

# BLUE 3.5

## Read Me

Document Revision: 02

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## 1 ソフトウェアの説明

このソフトウェアは、PC でヒューマンマシンインタフェース(HMI)のユーザーアプリケーションを開発するための統合開発環境を提供します。開発した HMI ユーザーアプリケーションは、ランタイムソフトウェアによって複数のハードウェアで動作します。

## 2 動作環境 (画面編集ソフトウェア)

	最小仕様	コメント
PC	Windows PC/AT 互換マシン	-
CPU	第 8 世代 Intel(R) Core™ i3/i5 プロセッサ以上	-
メモリー	8 GB 以上	-
ハードディスクスペース	30 GB 以上	-
OS	Windows 10 Pro (64-bit) 最新更新版	-
オペレーティングシステム以外のプログラム	.NET Framework 4.7.2 full *1	-

\*1 画面編集ソフトウェアのインストールの際、.NET Framework Ver. 4.7.2 full が自動的にインストールされます。ディスク容量の要件につきましては、Microsoft のウェブサイトをご参照ください。

### MEMO:

- 本製品は、アドミニストレーター権限のあるユーザーアカウントでインストールの上、ご使用ください。
- ソフトウェアのインストールファイルには、電子署名が設定されています。インストール中に電子署名に関する問題が発生した場合は、インストールを中止し、カスタマーサポートにお問い合わせください。

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## 3 アクセス権限

### 3.1 画面編集ソフトウェア

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画面編集ソフトウェアのインストールまたはアンインストールは、管理者権限で実行してください。

### 3.2 ランタイム (IPC シリーズまたは PC/AT 使用時)

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ランタイムのインストールまたはアンインストールは、管理者権限で実行してください。

プロジェクトファイルを転送する場合、転送前にランタイムを管理者権限で起動してください。

## 4 安全なアプリケーションのために

このセクションでは、アプリケーションを安全に設定するためのポイントについて説明します。

**MEMO:** セキュリティ関連のメッセージはフィードバックゾーンの [セキュリティ警告] タブに表示されます。メッセージを確認し、サイバーセキュリティのリスクを軽減するための是正措置を実行してください。

### 4.1 サイバーセキュリティベストプラクティス

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**Pro-face** 製品を保護し安全性を維持するために、サイバーセキュリティのベストプラクティスを実践することをお勧めします。

記載の推奨事項を実践していただくことで、お客様のサイバーセキュリティリスクを減らすことが期待できます。

推奨事項については、以下の URL を参照してください。

<https://www.pro-face.com/trans/ja/manual/1087.html>

### 4.2 不正アクセス防止のための安全なネットワークを構築する

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- 暗号化された通信を使用した通信環境を構築してください。(例: VPN)
- イーサネット経由で通信を確立してデータを転送する前に、ネットワークの安全性を確認してください。
- イーサネット通信に基づいていない転送オプションを選択します。(例: USB ケーブルまたはファイルシステム)  
イーサネット通信に基づいた転送オプションが必要な場合は、IPsec の使用を推奨します。

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- 通信サービスを使用する場合にのみ、データ通信のポートを開いてください。
  - パソコンはファイアウォールで保護し、信頼できる安全なネットワークでご使用ください。
  - 表示器は信頼できる安全なネットワークに設置し、ファイアウォールで保護してください。

### 4.3 表示器上での権限外操作を防止する

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- セキュリティー機能を使用してください。
  - 自動ログアウト機能を使用してください。
  - ロックを解除するための適切なセキュリティーレベルを、限定されたユーザーにのみ与えてください (管理者権限を持つユーザーのみにロック解除を許可する等)。
- 以下のオペレーションでは、パスワードが要求されません。
  - 接続機器オペレーションブロック - Upload (USB Storage/SD Card)
  - 接続機器オペレーションブロック - Download (USB Storage/SD Card)
  - ハードウェア設定画面の表示

上記のオペレーションで使用されるスイッチに、セキュリティーレベルの設定をしてください。
- 表示器への接続に **Web Viewer** を使用している場合、パスワードを表示させる [\*\*\*] ボタンは押さないでください。表示させたパスワードは、接続されているすべての表示器および **Web Viewer** クライアントに表示されます。

#### 4.3.1 SP5000 シリーズオープンボックス (Windows 10 IoT Enterprise モデル)、IPC シリーズ、PC/AT を使用する場合

- ランタイムは信頼のできるパソコンでのみ使用してください。
- プロジェクトファイルの転送、またはその他の管理者権限が必要な操作を実行する場合を除き、管理者権限をもつアカウントで **Windows** にログインしないでください。
- **Windows** のセキュリティー機能を使用してください (パスワードの設定、自動ログアウト機能の使用など)。
- プロジェクトの管理者アカウントに安全なパスワードとセキュリティーを設定してください。

### 4.4 情報の改ざんから保護する

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- 次のガイドラインを使用し、サイバーセキュリティーのベストプラクティス (ウイルス対策、オペレーティングシステムの更新、強力なパスワードポリシー、アプリケーション

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ン許可リストソフトウェアなど) に従ってパソコンを強化します。

<https://www.pro-face.com/trans/ja/manual/1087.html>

- ご自身のデータを慎重に管理してください。
- プロジェクトパスワードを追加して、プロジェクトを保護してください。
- USB ケーブルまたはイーサネットケーブルによる転送オプションを使用する場合は、[転送方法] の [セキュリティー設定] を有効にしてください。
- Windows 管理者権限で画面編集ソフトウェアを実行しないでください。
- 画面編集ソフトウェアは信頼のできるパソコンでのみ使用してください。

## 5 ライセンス認証

ライセンスの認証方法については、Schneider Electric License Manager のヘルプを参照してください。

## 6 ツール

以下のツールは、インストールされた¥Tools フォルダから頒布することができます。

- Export Validation Tool
- User Management Tool

## 7 新機能および機能改善

### 7.1 対応ハードウェア

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PS6000 シリーズベーシックボックス

- PS6000 シリーズベーシックボックスに対応しました。

### 7.2 ドライバーの更新

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以下のドライバーに対応しました。

- 株式会社アイエイアイ - X-SEL コントローラー
- Shenzhen Inovance Technology Co., Ltd. - Modbus TCP マスター
- Shenzhen Inovance Technology Co., Ltd. - Modbus SIO マスター

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新バージョンの L5K (Studio 5000 (旧 RSLogix5000) V35) は以下のドライバで対応できるようになりました。

- Rockwell Automation, Inc. - EtherNet/IP

## 7.3 新しい機能

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複数選択一括設定機能

- オブジェクトまたは変数を複数個選択した時に、共通するプロパティが自動的に絞り込まれ、それらを一括で設定できるようになりました。これにより、画面編集時の、オブジェクトまたは変数の設定工数を削減できます。

サポート情報の改善

画面編集ソフトウェアのアプリケーションツールバーに以下の機能が追加されました。

- 切り取り
- "?" メニュー
  - オフラインヘルプ
  - オンラインヘルプ
  - HMI Design Studio
  - Readme

## 8 修正済み制限事項

### 8.1 作画時の修正済み制限事項

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HMIIMG-194	(シンボルリンク) IEC フォーマットに準拠しない Unity-Pro ファイルのアドレスがシンボルリンク機能でインポートされる問題を改修しました。これらのアドレスはインポートされません。
HMIIMG-15887	(ユニフォームグリッド) ユニフォームグリッドで、[可視]プロパティを[非表示]または[縮小]に設定したグラフィックオブジェクトを表示している場合、オブジェクトが正しく表示されない問題を改修しました。
HMIIMG-15938	(シンボルリンク) シンボルリンク機能で Rockwell L5K File (.L5K)をインポートした場合、一部のタグがインポートされない問題を改修しました。
HMIIMG-16240	(レイアウトオブジェクト) レイアウトオブジェクトを入れ子で使用している場合、親レイアウトオブジェクト内のグラフィックオブジェクトを[可視]プ

	ロパティで[縮小]に設定しても、子レイアウトオブジェクトのサイズが正しく調整されない問題を改修しました。
HMIIMG-16326	(画像表示器) 画像表示器で画像ファイルが保存された正しいパスを指定しているにも関わらず、シミュレーションで「Images not found. There are no files with .png in the specified folder.」と表示される問題を改修しました。
HMIIMG-16337	(シンボルリンク) SoMachine Basic File only Modbus (.SMBP)に Time タグまたは Counter タグが含まれる場合、インポートできない問題を改修しました。シンボルファイルをインポートすると、Time タグおよび Counter タグを除いたタグがインポートされます。
HMIIMG-16374	(部品 / 図形) 以下の図形で頂点の編集や角度の変更を行う場合、[オブジェクトをスナップ]オプションを使用しても編集点がスナップしない問題を改修しました。 -円弧 -アーチ -連続曲線 -ドーナツ -直線 -パス -扇形 -連続直線 -多角形
HMIIMG-16409	(トリガー / オペレーション) グラフィックオブジェクトの[タッチ]タブで[オペレーション]内の設定にデータバインディングが使用されている場合、[種類]からデータバインディングを使用しないオペレーションに変更した後に、元のオペレーションで使用されていたバインディングソースを削除すると、画面編集ソフトウェアが強制終了する問題を改修しました。
HMIIMG-16577	(プロジェクトファイル変換) 画面編集ソフトウェアで、[シンボルリンク]に同じ構造体の変数が複数ある古いバージョンのプロジェクトファイルを開くことができない問題を改修しました。
HMIIMG-16789	(プロジェクトファイル変換) 画面編集ソフトウェアで古いバージョンのプロジェクトファイルを開くと、不要なエラーメッセージ[このブロックにプロパティを割り当てることはできません。オブジェクトを割り当ててください。]が表示される問題を改修しました。
HMIIMG-16899	(画面編集ソフトウェア) 長い文字数のユーザーアカウント名で Windows にログインした場合、コピーしたオブジェクトを貼り付けることができない問題を改修しました。
HMIIMG-16987	(画面編集ソフトウェア) スクリプト内の一部のエラーが表示されないために、シミュレーションの実行が失敗する問題を改修しました。必要なエラーが表示されるようになりました。
HMIIMG-17382	(画面編集ソフトウェア) 画面編集ソフトウェアの言語をドイツ語にした場合、バインディングソースの種類に誤った文字が表示されていた問題を改修しました。

HMIIMG-17503	(シンボルリンク) CoDeSys Automation Alliance の CoDeSys V3 Ethernet ドライバーでシンボルファイルをインポートすると、インポートした <b>STRING</b> および <b>WSTRING</b> 変数の[バイト数/ワード数]が 0 になる問題を改修しました。
HMIIMG-17647	(画面編集ソフトウェア) バインディングソースが削除されてもエラーを表示しない部品が存在したために、その部品を配置したコンテンツが表示されない問題を改修しました。必要なエラーが表示されるようになりました。
HMIIMG-17663	(ドライバー) 富士電機株式会社の <b>MICREX-SX</b> シリーズイーサネットドライバーを以下の表示器で使用している場合、ランタイムが正しく通信できない問題を改修しました。 <ul style="list-style-type: none"> <li>- ST6000 シリーズ</li> <li>- STM6000 シリーズ</li> <li>- GP-4100 シリーズ</li> <li>- SP5000 シリーズパワーボックス</li> <li>- SP5000X シリーズ</li> </ul>
HMIIMG-18356	(Web Viewer) 画面編集ソフトウェアで <b>Basic</b> ライセンスを使用している場合、 <b>Web Viewer</b> の設定ができない問題を改修しました。

## 8.2 表示器使用時の修正済み制限事項

HMIIMG-16071	(画面 / コンテンツ) [Target01]プロパティウィンドウで[画面 ID]プロパティに変数をバインドした場合、前画面へ戻る機能が正しく動作しない問題を改修しました。
HMIIMG-16714	(スクリプト) スクリプトの[周期]トリガーが以下の条件を満たす場合、50 日経過後にトリガーが実行されなくなる問題を改修しました。 <ul style="list-style-type: none"> <li>-グローバルスクリプトで使用していること。</li> <li>-50 日以上、常に表示されている画面またはコンテンツで使用していること。</li> </ul>

## 9 制限事項

この章では、画面編集ソフトウェア、ランタイムにおける制限事項を説明しています。

### 9.1 ライセンスの制限事項

HMI-44117	(License) In the Schneider Electric License Manager, if a version 3.0 trial license is still active, please remove it.
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## 9.2 インストーラーの制限事項

HMIIMG-9134	(画面編集ソフトウェア) 画面編集ソフトウェアのインストール先に <b>Unicode</b> 文字を含むパスを指定しないでください。インストールできません。 <b>Unicode</b> 文字を含まないパスを指定してください。
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## 9.3 作画時の制限事項

HMIIMG-13566	(画面編集ソフトウェア) 画面編集ソフトウェアで、プロジェクトファイルを閉じた後に再度開いた場合、タブの状態が変わることがあります。 - ひとつのドッキング領域に複数のタブがある場合、その順序が保持されません。 - レイアウト要素 (参照項目など) を閉じた後に再度プロジェクトを開くと、そのレイアウト要素が開いた状態になります。
HMIIMG-14578	(画面編集ソフトウェア) <b>Windows 8.1</b> および <b>Windows Server 2012 R2</b> は、画面編集ソフトウェアに対応していない <b>OS</b> です。画面編集ソフトウェアをインストールすることは可能ですが、正常に起動することはできません。
-	(画面編集ソフトウェア) 画面編集ソフトウェアで、ナビゲーションスイッチのプロパティにエラーがある場合、エラーウィンドウに表示されたメッセージからエラー箇所へ移動することができない場合があります。エラーウィンドウで[ソース]、[パス]、[プロパティ]の内容を確認し、手動でエラー箇所へ移動してください。
HMIIMG-14754	(画面編集ソフトウェア) 画面編集ソフトウェアで、スクリプトにエラーがあった場合、エラーウィンドウに表示されるエラーの数がブロックモードとテキストモードで異なる場合があります。
-	(プロジェクトファイル変換) 本バージョンで下記プロジェクトファイルを開く前に、リンク先を参照ください。マニュアルのトップページから[機能ガイド]のアイコンをクリックし、表示されたマニュアルの目次から[ご使用前] - [プロジェクトファイル変換の注意点]の順に選択します。
HMIIMG-3101	(コンテンツ表示器) コンテンツ表示器および参照先コンテンツの幅・高さの値を、他のプロパティやスクリプトから参照しても、値が正しく取得できない場合があります。
HMIIMG-337	(フォント) フォントの種類に含まれる、 <b>Chinese_Simplified_GB2312_Gothic</b> は将来のバージョンにて使用できなくなる予定です。 このフォントを使用した古いバージョンのプロジェクトファイルを本バージョンで開くと、 <b>Chinese_Simplified_GB18030_Gothic</b> に変換されます。

HMIIMG-10595	(スクリプト) スクリプト編集画面のテキストモードで検索と置換を使用する場合、特殊文字 ( ' \$ ' 、 ' ^ ' 、 ' * ' など) を含む検索が正しく動作しないことがあります。
HMIIMG-9909	(スクリプト) スクリプト編集画面がテキストモードの場合、[参照項目]ウィンドウからテキストモードのスクリプトを置換することはできません。スクリプト編集画面の検索と置換を使用してください。
HMIIMG-3391	(スクリプト) スクリプト上で、動作対象外のオブジェクトをタッチトリガーに指定しても、画面編集ソフトウェア上でエラーになりません。 -アラーム表示器 -ハードウェア設定 -レシピデータ表示器 -画像表示器 -ウェブブラウザ -全てのレイアウトオブジェクト -画面 / コンテンツ -グループオブジェクト
HMIIMG-8160	(アラーム) スクリプトでアラームメッセージを変更できません。画面編集ソフトウェアでアラームメッセージを変更するスクリプトを作成するとエラーが発生します。
HMIIMG-6850	(変数) “Structure” という名前の変数を含む変数ファイルをインポートしないでください。
-	(シンボルリンク) シンボルファイルをインポートする場合、以下の制限事項があります。 未対応データタイプ -ENUM -INTERFACE 指定された既存データタイプに変換されるデータタイプ -SUBRANGE -POINTER TO -REFERENCE 構造体データタイプに変換されるデータタイプ -UNION -FUNCTION_BLOCK
-	(シンボルリンク) Rockwell L5K ファイルの NamedBasic タイプの変数は、シンボルリンクで文字列変数として取り込まれます。
-	(シンボルリンク) %IWS と %QWS は SoMachine Basic File only Modbus (.SMBP)から取り込むことができません。
HMIIMG-9036	(シンボルリンク) インポートしたシンボルファイルにサポートされていない文字を含む PLC 変数があると、[Invalid unicode character]エラーが表示される場合があります。可能であれば、PLC ソフトウェアで変数の名前を変更してください。

HMIIMG-13268	(シンボルリンク) 機器名とフォルダ名は、プロジェクトファイル内で一意である必要があります。シンボルリンク機能を使用する場合は、シンボルファイルをインポートする前に、名称が重複していないことを確認してください。
-	(転送) 転送失敗後に表示される復旧転送用画面では、ファイルシステム転送によってランタイムバージョンをバージョン 3.1.100 未満からアップグレードすることはできません。
HMIIMG-3294	(転送) プロジェクトファイルを転送中に[ALT]キーを押すと、転送に失敗する場合があります。
-	<p>(IPC シリーズ、PC/AT) [IPC シリーズ および PC/AT] バージョン 3.1 以前のランタイムをご使用の場合、バージョン 3.1 Service Pack1 以降のプロジェクトファイルを転送することはできません。</p> <p>転送しようとする、画面編集ソフトウェア上で以下のエラーメッセージが表示されます。</p> <p>[ダウンロード操作では更新はできません。インストーラーを使用して、ランタイムを最新バージョンに更新してください。]</p> <p>転送するには、最新バージョンのランタイムをインストールする必要があります。</p> <p>インストーラーDVD の以下のパスから、ランタイムのインストールを開始できます。</p> <p>"¥BLUE_Setup¥BLUERuntime¥BLUERuntime.exe"</p> <p>最新バージョンのランタイムをインストールすると、インストール前に転送されていたプロジェクトファイルが消去されます。インストール後にプロジェクトファイルを再度転送してください。</p> <p>.NET Framework がまだインストールされていない場合、またはそのバージョンが古い場合、.NET Framework もインストールされます。.NET Framework のインストール後、インストール先が再起動されます。</p> <p>最新バージョンのランタイムをインストールするために、既にインストールされているランタイムをアンインストールする必要はありません。</p>
HMIIMG-16476	<p>(部品 / 図形) プロジェクトファイルを開いた場合、ランプやマルチステートランプなどの状態を変更できる部品で、[可視]プロパティのバインディングソースの情報が失われる場合があります。以下の手順に従って、修正してください。</p> <p>手順 1 : 問題が発生する画面/コンテンツをコピーし、別の画面 ID/コンテンツ ID として貼り付けます。</p> <p>手順 2 : コピー元の画面/コンテンツを削除します。</p> <p>手順 3 : コピー先の画面 ID/コンテンツ ID をコピー元の値に変更します。</p> <p>手順 4 : [可視]プロパティを再度設定し、プロジェクトファイルを保存します。</p>
HMIIMG-17148	<p>(プロジェクトファイル変換) 古いバージョンのプロジェクトファイルを変換すると、グラフィックオブジェクトの色 ID が変更される場合があります。プロジェクトファイルの変換後は色 ID を確認してください。なお、プロジェクトファイルの変換後に編集や保存をせず、そのままプロジェクトを閉じると、再度プロジェクトファイルを開いたときに正しい色 ID になります。</p>

HMIIMG-17373	(マルチステートランプ) 状態を画像で表示するマルチステートランプで、状態の数を増やして画像を設定した場合、以前設定していた画像が正しく表示されない場合があります。 表示されない画像を再度設定してください。
HMIIMG-17813	(スクリプト) スクリプトがテキストモードの場合、[レシピ]オペレーションの[インポート]が正しく動作しない場合があります。レシピをインポートする場合は、ブロックモードを使用してください。
HMIIMG-18396	<p>(画面編集ソフトウェア) 画面編集ソフトウェアでバージョン <b>3.4</b> のプロジェクトファイルを開いた場合、スクリプトで使用されているいくつかのプロパティでエラーが表示される場合があります。エラーが表示されたプロパティを使用しないようにスクリプトを編集してください。</p> <p>ブロックトレンド、トレンドグラフ</p> <ul style="list-style-type: none"> <li>-QualityIcon(struct) <ul style="list-style-type: none"> <li>- Border</li> <li>- GoodFill</li> <li>- BadFill</li> <li>- StayBadFill</li> <li>- BadForeColor</li> </ul> </li> <li>-TimeScalePen</li> <li>-PlateFill</li> <li>-GridFill</li> <li>-TimeLabelPen</li> <li>-LoggingStopFill</li> <li>-CursorPen</li> </ul> <p>文字列表示器</p> <ul style="list-style-type: none"> <li>-Locals(struct) <ul style="list-style-type: none"> <li>- Fill</li> <li>- Border</li> <li>- TextColor</li> </ul> </li> </ul> <p>レシピドロップダウン</p> <ul style="list-style-type: none"> <li>-ViewBehavior(Struct) <ul style="list-style-type: none"> <li>- SelectedColor</li> </ul> </li> </ul>

## 9.4 表示器使用時の制限事項

HMIIMG-14539	<p>(表示器) 以下の機能を特定の設定で使用した場合に、表示器が正しく動作しない場合があります。</p> <ul style="list-style-type: none"> <li>- 長い文字列を含む文字列変数で、多数のアラームレコードを設定した場合</li> <li>- 非常に大きな値の <b>64</b> ビットの変数で、多数のロギングデータレコードを設定した場合</li> </ul>
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HMIIMG-1773	(画面 / コンテンツ) スクロールグリッドコンテンツのサイズが表示先のコンテンツ表示器のサイズより小さい場合、スクロールグリッドコンテンツのサイズはコンテンツ表示器のサイズに拡張されます。
HMIIMG-11913	(画面 / コンテンツ) 表示器と接続機器の通信が不安定な場合、画面切り替え時に表示器の画面が数秒間フリーズする場合があります。
HMIIMG-1198	(ハードウェア設定画面) ハードウェア設定画面上の操作によりランタイムが再起動した時、外部ストレージの認識状態が更新されない場合があります。この場合は、表示器の電源を再投入してください。
HMIIMG-5458	(ハードウェア設定画面) Pro-face Connect の初回設定時、ハードウェア設定画面で設定を変更した後に[Save & Restart]をタッチしてから、表示器の電源を再投入して再起動してください。
HMIIMG-3272	(ハードウェア設定画面) ハードウェア設定画面内の操作ログ画面でフィルター設定画面[Filter Simplified]からフィルターを実行した場合、項目が正しく表示されない場合があります。
HMIIMG-9202	(ハードウェア設定画面) ハードウェア設定画面では、ドライバーごとに最大 32 台の機器の Scan Off Control が表示されます。ハードウェア設定画面から Scan Off Control を変更できない場合は、機器のソースプロパティ '.ScanOffControl'を使用して Scan Off Control を変更してください。
HMIIMG-2768	(キーパッド) キーパッド表示中に高速でタッチを繰り返した場合、押下時の反転表示が表示されない場合があります。これは表示だけの問題で、値の書き込みは正常に行われます。
HMIIMG-10937	(テキストボックス) テキストボックスオブジェクトで太字属性を使用すると、画面編集ソフトウェアと表示器で表示される文字の太さが異なる場合があります。
HMIIMG-3157	(アラーム表示器) アラーム表示器のフィルター設定画面[Filter Simplified]に表示できる項目は 146 個までです。146 個以上の項目がある場合は、[Search]にテキストを入力して絞り込むか、フィルター詳細設定画面[Filter Detailed]を使用してください。
HMIIMG-3272	(アラーム表示器) アラーム表示器のフィルター設定画面[Filter Simplified]でフィルターを実行した場合、項目が正しく表示されない場合があります。
HMIIMG-7465	(数値表示器) 数値表示器の[現在値]に、コンバーターと一緒にソースプロパティを設定している場合、数値表示器の[フォーマット]および[小数点桁数]プロパティが設定可能にもかかわらず、設定内容が適用されません。これらのプロパティの代わりに、コンバーターのプロパティで設定された内容が適用されます。対象のコンバーターは以下になります。 <ul style="list-style-type: none"> <li>- 単位</li> <li>- スケール</li> <li>- 定義式</li> </ul> 上記は正しい動作であり、将来のバージョンアップにより、数値表示器の[フォーマット]および[小数点桁数]プロパティは、上記の場合では表示が無効になります。

HMIIMG-9007	(数値表示器) [Arabic_Gothic]または[Hebrew_Gothic]フォントで接頭辞や接尾辞を設定すると、表示器上の数値表示器で文字の順序が間違っ表示されます。
HMIIMG-9613	(文字列表示器) IME で日本語入力する文字列表示器で[テキストを*として表示]を有効にしないでください。文字を入力する際に、現在格納されている文字列が表示されます。[テキストを*として表示]プロパティを使用する場合は、入力を開始する前に文字列をクリアするようにシステムを設計してください。
-	(ウェブブラウザ) ウェブブラウザ部品で TIFF および MNG 画像ファイルが非対応となりました。
HMIIMG-14581	(ウェブブラウザ) ウェブブラウザ部品で、パスを利用した動的なコンテンツを表示すると、正しく表示されない場合があります。
HMIIMG-439	(トリガー / オペレーション) タッチ中のオブジェクトが、他のオブジェクトのアニメーションや、可視の変化によって隠された場合、タッチトリガー (Click または Release)はそのタイミングでは発生しません。トリガーはタッチ中オブジェクトが隠されていないものと認識して動作します。
-	(トリガー / オペレーション) [ファイル管理]オペレーションを使用する場合、ファイルまたはフォルダ名の文字が英語でない場合は[ファイル管理]オペレーションで表示されるダイアログ上でファイルまたはフォルダ名が正しく表示されません。
HMIIMG-14432	(トリガー / オペレーション) [オペレーションの結果]オペレーションを使用する場合、指定したオペレーションが失敗したときに、正しい結果が得られない場合があります。
HMIIMG-3316	(ロギング) [ファイル管理]オペレーションの実行中は、ログの周期によってはデータがログされない場合があります。
HMIIMG-7560	(ロギング) トレンドグラフの表示点数、ロギンググループの最大レコード数、および使用している表示器の組み合わせによっては、トレンドグラフの表示が非常に遅くなる場合があります。トレンドグラフの表示点数は下記設定で増減します。 - チャンネル数 - 単位
-	(ネットワーク) 運転中、ローカルネットワーク上に存在する他の機器と重複する IP アドレスを設定しようとする場合や、表示器と重複する IP アドレスを持つ機器をローカルネットワークに接続した場合、IP アドレスの重複を検出できません。 ランタイム起動時のみ、ローカルネットワーク上に存在する機器の IP アドレスをチェックし、表示器と重複があればシステムエラーを発報します。表示器の IP アドレス変更後はランタイムが再起動されますので、再起動後にシステムエラーが発報されていないか確認してください。

HMIIMG-9614	(Web Viewer) プロジェクトの転送が失敗した場合、Web Viewer ライセンスは削除されます。同じライセンスキーコードを使用して、表示器で Web Viewer を再度追加してください。
HMIIMG-15921	(Web Viewer) 配管オブジェクトで、[影]を有効にし、完全に水平または垂直な形状で使用した場合、iOS および iPadOS 上の Web Viewer で正しく表示されない場合があります。
HMIIMG-438	(IPC シリーズ、PC/AT) ログイン、操作ログ、アラームのエクスポート先として、マルチバイト文字を含むフォルダー名またはファイル名を使用する場合、表示器の OS でシステムロケールを適切に設定する必要があります。
HMIIMG-438	(IPC シリーズ、PC/AT) 画像表示器の[保存先フォルダー]および画像のファイル名にマルチバイト文字を含む場合、表示器の OS でシステムロケールを適切に設定する必要があります。
HMIIMG-7325	(IPC シリーズ、PC/AT) ランタイムをインストール後に初めて起動する場合は、スタートメニューから[BLUE Runtime]のアイコンを右クリックして表示されるメニューから[管理者として実行]を選択してください。管理者として実行しない場合、Welcome Screen が表示されない場合があります。
HMIIMG-9134	(IPC シリーズ、PC/AT) ランタイムのインストール先に Unicode 文字を含むパスを指定しないでください。インストールできません。Unicode 文字を含まないパスを指定してください。
HMIIMG-16228	(IPC シリーズ、PC/AT) ランタイムアプリケーションを起動した後に、タッチ機能を備えたディスプレイの電源を投入した場合、タッチが効かなくなる場合があります。アプリケーションを起動する前にディスプレイの電源を投入してください。
HMIIMG-3178	(外部ストレージ(SD カード / USB ストレージ)) 間断なく USB ストレージへのアクセスが発生している状態で、USB 取り出しを実行しても動作しない場合があります。 USB ストレージへのアクセスを中断する機能を設けるか、アクセス先のストレージを変更するなどの対応を行ってください。
HMIIMG-16671	(バーコードリーダー) USB バーコードリーダーは「日本語キーボード 106」および「英語キーボード 101」以外のキーコードには対応していません。
HMIIMG-17723	(セキュリティ) 表示器のセキュリティによってロックアウトされたユーザーがロックアウト中にログインを試みた場合、表示されるエラーメッセージからはロックアウト中かどうか判別できません。ユーザーがロックアウト中かどうかはシステムエラーや操作ログで判別してください。

## 9.5 通信ドライバーの制限事項

HMIIMG-3263	(OPC UA サーバー) OPC UA サーバー機能を使用している場合、表示器は初回起動時にサーバー証明書を作成します。また、OPC UA クライアントは初回の接続時にサーバー証明書を確認します。 以下の場合、サーバー証明書が更新されるため、OPC UA クライアントによるサーバー証明書の確認が再度必要になる場合があります。 -ハードウェア設定画面にある OPC UA サーバーのメニューから証明書の再発行(Regenerate Certificate)を行った場合 -ファイルシステムによる転送を行った場合 (イーサネットまたは USB ケーブルによる転送の場合、この問題は発生しません)
HMIIMG-8765	(ドライバー) Schneider Electric の Modbus タイプのドライバを使用している場合に、TM デバイスを含むシンボルファイルをインポートすると、それらのシンボルもインポートされます。ただし TM デバイスは未サポートのため、動作しません。
HMIIMG-15528	(ドライバー) Schneider Electric - Machine Expert Network ドライバーで、配列の構造体に 'X'や'Y'という変数名の要素が存在する場合、これらの変数を使用するとランタイムが正しく通信しないことがあります。
HMIIMG-7247	(SP5000X シリーズ、SP5000 シリーズパワーボックス / オープンボックス) CANopen Slave ドライバーと TIA Portal Ethernet ドライバーを同時使用する場合、他のドライバーを同時に使用しないでください。CANopen Slave ドライバーの通信が止まる恐れがあります。
HMIIMG-1065	(ST6000 シリーズ) フロー制御で XON/XOFF が動作しません。
HMIIMG-17492	(Schneider Electric - Machine Expert Network) Schneider Electric の Machine Expert Network ドライバーで、[暗号化通信を使用する]を有効にしている場合、ランタイムが正しく通信しないことがあります。
HMIIMG-17634	(ドライバー) Rockwell Automation, Inc.の EtherNet/IP ドライバーで Micro 800 シリーズを使用している場合、Connected Components Workbench (CCW)で作成した、ネスト構造のタグを含むシンボルファイルは、画面編集ソフトウェアに正しくインポートされない場合があります。

## 9.6 サイバーセキュリティ

-	(サイバーセキュリティ) 信頼できるプロジェクトファイルのみ画面編集ソフトウェアで開いてください。
-	(サイバーセキュリティ) BLUE Runtime は、潜在的なサイバーセキュリティの脆弱性を持つ可能性のある古い Schneider Electric License Manager コンポーネントを使用しています。 CWE-74 : Improper Neutralization of Special Elements in Output Used by a Downstream Component ('Injection') 詳細は以下をご参照ください。 <a href="https://cwe.mitre.org/data/definitions/74.html">https://cwe.mitre.org/data/definitions/74.html</a>

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## 10 インストーラーの整合性検証

弊社ウェブサイトまたは Schneider Electric Software Update からインストーラーをダウンロードした場合、インストーラーの SHA256 が取得できます。インストーラー入手後、以下の手順に従って、SHA256 のチェックを行ってください。

手順 1 : Windows のスタートメニューから [Windows PowerShell] > [Windows PowerShell] を起動します。

手順 2 : ‘Get-FileHash’ にダウンロードしたファイルのファイルパスを指定します。

```
PS C:¥Users¥UserName> Get-FileHash 'C:¥Users¥Public¥Downloads¥Schneider
Electric¥Software Update¥Downloads¥<installer executable fine name>' (例
Soft_BLUE64_V34.exe)
```

手順 3 : Enter キーを押します。指定したファイルのハッシュが以下のように表示されます。

```
PS C:¥Users¥UserName> Get-FileHash 'C:¥Users¥Public¥Downloads¥Schneider
Electric¥Software Update¥Downloads¥<installer executable fine name>'
```

```
Algorithm      Hash
Path
```

```
-----      ----
```

```
SHA256
BCE70FCF3AA21663F828CF9244102533592F5721B10D6ABA1C050A5B815076EB
C:¥Users¥Public¥Downloads¥...:
```

手順 4 : ファイルのハッシュと、ウェブサイトまたは Schneider Electric Software Update から取得した SHA256 を比較してください。

## 11 オープンソースソフトウェアについて

本製品に使用するオープンソースソフトウェアには、以下に記載の著作権で保護されているものが含まれます。

### 11.1 LUA Plus

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## 11.2 SQLCipher

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## 11.13 DbExecutor

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## 11.15 Extended.Wpf.Toolkit

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## 11.16 log4net

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MessagePack for C#

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## 11.20 Mvp.Xml

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## 11.23 Nlog

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### Reactive Extensions(RxCore, Rx-Interfaces,Rx-Linq,Rx-Main,Rx-PlatformServices)

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## 11.25

System.Collections.Immutable  
System.Configuration.ConfigurationManager  
System.Reflection.Emit  
System.Reflection.Metadata  
System.Threading.Tasks.Extensions  
System.ValueTuple

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## 11.26 Unity

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## 11.27 GongSolutions.Wpf.DragDrop

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## 11.28 XamlAnimatedGif

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## 11.29 System.Data.SQLite

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## 11.31 Caliburn.Micro

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## 11.33 Webkit

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## 11.35 JavaScriptCore

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## 11.37 ICU

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/* *                                                                           */
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/* * Parts of this software have been adapted from the libpng package.      */
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/* * and/or the "little-cms" library by Marti Maria (depending on the       */
/* * inclusion of support for JNG and Full-Color-Management respectively.   */
/* *                                                                           */
/* * This library's function is primarily to read and display MNG            */
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/* * component! It does however offer creation and editing functionality    */
/* * at the chunk level.                                                     */
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/* *   and or editing)                                                       */
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## 11.40 PCRE

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Written by: Philip Hazel  
Email local part: Philip.Hazel  
Email domain: gmail.com

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## 11.44 Anthy

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./alt-cannadic/\*

./mkworddic/\*.t (except base.t, zipcode.t)

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I think GPLed dictionary is almost in same situation of GPLed fonts.

It would be considered 'mere aggregation' in GPL.

anyway <http://www.gnu.org/licenses/gpl-faq.html#MereAggregation> says

'This is a legal question, which ultimately judges will decide.'

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## 11.45 LuaFileSystem

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## 改訂履歴

### **Document Revision: 01 (03/2024)**

ドキュメントが作成されました。

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