

# CATAPAN™ SYMMETRIC KEY TRANSFER (SKT) CAPABILITY

## Next-generation CryptKey management

L3Harris remains one step ahead with CATAPAN SKT. Eliminating the need for incumbent sensitive hardware through Over-The-Network Keying and enhanced key management, CATAPAN SKT eradicates operational risks while vastly improving mission agility.

### TODAY'S MISSION

Currently, managing sensitive data is challenging and incurs a lot of cost, time, resources and security. It also lacks agility in its infrastructure deployment.

Key fill needs to be completed every 12 months, at the deployed units — meaning that the keys need to be at the units or the units need to get back to the location where the keys are. Security implications need to be considered: loss, theft and damage en-route.

As a result, mission response times are impacted and lots of different processes and procedures need to take place in order to respond accordingly.

### FUTUREPROOF ENCRYPTION

For decades L3Harris has provided high-grade encryption to our customers and partners through our robust and reliable CATAPAN solutions and services. Built upon the same renowned principles as our original CATAPAN products, the next generation of CATAPAN solutions and services aims to revolutionise key delivery and management across the wider mission.

Comprising of two logical component types — a Symmetric Key Manager (SKM) and Key Agents (KAs) — CATAPAN SKT can manage networks at the cryptographic layer using inherent flexibility of key media.

The requirement for creation, storage, delivery and destruction of physical key media is eliminated, vastly reducing costs, delays and risks. These savings can be reinvested where it really matters, enabling improved mission effectiveness.



**RESPONSIVE, AGILE KEY FILL  
AT THE TOUCH OF A BUTTON**

Over-The-Network Keying (OTNK):

- > Eliminates physical key media
- > Increases operational agility
- > Improves mission effectiveness and outcomes

### EFFICIENT SECURE KEY MANAGEMENT

**Eliminating key fill media not only improves mission agility but also reduces risks and costs:**

- > Reduces administrative and logistical burden
- > Enables significant time and cost savings
- > Reduces risk of loss and/or compromise of sensitive key media



# A DIGITAL APPROACH

## FOR TODAY'S DIGITAL LANDSCAPE

The current method of generation and distribution of authentication keys involves specific limitations, costs, risks and delays. Manual creation, delivery, storage and management of said materials is a huge physical burden in today's digital world.

The time taken to produce, deliver and install physical key media makes it difficult and extremely costly to respond quickly to the threat. For every key produced and delivered there are a number of risks: risk of loss, risk of theft, risk to assets and even risk to human life if transporting keys through hazardous areas.

Multiply that risk and associated cost across the thousands of physical keys required on an annual basis and it is clear why things need to change.

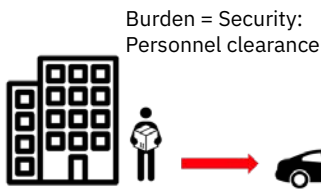
In a world where digital delivery is abundant in everyday life across many industries, we must strive to move with the times. CATAPAN SKT offers a robust digital solution that keeps pace with technology while improving operational agility and resilience.

Through the seamless digital delivery methods harnessed in our everyday lives, CATAPAN SKT allows key material to be managed securely and remotely while also offering Over-The-Network Keying.

With digital keys delivered seamlessly and automatically, CATAPAN SKT eliminates the requirement for physical key media and management along with associated risks and costs.

### Physical key delivery

Burden = Time/cost:  
Creation/manufacture



Burden = Time/cost:  
Transport



Burden = Time/cost:  
International travel



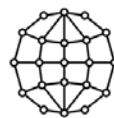
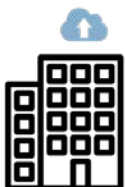
Burden = Time/risk:  
Travelling through  
high-risk areas



Burden = Time/risk:  
Assets at risk while waiting



### CATAPAN SKT delivery



Vastly improved mission agility  
Less risk to assets and people  
Physical burden removed



## REVOLUTIONISING KEY MANAGEMENT AND DELIVERY

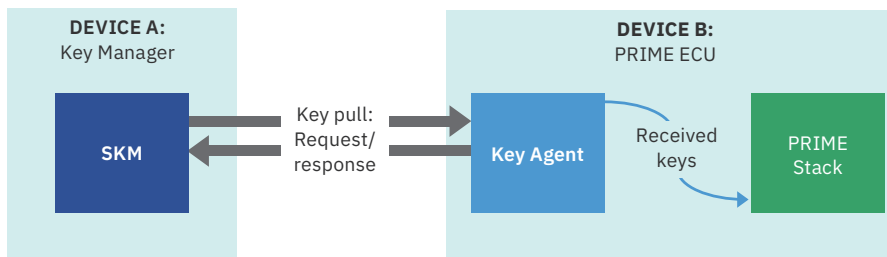
Manual key management and distribution is a huge physical burden and security risk in a world that excels in the digital space. CATAPAN SKT will eliminate physical key media and the associated risks and costs.

# EFFECTIVE KEY MANAGEMENT

## CONFIDENTIALITY AND INTEGRITY AT ITS CORE

At the heart of the L3Harris CATAPAN SKT is a Symmetric Key Manager (SKM) which generates and distributes the new PRIME authentication keys to any CAPS approved symmetric key agent (KA).

CATAPAN SKT enables the Network Manager to build their network with confidentiality, integrity, authentication (CIA) at the forefront of the design. The SKM seamlessly delivers, as defined in the design, the PRIME key to the defined KA device which then sets up the secure cryptographic tunnel. Subsequently issues of PRIME key media do not require a courier.



## NEXT-GENERATION SOLUTIONS WITH NEXT-GENERATION FEATURES

- > Ability to remotely create communities of interest
- > Re-role to suit the mission requirement without the need to visit remote devices
- > Ability to manage networks at the cryptographic layer using inherent flexibility of key media
- > Network deployment flexibility (change the topology with no dependence on KPA)
- > Securely distribute multiple keys across multiple CATAPAN devices to support an increasing deployment

## SWIFT KEY OVERVIEW

The Key Manager implements secure local key generation in addition to supporting keys. It services 'mission' key pull requests from KA devices, then securely distributes allocated mission keys to enrolled KA devices. The KA requests mission key material from one or more SKM devices. It processes and stores received keys for onward use.





## PARTNER OF CHOICE

We design, develop and deliver advanced electronic systems for the protection of people, infrastructure and assets when and where it matters.

We create scalable solutions by investing in innovation and delivering excellence. Working in partnership with civil and defence organisations, we defend against evolving and emerging threats worldwide.

As part of the leading U.S. defence supplier, L3Harris, we are resourced to anticipate and support our customers' evolving needs, staying one step ahead of the threat in a changing environment.

Our flexibility comes largely from the fact that we have retained the ethos of a smaller company, where relationship building is paramount.

The long-term customer, industry and in-country partnerships we develop pay huge dividends in terms of trust, responsiveness and our understanding of key issues.

These strong partnerships are a testament to the quality of our people applying their in-depth market knowledge and technical experience in order to understand our customers' requirements.

## 20+ YEARS OF HIGH-GRADE INFORMATION ASSURANCE AND RESILIENCE

We distinguish ourselves in the cyber security marketplace with:

- > Over two decades of experience in high-grade encryption
- > Long-standing relationships with UK Government and commercial agencies
- > Award-winning products
- > Robust hardware solutions
- > Full support of deployed devices
- > SWaP and performance



## CATAPAN SKT

NEXT-GENERATION  
CRYPTKEY MANAGEMENT

### CATAPAN Symmetric Key Transfer (SKT) Capability

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