HID Trusted Tag[®] Services

Cloud-based authentication services and NFC trusted tags for Internet of Things applications

HID Trusted Tag® Services combine HID Global's patented NFC trusted tags with its cloud-based authentication platform to add unique and trusted identities to everyday objects. The innovative and easy-to-use solution facilitates secure, efficient transactions simply by tapping an attached or embedded tag with a smartphone (or other NFC device).

Providing a frictionless authentication experience is not possible with today's standard NFC labels, static tags or QR codes, HID Trusted Tag Services are an ideal choice for "proof of presence", time-and-attendance, brand protection and other Internet of Things applications using NFC-enabled smartphones today and Bluetooth smart devices in the future.

How HID Trusted Tag Services Work:

- 1. At production time, HID Trusted Tags are programmed with a customerdefined URL that points to your website. Your website hosts the user experience for users who will tap tags with their phones.
- 2. Every time a user taps their NFC mobile phone to a trusted tag, the tag generates a unique cryptographic code. The code is automatically appended as a parameter to the URL that is stored on the tag.
- 3. This unique URL is then sent to the user's mobile phone, which will open the corresponding website (a process identical to any URL received from an NFC tag).

- 4. Your website removes the cryptographic parameter from the URL and passes it on to the HID Global cloud authentication service through a single web-service call.
- 5. The HID Trusted Tag Services authentication cloud verifies whether the code is authentic (i.e.: a true physical tap of a trusted tag) or caused by a shared/copied URL.
- 6. Based on this information, your website can block the request, offer an alternative to theuser, or simply log whether the website was accessed via a physical tap or a shared URL for later analysis.
- 7. The standards-based cryptographic code changes for every tap, enabling each tap to be authenticated. This is a unique functionality only HID Trusted Tags can provide.

HID Trusted Tag devices are available in a variety of form factors: From simple (tamper evident) wet inlay, over ISO card badges to rugged Poly Tag or Asset Tag for outdoor / on-metal use or as eTamper coin that self-destructs upon removal for reliable "proof of presence" applications.



KEY BENEFITS:

- Secure Encrypted data changes on every tap, blocking attempts to share, clone or manipulate tags or URLs.
- Frictionless operation Simply tap to interact, no app to create or download.
- Streamlined deployment No proprietary software or special readers for tag authentication required.
- Enhanced analytics Provides real-time access to precise data and reliable audit trails.
- Flexible Supports NFC-enabled devices and is designed for future support of Bluetooth®-enabled devices.



TECHNOLOGY HIGHLIGHTS

- Fully NFC Forum Type 2, 4 or 5 compliant
- Trusted tag cannot be cloned
- Generates cryptographic one-time code upon tap
- No APP needed on NFC readers / phones

- Quick integration into any website
- Choice of service models for verification
- Tamper evident options support "Proof of Presence" or "product opened detection"
- · Lightweight or rugged form factors available

	HID Trusted Tags*							
	Epoxy Keyfob	ISO Card	Wet Inlay	Tamper Label	eTamper Coin	TapMark	Poly Tag	InLine Plate Asset Ta
	٢	NO funded for forward	•	le de	\bigcirc		0001312	
Base Model Number	6D6140-101	6D6401-101 (PVC) 6D6421-101 (Composite)	Custom per order	616503-101	7H5941-101 7H5941-102 (Laser marked)	6H5101-101 (black) 6H5101-101 (white)	6H0131-010	7H5901-101 (white) 7H5900-100 (transpare
	SPECIFICATIONS							
Operating Frequency	13.56 MHz							
Chip Type	HID Trusted Tag							
Memory	Up to 8 KB			144 byte up to 8 KB				
Anti-Collision	N/A							
Reading Distance	Proximity (NFC Tap) PHYSICAL							
Dimensions	1.2 × 1.8 × 0.06 in (30 × 45 × 1.6 mm)	3.4×2.1×0.03 in (85.6×54×0.76 mm)	Ø 0.8 in (Ø 22 mm) or custom	Ø 0.9 in (Ø 23 mm)	1.5 × 1.5 × 0.3 in (39 × 39 × 8.5 mm)	Ø 1.2 in (Ø 32.5 mm)	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	1.2 × 2.5 × 0.12 in (30 × 65 × 3.5 mm)
Fixation Hole Size	Ø 0.2 in (Ø 5 mm)						Ø 0.20 in (5.4 mm)	0.47 in (12 mm)
Housing Material	Ероху	PVC or Composite	PET	Paper	Polycarbonate (PC)	1	PA6 - high impact	PC/PC Makrolon 2407
Color	Black	White	Transparent	White		Black or White	Black	White or Transparent
	CHEMICAL AND MED	CHANICAL RESISTANC	E			1		
Water	IP68, 6.6 ft. (2 m) x 24 h		IP67, 3.3 ft. (1m) × 35 min		IP 65		IP69K, IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h	IP68, 6.6 ft. (2 m) x 24
Withstands Exposure To	Alcohol, ammonium chloride (25%), fuel B, hydrochloric acid (10%), salt water	Acetic acid, artificial perspiration, carbonated water, ethylene glycol, fuel B, humidity (95% at 50° C × 24h), salt mist, salt water, sugared water	Humidity (95% at 50° C × 24h)			Indoor / office applications	Mineral oil, petroleum, salt water, vegetable oil; 90% humidity at 194° F (90° C)	Alcohol, aqueous solution of salts, fuel B ammonium chloride (2 hydrochloric acid (10% salt water
Environmental Test Conditions	68° F (20° C), 100 h					266° F (130° C), 100 h	68° F (20° C), 100 h	
Mechanical Resistance	Drop test, 100× 6 ft. (1.8 m)	Dynamic bending and torsion, 4× 250					Drop test, 100 x 6 ft (1.8 m)	
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]							
Shock	IEC 68.2.29 [40 g, 18 ms,	6 avia 2000 times]						
SHOCK		o axis, 2000 timesj						
	THERMAL	1	1		1		1	1
Storage	-40° to +194° F (-40° to +90° C), 1000 h	-31° to +122° F (-35° to +50° C), 1000 h	Room temperature for inlays on rolls. Operating temperature for single tags.	-4° to +158° F (-20° to +70° C)	-40° to +194° F (-40° to +90° C), 1000 h	-40° to +194° F (-40° to +90° C), 1000 h	-40° to +194° F (-40° to +90° C), 1000 h	-40° to +185° F (-40° to +85° C), 1 x 1000 h
Operating	-40° to +185° F (-40° to +85° C) -40° to +212° F	-31° to +122° F (-35° to +50° C)	-4° to +158° F (-20° to +70° C) -4° to +158° F		-13° to +158° F (-25° to +70° C)	-13° to +158° F (-25° to +70° C)	-13° to +185° F (-25° to +85° C) -22° to +194° F	-40 °to +185° F (-40° to +85° C) -40° to +185° F
Shock/Fatigue	(-40° to +100° C), 100× 5 min with 30 sec transition	-31° to +176° F (-35° to +80° C), 1000 h	(-20° to +70° C), 100× 5 min with 30 sec transition				(-30° to +90° C), 50 x 10 min with 30 sec transition	(-40° to +85° C), 100 x 5 min with 30 set transition
Peak	284° F (140° C),	176° F (80° C),	158° F (70° C),				266° F (130° C), 100 h	
	1 × 24 h	1 × 24 h	1 × 24 h				,,	
	OTHER	ISO 10373; ISO 7816-1;			1			
	100 144404 NEO T	ISO 10373; ISO 7816-1; ISO 14443A - NFC Tag	ISO 14443A - NFC Tag	ISO 14443A - NFC Tag Type 2 ISO 14443A - NFC Tag Type 4				
Standards	ISO 14443A - NFC Tag Type 4	Type 4	Type 4 or ISO 15693			Printed Logo, Color		
Standards		Туре 4	1ype 4 of 150 15693	Printed Logo, Color			Alternative chips; custom embossed logo; laser engraved serial number	Surface printing; laser engraving.
	Type 4 Surface printing; laser eng	Type 4	programmed by HID. On re		ip option with SUN algo	rithm.	custom embossed logo; laser engraved serial	
Options	Type 4 Surface printing; laser eng	Type 4			ip option with SUN algo 300 pcs	rithm. 2.800 pcs.	custom embossed logo; laser engraved serial	



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Service Options:

HID Cloud Authentication Service Delivery Models:	Service Part Number (pay per use)			
Subscription – Monthly invoice per authenticated tag	TTS-SRVS-0002			
Transactional – Monthly invoice per authentication	TTS-SRVS-0001			

Multiple authentication accounts can be held concurrently by one client to allow project based accounting. Service fees are charged monthly only for actually used tags or authentications.

