

BLUE 3.5 Service Pack 1 Read Me

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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。

3 アクセス権限

3.1 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)

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

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

- 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。

-
- 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

- 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

- 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

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 ドライバーの更新

新バージョンのソフトウェア (STEP7 V19) を以下のドライバーでサポートしました。

- Siemens AG - TIA Portal Ethernet

新バージョンの L5K ファイル (Studio 5000 V36) は以下のドライバーで対応できるようになりました。

- Rockwell Automation, Inc. - EtherNet/IP

7.2 新しい機能

オブジェクト一覧

- ワークスペースの [オブジェクト一覧] ウィンドウに、その画面 / コンテンツに使用されているオブジェクトの数が、名前の後に括弧で表示されるようになりました。

サイバーセキュリティ強化

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。

- アラーム、操作ログ、ロギング、レシピで設定できる [暗号化] プロパティの初期値が無効から有効に変更されました。

8 修正済み制限事項

8.1 作画時の修正済み制限事項

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。 <ul style="list-style-type: none"> - 円弧 - アーチ - 連続曲線 - ドーナツ - 直線

	<ul style="list-style-type: none"> - 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ndingが使用されている場合、[種類]からデータバイnding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nding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nding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 STRING および WSTRING 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nding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	<p>(ドライバー) 富士電機株式会社の MICREX-SX 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。</p> <ul style="list-style-type: none"> - ST6000 シリーズ - STM6000 シリーズ - GP-4100 シリーズ - SP5000 シリーズパワーボックス - SP5000X シリーズ

HMIIMG-18356	(Web Viewer) 画面編集ソフトウェアで Basic ライセンスを使用している場合、 Web Viewer の設定ができない問題を改修しました。
HMIIMG-18573	(シンボルリンク) シンボルファイルのインポートが、初回時に正しくインポートできない問題を改修しました。
HMIIMG-18441	(シンボルリンク) シンボルファイルをインポートし直した場合、[ブロックトレンド]オブジェクトの[チャンネル]に割り付けた変数がエラーになる問題を改修しました。
HMIIMG-18396	(スクリプト)[トレンドグラフ]および[ブロックトレンド]オブジェクトの以下のソースプロパティをスクリプトで使用するとエラーになる問題を改修しました。 - PlateFill - GridFill - TimeLabelPen
HMIIMG-18260	(シンボルリンク) 画面編集ソフトウェアの[プロジェクトエクスプローラー]ウィンドウの幅を変更すると、[シンボルリンク]のインポート画面が表示されない問題を改修しました。
HMIIMG-18237	(画面編集ソフトウェア) ウィンドウを切り替えるショートカットキー [CTRL]+[TAB] が正しく動作しない問題を改修しました。
HMIIMG-17820	(プロジェクト変換) 古いバージョンのプロジェクトファイルを新しいバージョンの画面編集ソフトウェアで開いてから表示器に転送すると、空白画面が表示される問題を改修しました。
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問題を改修しました。
HMIIMG-17634	(シンボルリンク) 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、入れ子構造のタグを含むシンボルファイルが正しくインポートされない問題を改修しました。
HMIIMG-17373	(マルチステートランプ) [画像の表示]のチェックボックスを選択してい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問題を改修しました。
HMIIMG-17148	(プロジェクト変換) 古いバージョンのプロジェクトファイルを新しいバージョンの画面編集ソフトウェアで開くと、グラフィックオブジェクトの色 ID が変更される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。 -グローバルスクリプトで使用していること。 -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。
HMIIMG-19455	(転送) プロジェクトファイルを転送した後、表示器が起動しなくなる問題を改修しました。
HMIIMG-19510	(操作ログ) [操作ログ]プロパティウィンドウで[有効]のチェックを外し、かつ[保存先]を[USB ストレージ]または[SD カード]に設定した場合に、表示器が起動しない問題を改修しました。
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に表示されるエラーメッセージを改善しました。

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	(ライセンス) Schneider Electric License Manager でバージョン 3.0 のトライアルライセンスが有効な場合は、削除してください。
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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 Unicode 文字を含むパスを指定するとインストールが失敗します。Unicode 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) Windows 8.1 および Windows Server 2012 R2 は、画面編集ソフトウェアに対応していない OS 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[ご使用の前に] - [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、 Chinese_Simplified_GB2312_Gothic 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、 Chinese_Simplified_GB18030_Gothic 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 -レンピデータ表示器 -画像表示器

	<ul style="list-style-type: none"> -ウェブブラウザー -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。
-	<p>(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。</p> <p>未対応データタイプ</p> <ul style="list-style-type: none"> -ENUM -INTERFACE <p>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</p> <ul style="list-style-type: none"> -SUBRANGE -POINTER TO -REFERENCE <p>構造体データタイプに変換されるデータタイプ</p> <ul style="list-style-type: none"> -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</p>

	<p>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削除されます。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>
<p>HMIIMG-16476</p>	<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>
<p>HMIIMG-18396</p>	<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 3.4 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"> -QualityIcon(struct) <ul style="list-style-type: none"> - Border - GoodFill - BadFill - StayBadFill - BadForeColor -TimeScalePen -LoggingStopFill -CursorPen <p>文字列表示器</p> <ul style="list-style-type: none"> -Locals(struct) <ul style="list-style-type: none"> - Fill - Border - TextColor <p>レシピドロップダウン</p> <ul style="list-style-type: none"> -ViewBehavior(Struct) <ul style="list-style-type: none"> - SelectedColor

HMIIMG-17096	(変数) 変数をエクスポートする際、[設定先]に設定するフォルダー名の文字数が多いと、フォルダーパス内のフォルダー名が省略される場合があります。
HMIIMG-18132	(マスター画面) 以前のバージョンでは、マスター画面に配置できるオブジェクト数の計算にナビゲーションスイッチなどの自動作成される部品は含まれていませんでした。このバージョン以降では、自動作成される部品も含まれるため、上限に近いオブジェクトを配置している場合はエラーが表示される場合があります。
HMIIMG-19644	(シンボルリンク) 暗号化レベル 128 を含む XVM ファイルはインポートできません。インポートするには、ノード <encrypted Level="128" >の行を削除してください。
HMIIMG-19416	(プロジェクト変換) バージョン 3.4 以前で作成されたプロジェクトファイルを本バージョンの画面編集ソフトウェアで開くと、プロジェクトデータが破損し、一部のスクリプトが表示されない場合があります。その場合は該当するスクリプトを開き、改行を挿入するなどの編集を行うことで正常な表示に戻ります。
HMIIMG-19269	(シンボルリンク) フォルダー名を含めた変数名に他の変数名と同じ名前が含まれているシンボルファイルはインポートできません。名前が重複しないように変更してください。
HMIIMG-18446	(画面編集ソフトウェア) 画面編集ソフトウェアは、テンポラリフォルダ (*) に一時ファイルを作成します。これらのファイルは自動で削除されないため、手動で削除してください。 * C:¥Users¥<ユーザー名>¥AppData¥Local¥BLUE¥
HMIIMG-16288	(変数) 要素数が 2147483647 を超える配列変数は表示器では正しく表示できません。
HMIIMG-19920	(画面編集ソフトウェア) 異なるバージョンの画面編集ソフトウェアを同時に起動した状態でプロジェクトファイルを転送すると、誤ったランタイムバージョンが[ダウンロードマネージャー]ダイアログに表示される場合があります。転送時は、異なるバージョンの画面編集ソフトウェアを同時に起動しないでください。

9.4 表示器使用時の制限事項

HMIIMG-14539	(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。 - 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 - 非常に大きな値の 64 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
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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、表示器を再起動してください。
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。147 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"> - 単位 - スケール - 定義式 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った場合、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-16785	(コンテンツ表示器, スライドコンテンツ表示器) [角度]を設定したコンテンツ表示器またはスライドコンテンツ表示器で[ドロップダウンリスト]オブジェクトが配置されたコンテンツを表示すると、ドロップダウンリストの項目が表示されない場合があります。
HMIIMG-8313	(ファイルマネージャー) [ファイルマネージャー]オブジェクトで[列]の[タイトル]を上下に整列]および[本文を上下に整列]プロパティを設定しても正しく動作しません。
HMIIMG-10622	(アラーム) [アラームモード]が[ヒストリカル]の場合、発報したタイミングで確認を実行するスクリプトを作成すると、[アラーム表示器]オブジェクトに

	発報表示が残ります。確認を実行するオペレーションの前に、[遅延]オペレーションを挿入してください。
HMIIMG-19120	(ロギング) SRAM に保存されている各データの合計が最大値に近い場合、アラームおよびロギングが正しく動作しない場合があります。それぞれの[最大レコード]の数を減らしてください。
HMIIMG-18978	(ロギング) SD カードや USB ストレージにロギングデータを書き込んでいるときに表示器の電源が切れると、ロギングデータが破損し、ランタイムが起動できなくなる場合があります。 その場合は破損したファイルを削除してください。
HMIIMG-18894	(アラーム表示器) [アラーム表示器]オブジェクトで日付フォーマットの[パターン]を「m/d/yy」に設定するとフィルタリングが動作しません。[パターン]は「MM/DD/YY」に設定してください。

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)
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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。

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11.17 MessagePack

MessagePack for C#

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11.18 Microsoft.CodeAnalysis

Microsoft.CodeAnalysis.Analyzers

Microsoft.CodeAnalysis.Common

Microsoft.CodeAnalysis.CSharp

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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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,

and the section as a whole is intended to apply in other circumstances.

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
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```

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

11.33 Webkit

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11.34 V8

This license applies to all parts of V8 that are not externally maintained libraries. The externally maintained libraries used by V8 are:

- PCRE test suite, located in `test/mjsunit/third_party/regexp-pcre.js`. This is based on the test suite from PCRE-7.3, which is copyrighted by the University of Cambridge and Google, Inc. The copyright notice and license are embedded in `regexp-pcre.js`.
- Layout tests, located in `test/mjsunit/third_party`. These are based on layout tests from `webkit.org` which are copyrighted by Apple Computer, Inc. and released under a 3-clause BSD license.
- Strongtalk assembler, the basis of the files `assembler-arm-inl.h`, `assembler-arm.cc`, `assembler-arm.h`, `assembler-ia32-inl.h`, `assembler-ia32.cc`, `assembler-ia32.h`, `assembler-x64-inl.h`, `assembler-x64.cc`, `assembler-x64.h`, `assembler-mips-inl.h`, `assembler-mips.cc`, `assembler-mips.h`, `assembler.cc` and `assembler.h`. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.
- Valgrind client API header, located at `third_party/valgrind/valgrind.h`. This is release under the BSD license.

These libraries have their own licenses; we recommend you read them, as their terms may differ from the terms below.

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11.35 JavaScriptCore

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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/* * inclusion of support for JNG and Full-Color-Management respectively.
/* *
/* * This library's function is primarily to read and display MNG
/* * animations. It is not meant as a full-featured image-editing
/* * component! It does however offer creation and editing functionality
/* * at the chunk level.
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11.39 libjpeg

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11.41 zlib

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11.43 rxi/json.lua

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11.45 LuaFileSystem

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