EM759x

Driver Package for Windows Platforms
Release Notes

Document number	1114533
Rev	8
Date	2023/08/11

Revision History

Rev	Date YYYY/MM/DD	Updates	Author
8	2023/8/11	Added Release 7590.2001.000	
7	2023/4/26	Added Release 7590.1013.000	
6	2023/3/8	Added Release 7590.1011.000	
5	2022/12/30	Added Release 7590.1010.000	
4	2022/10/21	Added Release 7590.1008.000	
3	2022/09/23	Added Release 7590.1007.000	
2	2022/08/19	Added Release 7590.1006.000	
1	2022/06/20	Added Release 7590.1002.000	

Table of Contents

Introduction

Document purpose

This document describes EM759x driver package releases for Windows platforms.
Driver packages include the following components:
- Device Drivers: Kernel and User Mode drivers
- Services
- Utilities required for FW Download and FW Image Switching
- Tools for troubleshooting, debugging and logging

Each driver package release is identified by a unique 'build' number (e.g.,7590.1010.000).

Audience of this document

These release notes may be distributed to all direct and indirect customers.

Supported platforms

The following platforms are supported:
- Windows 10, 64-bit
- Windows 11, 64-bit

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Release 7590.2001.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.07.00
Date of generation (UTC)	2022/11/15
Binary Size	83.0 MB (SOP format)
IMEI SV	02
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Component	Revision
Firmware	01.01.09.00
Date of generation (UTC)	2023/4/11
Binary Size	83.0 MB (SOP format)
IMEI SV	
Chipset Vendor Stack Version	

Component	Revision
Firmware	01.01.10.00
Date of generation (UTC)	2023/4/23
Binary Size	83.0 MB (SOP format)
IMEI SV	
Chipset Vendor Stack Version	

Component	Revision
Firmware	02.02.01.07
Date of generation (UTC)	2023/7/29
Binary Size	83.0 MB (SOP format)
IMEI SV	
Chipset Vendor Stack Version	

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.07.00_GENERIC_001.003_000.mcf	PTCRB / GCF certified
PTCRB	SWIX12C_01.01.07.00_PTCRB_001.003_000.mcf	PTCRB / GCF certified.
ATT	SWIX12C_01.01.07.00_ATT_001.003_000.mcf	Carrier certified.
TMO	SWIX12C_01.01.07.00_TMO_001.003_000.mcf	Carrier certified.
Verizon	SWIX12C_01.01.07.00_VERIZON_001.008_000.mcf	Carrier certified.
Telstra	SWIX12C_01.01.09.00_TELSTRA_001.002_001.mcf	Carrier certified.
Orange	SWIX12C_01.01.10.00_ORANGE_001.001_000.mcf	Carrier certified.
Docomo	SWIX12C_01.01.10.00_DOCOMO_001.001_001.mcf	Branch #1 Docomo TA candidate.
Generic	SWIX12C_02.02.01.07_GENERIC_002.000_001.mcf	Test
PTCRB	SWIX12C_02.02.01.07_PTCRB_002.000_001.mcf	Test
ATT	SWIX12C_02.02.01.07_ATT_002.000_001.mcf	Test
TMO	SWIX12C_02.02.01.07_TMO_002.000_001.mcf	Test
Verizon	SWIX12C_02.02.01.07_VERIZON_002.001_001.mcf	Test
Telstra	SWIX12C_02.02.01.07_TELSTRA_002.000_001.mcf	Test
Docomo	SWIX12C_02.02.01.07_DOCOMO_002.000_001.mcf	Test
Orange	SWIX12C_02.02.01.07_ORANGE_002.000_001.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	v3.0.0.0	

Component	Revision	Comments
Win Logger	v3.0.0.0	
MBIMAT	v3.0.0.0	
SwiServiceLite	v3.0.0.1	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-902	Update RmNet driver	Fix DUT unable to connect to Internet if switched to RmNet.
KAIOH-30	Firmware auto update	To add installation configuration for limited firmware/PRI download to PC.
IMPACT-1027	Support EM7595 module	Enabling EM7595 module support in host tools.
IMPACT-1028	Setup GNSS antenna port	Add installation configuration for setup GNSS antenna port
IMPACT-1029	Win logger improvement	Include the ability to record USB trace.
IMPACT-1034	Firmware auto update	SWI SERVICE unable to update a Carrier_pri, whose Carrier version is NEWER but FW version is the SAME.
IMPACT-1035	Firmware auto update	SWI SERVICE unable to update a NEW type of Carrier_pri, if the type of Carrier_pri's service provider isn't included in DUT originally.
IMPACT-1040	Windows Package release 7590.2001.000	Upgrade the version of firmware and carrier PRI.

Known Issues

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-1055	Firmware auto update	Auto firmware update start too late.

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Release 7590.1013.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.07.00
Date of generation (UTC)	2022/11/15
Binary Size	83.0 MB (SOP format)
IMEI SV	02
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.07.00_GENERIC_001.002_002.mcf	PTCRB / GCF certified
ATT	SWIX12C_01.01.07.00_ATT_001.002_003.mcf	Carrier certified.
TMO	SWIX12C_01.01.07.00_TMO_001.002_001.mcf	Carrier certified.
Verizon	SWIX12C_01.01.07.00_VERIZON_001.004_000.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	v2.0.0.2	
Win Logger	v1.0.0.5	
MBIMAT	v2.0.0.1	
SwiServiceLite	v2.0.0.7	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-971	MBIMAT tool improvement	Enable MBIMAT tool to be executed independently without relying on configuration files.
IMPACT-972	Automatic PRI switching	The SWI service supports Telstra and Docomo carrier PRI updates.
IMPACT-973	Differentiate SKUs in INF	Add firmware ID to identify different SKUs in INF package.
IMPACT-933	WU with CHID	Submit WU with CHID for QA validation
IMPACT-944	Firmware auto update	Firmware cannot be updated when unexpected Windows event is received.
IMPACT-974	Port auto switch	If the module is set on the RmNet port, SWI service will switch to the MBIM port automatically.
IMPACT-975	Modem logger improvement	Fix the modem logger not being able to parsing some filter formats.

Known Issues

None

Release 7590.1011.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.07.00
Date of generation (UTC)	2022/11/15
Binary Size	83.0 MB (SOP format)
IMEI SV	02
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW
Juniper	7590.1011.003_INF_Package.zip (INF)

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.07.00_GENERIC_001.002_002.mcf	PTCRB / GCF certified
ATT	SWIX12C_01.01.07.00_ATT_001.002_003.mcf	Test
TMO	SWIX12C_01.01.07.00_TMO_001.002_001.mcf	Test
Verizon	SWIX12C_01.01.07.00_VERIZON_001.004_000.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	v2.0.0.1	
Win Logger	v1.0.0.5	
MBIMAT	v2.0.0.1	
SwiServiceLite	v2.0.0.5	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-713	Windows installer UI improvement	Replace the original low-resolution logo with a higher-resolution logo
IMPACT-1007	Enhanced user interface for Windows host tools.	1. [Installer] Display head image. 2. [Installer] Display version number in installer title. 3. [MBIMAT] Change the text color of the AT command response to avoid being too close to the background color. 4. [MBIMAT] Improve the button corners of the shortcut keys to rounded corners. 5. [Modem logger] The string displayed by the Modem logger when it is recording or stopping recording shall be changed to "RECORDING" and "STOPPED," respectively. 6. [MBIMAT][Modem logger][Win logger] Each tool creates its own dedicated folder to store log files..
IMPACT-1008	Automatic PRI switching	When the firmware version remains unchanged, it is still need to update carrier PRI to a newer version.

Known Issues

None

Release 7590.1010.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.07.00
Date of generation (UTC)	2022/11/15
Binary Size	83.0 MB (SOP format)
IMEI SV	02
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

None

Package Components

Component	Revision	Comments
Modem Logger	v2.0.0.0	
Win Logger	v1.0.0.4	
MBIMAT	v2.0.0.0	
SwiServiceLite	v2.0.0.4	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-613	INF & installer packages	

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ID	Title	Description
IMPACT-801	Firmware update notifications	Windows notifications now appear showing the status of firmware update operations.
IMPACT-802	Firmware auto-update mechanism	If a firmware/PRI mismatch is detected during a firmware update, SwiServiceLite (on the host platform) will automatically correct the firmware mismatch.
IMPACT-822	Driver package installation – Windows Security Warning	The driver package was incorrectly signed, which caused an "Unknown Publisher" warning to appear. The driver package is now correctly signed.
IMPACT-823	Driver package installation – Unsuccessful install after uninstalling	After installing and uninstalling a driver package using an .inf file, the driver package could not be successfully reinstalled. This has been corrected.
IMPACT-826	Driver package installation – Silent installation not working	Silent installation (i.e., no installation progress window appears) now works correctly.

Known Issues

None

Doc #:	41114533	Revision:	8

Release 7590.1008.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.07.00
Date of generation (UTC)	2022/11/15
Binary Size	83.0 MB (SOP format)
IMEI SV	02
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.07.00_GENERIC_001.002_001.mcf	PTCRB / GCF certified
ATT	SWIX12C_01.01.07.00_ATT_001.002_003.mcf	Test
TMO	SWIX12C_01.01.07.00_TMO_001.002_001.mcf	Test
Verizon	SWIX12C_01.01.07.00_VERIZON_001.004_000.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	v2.0.0.0	
Win Logger	v1.0.0.4	
MBIMAT	v2.0.0.0	
SwiServiceLite	v2.0.0.2	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-714	Automatic firmware switching	Automatic SIM-based firmware switching would not work in some cases when switching between GENERIC (with a North American carrier's SIM) and PTCRB (with a different SIM). Those scenarios now work correctly.

Known Issues

None

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Release 7590.1007.000

Software Release Description

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.06.00_GENERIC_001.002_000.mcf	Test
ATT	SWIX12C_01.01.06.00_ATT_001.002_001.mcf	Test
TMO	SWIX12C_01.01.06.00_TMO_001.001_000.mcf	Test
Verizon	SWIX12C_01.01.06.00_VERIZON_001.002_002.mcf	Test
PTCRB	SWIX12C_01.01.06.00_PTCRB_001.001_000.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	v2.0.0.0	
Win Logger	v1.0.0.4	
MBIMAT	v2.0.0.0	
SwiServiceLite	v2.0.0.1	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-596	Driver package installation	Silent installation now supported
IMPACT-613	INF & Installer packages	Packages now included

ID	Title	Description
IMPACT-591	Automatic firmware switching	Automatic SIM-based firmware switching would not work in some cases when switching from ATT to GENERIC. Those scenarios now work correctly.
IMPACT-499	USB not entering power state "D2"	In some cases, the USB device driver would not be able to enter power state D2 (Suspend). This now works correctly.

Known Issues

None

Doc #:	41114533	Revision:	8

Release 7590.1006.000

Software Release Description

Release identification

Component	Revision
Firmware	01.01.05.00
Date of generation (UTC)	2022/08/26
Binary Size	81.2 MB
IMEI SV	01
Chipset Vendor Stack Version	MPSS.AT.2.5.1.c9-00197-SDX12_GENNTCH_PACK-1

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	01.01.05.00

Released Carrier Packages

Carrier	Firmware / PRI Configuration	Comment
Generic	SWIX12C_01.01.05.00_GENERIC_001.001_000.mcf	PTCRB / GCF certified
ATT	SWIX12C_01.01.05.00_ATT_001.000_002.mcf	Test
TMO	SWIX12C_01.01.05.00_TMO_001.000_001.mcf	Test
VERIZON	SWIX12C_01.01.05.00_VERIZON_001.001_000.mcf	Test

Package Components

Component	Revision	Comments
Modem Logger	V1.0.0.10	
Win Logger	v1.0.0.3	
MBIMAT	V1.0.0.8	
SwiServiceLite	V1.0.0.8	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-477	Automatic firmware switching	Automatic SIM-based firmware switching would not work in some cases when switching from a PTCRB PRI to a GENERIC PRI. Those scenarios now work correctly.

Known Issues

None

Doc #:		41114533	Revision:		8

Release 7590.1002.000

Software Release Description

Supported Platforms

Platform	Details
Windows 10	HLK signature
Windows 11	HLK signature

Release Packages

Target Customer	EXE Package Name
Generic	Generic7590_NOFW

Released Carrier Packages

None

Package Components

Component	Revision	Comments
Modem Logger	V1.0.0.9	
Win Logger	v1.0.0.1	
MBIMAT	V1.0.0.7	

Software Changes Description

This release includes the notable changes and features listed below.

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-383	Firmware download	FDTW enhancement
IMPACT-367	MBIMAT	MBIMAT tool enhancement

Known Issues

ID	Title	Description
Device Drivers and Driver Installer		
IMPACT-367	MBIMAT	Cosmetic issue with "About" display
IMPACT-387	Firmware download	FDT new requirement