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## Motorola Canopy®



The Canopy® system is the ideal technology for developing, enhancing and extending advanced broadband networks and services, making delivery of high-demand technologies like Internet access, voice over IP, video services, security surveillance, and SCADA, both faster and less expensive.



### How Canopy meets the Challenge

- License free Bands
  - Canopy works in the unlicensed UNII spectrum so there is no need for spectrum licensing
- Simple Installation
  - Canopy equipment is simple to install for those experienced in wireless communication systems
- Low Start-Up Cost
  - Canopy wireless modems are more affordable than any other wireless Internet suitable system for outdoor installations

### Delivering Reliable, Cost-Effective High-Speed Connectivity to Multiple Locations

Wireless broadband over IP is quickly becoming the world's preferred technology for enterprises, municipalities, and service providers, delivering advanced and in-demand IP-based voice, video, data, and SCADA data applications. Motorola's Canopy Point-to-Multipoint wireless solutions are leading the way with successful deployments all around the globe.

Canopy solutions deliver scalable, interference-resistant, high-speed connectivity to multiple residential, business, institutional, and municipal locations. The platform combines exceptional reliability with robust performance, scalability, multiple layers of security, ease-of-use, accelerated deployment, and remarkable affordability. It also integrates seamlessly with existing network systems and management tools, making it easier and more cost efficient to extend existing networks.

Maximizing the benefits by unlicensed wireless frequencies, Canopy solutions streamline the development, deployment, enhancement and extension of advanced IP-based wireless broadband networks. They excel at delivering ubiquitous high-speed connectivity and state-of-the-art services, and are currently helping to drive successful business models in more than 120 countries worldwide.

# Tools for the Integrator and User

**CTH Systems Inc**  
**FactoryLink Extensions**

## EFM Starter II

**EFM Starter II by CTH Systems Inc.**

The EFM Starter II application is intended to illustrate the current industry best practices for building a FactoryLink application for Electronic Flow Measurement.

**AGA Popup Instructions**  
 This is Important! This screen has values from many sources, please understand this message before going any further. The buttons below allow you to synchronize AGA values from the RTU

**Save the values from the RTU to the Database**  
 If the RTU has recently been polled for AGA parameters and the data from the RTU is correct and out of sync from the database, issue the SYNC to RTU now

**Restore from the Database to the RTU**  
 If the RTU has recently been polled but the tag values (and RTU values) are presently zero, then use this button to restore the FactoryLink Tags from the backups in the database

**Parameter List for Meter #1:**

- OrificeDiameter: = 56
- OrificeMaterial: = 0
- PipeDiameter: = 73.63
- BoreSize: = 2.21
- InnerDiameter: = 2.9
- MeterID: = Meter #1
- ContractHour: = 8
- AtmosPres: = 91.93
- Compress: = 1.02
- CorrectionFactor: = 1
- DiffCutoffLo: = 1

Item	Day	Month	Year	ID	LSD	Area	Hours	Pres	Diff	Temp	Flow
RTDB Val	1	16	6	2009 A002R1	a-38-B/94-H-3	Operator					
	2	16	6	2009 A003R1	a-40-A/94H-3	Partner	24	2050	50	32	270.28
Database	3	16	6	2009 A004R1	b-70-B/94-H-3	Operator					
Total Gas	4	16	6	2009 A005R1	C-67-B/94-H-3	Operator					

**Correction Screen**

Site: a-40-A/94H-3  
 Station ID: A003R1  
 Date: 16 / 6 / 2009  
 Type: PRES  
 Old Value: 2050.00  
 New Value: 2050.  
 Comment:   
 Confirm Cancel

Browsing: tblStationData SD LEFT OUTER JOIN HOURS ON SD.StationID Connected@CTH-64E6D26F66E

[Download EFM Starter II](#)  
 No licensing Required

## CTH Systems Inc FactoryLink Extensions

## FLeXs Report Generator

The FLeXS Report Generator (FRG) is a task which provides an effective method for generating reports for a FactoryLink system. The key advantage of FRG over all previous report generators is the fact that it can take data from both the FactoryLink Real Time Database (RTDB) and from the SQL database where historical production data is typically stored.

FRG makes report generation from FactoryLink easier than ever before. Specifically tailored for the Oil and Gas EFM market it's features include:

- Simple access to Real Time DataBase Tag data
- Simple access to SQL FCE HRP tables for historical production data
- Pre-defined Meter (AGA) and Event Reports
- Text, CSV, and PDF output file formats
- Multiple Font support
- Native integration with FactoryLink
- Sample reports for Daily, Monthly, Meter, Communication, Events

## CTH Systems Inc FactoryLink Extensions

## FLCopy

Tired of the complexity and inflexibility of Application Objects?

The FactoryLink Application object is wonderful for replicating the same thing over and over, but what about when you want to build one well from several others? Typically you have to use spreadsheets and create tags.

Now, with FLeXs copy (FLCP) this is easier than ever before.

FLCP is a command line tool that performs copy, rename, xref, purge, add, default value, export functionality based upon simple tag pattern matches. If you are familiar with DOS commands such as:

```
copy c:\mydir*.txt c:\otherdir*.txt
```

then you will love FLCP:

```
C:\>flcp -copy a001* b023*  
C:\>flcp -rename a005_tank* a005_tk*  
C:\>flcp -purge *
```

Download, install, and run "flcp" for help or "flcp -help" for more detailed help.

[Download FLeXs Copy](#)

No licensing required with licensed FRG or FCE

## Daily Report

My Oil and Gas Daily Report				Thu 02/12/2009	
Production for: 10/ 2/2009				14:27:26	
Station Name	Flow (E3m3/day)	Production Hours (hrs)	Pressure (kPa)	Diff. (kPa)	Temp (Deg. C)
MyStation	Empty	Empty	Empty	Empty	Empty
a-40-A/94H-3	Empty	Empty	Empty	Empty	Empty
b-70-B/94-H-3	Empty	Empty	Empty	Empty	Empty
C-67-B/94-H-3	Empty	Empty	Empty	Empty	Empty
Total:	0.00				

## FactoryLink Health Check

### CTH Systems Inc FactoryLink Extensions

CTH is offering a monthly online service to check the health of your FactoryLink HMI. This tool is designed to help the user as well as the integrator in ensuring a well maintained and reliable FactoryLink System. The services come in a 3 phase approach and are as follows:

#### Phase1 (Inspection)

This initial phase will be to inspect the FactoryLink application and ensure that the overall application is supportable. This includes checking that the user accounts are properly maintained (passwords and logins), logging is set up correctly, and SQL databases are set up and maintained correctly with industry best practices.

#### Phase 2 (Maintaining)

This is the ongoing portion of the maintenance. It would be performed on a monthly basis in order to ensure that any small issues do not have time to get out of hand. On a redundant system, any of these activities would include both servers. Some of the items that could be checked include status on FactoryLink tasks, hard drive space with de-fragmentation performed if necessary, shrinking of the SQL Server log file, and purging unused FactoryLink RTDB tags.

A documented summary in a brief System Health Report will be issued documenting areas that require attention.

#### Phase 3 (Scope-of-Changes)

This phase will consist of CTH offering a report for any further work outside the routine health check or after the initial inspection. A report of the issues we found will be documented and a follow-up call from our services group to discuss the findings.

*Note: The health check can only be offered for FactoryLink version 7.5 or higher.*

## Upcoming Training

### Motorola ACE Training

This course will start by introducing the student to the world of Motorola RTUs including hardware options, architecture, and communications. The students will then be introduced to the STS programming software and get hands on experience through a series of directed lab exercises.

September 21-24, 2009 @ Executive Inn Burnaby , BC

Registration Deadline August 28, 2009

[Course Outline](#)

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### FactoryLink 8.0 Training

During the FactoryLink 8.0 Training Course, students will be introduced to major FactoryLink modules and have the opportunity to practice using them during hands-on exercises. Students will learn the basics of implementing, customizing, and maintaining FactoryLink systems.

October 5-9, 2009 @ CTH Calgary, AB

Registration Deadline September 11, 2009

[Course Outline](#)

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CTH is a fully authorized training center for Siemens FactoryLink Software as well as Motorola ACE3600. These courses have a set format and are open to all interested students. They provide a solid background in the application and give students a general understanding of its functions and options. They are the perfect course for individuals looking to acquire a working knowledge of specific hardware or software.