	
Collecting information	Please read the following license agreement carefully	
Preparing installation	License Agreement	•
Installing	ARE REQUIRED TO ACCEPT BEFORE INSTALLING AND USING LYNQ LIMITED SOFTWARE. CAREFULLY READ ALLTHE TERMS AND CONDITIONS OF THIS	
Finalizing installation	LICENSE AGREEMENT BEFORE PROCEEDING WITH THE DOWNLOADING AND/OR INSTALLATION OF THIS SOFTWARE PRODUCT. BY OPENING OR BREAKING THE SEAL ON THE SOFTWARE PACKAGE, INSTALLING OR DOWNLOADING THE SOFTWARE, OR USING THE SOFTWARE THAT HAS BEEN PRELOADED OR IS EMBEDDED IN YOUR PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS, PROMPTLY RETURN ALL SOFTWARE ITEMS (DISKS, WRITTEN MATERIALS, AND PACKAGING) AND DELETE ANY PRELOADED OR EMBEDDED SOFTWARE.	
	I accept the terms in the License Agreement	
	O I <u>d</u> o not accept the terms in the License Agreement	
powered by LYNQ	< Back Next > Cancel	

Select I accept the terms in the License Agreement and then Next >.
 The Apply License window is displayed.



6. Browse and select the license file sent to you by SYSPRO. Enter your license name as sent to you by SYSPRO and select **Next >** to continue.

Note:

Do NOT rename the license file.

The License Name is not case sensitive.

The Confirm the License name Window is displayed.

Confirm th	e licence name	×
1	Have you typed the licence name "	
	Yes No	

7. Confirm the license name entered and select **Yes**.

The *Ready to Install Features* window is displayed.



8. Select Install.

The Welcome to SmartLYNQ Setup window is displayed.



9. Select **Next >** to continue.

The SmartLYNQ Database Settings window is displayed.

smart LYNQ Setup		×		
📩 Smart LYNQ Datab	ase Settings			
	Specify the SQL Database and Site Name for Smart LYNQ			
Collecting information				
<ul> <li>Preparing installation</li> <li>Installing</li> </ul>	Specify the Smart LYNQ database name to be used for this installation. If your SQL Server already has a database named SmartLYNQ which is used for an earlier version, please specify a different database name.			
Finalizing installation	Smart LYNQ Database Name: SmartLYNQ			
	Specify the site name for Smart LYNQ. If you already have an older Smart LYNQ install with the same site name, enter a different site name below.			
	Smart LYNQ Site Name: SmartLYNQ			
powered by LYNQ	< Back Next > Cancel			

10. Enter the **SmartLYNQ database** and **Site Name** and then select **Next >** to continue. Accept the defaults.

**Note:** SmartLYNQ handles many companies.

The Database Connection Settings window is displayed.

smart LYNQ Setup	X				
👌 Database Connecti	ion Settings				
	Select the name of the SQL Server where SYSPR0 is installed				
Collecting information	Server: (local)				
<ul> <li>Preparing installation</li> <li>Installing</li> </ul>	You MUST specify a user that is a member of the SYSADMIN role to install Smart Manager for SYSPRO. Select how you wish to connect				
Finalizing installation	✓ Trusted Connection (Windows integrated authentication)				
	SQL Authentication Username: Password: ••••••••••••••••••••••••••••••••••••				
powered by LYNQ	< Back Next > Cancel				

11. Accept or enter the correct information, test the **SQL connection** and if successful select **Next >**.

The *Installation Folder* window is displayed.



12. Browse for the folder where you want to install **SmartLYNQ** and select **Next >** to continue.

It is recommended to use the default folder.

The *Ready to Install* window is displayed.



13. Write down the User Name and Password and select Install.

Note: The install of Visual APS has created a SQL account called thinklyngservice. This account is key to operation of SmartLYNQ and MOM.

The Installing SmartLYNQ window is displayed during the install.



The SmartLYNQ Setup Complete window is displayed.



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14. Select Finish.

The *Manufacturing Operations Management Suite Setup Complete* window is displayed.

🌄 Manufacturing Operations Management Suite Setup						
: Manufacturing Operations Management Suite Setup Complete						
	click the "risids" button to suit the	Colum Miland				
Collecting information	Click the "Hinish" button to exit the	Setup wizard.				
Prenaring installation						
<ul> <li>Installing</li> </ul>						
Einalizing installation						
powered by LYNQ		< Back	Finish	Cancel		

15. Select Finish.

Note: The install of Visual APS has created a SQL account called thinklyngservice. This account is key to operation of SmartLYNQ and MOM.

When the install completes SmartLYNQ will be loaded.

# **Configuring SmartLYNQ**

The following steps describe how to configure SmartLYNQ.

- 1. The **SmartLYNQ** install is complete and the Web Service is displayed.
  - Note: The install of Visual APS has created a SQL account called thinklyngservice. This account is key to the operation of SmartLYNQ and MOM.

The SmartLYNQ Create Instance information is displayed.

SMARTLYNQ	×		
< > C 0 0	localhost/SmartLYNQ/Settings/Instan	ceDefenition.aspx	
Apps G www.go	ogle.co.za 🗋 SYSPRO Intranet 📃 Hele	n 🦲 IDEAL 🦲 PartnerUP 🧾 SYSPRO	
SYSPRO	-		INSTANCE NOT SELECTED
Parameter Settings	CREATE INSTANCE		
User Settings	General		
Licensing	Name		
Roles Administration	Description		
Modules			
Instance Settings	Database Configuration		
	Server	· · · · · · · · · · · · · · · · · · ·	
	Authentication	SQL Server Authentication 🔹	
	User ID		
	Password		
	Create new database		
	Database	•	
	Save Cancel		

2. Enter the required information to create an instance and select **Save**.

Enter the following information:

Under **General** enter SYSPRO Company MOM at the **Name** field.

You do not have to enter anything at the **Description** field.

Under **Database Configuration Browse** and select your **Server**. This is the Server where your SYSPRO Databases is installed. Select your **Authentication method**.

Enter *thinklyngservice* at the **User ID** field and enter the password you wrote down earlier. The database has already been installed, so you DO NOT have to select **Create new database**. Using the dropdown arrow select **SysproCompanyMom**.

Select Save.

Note: As this is a first install, SmartLYNQ recognizes that there are no instances to be find in SmartLYNQ.

3. Select **Import Items** from the menu on the left hand side.

**Import Items** is displayed showing that no items have been imported.
	lhost/SmartLYNQ/Settings/Im	portItems.as	spx	
Apps G www.google.co	o.za 🗋 SYSPRO Intranet 📃	Helen 📙 ID	EAL 🦲 PartnerUP 📒	SYSPRO
	IMPORT ITEMS		:	SYSPRO COMPANY MOM - HELENHOISYSPROCOMPANYMOI
Entity Settings		Browse	Show import elements	
Parameter Settings	Select All		Name	of Source
Menu Builder				
Jser Settings				No data to displa
Entity User Groups Settings				
Export Items	Import Selected Elements			
mport Items				
icensing				
Roles Administration				
Global Settings				
lodules				
nstance Settings				

4. Select **Browse** and navigate to the **C:\SYSPRO\LYNQ\SmartLYNQ\Profiles** folder and open **SmartLynq Profile for SYSPRO.xml** file. Select **Show import elements**.

The SmartLYNQ Import Items information is displayed.



5. The items displayed are from the **SmartLynq Profile for SYSPRO.xml** profile. Select **Select All** and then **Import Selected Elements**.

Look at the statements and check that scripts have completed.

2018/06/12 10:19:36. Import finished successfully. 2018/06/12 10:19:36. Start import: Among entity SM File Atachment () and entity SM JobView (Add File to Customer).
2018/06/12 10:19:36. Import finished successfully.
2018/06/12 10:19:36. Import finished successfully.
2018/06/12 10:19:36. Start import: Among entity SM EmployeeView (Add URL to Employee) and entity SM Link Attachment ().
2018/06/12 10:19:36. Import Inished successfully. 2018/06/12 10:19:36. Start import: Among entity SM EmployeeView (Add Form to Employee) and entity SM Note Atachment (). 2018/06/12 10:19:36. Import Inished successfully.
Import Menu Items
2018/06/12 10:19:36.Start import menu item "" to entity "SM CapturedBOMView" relation.
2018/06/12 10:19:36 Start import menu item "" to entity "SM EmployeeView" relation.

2018/06/12 10:19:36. Start import menu item "to entity "SM EmployeeView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM EmployeeView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM FacilityView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM JobView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM OperationView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM OperationView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM OperationView" relation. 2018/06/12 10:19:36. Start import menu item "to entity "SM OperationView" relation. 2018/06/12 10:19:36. All menu item to entity relation import "" finished.

Note: If you have multiple companies or instances installed you can switch between them and the new company name and database will be displayed. The configuration per company is by instance.

6. After importing the entries you now need to setup the integration. Select **Integration Data Settings** from the menu on the left hand side.

The SmartLYNQ Integration Data Settings information is displayed.

	hert/Smartl VNIO/Sattings/IntegrationDataSattings.aspy	
	anosty smartch vol/settings/integrationDatasettings.aspx	
👖 Apps Ġ Google 📙	Helen RartnerUp SYSPRO Education SYSPRO 2 Helen Hollick -	Outlo 🖞 intranet 🖞 E
5		
SYSPRO <sup>®</sup>		
Simplifying your Success		
Entity Settings	INTEGRATION DATA SETTINGS	
Parameter Settings	New Edit Delete	
Menu Builder	Data Provider	Data Provider Description
User Settings		
Entity User Groups Settings		
Export Items		
Import Items		
Licensing		
Roles Administration		
Global Settings		
Modules		

7. Select New.

The Create window is displayed.

Create				x
	Data Provider		•	
	OK	Cancel		

8. Use the dropdown and select the **Data Provider** and then **OK**. Select **Syspro Data Upload** and **OK**. This creates a new integration setting for SYSPRO.

The SmartLYNQ Integration Data Settings information is displayed.

SMARTLYNQ	×									
	host/SmartLYN	NQ/Settings/Integr	ationDataSettings.asp	×						
👯 Apps Ġ Google 📒 H	lelen 📒 Partr	nerUp 📒 SYSPRO I	Education 📒 SYSPRO	2 Helen Hollick - Outlo	🗅 intranet	🕒 ERP Software   Enterp	sysproportal	uat.crm4.	CRM UAT	Cloud Notes
SYSPRO							SYSPRO COMPA	NY MOM - H	HELENHOL/SYSF	PROCOMPANYMOM
Entity Settings	INTEGRAT	ION DATA SETT	INGS							
Parameter Settings	New	Edit Delete								
Menu Builder		Data Provider			Data Provid	er Description				
User Settings	•	Syspro Data Upload	1		Syspro Uplo	ad Data Provider	Sett	ings	Execute	Get Log
Entity User Groups Settings										
Export Items										
Import Items										
Licensing										
Roles Administration										
Global Settings										
Modules										
Instance Settings										
Integration Data Settings 🛛 🗲		_								

9. Select Settings.

The SYSPRO SETTINGS window is displayed.

SYSPRO SETTINGS			
Service Settings		Transaction Types to Process	
WCF Service Address (URL)	1	Labor Time	$\checkmark$
WCF Service Binding	• • • • • • •	Indirect Time	
Operator Code	ADMIN	Completion Quantity	$\checkmark$
Operator Password		Completion Scrap	$\mathbf{N}$
Company Code	MOM	Operation Completion Status	$\mathbf{X}$
Company Password		Material Issue	$\checkmark$
Encore Instance		Job Receipts	$\checkmark$
Language Code			
Log Level		General	
XML Parameters	<logon><product>LynqTracker</product><td>Non stock product class</td><td></td></logon>	Non stock product class	
Test Connection	Run	Default UOM	Stocking •
		Decimals count	2 ‡
		Cut Off Interval	30 ‡
Completion Scrap Settings		Job Receipt Settings	
Reason Code for Blank Values		Inspect Lot Traceability Items	
Process Scrap as Finished Good		Cost Basis	None 👻
Defaul Target Scrap Warehouse		Increase Sales Order Quantity	
		Lot Tracebility Processing	Set Lot Tracebility Number to equal Job Nur 👻
		Serial Number Processing	Use Serial Number specified in Transaction 👻

### 10. Enter the required Service Settings.



#### SYSPRO SETTINGS

Service Settings	
WCF Service Address (URL)	
WCF Service Binding	Rest HTTP -
Operator Code	
Operator Password	
Company Code	
Company Password	
Encore Instance	
Language Code	
Log Level	
XML Parameters	<logon><product>LynqTracker</product></logon>
Test Connection	Run

Enter the WCF Service Address and Service Binding.

Enter *net.tcp://localhost:31001/SYSPROWCFService/* at the WCF Service Address (URL) field. Enter *NET.TCP* at the **WCF Service Binding** field. These settings may differ depending on IIS settings.

Enter ADMIN at the **Operator Code** field.

Enter MOM at the Company Code field.

Select Run to test the connection.

If the Test Connection succeeded select OK.

**Wote:** The Service Settings defines the entire integration with Work in Progress.

If the test is completed successfully you will see the Localhost says Test connection succeeded window.



### 11. Select the Transaction Types to Process. For our purposes select all the Transaction Types to Process.

**Wote:** Transaction types refer to Work in Progress transactions.

Transaction Types to Process				
Labor Time	$\checkmark$			
Indirect Time				
Completion Quantity	$\checkmark$			
Completion Scrap	$\checkmark$			
Operation Completion Status	$\checkmark$			
Material Issue	$\checkmark$			
Job Receipts	$\checkmark$			

12. Scroll down until you see the Manufacturing Operations Management Settings.

MANUFACTURING OPERATIONS MANAGEMENT SETTINGS	MANUFACTURING	OPERATIONS	MANAGEMENT	SETTINGS
--	---------------	------------	------------	----------

Connection Settings	
Server	✓ Refresh
Authentication	SQL Server Authentication -
User ID	
Password	
Database	•
Post Transactions	
Is Active	
Interval	1:00
Logs Saving Time (Days)	10 👻
Save Cancel	

13. Enter the required **Connections Strings**.

Using the drop down select your server name at the **Server** field e.g. (local).

Leave the Authentication method as SQL Server Authentication.

Enter *thinklyngservice* at the **User ID** field and the password you wrote down earlier in the **Password** field.

Browse and select the **MOM\_MOM\_Data** database. The three character in the middle is the **SYSPRO Company ID**.

14. Enter how often the system needs to post transactions.

Select **Is Active** to enable the posting of transactions.

Change the default **Interval** from 1:00 hour to 1 minute.

Select 30 for the Logs Saving Time (Days).

Select Save.

The Integratation Data Settings information is displayed.

SMARTLYNQ	×								
$\leftrightarrow$ $\rightarrow$ $C \Delta$ $\bigcirc$ local	host/SmartLY	NQ/Settings/Integra	tionDataSettings.asp	x					
🔢 Apps Ġ Google 📙 I	Helen 📙 Parti	nerUp 🧧 SYSPRO E	ducation 🧧 SYSPRO	2 Helen Hollick - Outlo	🗅 intranet	ERP Software   Enterp	sysproportaluat.crm4	CRM UAT	d iCloud Notes
							SYSPRO COMPANY MOM -	1 HELENHOL\SYS	ROCOMPANYMOM
Entity Settings	INTEGRAT	ION DATA SETT	NGS						
Parameter Settings	New	Edit Delete							
Menu Builder		Data Provider			Data Provid	er Description			
User Settings	•	Syspro Data Upload			Syspro Uplo	ad Data Provider	Settings	Execute	Get Log
Entity User Groups Settings									
Export Items									
Import Items									
Licensing									
Roles Administration									
Global Settings									
Modules									
Instance Settings									
Integration Data Settings 🛛 🗲		-							

15. Select **Execute** and then **Get Log** to see if the integration has successfully managed to communicate with **SYSPRO**.

The Syspro Data Settings Log information is displayed.

← → X ③ localhost/SmartLYNQ/Settings/DataProviderLog.aspx?settingId=1										
SMARTLYNQ										
SYSPRO DATA UPLOAD SYSPRO UPLOAD DATA PROVIDER Refresh Delete Clear All										
Drag a column header her	e to group by tha	t column								
Details Cro	eated Date 👻 🤊	Item	Ŧ	Operation	٢	Type Y	•	Error Message		
	<b>*</b> Ÿ		Ŧ		Ÿ		Ŷ			
Details 06/	Details 06/03/2018 21:28 Upload Smart Manager Syspro Data Upload Upload Uploading process has been finished successfully									

16. SmartLYNQ is now successfully installed and connected to the WCF Service.

Note: When the interval time has passed. SmartLYNQ will schedule itself to post any Work in Progress entries, where the transaction has been approved for posting. This application isn't used by the typically user but there would be a system administrator that needs to take responsibility for this

# **Mapping MOM to SmartLYNQ**

The following steps describe how to map MOM back to SmartLYNQ.

Open the MOM Web Site.
 Enter *localhost/MOM\_MOM/* into the URL address line.





Select Settings from the top right hand corner.
 The Settings window is displayed.

HOME   PLANNING   WORKF	ORCE   FACTORY		
Settings			
SAVE RESTART			
General Settings		Email Settings	
Company Name	COMPANY MOM	Address	example@
Add ERP database name		From	example@
Localization	English (United States)	Alias	example@
Language	English US 👻	Server	SMTP Ser
	Edit Import	Port	SMTP Ser
Administrator(s)	Helen.Hollick	Account	Email Use
Admin e-mail	example@example.com	Password	Email Aco
		Enable SSL	
		* test message will be sent	
Database Settings	Se	rver	Database
Source	SYSPRO with Planning Manager 💌 (lo	ocal)	SysproCompa
Data	Please select (Io	ocal)	MOM_MOM_
Config	Please select	ocal)	MOM_MOM_
Logic	Please select 💌	ocal)	MOM_MOM_
Integration Settings			
Host	http://HELENHO/Smartlynq	Open	
Service	http://HELENHO/Smartlynq.Services	Test	

Note: Under Integration Settings the software will automatically populate the SmartLYNQ site. It creates a separate Web Site that is called the SmartLYNQ Services site.

Ŧ

Select Test and then browse and select the Instance and then Save.
 Browse and select Syspro Company MOM at the Instance field. Select Save.

The *Confirmation* window is displayed.

1

Integration

Map Parameters

Instance Map Entities



Changes in this screen will require restart of the application. Please confirm...

|--|

4. Select OK.

Note: MOM needs to be restarted because you have amended the core setup of the application.

The *MOM Restarting* window is displayed.



Notice that the Instance has changed to 1 as shown below.

Integration Settings		
Host	http://HELENHO/Smartlynq	Open
Service	http://HELENHO/Smartlynq.Services	Test
Instance	1 🔻	
Map Entities Map Parame	eters Integration	

**Note:** When you install more than one MOM company each one will have a different instance number.

# **Product Updater**

# **Updating Manufacturing Operations Management Suite**

The following steps describe how to update the MOM software.

## • 🕑 Note:

Please ensure that you update the components in the following order:

- Visual APS
- Manufacturing Operations Management (Smart Manager)
- SmartLYNQ

The version number of each component will change as updates are released.

Navigate to the folder where you unzipped the manual files for the MOM install.

1. Run the Product Updater with Administrator rights.

The *Product Updater* window is displayed.



2. Enter your **License Name** and scroll down to the bottom of the **License Agreement** to accept the terms and conditions an select **Next** to continue.

**Note:** If the version of the **Product Updater** is out of date you will be prompted to download a later version.

The *Product Updater* window is displayed showing the features that need to be updated.



Note: You need to update the software in the order it was installed i.e. Visual APS, then MOM (Smart Manager) and SmartLYNQ.

3. Select to update Visual APS for SYSPRO..

Select Version						
Product	Release	Build	Revision	Created	Comments	
Visual APS for SYSPRO	2016 R2 SP1	9.18.0.0		29 March 2018		
Visual APS for SYSPRO	2016 R2 SP1	9.16.0.0		29 January 2018		
Visual APS for SYSPRO	2016 R2	9.7.1.0		20 December 2017		
					Ok	Close

The Select Version window is displayed.

4. Highlight the latest version and select **Ok**.

The **DB Version Update** window is displayed.

DB Versior	1 Update	x
	[(local)]/[SysproCompanyMom]	
🔺	Database needs to be updated from version [9.7.0.0] to [9.18.0.0] otherwise company will not be opened.	
	Do you want to update the database?	
	Yes No	

5. Select Yes. The Visual APS Planning Manager is displayed.

The Product Updater shows that Visual APS for SYSPRO is on the latest version.



6. From the Product Updater window select to update **SmartManager**.

Select Version						
Product	Release	Build	Revision	Created	Comments	
Smart Manager	2016 R2 SP1	3.17.2.0		03 May 2018		L L
Smart Manager	2016 R2 SP1	3.17.1.0		21 February 2018		
Smart Manager	2016 R2 SP1	3.17.0.1	1	14 February 2018		
Smart Manager	2016 R2 SP1	3.17.0.0		08 February 2018		
Smart Managor	2016 82	3800	1	01 May 2018		•
					Ok	Close

7. Highlight the latest version and select **Ok**.

The *Manufacturing Operations Manager Configurator* window is displayed.

Manufacturing Operations M	lanager Configurator				Powe	red by LYNQ
Site Configuration	Server	Database	SQL User	Password	Create Database	Create User
Display Name	ERP					
COMPANY MOM	(local)	SysproCompanyMom	thinklyngservice			
Site Name	Smart Manager Data					
MOM_MOM	(local) Copy above	MOM_MOM_Data	thinklyngservice	•••••		
	Smart Manager Config					
	(local) Copy above	MOM_MOM_Config	thinklyngservice			
	Smart Manager Logic					
	(local) Copy above	MOM_MOM_Logic	thinklyngservice			
	DataSource Type		Administrators (	separator ";")		
think LYNO	SYSPRO with Planning Manager	v	Helen.Hollick			
MANUFACTURING SOLUTIONS						

8. Check the **Configuration** and select **Ok**.

The Databases and Users have already been created. The **DataSource Type** is **SYSPRO with Planning Manager** and you need to ensure that your **Administrator(s)** has/have been entered correctly. Select **Ok** to continue.

The Smart Manager Version shows that the product is on the latest version.



9. Select to update SmartLYNQ.

The Select Version for SmartLYNQ window is displayed.

Close

10. Highlight the latest version and select **Ok**.

The SmartLYNQ Configurator window is displayed.

SMARTLYNQ Configurato	r – 🗆 X
Internet Information Services (I	IIS) Version 10.0
Site Name	SmartLYNQ
Database Configurat	ion
Server	(local)
Database	SmartLYNQ
SQL User	thinklyngservice
Password	•••••
Create Database	
Create User	
Site Configuration	
Last Connections Count	1
Administrator (separator ";")	Helen.Hollick
🗌 Run site	OK Cancel

You will be asked for connection information. Select Run site and OK.
 Enter or select the correct details and select Ok. The Create Database and Create

User options have already been configured therefore you do not need to select these options.

SmartLYNQ Website opens in a window and you are requested to update the database.





Database needs to be updated from version [5.4.0.0] to [5.10.0.0], additional SQL tables will be created. Do you want to update the database? If not database will be closed.

Update

### 12. Select Update.

The SmartLYNQ Website shows the updated database.



From the **Product Updater** the **SmartLYNQ Version** shows that the product is on the latest version.



The **Product Updater** window is displayed showing that all products have been updated.



13. Select Close.

# Completing the update

The following steps describe how ti finalize a product update.

- 1. Load Visual APS and update the database to the new version.
- 2. Load MOM and update the database to the new version.
- 3. Load SmartLYNQ and update the database to the new version.

# **Adding another Instance of MOM**

# Installing another instance of Manufacturing Operations Management

The following steps describe how to Install another instance of Manufacturing Operations Management.

- 1. Logon as the administrator to the server where you have chosen to install the web site features of **Manufacturing Operations Management**.
- 2. Run the file name **Manufacturing Operations Management Suite.exe** to start the installation wizard.

The *Welcome to Manufacturing Operations Management Suite Setup* window is displayed.



3. Select **Next >**.

The *Features to Install* window is displayed.



 Select the feature(s) to be install based on the components you are licensed for and select Next >.

For our purposes, select **Server Features: Manufacturing Operations Management Web Site**.

Select **Next >** to continue.

The End-User License Agreement window is displayed.

👼 Manufacturing Operations Manage	ment Suite Setup	$\times$
📩 End-User License Ag	greement	
Collecting information	Please read the following license agreement carefully	
Installing	LICENSE AGREEMENT IMPORTANT! THIS IS THE LICENSE AGREEMENT TERMS OF USE THAT YOU ARE REQUIRED TO ACCEPT BEFORE INSTALLING AND USING LYNQ LIMITED	Î
Finalizing installation	SOFTWARE. CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT BEFORE PROCEEDING WITH THE DOWNLOADING AND/OR INSTALLATION OF THIS SOFTWARE PRODUCT. BY OPENING OR BREAKING THE SEAL ON THE SOFTWARE PACKAGE, INSTALLING OR DOWNLOADING THE SOFTWARE, OR USING THE SOFTWARE THAT HAS BEEN PRELOADED OR IS EMBEDDED IN YOUR PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS, PROMPTLY RETURN ALL SOFTWARE ITEMS (DISKS, WRITTEN MATERIALS, AND PACKAGING) AND DELETE ANY PRELOADED OR EMBEDDED SOFTWARE.	,
	I accept the terms in the License Agreement	
	O I <u>d</u> o not accept the terms in the License Agreement	
powered by LYNQ	< Back Next > Cancel	

Select I accept the terms in the License Agreement and then Next >.
 The Apply License window is displayed.

👼 Manufacturing Operations Manage	ement Suite Setup	Х
Apply Licence		
	Select the location of the Manufacturing Operations Management License File	
Collecting information		
Preparing installation	You will not be able to install any features of Manufacturing Operations Management without a valid license. If you have been sent a license file you can apply this by browsing for the file.	
Installing		
Finalizing installation	Browse for Licence:	
/	Browse	
	IMPORTANT: Do not rename the license file that has been sent to you. The filename should be in the format (nnn_License.vpkey)	
	Enter your licence name as specified in the email to you	
	Licence Name:	
powered by LYNQ	< Back Next > Cancel	

 Browse and select the license file sent to you by SYSPRO. Do NOT rename the license file. Enter your license name as sent to you by SYSPRO and select Next > to continue.

Note: The license Name is not case sensitive.

The Confirm the License name Window is displayed.

Confirm th	ne licence name	×
1	Have you typed the licence name "DEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	Yes No	

Confirm the license name entered and select Yes.
 The *Ready to Install Features* window is displayed.



8. Select Install.

The Welcome to Manufacturing Management Setup window is displayed.



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### 9. Select Install new instance.

The *Multiple Instances* window is displayed.

to Manufacturing Operations Manage	ement Setup				×
📩 Multiple Instances					
<ul> <li>Collecting information</li> <li>Preparing installation</li> </ul>	This package allows you to install i Management	multiple instanc	es of Manufactu	ing Operations	
	Install new instance:				
Installing	Maintain an already installed instan	ce:			
• Finalizing installation	Instance Id #1 #2 #3 #4 #5 #6 #7				<>
powered by LYNQ		< Back	Next >	Cancel	

10. Select the instance Id. Select #1.

The Welcome to Manufacturing Management Setup window is displayed.



11. Select **Next >** to continue.

The Configure Demonstration Instance window is displayed.



12. Select **Next >** to continue.

**Note:** If you want to configure a demonstration instance you would select **Yes**.

The **Select Manufacturing Operations Management Components** window is displayed.

🌄 Manufacturing Operations Manag	jement Setup		×
📩 Select Manufacturi	ng Operations Management Components		
	Select the components of Manufacturing Operations Mana	gement	
Collecting information	Will you be using Planning Manager?		
Preparing installation	• Yes		
Installing	● No		
Finalizing installation	Will you be using Workforce Manager?		
/	O Yes		
	● No		
	Will you be using Factory Manager?		
	O Yes		
	● No		
powered by LYNQ	< Back Next	> Cancel	

13. All components need to be installed. Select **Next >** to continue.

The Configure Instance Database Settings window is displayed.

👼 Manufacturing Operations Managem	ient Setup	$\times$	
👌 Configure Instance D	atabase Settings		
	Select the name of the SQL Server where SYSPRO is installed		
Collecting information	Server: (local) ~		
Preparing installation	You MUST specify a user that is a member of the SYSADMIN role to install Manufacturing Operations Management. Select how you wish to connect		
Installing			
Finalizing installation	✓ Trusted Connection (Windows integrated authentication)		
/ /	SQL Authentication Username:		
	Password:		
	Select which SYSPRO Database and company code this instance will relate to		
	Database: SysproCompanyMom V Company Code: MOM		
	You MUST test the SQL connection before clicking on the "Next" button		
	Click here to test SQL Connection Connection successful		
powered by LYNQ	< Back Next > Cancel		

14. Enter the configuration information, test the connection and then select Next >.

As this is another instance of MOM you will need a different SYSPRO Database and Company Code.

The *Configure Message Centre Settings* window is displayed.

log Manufacturing Operations Manag	gement Setup	$\times$		
📩 Configure Message	Configure Message Centre Settings			
	Configure the Message Centre for Manufacturing Operations Management			
Collecting information	Use the message centre to send and view messages to and from the shop floor. Review			
Preparing installation				
Installing	Note: message centre settings can be configured after the installation of Manufacturing Operations Management. Click "Next" to ignore these settings and configure at a later time.			
Finalizing installation				
	SMTP Server Name:         SMTP Server Port:         Luse SSL         Account Name:         Password:         Email Address:			
powered by LYNQ	< Back Next > Cancel			

15. If you want to send messages to and from the **Shop Floor** enter your **SMTP** details and then select **Next** >.

For our purposes you will not be sending messages to and from the Shop Floor. Select **Next >** to continue.

You will be able to set up SMTP changes to this later if required.

The *Installation Folder* window is displayed showing the new folder name.



16. Browse for the folder where you want to install **MOM** and select **Next >** to continue. It is recommended to use the default folder.

**Note:** The **MOM installation Folder** is unique to each company.

The *Ready to Install* window is displayed.



17. Select Install.

The *Installing Manufacturing Operations Management* window is displayed during the install.



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The Manufacturing Operations Management Setup Complete window is displayed.

### 18. Select Finish.

The Manufacturing Operations Management Suite Setup Complete window is displayed.

🖔 Manufacturing Operations Management Suite Setup 🛛 🗙				
👌 Manufacturing (	Operations Management Suite S	Setup Com	plete	
	elide the "risids" button to exit the	Cobus Missard		
Collecting information	Click the Finish Dutton to exit the	secup wizaru.		
Prenaring installation				
Installing				
Einalizing installation				
powered by LYNQ		< Back	Finish	Cancel

19. Select Finish.

The MOM Web Site will open with a URL localhost/MOM\_MOM. The last three characters represent the SYSPRO Company ID.



You need complete the following tasks in MOM:

- Configuring a Profile
- Importing and Activating Seats.

# Mapping a new instance of MOM to SmartLYNQ

The following steps describe how to map MOM back to SmartLYNQ.

1. Open the MOM Web Site. Enter *localhost/MOM\_[Cold]/* into the URL address line. 2. Select **Settings** from the top right hand corner.

The **Settings** window is displayed.

Select Test and then browse and select the Instance and then Save.
 Browse and select Syspro Company [Cold] at the Instance field. Select Save.

The **Confirmation** window is displayed.



Changes in this screen will re	quire
restart of the application. Pl	ease
confirm	



### 4. Select OK.

Note: MOM needs to be restarted because you have amended the core setup of the application.

The *MOM Restarting* window is displayed.



Note: When you install more than one MOM company each one will have a different instance number.

# Linking a new database from Visual APS to MOM

The following steps describe how to add a new database connection from Visual APS to MOM.

1. Load Visual APS.

The Visual APS home page is launched.

	2 🔍 🦚	e 📽 🐰	۵				Planning M	lanager   Visual	APS
FILE	HOME	MANAG	GE PLA	AN SC	CHEDULE	REVIEW	REPORTS	VIEW	
×		×	×	6]	?				
Company	Open	Close	Close All	Open	Help				
Settings		Company	/	мом	Online Help				
Welcome	× (lo	cal)   Sysp	proCompa	anyMom ·	- × )				
Sub Jobs -	-3								
Drag	a column h	eader her	re to group	by that co	olumn.				
• = At	ttach   On H	lold M	aterials?	Operations	s?  Scheduled	l?   Pinne	d?   Marker	Job Class	
•	N		X	•			0		0
+	Ν		$\mathbf{X}$	•			0		0
+	Ν		×	•			0	QUOT	0
Drag	-3 a column h ttach   On F N N	eader her Iold   M	re to group aterials?   ( X X X	by that co Operation:	olumn. s?  Schedulec	l?   Pinne	d? Marker	Job Class QUOT	

Add a new Company Database Connection.
 Select File>Open>Company from the top left hand corner of the window.

The **Open Database** window is displayed and shows the connection to the database you have selected during the install.

Open Database			x
Scheduling interval from:	88888/06/48	to <b>2818/09/88</b> ×	
Server	Company	Authentication Mode	From 🔺
▶ (local)	SysproCompanyMom	WindowsAuthentication	2008/86/4
			▼
New Database Connecti	on		

3. Add a new database connection..

Select New Database Connection.

The *Edit Settings* window is displayed.

Open Database	x
Scheduling interval from: SCHIGKSONEX ST to SHALLSARE	
Company Authentication Mode From	T.A
	-
	•
Server	
Authentication	Security
Windows Authentication     Login	App Role
SQL Server Authentication Password	
Company Type database name	ОК
New Database Connection	$\overline{}$

Enter the information required for the New Database Connection.
 Browse and select the Server Name. You can leave the Authentication method as Windows Mode. Browse at the Company prompt and select the required database.

### Note:

The **App Role** is related to how **SQL security** is assigned to a user. It is only required if the **Login** (either Windows or SQL) does not have rights via a database or server role i.e. (data reader, data writer, database owner, sysadmin). When using the **App Role**, the Login (either Windows or SQL) requires minimal security. The **Login** must be mapped to the SYSPRO Database **Public** Role. **App Role** is the most secure form or assigning security to users.

- 5. Select OK.
- 6. Select to open the new database instance. Highlight the new database connection.
- 7. Add the integration from Visual APS to the new MOM Database.

Select File>Company Setting from the top left hand corner of the window.

Edit	Edit Settings X				
,	SETTINGS General User Access ORDER MANAGEMENT Order Import & Rules MATERIALS PLANNING MRP Imports & Rules	General         I Load company at startup         I Save windows layout         Save schedule zoom         I Save and publish warning message?         I Show sub jobs only         Choose theme			
	<ul> <li>FINITE CAPACITY SCHEDULING</li> <li>Designer</li> <li>Planning Interval</li> <li>Scheduling &amp; Routing Rules</li> <li>Tracking</li> </ul>	Integration Running version 2016 R2			
R	eset settings Reset layout Load	Auto refresh Auto refresh Refresh every: 00:00 (hh:mm) Show notification window before each refresh Quick save Quick save	OK Cancel		

- 8. Enter the URL for the new MOM Instance. For Example: http://localhost/MOM\_[Co-Id]
- 9. Select OK.

# Troubleshooting

# **Installation Problems**

Problem	Solution
During installation of any features, the Server field fails to return a list of SQL servers.	Check to see whether the <b>SQL Browser Service</b> is running. The installer will accept a server name that is typed in manually.
During installation I specified the option to use a trusted connection. However, the installer fails to detect that the trusted connection has SYSAdmin rights.	In cases where the SQL server has been renamed, detection of SYSAdmin rights may not function correctly. To work around this known issue, use a SQL account that has SYSAdmin rights.
After installing <b>Visual APS</b> Server feature, the Visual APS Client does not automatically open the company I specified as either Production or Sandbox.	When using <b>SQL Authentication</b> , the company will never open automatically. You must provide your SQL account details by selecting Company Open.
During the installation of <b>Visual APS</b> Server, I receive an error that a duplicate record has been detected and I cannot progress with the installation.	Visual APS Server cannot be installed against a company where there are duplicate records. The most common reason for this is where there are duplicate records based on upper/lower case values. For example, a Work Center record called PAINT and paint would be considered a duplicate. Duplicates must be removed from SYSPRO to progress with the installation. SYSPRO is case sensitive whereas Visual APS is not.
When launching <b>Visual APS</b> for the first time after the installation, the application does not appear to render the interface correctly. I cannot see the APS toolbar.	This may happen if the <b>Crystal Runtime components</b> have been installed correctly. You can manually install the crystal runtime (CRRedist2008) from the \Manufacturing Operations Management Suite \ Setup Files \ Visual APS Server folder.
During the installation of <b>Visual APS</b> Server, I specified the same SYSPRO company for both Production and Sandbox. Will this cause any issues?	No, it will mean you will have 2 database connections configured in Visual APS for the same company. The duplicate connection can be easily removed by clicking on File > Company Open.
During the installation of the <b>Manufacturing</b> <b>Operations Management (MOM) Web Site</b> , I receive an error that <b>Planning Manager</b> has already been installed.	When installing the MOM Web Site, the installer will check whether the selected SYSPRO company has LYNQ objects present. If LYNQ objects are present this error will be returned. You must install MOM against a database that has not previously had MOM installed. A SQL Script has been included with the installer should LYNQ objects need to be removed. The script can be found in the \Manufacturing Operations Management Suite Setup Files \ Support Files folder. The name of the script is: <b>Remove_Planning_Manager_Objects.SQL</b>
After installing the <b>Manufacturing Operations</b> <b>Management (MOM) Web Site</b> , the website takes a minute or two to start up. Are there any issues with the installation I should be concerned about?	No, the first time the site ever loads, some actions are performed in the background. This is normal behavior. The next time the site loads it should be instant.
Problem	Solution
--	--
After installing the <b>Manufacturing Operations</b> <b>Management (MOM) Web Site</b> , I am unable to import equipment (machines) from the <b>Start Up</b> <b>Configuration</b> Screen or from the User Maintenance screen. The machines list is empty.	You must first import machines into <b>Visual APS</b> . The MOM Web Site will read information from Visual APS tables and not directly from SYSPRO Work in Progress at this point.
After installing <b>SmartLYNQ</b> , the Web Site fails to start up. I receive a (405) method not allowed error.	This error is returned if <b>HTTP Activation</b> is not installed as part of the Server Feature .NET Framework > WCF Service. Install this feature on the Web Server and re-open the SmartLYNQ Web Site to finish the installation.
When installing the <b>Manufacturing Operations</b> <b>Management (MOM) Web Site</b> I receive an error that the specified installation path already exists.	When installing MOM, you just install the application into an empty folder. For example: MOM\Visual APS MOM\Manufacturing Operations Management MOM\SmartLYNQ. <b>Do not install all features into</b> <b>the same location i.e. \MOM.</b>
When using MOM for the first time after installing the application, I am receiving errors that certain LYNQ SQL Views do not exist.	This could happen if you attempt to use the application without either accessing the <b>User Maintenance &gt; Seats</b> screen or without clocking into the Workbench.
When executing the integration from <b>SmartLYNQ</b> , I am getting an error regarding the company not being licensed for <b>e.Net Runtime</b> .	You must ensure that the runtime license has been imported into <b>SYSPRO</b> .
When clicking on the <b>Workbench</b> , I am getting a default setting or object reference error.	You must ensure that you have loaded the <b>Build 3.8</b> profile against the MOM Website settings. The profile holds the default settings that allow you to use the workbench without having to configure it from scratch.

## Epilogue

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