



# Reg Model: STR00C (MakaraBP, SATA, 6TB) Regulatory Assurance Certification

July 1, 2019 CONFIDENTIAL Rev E

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**Author: Regulatory Assurance** 

## CERTIFICATE OF COMPLIANCE

Certificate Number 20151007-E106814

Report Reference E106814-A38-UL

Issue Date 2015-OCTOBER-07

Issued to: SEAGATE TECHNOLOGY L L C

389 DISC DR

LONGMONT CO 80503-9364

This is to certify that representative samples of

COMPONENT - INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS

**EQUIPMENT** 

Hard Disk Drive - STR00B, STR00C

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07 -

Information Technology Equipment - Safety - Part 1:

General Requirements

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



my information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please





Ref. Certif. No.

US-26087-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS **ELECTRIQUES (IECEE) METHODE OC** 

#### CB TEST CERTIFICATE

Product

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Note: When more than one factory, please report on page 2 Note: Lorsque II y plus d'une usine, veuillez utiliser la 2<sup>600</sup> page

Ratings and principal characteristics Valeurs nominales et caractéristiques principales

Trademark (if any) Marque de fabrique (si elle existe)

Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais

Model / Type Ref. Ref. De type

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire... peuvent être indiqués sur la 2<sup>ème</sup> page

A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la

As shown in the Test Report Ref. No. which forms part of this Certificate

Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

#### CERTIFICAT D'ESSAI OC

Hard Disk Drive

SEAGATE TECHNOLOGY L L C 389 DISC DR LONGMONT CO 80503-9364, USA

SEAGATE TECHNOLOGY L L C 389 DISC DR LONGMONT CO 80503-9364, USA

SEAGATE TECHNOLOGY INTERNATIONAL (WUXI) CO LTD 108 XING CHUANG ER LU WUXI-SINGAPORE INDUSTRIAL PARK WUXI JIANGSU 214028

CHINA

Additional Information on page 2

STR00B: 5Vdc, 0.85A; 12Vdc, 0.99A STR00C: 5Vdc, 0.75A; 12Vdc, 0.99A (ratings are optional)

Seagate



CTF Stage 2

STROOB, STROOC

Additionally evaluated to EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013; National Differences specified in the CB Test Report.

Additional Information on page 2

IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1, IEC 60950-1(ed.2);am2

E106814-A38-CB-1 issued on 2015-09-28

This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang SA DK-2750 Ballerup, DENMARK UL (JP), Marunouchi Trust Tower Main Building 6F, 1-9-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Jolanda / by Will

Date: 2015-09-28

Signature:

Jolanta M. Wroblewska



#### US-26087-UL

#### Factories:

SEAGATE TECHNOLOGY LLC C/O AUDIO VIDEO COLOR CORP 17707 S SANTA FE AVE EAST RANCHO DOMINGUEZ CA 90221-5419 UNITED STATES

SEAGATE TECHNOLOGY (SUZHOU) CO LTD 1 WUXIANG RD, EXPORT PROCESSING ZONE A 200 SU HONG ZHONG RD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215021 CHINA

GREYSTONE DATA SYSTEM VIETNAM 62 LINH TRUNG EX PROCESSING ZONE II HO CHI MINH CITY VIET NAM

SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD C/O SAE MAGNETICS (HK) LTD WINNERWAY INDUSTRIAL AREA NANCHENG DONGGUAN GUANGDONG CHINA

SEAGATE TECHNOLOGY (THAILAND) LTD 90 MOO 15 A SUNGNEON, T SUNGNEON NAKHON RATCHASIMA 30170 THAILAND

TELEPLAN TECHNOLOGY SERVICES SDN BHD
2580 TINGKAT PERUSAHAAN 4B ZON PERDAGANGAN BEBAS DUA 13600 PULAU PERAI
MALAYSIA

SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD C/O CAL-COMP INDUSTRIA E COMERCIO DE ELETRONICOS E INFORMATICA LTDA AV TORQUATO TAPAJOS, 7503 TARUMA GALPAO 2 MOD 7, 19, 20, 21 69041-025 BRAZIL

SEAGATE TECHNOLOGY L L C 389 DISC DR LONGMONT CO 80503-9364 UNITED STATES

IQOR GLOBAL SERVICES CZECH REPUBLIC, S.R.O. GENERALA FAJTLA 372 74251 MOSNOV CZECH REPUBLIC

IQOR GLOBAL SERVICES NETHERLANDS B V KOOLHOVENLAAN 1 1119 NB SCHIPHOL-RIJK NETHERLANDS

SEAGATE TECHNOLOGY LLC C/O AUDIO VIDEO COLOR CORP 2155 AIRWEST BLVD PLAINFIELD IN 46168-7716 UNITED STATES

#### Additional information (if necessary) Information complémentaire (si nécessaire)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA UL (Demko), Borupvang SA DK-2750 Ballerup, DENMARK

UL (JP), Manunouchi Trust Tower Main Building 6F, 1-9-3 Manunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN UL (CA), 7 Underwriters Road, Toronto, M1R 384 Ontario, CANADA

For full legal entity names see www.ul.com/nobnames

Date: 2015-09-28

Signature:

Jolanta M. Wroblewska

blacks for love



## CERTIFICATE

No. B 16 12 91950 028

Holder of Certificate: Seagate Technology LLC

389 Disc Drive Longmont CO 80503

USA

Production Facility(ies): 78428, 66326, 61810, 91950, 83436, 39917, 64076

Certification Mark:



Disk drives

STR00B Model(s): STR00C

Parameters:

Product:

Rated Input Voltage:

+5Vdc /+12Vdc

Rated Frequency: Rated Input Current:

0.85A/0.99A (STR00B) 0.75A/0.99A (STR00C)

Protection Class: Degree of Protection:

IPX0

Tested according to: EN 60950-1:2006/A2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.:

092-72110016-100

Valid until:

2019-06-20

Date, 2016-12-28

Page 1 of 2





UCB\_F\_12.02 2012-02



#### Attachment 1

#### Bauart Certificate: B.16.12.91950.028

Firma / firm: Seagate Technology LLC, 389 Disc Drive, Longmont, CO 80503-9364 USA

File No.

: 092-72110016-100

Standard(s)

: EN 60950-1:2006/A2:2013

Type of Component/Equipment

: Disc Drive (Information Technology Equipment)

Regulatory Model STR00B, STR00C:

SAS SAS SAS SAS SAS SAS SAS SAS	5xxE or 4Kn 512E/4Kn 512n/4Kn 512n/4Kn 512n 512n 512n 512n/4Kn 512n/4Kn 512n/4Kn	5/10 5/10 4/7 4/7 4/7 4/7 2/4 2/4	128 128 128 128 128 128 128 128 128	STROOB STROOB STROOB STROOB STROOB STROOB STROOB STROOB	No Yes No Yes No Yes No Yes	MAK26 MAK26 MAK26 MAK26 MAK26 MAK26 MAK26 MAK26
SAS SAS SAS SAS SAS SAS SAS	512n/4Kn 512n/4Kn 512n 512n 512n 512n/4Kn	4/7 4/7 4/7 4/7 2/4 2/4	128 128 128 128 128	STR00B STR00B STR00B STR00B STR00B	No Yes No Yes No	MAK26 MAK26 MAK26 MAK26 MAK26
SAS SAS SAS SAS SAS SAS	512n/4Kn 512n 512n 512n/4Kn 512n/4Kn	4/7 4/7 4/7 2/4 2/4	128 128 128 128	STR00B STR00B STR00B STR00B	Yes No Yes No	MAK26 MAK26 MAK26 MAK26
SAS SAS SAS SAS	512n 512n 512n/4Kn 512n/4Kn	4/7 4/7 2/4 2/4	128 128 128	STR00B STR00B STR00B	No Yes No	MAK26 MAK26 MAK26
SAS SAS SAS SAS	512n 512n/4Kn 512n/4Kn	4/7 2/4 2/4	128 128	STR00B STR00B	Yes No	MAK26 MAK26
SAS SAS SAS	512n/4Kn 512n/4Kn	2/4 2/4	128	STR00B	No	MAK26
SAS SAS	512n/4Kn	2/4			-	
SAS SAS			128	STR00B	Ves	MAKAR
	512n	0/0			100	WANZO
CAC		2/2	128	STR00B	No	MAK26
SAS	512n	2/2	128	STR00B	Yes	MAK26
SATA	5xxE or 4Kn	5/10	128	STR00C	No	MAK16
SATA	512E/4Kn	5/10	128	STR00C	Yes	MAK16
SATA	512n/4Kn	4/7	128	STR00C	No	MAK16
SATA	512n/4Kn	4/7	128	STR00C	Yes	MAK16
SATA	512n	4/7	128	STR00C	No	MAK16
SATA	512n 4/7 128 STR00C		Yes	MAK16		
SATA	512n/4Kn	2/4	128	STR00C	No	MAK16
SATA	512n/4Kn	2/4	128	STR00C	Yes	MAK16
SATA	512n	2/2	128	STR00C	No	MAK16
SATA	512n	2/2	128	STR00C	Yes	MAK16
	SATA SATA SATA SATA SATA SATA SATA SATA	SATA 512E/4Kn SATA 512n/4Kn SATA 512n/4Kn SATA 512n SATA 512n SATA 512n SATA 512n/4Kn SATA 512n/4Kn SATA 512n/4Kn SATA 512n	SATA         512E/4Kn         5/10           SATA         512n/4Kn         4/7           SATA         512n/4Kn         4/7           SATA         512n         4/7           SATA         512n         4/7           SATA         512n         4/7           SATA         512n         4/7           SATA         512n/4Kn         2/4           SATA         512n/4Kn         2/4           SATA         512n         2/2           SATA         512n         2/2	SATA         512E/4Kn         5/10         128           SATA         512n/4Kn         4/7         128           SATA         512n/4Kn         4/7         128           SATA         512n         4/7         128           SATA         512n         4/7         128           SATA         512n         4/7         128           SATA         512n/4Kn         2/4         128           SATA         512n/4Kn         2/4         128           SATA         512n         2/2         128           SATA         512n         2/2         128           SATA         512n         2/2         128	SATA         512E/4Kn         5/10         128         STR00C           SATA         512n/4Kn         4/7         128         STR00C           SATA         512n/4Kn         4/7         128         STR00C           SATA         512n         4/7         128         STR00C           SATA         512n         4/7         128         STR00C           SATA         512n/4Kn         2/4         128         STR00C           SATA         512n/4Kn         2/4         128         STR00C           SATA         512n         2/2         128         STR00C           SATA         512n         2/2         128         STR00C           SATA         512n         2/2         128         STR00C	SATA         512E/4Kn         5/10         128         STR00C         Yes           SATA         512n/4Kn         4/7         128         STR00C         No           SATA         512n/4Kn         4/7         128         STR00C         Yes           SATA         512n         4/7         128         STR00C         No           SATA         512n         4/7         128         STR00C         Yes           SATA         512n         4/7         128         STR00C         Yes           SATA         512n/4Kn         2/4         128         STR00C         Yes           SATA         512n         2/2         128         STR00C         No

#### Conditions of Acceptability:

- 1. Disc drives are to be supplied by a reliably SELV power supply,
- Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.

Wellen P. Weller
Technical Certifier

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TÜV SÜD AMERICA INC • 10 Centennial Drive • Peabody, MA 01960 USA • www.TUVamerica.com





### **EU Declaration of Conformity**

#### Product Safety and EMC Compliance

The product(s) meets the requirements of The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012 Electromagnetic compatibility of multimedia equipment - Emission requirements, Class B
EN 55024:2010 Information Technology Equipment - Immunity characteristics - Limits and methods of

measurement

EN 61000-3-2:2014 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013 Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Low-Voltage
Supply Systems for Equipment with Rated Current ≤16 Amps per Phase

The product(s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following

EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013 Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements

EN 62368-1:2014 Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified).

#### Product Environmental Compliance, EU/China RoHS Declaration of Conformity

#### Conformity with Harmonized Standards/Technical Specifications:

- Directive 2011/65/EU RoHS "Recast" (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740
- EN 50581:2012 Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
- Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
- 4. Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for Electronic Products, JS709B

Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c	Copper alloy up to 0.4% lead by weight
7a	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(e)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

DocuSign Envelope ID: 8BEB4AF3-A3F5-407D-A978-139A7270846F

Year to Begin Affixing Mark: 2015

Manufacturer's Name: Seagate Technology, LLC
Manufacturer's Address: 10200 South De Anza Blvd.

(And Importer) Cupertino, California 95014-3029 U.S.A.

European Contact: Director of Operation

Director of Operations Seagate Singapore Int'l HQ Pte. Ltd

Koolhovenlaan 1 1119 NB Schiphol - Rijk The Netherlands

Type of Equipment: Hard Disc Drive Internal Product Name: MakaraBP, SATA

Regulatory Model Number: STR00C (EXOS 7e8)

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology LLC.

July 1, 2019 | 11:36:21 PDT

Signature: Matthew & Brown
191027331AEB405...

Matthew C Brown Vice President Operations Quality



## Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd

Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited Level 7, 91 Phillip St PARRAMATTA NSW 2150 AUSTRALIA

Declare under our sole responsibility that the following product(s):

Hard Disk Data Storage Drive						
Model: STR00	OC (MakaraBP, SATA,	6TB)				
to which this dec	laration relates is in con	formity with the following standard(s):				
Title		Test Regulation				
Australian/New	Zealand Standard	AS/NZS CISPR 22: 2009 +A1: 2010				
(Name of the Au	thorized Person)	Sam Zavaglia				
(Title of the Auth	orized Person) Se	nior Field Applications Engineer				
(Date of Issue) 6 <sup>th</sup> November 2015						
(Signature)	A.					

## 符合性聲明書 Declaration of Conformity

報驗義務人代碼	編	號	
Code of the applicant	Numb	er	
D33027	STX2015110901		

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具 Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人	: 台灣希捷科	技股份有限	公司			
Obligatory Applica 地址: 台北	nt 市復興北路3	63 號 14 樓	B容			
Address	autoria con managemento del	300 300 1119	工			
電話: <u>02-2</u> Telephone	514-22/3					
	)文名稱: 硾	式磁碟機				
商品型式( Commodity Type	或型號): <u>ST</u> (Model)	R00C (Mak	ara BP SA	TA)		<u> </u>
符合之檢驗 Standard(s) and ve	標準及版次: ersion	CNS 13438	(Complet	e 2006 ver	rsion)	, Class B
試驗報告編 Test Report Numb	號: <u>BE-TRB</u> er	50915				
試驗室名稱	及代號: EMC	Integrity In	corporate	d.		
Testing laboratory	name and designation	n number -IN-E-1134F	,			
	SLZ	-IIV-E-1134F	\			
兹聲明上述	商品符合商品	檢驗法符合	性聲明之表	見定, 若因	違反之	<b>太</b> 聲明書所
	, 願意擔負相		Medical Sept. Committee Committee	370 73 74		- 74 877
I hereby declare th	nat the listed commo	lity conforms to De	claration of Con	formity requireme	ents stip	ulated in the
	ction Act. I agree to ta					
Conformity occur.				•		
,		SEAGATE! TECHNOLOGY	歐馬利			
報驗義務人		TAIWAN LTD.	Patrick J. O'Malier III		(	簽章)
	-		O finance			
Obligatory Applica	TIL.				(	(Signature)
中華民	國 104	年	11	月	9	日
DATE		(year)		( month )		(day)

## 방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재 명칭 Equipment Name	Hard Disk Drive
기본모델명 Basic Model Number	STR00C
파생모델명 Series Model Number	Makara BP, ST1000NM0055, ST1000NM0095, ST1000NM0065, ST2000NE0015, ST2000NM0055, ST2000NM0105, ST2000NM0125, ST3000NM0005, ST3000NM0055, ST4000DM003, ST4000NE0025, ST4000NM0045, ST4000NM0105, ST4000NM0145, ST2000NE0025, ST2000NM0065, ST2000NM0145, ST3000NM0015, ST4000DM006, ST4000NE0015, ST4000NM0035, ST4000NM0015, ST4000NM0115, ST4000NM0165, ST4000NM0205, ST4000NM0225, ST4000NM0215, ST6000NM0275, ST6000DM0013, ST6000NE0013, ST6000NM0215, ST6000NM0245, ST6000DM003, ST6000N0033, ST6000NM0185, ST4000NM0265, ST6000DM003, ST6000NE0003, ST6000NE0023, ST6000NM0265, ST6000NM0315, ST6000NN00113, ST6000VX0003, ST6000VX0013, ST6000VX0003, ST6000VX0013, ST6000VX0003, ST6000VX0013, ST6000VX0023, SATA, ST6000NM0115, 6TB
등록번호 Registration No.	MSIP-REM-STX-STR00C
제조자/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 Date of Registration	2015-10-22
기타 Others	

위 기자재는 「전파법」제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2016년(Year) 11월(Month) 11일(Date)

국립전파연구원장

Director General of National Radio Research Agency

※ 직합등록 방송통신기자재는 반드시 "적합성평가표시"를 부착하여 유통하여야 합니다. 위반서 과태료 처분 및 등록이 취소된 수 있습니다.

3	· 	201617100000226448	접수일	사	2016-11-11
	상호 또는 성명	SEAGATE TECHNOLOGY LLC	적합성평가 분야 기본모델명 적합성평가 연 월 일		적합등록
대상ファ	기자재 명칭	Hard Disk Drive			STR00C
7	적합성평가 번호	MSIP-REM-STX-STR00C			2016-11-11
변경 사항 모델명		변경전 ST6000NM0115,Makara BP,6TB,SATA		변경 후	
				ST6000NM0115,ST1000NM0055,ST11000NM0095,Makara BP,6TB,SATA,ST1000NM0065,ST2000NE0015,ST2000NM0125,ST3000NM01055,ST4000NM00055,ST4000NM00055,ST4000NM0003,ST4000NM0105,ST4000NM0145,ST4000NM0165,ST4000NM0145,ST2000NM0145,ST3000NM0015,ST4000NM015,ST4000NM015,ST4000NM015,ST4000NM015,ST4000NM015,ST4000NM0165,ST4000NM0165,ST4000NM0165,ST4000NM0165,ST4000NM0185,ST4000NM0265,ST6000NM0265,ST6000NM0265,ST6000NM0265,ST6000NM0265,ST6000NM0265,ST6000NM0275,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0185,ST6000NM0265,ST6000NM0315,ST6000NM0265,ST6000NM0315,ST6000NM0315,ST6000NM0313,ST6000VX0003,ST6000VX0013,ST6000VX0003,ST6000VX0013,ST6000VX00023	

「방송통신기자재등의 적합성평가에 관한 고시」제16조에 따른 적합성평가 사항의 변경신고 건에 대하여 위와 같이 변경처리 되었음을 알려드립니다.

2016년(Year) 11월(Month) 11일(Date)

국립전파연구원장

