



ASTRO[®] 25 SUBSCRIBER DEVELOPMENT



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Motorola Solutions may modify the Application Developer Program, its rules, benefits, terms and requirements, or any parts thereof, at any time, at its sole discretion, at any time.





SECTION 1

INTRODUCTION

WHY WORK WITH MOTOROLA SOLUTIONS

Motorola Solutions Inc. is a global leader in safety, security, and situational awareness solutions for enterprises and government customers worldwide. Our technology platforms, in land mobile radio, communications, command center software, video security & analytics; coupled with unsurpassed managed & support services; help ensure our customers make the most of the moments that matter.

100+ COUNTRIES	100,000+ CUSTOMERS	13,000+ NETWORKS	\$8.2BN IN ANNUAL SALES	1,500 DIRECT SALES FORCE
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THE APPLICATION DEVELOPER PROGRAM

As the largest supplier of land mobile radios in the market, participants in the Motorola Solutions Application Developer Program receive unsurpassed opportunities to develop and market solutions for this expansive customer base.

14+ YEARS OF OPERATION	GLOBAL PROGRAM FOR B2B PROFESSIONALS	400+ ACTIVE DEVELOPERS	SHOWCASE SOLUTIONS IN OUR CATALOG
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Membership in Motorola Solutions' Application Developer Program provides access to the Software Development Kits (SDK), tools and resources necessary to create and test solutions; ensuring seamless implementation and increased market-reach. Our Application Developer Program empowers participants by fast-tracking application development and enabling them to leverage Motorola Solutions' brand strength and market leadership.





ASTRO® 25 TECHNOLOGY

Project 25 has a 20+ year history with the public safety community. It was established in October 1989 when APCO (Association of Public Safety Communications Officials), NASTD (National Association of State Telecommunications Directors), NCS (National Communications System), NTIA (National Telecommunications and Information Administration), and NSA (National Security Agency) agreed to the creation of the APCO-NASTD-FED Project 25. Since the beginning, the standard has been unique in that it has had the involvement of public safety agencies along side industry leaders.

Since the 1990's Motorola has invested in Project 25, developing the ASTRO® 25 portfolio of networks, devices, applications and services. With over 350+ ASTRO® 25 systems and over 2 million capable units deployed worldwide, we are committed to the standard and support thousands of public safety agencies as they meet their interoperability requirements.

More information about Project 25 can be found in this [website](#).

POSSIBILITIES FOR APPLICATION DEVELOPERS

ASTRO® 25 has been adopted by many industries such as utilities, airports, transit, petroleum and chemical companies that rely on mission critical communications and interoperability with governmental public safety agencies during an emergency. Motorola Solutions is dedicated to working closely with these customers, industry, government and standards partners to ensure that the P25 standard achieves its stated interoperability objectives.

With a combination of our current portfolio of ASTRO® 25 radios, infrastructure, and your software applications, we can provide a complete communications system jointly to our customer base. Typical solutions developed with our APIs for ASTRO® 25 subscribers include features such as asset tracking and radio control.

For more information about our ASTRO® 25 products, please refer to our [website](#).

INTRODUCTION

PROGRAM
BENEFITS

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& CRITERIA

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LICENSE



SECTION 2

PROGRAM BENEFITS

FIND OUT WHAT WE HAVE TO OFFER

Members receive exclusive benefits, services and incentives. Below are some of the advantages participants will earn as an Authorized Application Provider of Motorola Solutions:



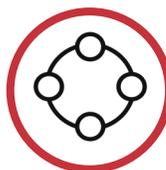
Application Developer Kit (ADK)

ADKs and documentation enable solution development for ASTRO®25 Subscribers.



Development Tools

Utilize our library of docs, sample code, demo apps and custom tools to help build solutions.



Modern Systems for Asset Distribution

Modern systems to access the assets and resources necessary for product development in the ASTRO®25 ecosystem.



Community & Motorola Solutions Support

Obtain quick support via peers in the developer community, or directly from trained Motorola Solutions ADP Engineers.



Developer Conferences & Webinars

Authorized Application Providers are invited to attend annual conferences and regular webinars providing updates on new APIs, recent product releases, updated tools and future product plans.





SECTION 3

PROGRAM REQUIREMENTS

WHO QUALIFIES TO APPLY

The Application Developer Program is a request and approval based process requiring participants to sign license agreement with Motorola Solutions. It is geared for knowledgeable B2B professionals who desire to build and integrate their products with those of Motorola Solutions for mutually beneficial outcomes.

The program is also available to Motorola Solutions customers who wish to develop solutions for their own internal use with their deployed Motorola Solutions products. To apply, candidates must meet the requirements below:

- Represent a registered legal business with appropriate proof of insurance
- Be the entity who will actually perform the solution/application development
- Possess expertise and knowledge in the technology platform desired
- Have experience in building the intended solution
- Be responsible for their own solutions. Motorola Solutions support for third party applications will be limited to Application Development Kit clarifications.
- Accept and follow the terms of the Motorola Solutions API license
- Pay any necessary license and/or program fees
- Protect all Motorola Solutions Intellectual Property provided under license





SECTION 4

API OVERVIEW

WANT TO LEARN MORE?

The APIs below provide an brief overview of the functionality and services available in Motorola Solutions ASTRO®25 subscriber APIs.

API Name	Description
Extended Control & Management Protocol (XCMP)	ASTRO@25 APX mobile subscribers support XCMP for device command and control. XCMP (Extended Control & Management Protocol) is a proprietary Motorola Solutions Intellectual Property API that allows third-party applications to control radios. Supported functions include channel change, volume change, etc.
Location Request & Response Protocol (LRRP)	During instances when there is no network available, location data for a GPS-enabled ASTRO@25 subscriber radio may be reported upon an immediate request, a pre-defined trigger, or an emergency call. Positioning information includes latitude, longitude, altitude, or speed.

The Serial Bus 9600 interface, more commonly known as SB9600 communications protocol, which allowed Motorola Solutions APX subscribers to interface with 3rd party applications, was retired in May, 2012. It was replaced by ASTRO®25 Extended Control & Management Protocol (XCMP).

XCMP for mobile radios was officially supported starting with the R09.00.00 release in 2012. XCMP enables a 3rd party application to have direct interaction and control of the radio's features and ergonomics when required, and has numerous, successful, customer deployments. It provides full replacement of SB9600 existing feature. If a customer project calls for integration of an APX Mobile to another system (e.g. a third-party remote control head for a transit solution), this can typically be accomplished via XCMP.

For more information on ASTRO®25 APIs, please contact ADPLicensing@motorolasolutions.com.





SECTION 5

APPLY FOR A LICENSE

Interested parties must follow the process below to apply to become an Authorized Application Provider of Motorola Solutions:

- 1 REQUEST A LICENSE**

Applicants must submit a license request form before developing solutions for the ASTRO^T@25 platform. End users and customers wanting to build solutions for their own internal use can also participate by filling out the [license request form](#).
- 2 INTERNAL LICENSE REQUEST REVIEW & APPROVAL**

The Application Developer Program team reviews incoming license requests with the regional sales, project and go-to-market teams to confirm the business case and the interfaces required by the candidate for the intended development.
- 3 LICENSE AGREEMENT EXECUTION & PAYMENT OF LICENSE FEES**

Upon approval, a legal API contract needs to be executed between the parties involved. The agreement will outline the terms and conditions under which Motorola Solutions intellectual property will be used. License will only be executed after all license fees have been paid.
- 4 ACCOUNT CREATION & ACCESS TO DEVELOPER PORTAL**

Interface documentation, development guides, and tools will be provided via Motorola Solutions Developer Portal. All Authorized Application Providers will be required to create a user account to access these resources.
- 5 OBTAIN API-RELATED SUPPORT**

API-related questions may be asked to peer developers or Motorola Solutions via our community and private issue trackers, respectively, via our Developer Portal. Questions asked to Motorola Solutions will typically be reviewed within 48 business hours with resolution time dependent upon issue complexity.





For more information, please visit developer.motorolasolutions.com



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