

Protection Testing Library

## What's New in Version 4.10

Compared to Version 4.00



# 1 New Protection Test Templates

## 1.1 GE Multilin F650 V7.7x Feeder

### Features:

- > Phase Overcurrent
- > Phase Directional
- > Neutral Overcurrent
- > Neutral Directional
- > Ground Overcurrent
- > Ground Directional
- > Sensitive Ground Overcurrent
- > Sensitive Ground Directional

## 1.2 GE Multilin 889 V2.8x Generator

### Features:

- > Percent differential
- > Generator unbalance
- > Inadvertent energization
- > Loss of excitation
- > Offline overcurrent
- > Overload alarm
- > Thermal overload
- > Overcurrent protection
- > Voltage restrained time overcurrent
- > Directional element
- > Voltage protection
- > Frequency protection
- > Volt per hertz
- > Power protection

### 1.2.1 XRIO Converter Parameter Import

Relay settings can be exported from the *GE EnerVista 8 Series Setup* software and imported into the **XRIO Converter** using the *Filter for GE Enervista.csv Settings*.

## 1.3 Siemens 7SJ85 V8.82 Feeder

Replaces the PTL-item *Siemens 7SX800 V8.82 Feeder*.

### Features:

- > Overcurrent protection, phases
- > Overcurrent protection, ground
- > Directional overcurrent protection, phases
- > Directional overcurrent protection, ground
- > Instantaneous tripping at switch onto fault

### 1.3.1 XRIO Converter Parameter Import

Relay settings can be exported from the *Siemens DIGSI 5* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO files*.

## 1.4 Stucke SYMAP-Compact V1.31 Line

### Features:

- > Distance protection
- > Switch onto fault protection
- > Overcurrent protection
- > Ground current protection

### 1.4.1 XRIO Converter Parameter Import

Relay settings can be exported from the *SYMAP-Compact Parameter Tool* software and imported into the **XRIO Converter** using the *Standard Filter for XRIO files*.

## 1.5 Vivavis ACOS 354 V2.8 Line

### Features:

- > Distance Protection
- > Switch-onto Fault
- > Overcurrent Protection

### 1.5.1 XRIO Converter Parameter Import

Relay settings can be exported from the *EuroCAP* software and imported into the **XRIO Converter** using the *Filter for Protecta/Vivavis EuroCAP .par Settings*. The import filter is available from *Test Universe 4.31* on.

## 2 Updated Protection Test Templates

### 2.1 ABB RET670 V2.2.2 Transformer

**Changes:**

- > Support for two-winding transformer applications added
- > Support for 2nd and 5th harmonic blocking added
- > Delete Inactive Test Modules button added (TU user command)
- > Bugfixing

### 2.2 ABB REF630 V1.3 Feeder

**Changes:**

- > Import filter support for all analog input modules (AIM)
- > Trip test with circuit breaker updated to use 52b contacts
- > Delete Inactive Test Modules button added (TU user command)
- > Bugfixing

### 2.3 ABB RET630 V1.3 Transformer

**Changes:**

- > Import filter support for all analog input modules (AIM)
- > Trip test with circuit breaker updated to use 52b contacts
- > Delete Inactive Test Modules button added (TU user command)
- > Bugfixing

### 2.4 GE Multilin D60 V8.2x Line

**Changes:**

- > Updated to match firmware V8.2x
- > Import filter support for all voltage inputs
- > Trip test with circuit breaker updated to use 52b contacts
- > Delete Inactive Test Modules button added (TU user command)
- > Mho distance bugfixing
- > General bugfixing

### 2.5 GE Multilin L90 V7.31 Line

**Changes:**

- > Import filter support for all voltage inputs
- > Trip test with circuit breaker updated to use 52b contacts
- > Delete Inactive Test Modules button added (TU user command)
- > Mho distance bugfixing
- > Other bugfixing

## 2.6 Schneider Electric MiCOM P343 B5 Generator

### Changes:

- > Updated to match software version B5
- > Trip test with circuit breaker updated to use 52b contacts
- > Delete Inactive Test Modules button added (TU user command)
- > Bugfixing

## 2.7 SEL 411L R127 Line

### Changes:

- > Updated to match firmware R127
- > Trip test with circuit breaker updated to use 52b contacts
- > Support for 1-pole tripping
- > Distance bugfixing
- > Other bugfixing

## 2.8 SEL 421 4-5 R329 Line

### Changes:

- > Updated to match firmware R329
- > Trip test with circuit breaker updated to use 52b contacts
- > Distance bugfixing
- > Other bugfixing

## 2.9 Siemens 7SA86 V7.80 Line

### Changes:

- > Weak infeed logic added in *RelaySimTest* templates
- > Quad distance protection bugfixing

## 2.10 Siemens 7SA87 V7.80 Line

### Changes:

- > Weak infeed logic added in *RelaySimTest* templates
- > Quad distance protection bugfixing

## 2.11 Siemens 7SK82 V8.82 Motor

Replaces the PTL-item *Siemens 7SX800 V8.82 Motor*.

### Changes:

- > Negative-Sequence stages added
- > Power protection stages added
- > Power protection bugfixing
- > Other bugfixing

## 2.12 Siemens 7SK85 V8.82 Motor

### Changes:

- > Negative-Sequence stages added
- > Power protection stages added
- > Power protection bugfixing
- > Other bugfixing

## 2.13 Siemens 7SL86 V7.80 Line

### Changes:

- > Weak infeed logic added in *RelaySimTest* templates
- > Quad distance protection bugfixing

## 2.14 Siemens 7SL87 V7.80 Line

### Changes:

- > Weak infeed logic added in *RelaySimTest* templates
- > Quad distance protection bugfixing

### **3 General Changes**

#### **3.1 Siemens 7SX800 V8.82 Feeder**

Replaced by the PTL-item *Siemens 7SJ85 V8.82 Feeder*.

#### **3.2 Siemens 7SX800 V8.82 Motor**

Replaced by the PTL-item *Siemens 7SK82 V8.82 Motor*.

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worldwide offices please visit our website.

[www.omicronenergy.com](http://www.omicronenergy.com)

Subject to change without notice.