

Molex solutions for  
Advanced Physical Layer Lifecycle Management

# Advanced Physical Layer Lifecycle Management (APLLM)

## About Molex Premise Networks

Molex Premise Networks is part of Molex Incorporated, the world's second largest manufacturer of interconnection products. Totally committed to meeting individual customer demands and anticipating new technology – the company has re-invested over \$1 billion in research and in its 25 new product development centres. With 45 manufacturing outlets, 34 Regional Sales offices and thousands of distribution outlets across 6 continents, Molex has both the global reach and the local expertise to design, supply and support infrastructures wherever they are needed.

Since the early days as structured cabling pioneers, Molex Premise Networks has been regarded for its high quality and innovative data transport solutions.

Today, Molex Premise Networks brings industry leading Advanced Physical Layer Lifecycle Management (APLLM) solutions.

Using a combination of software, electronics and traditional data transport, APLLM is a revolutionary suite of solutions designed to enable end-users to track and manage their infrastructure investment from planning stage, right through installation and finally on to any eventual upgrade.

APLLM focuses on productivity and process enhancements for the physical layer, automating some functions and providing true collaboration, visibility and control to over-stretched project and network managers.

Businesses worldwide must do more with less, and Molex Premise Networks is able to provide substantial gains to make that happen.

## Our Vision

To Bring Advanced Physical Layer Lifecycle Management to Enterprises Worldwide.



# Bringing Advanced Physical Layer Lifecycle Management to Enterprises WORLDWIDE

## APLLM Solutions

### 1. Advanced Physical Layer Deployment

Enabled through INSIGHT - an on-line information management system for the planning, deployment and management of infrastructures and their connected assets. Focuses on increasing project and network management productivity, collaboration among stakeholders, and ultimately confidence in the infrastructure.

Customers - Project Management organizations and overburdened IT teams

Customers benefit from INSIGHT's best-practice workflows to plan and manage multiple vendors at geographically-dispersed sites or high-value sites where time-to-occupancy is important.

### 2. Data Transport Solutions

A broad selection of standards-compliant, end-to-end structured cabling solutions including copper, fibre and free space optics that connect businesses to their mission critical applications.

### 3. Advanced Physical Layer Management

Enabled through MIIM™ - an advanced management tool that focuses on enhancing network management at the physical layer, network security, asset management, and increased productivity and visibility. In addition to MAC & work order management, the solution detects network device connects and disconnects regardless of power and event-driven Smart polling provides constant information on all network devices connected to work area outlets.

MIIM Physical Layer Management boasts simplicity from all perspectives at a low total cost of ownership, including both procurement and operating expenses.

Customers - IT teams with stretched resource availability, especially those covering multiple locations.

### Integration

Each of the APLLM solutions can be implemented independently to target specific infrastructure needs, but when integrated into a single, seamless Molex solution, the features and capability advantages far out-weigh anything previously available.

This holistic view of the physical network provides for true lifecycle management guided by the notion that "no project is ever complete".

## Infrastructure Lifecycle Management



# INSIGHT

## Deploying your infrastructure

### INSIGHT - Advanced Physical Layer Deployment

Organisations face many challenges concerning their physical network infrastructure and the connected assets:

- Project visibility, transparency and collaboration for the many stakeholders of multiple or large site deployments
- Retaining information on deployed infrastructures and assets in spite of personnel and contractor turnover
- Compliance to company processes, standards and reporting
- Productivity of Project Managers in light of the rudimentary communications and documentation that consumes them
- Managing contractor performance

### Collaborative Physical Layer Deployment

INSIGHT is an on-line information management system for the planning, procurement, deployment, change management, and documentation of data, electrical, voice, security, audio, visual, building systems, and telecommunication infrastructures. It integrates workflow management, project management (planning, scheduling, estimating), document management, asset management, help desk, and MAC management in a user friendly on-line service accessible to all stakeholders.

### Adding Value

Because of INSIGHT's function to offer visibility, control, automation, and collaboration during a physical infrastructure's life, the results are significant productivity gains in project and infrastructure management.

With INSIGHT, infrastructure project predictability and throughput increase, deployment and management becomes efficient and consistent, trust and collaboration is fostered among the stakeholders and employee, contractor turnover becomes less, and MACs are cost-reduced.

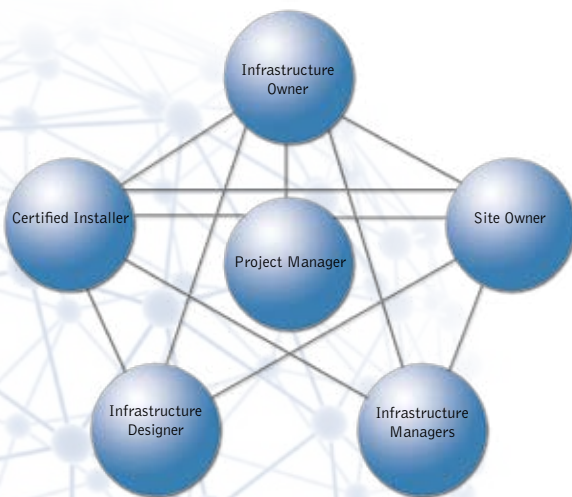
INSIGHT adds value by

- Standardising and controlling processes
- Enforcing design standards, specifications and approval processes
- Automating workflows, schedules, communications, and documentation
- Managing on-line procurements with transparency and security
- Providing real-time visibility under predetermined user access
- Providing a central library for all project and infrastructure data.
- Improving compliance reporting and accountability through real-time capture of project progress and approvals
- Supporting the creation of back-office services, lowering operating costs
- Enabling efficient and consistent contractor management through remote project management, including automatic billing notices



### Stakeholder Collaboration

The number of stakeholders involved in complex infrastructure deployments can be many – each responsible for different elements of a project. By providing harmonised access to project information and the infrastructure anywhere, anytime, INSIGHT breaks down traditional barriers and allows for collaboration among all stakeholders during an infrastructure’s lifetime.



### Stakeholder Benefits

#### Project Manager/Estimator

Focus less on administration by administering best practices, automating standardised practices, communication and documentation. Offers increasing productivity on projects challenged by multiple stakeholders, dispersed sites, distance, or changing personnel and contractors.

#### Infrastructure Owner

Gains from increased transparency and accountability, with visibility of all activities and information. Noticeable cost savings through faster deployments and on-line information transfers.

#### Infrastructure Manager

Assurance that new site visits will have connectivity and connected assets pre-populated in INSIGHT from the project roll-out and the ability to use INSIGHT to maintain the site’s connectivity map during MACs.

#### Technician

Time saving when conducting site audits, managing daily activities, managing and responding to procurements, recording as-built information, and reporting status.

# MIIM™

## Managing your Physical Layer

### MIIM™ - Advanced Physical Layer Management

Every day IT infrastructure managers face a variety of problems as they work to maintain the quality of the installed network. These can include:

- Managing MACs, especially when there are multiple sites involved, including some that may not have trained IT staff on hand
- Securing valuable assets, such as engineering work stations, network printers, and IP phones
- Detecting 'rogue devices' that are not authorised to be connected
- Trouble shooting at remote locations - Valuable time and money is spent investigating often mundane problems
- Selecting and managing an efficient and effective network

MIIM provides unique features that improve the management of the network and enables increased productivity:

### Improved Asset Management

MIIM records and updates information on every device connected to the network including the data channel used to access the network. Switch ports connected to a physical channel with no attached device at the work area outlet can be identified and reclaimed to improve switch port utilisation - eliminating manual audits.

### Remote Management

A single MIIM server can interface with hundreds of users accessing information from multiple global locations at any one time. MIIM provides centralised monitoring and control. By providing up-to-the-minute data on the physical plant, consistent practices can be implemented thereby improving efficiencies across the organisation.

### Enhanced Network Security

MIIM maintains records of as-built configurations and authorised connectivity across the network. It continuously monitors the network for status changes in devices through its Smart Polling capability, ensuring an up-to-date view of the network. Unauthorised connectivity changes can be flagged for attention via real-time messaging such as emails alerts or SMS.

### Increased Productivity

MIIM's allows the IT manager to determine whether the physical layer is the cause of network downtime, and the exact detail of the fault and location. This allows the technician to be more efficient in determining the cause and initiating the repair process.

### More Efficient MAC and Work Order Management

MIIM's work order management system provides a comprehensive view of scheduled changes including assigned personnel. A scheduling function is available so that IT managers can review, prioritise and assign MACs appropriately, and record for future reporting.

### Links with other Management Tools

MIIM has been developed to specifically focus on the physical layer, which is the portion of the network that other network management tools do not handle adequately. MIIM cleverly integrates with these other tools so that IT managers have a holistic view of the complete network from a single management user interface.

### Guided Patching reduces Human Error

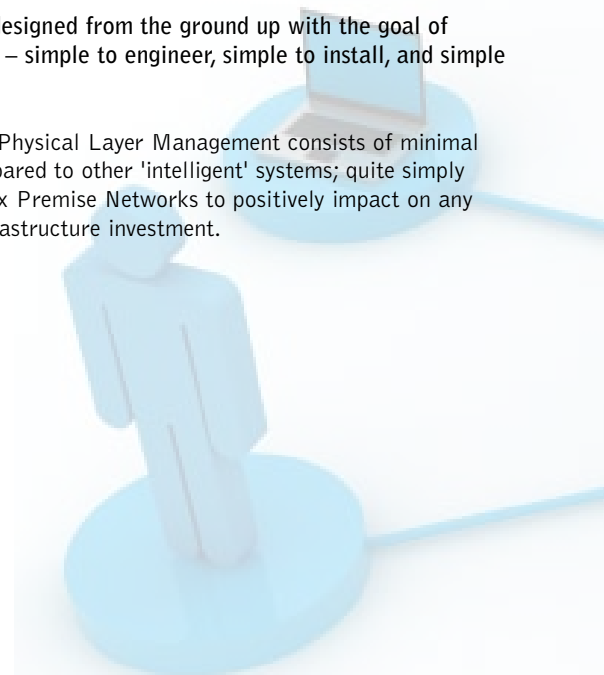
LED indicators for each port direct the technician to complete the MAC correctly. Unplanned or incorrect patch configurations are detected by MIIM and recorded. Notification of unplanned or incorrect patch configurations can be configured to alert the appropriate resources to take corrective action.

### Management Reports

MIIM's ReportWriter makes available numerous reporting functions to document the status of the network, work orders, location and status of assets on the network.

MIIM has been designed from the ground up with the goal of keeping it simple – simple to engineer, simple to install, and simple to operate.

MIIM Advanced Physical Layer Management consists of minimal components compared to other 'intelligent' systems; quite simply designed by Molex Premise Networks to positively impact on any organisations infrastructure investment.



# Data Transport End-to-End Solutions

## Data Transport Solutions

Selecting the right network infrastructure is a complex and often costly process. Whether your organisation is developing a new network infrastructure or upgrading a legacy system, Molex Premise Networks is committed to maximising its capabilities today and for years to come.

## Copper Solutions

Molex offers an extensive range of copper end-to-end solutions in both unshielded and shielded configurations, available in Category 5e, 6 and 6A for 10 Gigabit Ethernet performance.

## Fibre Solutions

The Molex fibre portfolio comprises a range of fibre and connectors, including blown fibre, for a total end-to-end solution that meets or exceeds industry standards.

## Wireless Solutions

Free Space Optics (FSO) is a point-to-point wireless optical beam transmission system ideal for campus environments or where the laying of traditional fibre cable is difficult. It is cost-effective, quick to implement, virtually impenetrable with high quality wireless communication of up to 2km.

## Pre-Terminated Solutions

ModLink is an innovative pre-terminated Plug and Play solution available in both copper and fibre systems. ModLink Plug and Play is easily re-configurable and saves all important time and cost in labour intensive environments.

Whatever your requirement, we have a solution that supports it.

## Warranty, Training and Support

Molex Premise Networks offers support to organisations, whether they are simply assessing their infrastructure requirements, upgrading a legacy system, or ready to implement a new network. We have high quality manufacturing processes, a global network of professionally trained installers and highly trained technical and support personnel.

Molex offers a variety of support, including training and support services for all APLLM solutions, back-office project management for the planning, design, deployment, and management of physical infrastructures, including a remote management service.

By choosing Molex Premise Networks you can be safe in the knowledge that whatever the project, our goal is to ensure that your transfer to a new system runs as smoothly as possible. This commitment to our customers is reflected in our 25 Year Product, System Performance and Application Assurance Warranty and the ongoing support we provide to our business partners.

## **Americas**

Corporate Headquarters  
+1 630 969 4550

Toll Free North America  
+1 866 733 6659

## **Asia Pacific**

Australia  
+61 3 9971 7111

China  
+86 21 5048 0889

India  
+91 80 4129 3500

## **EMEA**

United Kingdom  
+44 (0)844 815 0955

The Netherlands  
+31 (0)40 295 8402

Czech Republic  
+420 222 191 418

Poland  
+48 22 333 81 50

Russia  
+7 495 642 64 55

Ukraine  
+38 (044) 494 2642

Middle East  
+971 4 288 7573

South Africa  
+27 11 807 2577