



Data iO

OPTIMIZE.
TRACK.
ANALYZE.

CONNEX

Optimize the electronics manufacturing process by enabling integration of device programming into a connected factory

ConneX integrates inputs and outputs between a Data I/O PSV programming system and a connected electronics manufacturing facility to enable traceability, process analysis and two-way communication that improves factory efficiency and quality.



- REMOTE & PROACTIVE SERVICE
- REALTIME ADJUSTMENT
- POST PROCESS ANALYSIS
- ROOT CAUSE ANALYSIS
- TRACEABILITY
- YIELD TRACKING
- OPERATIONAL REPORTING
- SECURE MANUFACTURING



Optimize

Optimize the programming processes with MES integration

Improve operator efficiency and quality with job commands sent between MES and a PSV system

Inventory management with Job and media validation

Real-time reporting with configurable dashboards



Track

Track programming process for comprehensive traceability

Device and Job programming statistics reporting

Error message handling
Yield tracking



Analyze

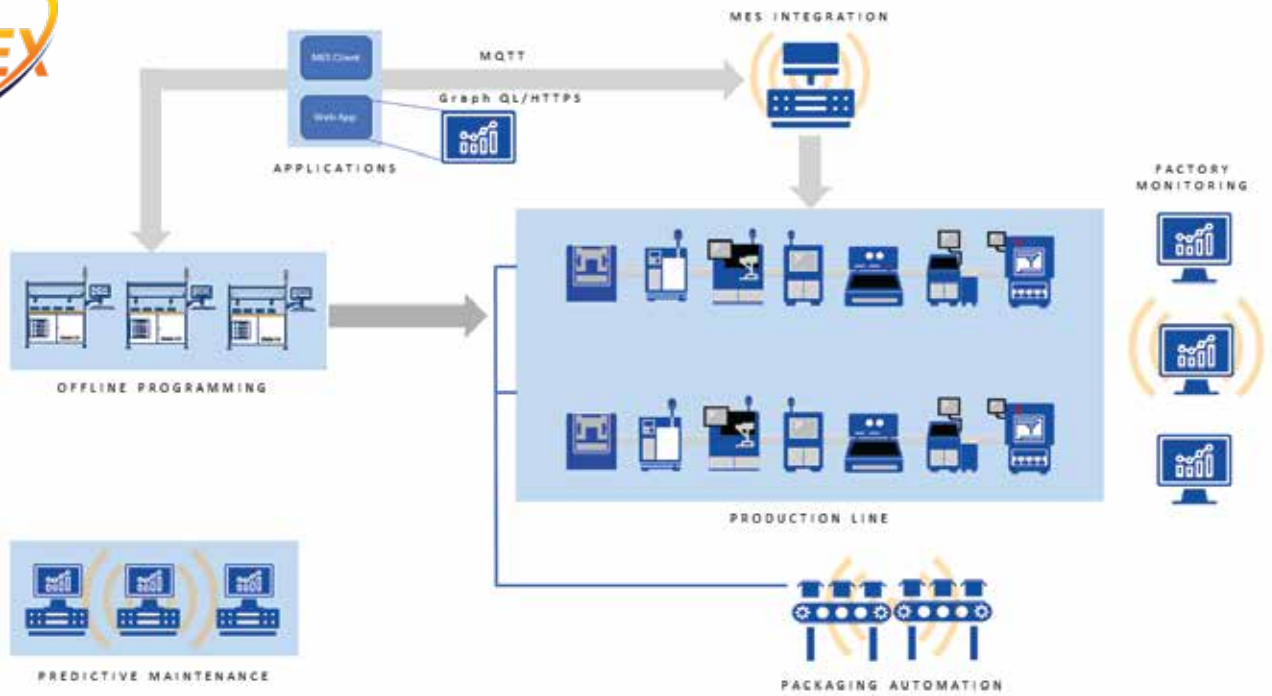
Analyze to enable real-time data-driven decisions

Root cause & post process analysis

Proactive service with predictive analytics
Preventative maintenance analysis

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Specifications

SUPPORTED PROGRAMMING SYSTEMS

- PSV7000
- PSV5000
- PSV3000
- LumenX Desktop
- FlashPAK III

*supports multiple PSV's simultaneously

EXAMPLE USE CASES CONNEX ENABLES WITH MQTT APIs

MES Client and Web App receive data from PSV Systems. MQTT is a publish/subscribe open-source messaging protocol enabling event-driven two-way communication between machines.

- Load job
- Remote pause
- Inventory tracking
- Barcode scanning

Graph QL is an open-source framework for data queries that streamlines access to and usage of historical data for data visualization and analysis

- GraphQL APIs
- Sample GraphQL client application

CONNEX SUPPORTS SENTRIX SECURITY PROVISION REPORTING FOR SECURE MANUFACTURING AND SUPPLY CHAIN OPTIMIZATION STRATEGIES:

- Key and Certificates
- Device ID

*Use Cases and reporting based on device functionality

LICENSING

- Free 30 day trial*
- Client & Site license

*Free trial includes GraphQL client sample application with system monitoring

SYSTEM REQUIREMENTS

Data I/O recommends keeping your PSV systems up-to-date with the current system software (AH/CH) and programmer firmware and software (FlashCORE and LumenX) to get access to the full set of data objects supported by ConneX.

Sample Data Objects Supported

Module	Event / Statistic	Programmer	
		LumenX	FlashCORE
Handler	TimeStamp	✓	✓
	Handler Name	✓	✓
	Handler IP	✓	✓
	Handler Software Versions	✓	✓
Programmer	Programmer Type	✓	✓
	Programmer Software Versions	✓	✓
	Programmer Serial Number	✓	✓
Adapter	Adapter ID	✓	✓
	Adapter Serial Number	✓	✓
	Adapter "clean count"	✓	✓
	Adapter Lifetime Actuations	✓	✓
	Adapter Lifetime Continuity Failures	✓	✓
	Adapter Failure Count	✓	✓
	Adapter Pass Count	✓	✓
	Socket Index	N/A	✓
	Algorithm ID	✓	✓
	Job ID	✓	✓
Job	Job Name	✓	✓
	Job Description	✓	✓
	Device Name	✓	✓
	Device Manufacturer	✓	✓
	Chip ID	✓	✓
Device	Programming Result	✓	✓
	Algorithm ID	✓	✓
	Verification Duration	✓	✓
	Overhead Duration	✓	✓
	Blank Check Duration	✓	✓
	Erase Duration	✓	✓
	Error Message	✓	✓
	Handler Name	✓	✓
	Handler IP	✓	✓
	Handler Software Versions	✓	✓
	Serial Data	✓	✓
Programmer Hardware Versions	✓	✓	
Image Checksum	✓	✓	