Continuous Growth with Sustainable Superior Profits

Anritsu Corporation November, 2020





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Agenda

I. Mid term Business Plan GLP2020 and Business Strategy

- 1. Basic Policy of Management Strategy
- 2. Outline of our business segments
- 3. Basic Policy of medium and long term business strategy
- 4. Set out for Beyond2020

I. T&M business segment

- 1. T&M : Profit structure improvement targets
- 2. T&M : Mobile market trends and Business opportunity
- 3. Industrial Test Solutions
- 4. Network Reshaping Test Solutions

III. PQA Business segment

- **IV-1.** Financial Strategy
- **IV-2. Shareholder Return Policy**
- **IV-3.** Corporate Philosophy and Sustainability Policy
- **IV-4.** Corporate Governance System
- **IV-5.** Introduction to the Advanced Technology Development Lab
- V. Financial Results for the 2nd quarter of the Fiscal Year ending March 31, 2021

I. Mid term Business Plan GLP2020 and Business Strategy



Creating the value that only Anritsu can deliver
Building a world-class, robust income structure

Driving innovation in new business areas

I -2. Outline of our business segments



T&M: Test & Measurement PQA : Products Quality Assurance



I -3. Basic Policy of medium and long term business strategy

Capture growth drivers without fail, and realize "continuous profitable growth"

	Market average		Medium & long –term guideline		
	annual growth rate (estimated by Anritsu)	Vision / growth driver	Sales growth rate	Operating margin	
T&M	3-5%	Become a leading company supporting 5G/IoT society (1) 5G, LTE-Advanced (2) IoT/Automotive, Connectivity (3) IP Data traffic/Cloud Services	≧7%	≧20%	
PQA	3-5%	Become a world-class partner in quality assurance solution Expansion from contaminant inspection into the quality assurance market	≧7%	≧12%	
Consolidated			—	≧18%	
ROE			≧1	5%	

I -3-1. GLP2020 : Revenue and Op. profit Plan (1/2) GLP2020

Indicators		FY2018(Act)	FY2019(Act)	FY2020(Plan)	FY2020*
Revenue		99.7 B Yen	107.0 B Yen	110.0 B Yen	105.0 B Yen
OP. profit		11.2 B Yen	17.4 B Yen	17.5 B Yen	14.5 B Yen
Op. margin		11 %	16 %	16 %	14 %
Profit		9.0 B Yen	13.4 B Yen	13.5 B Yen	11.0 B Yen
ROE		11 %	15 %	14 %	12 %
T&M	Revenue	68.2 B Yen	75.2 B Yen	77.0 B Yen	70.0 B Yen
	Op. profit	9.4 B Yen	15.1 B Yen	15.5 B Yen	10.0 B Yen
	Op. margin	14 %	20 %	20 %	14 %
PQA	Revenue	23.1 B Yen	22.6 B Yen	24.0 B Yen	26.0 B Yen
	Op. profit	1.6 B Yen	1.3 B Yen	1.8 B Yen	3.0 B Yen
	Op. margin	7 %	6 %	8 %	12 %
*Plan as of April 2018					

(Note) Exchange rate for GLP2020 : 1USD=105Yen, 1Euro=125Yen)

I -3-2. GLP2020 : Revenue and Op. profit Plan (2/2)



I -3-3. GLP2020 Progress Status in T&M Business



FY2020 Initiatives

Capture growth opportunities by focusing on boosting competitiveness in 5G business

- Enhance global development framework and customer support system
- Promote conformance test system business

(Note) Anritsu group announced the FY2020 Forecast on April 27th, 2020.



2020

I -3-4. GLP2020 Progress Status in PQA Business



FY2020 Initiatives

- Strengthen sales bases in Americas and Europe
- Promote shift to platform solutions

(Note) Anritsu group announced the FY2020 Forecast on April 27th, 2020.

Japan	
Americas	
EMEA	

Beyond

2020

Asia & Others



Resolve social issues by realizing Beyond 2020

II. T&M business segment

II -1. T&M : Profit structure improvement targets



Cost structure improvement measures

- Introduction of high value added solutions (professional services, software)
- Thorough enforcement of development ROI & ROIC management (*1)
- SG&A expenses: Organizational structure and optimal allocation of human resources in response to changes in customer trends

*1:KPI target index for R&D investments is an R&D ROI(gross profit / R&D investment value) of 4.0times or higher.



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II -2-1. Current Worldwide 5G Situations

- China's lead has become clear
- 5G in European market has the possibility of decelerating due to influence of US-China trade conflict
- 5G in Korea has the possibility of stalling due to technical hurdles of millimeter wave applications
- US is catching up by changing policy to pursue sub-6GHz

	As of Uctober 2020
 Europe Concern for deceleration of 5G introduction for increased burden on operators due to the movements to remove Huawei by countries such as UK and France. Europe Committee is encouraging early introduction of 5G services 	 Korea Despite the large number of 5G subscribers of 6.8 million, customers are dissatisfied due to poor connectivity and low price-effective services Planned introduction of millimeter wave services within 2020 has been postponed
 China 5G subscribers already exceed 100 million. 410 thousand 5G base stations 62% of new terminal devices sold in July were 5G capable 75% of 5G Smartphones worldwide today are made by Chinese manufacturers 	 US Slow subscriber growth for 5G millimeter services of VzW TMO is leaping forward with rapid increase of 5G sub-6GHz subscribers ⇒ VzW and AT&T are changing policies to focus on sub-6GHz US Government is releasing 3.4-3.5GHz following 3.5-3.6G iPhone 12 released
 India/South East Asia/Oceania 5G services have been started in Australia, Thailand, Philippines India has determined to remove of Huawei and ZTE Full-scale spread of 5G is predicted to be after 2022 *MIC: Ministry of Internal Affairs and Communications **SA: 5G Stand Alone 	 Japan 330 thousand of 5G subscribers (as of end of June) MIC* has moved 5G base station installation plan forward NTT Docomo aims to have 2.5 million subscribers by March 2021 (SoftBank aims 1.8 million by 2023) Each operator plan on introduction of SA** services in 2021 NTT announced to make NTT DoCoMo its wholly owned subsidiary

II -2-2. Roadmap of 5G

* Created by Anritsu referring to publicly available information



II -2-3. Digest of Rel-16 & Rel-17

*Source: Prepared by the Company based on publicly available information



NR-U: NR-Unlicensed

*TSN (Time Sensitive Networking) : A standard originally used for networks that guarantees synchronization of time and real-time performance in Ethernet communications.

II -2-4. 5G terminal development/manufacturing process and test solutions



II -2-5. 5G Test Solutions Conformance Test



II -2-6. Mobile R&D business and solutions (The case of LTE)

	Platform(Core)	Conformance test		Operator	Smartphone
	Development	RF	Protocol	Acceptance test	Commercial test
Uses	Comm. standard development Chipset development	Conformance test Interoperability test		Comm. Carrier acceptance test	Application development UE operation test
Main customers	Chipset vendor UE vendor			Com Carrier, Test house, UE vendor	UE vendor Applications developer
Main theme	 FDD / TDD-LTE, LTE-Advanced, LTE-Advanced PRO CA (Carrier aggregation), VoLTE (Voice over LTE) MIMO (Multi Input Multi Output) Chipset unification of 3G/LTE and SRW (Short Range Wireless) 			 Improve data throughput Battery consumption etc. 	
Test solutions					
Main Competitors	Anritsu : No. Rohde & S		Rohde & Schwarz, Keysight(Agilent, Anite), Spirent		Rohde & Schwarz, Keysight



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II -2-8. Contributing to the establishment of 5G network infrastructure



II -2-9. 5G will become the infrastructure of social innovation



II -2-10. Outlook for 5G Service Development



II -2-11. 5G and LTE coexist and interwork

5G = LTE Enhancements + Next-Generation Wireless Technologies



II -2-12. 5G Band Allocations in the World



II -2-13. Solutions for 5G chipset/device development

We have begun shipments of the Radio Communication Test Station MT8000A for development of chipsets, devices, etc. for the 5G market



II -2-14. Role of MT8000A



II -2-15. High-frequency (millimeter wave) measurement technology



For high-frequency (millimeter wave)

Accurate measurements are possible with Over The Air (OTA) using chamber.



II -2-16. Test solution for 5G NSA-NR terminal development



II -2-17. Anritsu's Solution for 5G base stations and terminals



MS2850A Signal Analyzer

Signal analyzer that realizes millimeter-wave measurement solutions required for R&D and manufacture of 5G base stations and terminals at unprecedented low prices Frequency range : 9 kHz~32 GHz/44.5 GHz Analysis bandwidth : 255 MHz (standard), 510 MHz(option), 1GHz (option)

Conventional Signal Analyzer for LTE



- Frequency is mainly 6GHz or less
- Analysis bandwidth is 20MHz to several hundred MHz

Signal Analyzer for 5G



- Covers frequency up to 44.5GHz
- Coverage of analysis bandwidth is up to 1GHz
- Low price enables installation for commercial development and manufacture

II -2-18. 5G Test Solutions Base-Station Installation and Maintenance

5G NR Base-Station Field Performance Measurements and Coverage Mapping

Field Master Pro MS2090A

- Frequency Range: 9 kHz to 9/14/20/26.5/32/43.5/54 GHz
- Supports RF measurements of GSM, LTE, and 5G base stations, as well as 5G demods.
- TX spurious up to 54 GHz

Usage: 5G NR Base Station Measurement 3GPP TS 38.104 V15 gNB Base Station Performance Evaluation

- · Frequency error · Occupied bandwidth
- \cdot Time offset \cdot Adjacent channel leakage ratio
- \cdot Cell/Sector ID \cdot Tx spurious up to 12.75 GHz
- \cdot Modulation quality \cdot EIRP
- · Unwanted emissions · Synchronization Signal Block (SSB)
- · FR1 & FR2 · Up to 64 beams supported

Usage: 5G Coverage Mapping

Plot indoor and outdoor coverage maps from 5G NR gNB. Displayed measurements include channel power, EIRP, and RSRP.

II -2-19. Food chain and players in mobile telecom market



II -3. Industrial Test Solutions

Expand Earnings Opportunities by Supporting the Creation of New Markets and Various Industrial Fields through the Utilization of 5G


II -3-1. Manufacturing solutions for Smart phone



Current features

- Huawei, Vivo, Oppo The rise of China vendors and intensifying competition ()
- 2. The growth of the manufacturing market in India

Solutions for 2G / 3G / LTE & Connectivity



Smartphone Shipment Market Share in China by Vendor *



*Source : Gartner "Market Share: PCs, Ultramobiles and Mobile Phones, All Countries, 2Q18 Update" 24 Aug. 2018 Smartphone = Basic Phone, Premium Phone, Utility Phone OS=Excluding WindowsRT and Proprietary Graph created by Anritsu based on Gartner research

Main Competitors

Rohde & Schwarz, Keysight

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II -3-2. R&D solutions for Smart Devices for IoT



II -3-3. Manufacturing solutions for Smart Devices for IoT



Main Competitors

Teradyne, National Instruments, Rohde & Schwarz, Keysight

II -3-4. Local 5G

Local 5G has been newly introduced in Japan and is expected to be introduced overseas as an advanced form of private LTE.



II -3-5. Application of Local 5G in Anritsu Products

Latency measurements in remote operations

Measurement of latency in remote operation of robots



MT1000A Network Master Pro

Measurement of cellular interference

Measurement of cellular interference due to overlapping local 5G areas



Base station performance testing and communication area measurements





MS2840A/50A Signal Analyzer

ML8780A/81A Area Tester

Device and sensor module performance testing

Testing of device and sensor module radio characteristics and protocol



II -3-6. Introduction of new technologies in the automotive market and Anritsu's initiatives



Connected cars / V2X V2X (vehicle -to-vehicle / Road-to-vehicle communication)

Building in V2X into HILS with major venders for autonomous driving



II -3-7. Food chain and players in Automotive market

Safety , Emergency , Comfort , Infotainment , Diagnostic

Car Vendors	Dashboard	Module	Chipset
	Vendors	Vendors	Vendors
Autonomous car ADAS (Advanced Driver Assistance System) Telematics (Telecommunication + Informatics) ITS C-ITS (Intelligent Transport Systems)	Transceiver module(Cellular + V2X + Connectivity + Antenna + etc.)Rader moduleAntenna Satellite receiver Tuner	Cellular module , Connectivity module , V2X module , Rader , Antenna , Connector , Cable , etc	Semi- conductors for communi- cation



II -4-1. Test Solutions for support of Cloud Service expanding Data traffic extending explosively



III. PQA Business segment

III-1. PQA business segments (Products Quality Assurance)



III-2. The growing PQA business < PQA >



Japan Improve market share through quality assurance solutions with high added value

lin response to cuttina-edae needs

Main Competitors

Mettler-Toledo, Ishida, Marel

*Anritsu group announced the FY2020 Forecast on April 27th, 2020.

Ⅲ-3. PQA Business: Current Status of the PQA Market and Outlook



Ⅲ-4. Solutions for pharmaceutical market

Metal detectors for pharmaceutical market



Features

Detects metal in pills and capsules with high sensitivity and determines pass/fail.

Can detect metal fragments down to 0.1 mm

Customers

Pharmaceutical companies

IV-1. Financial Strategy



IV-1-1. GLP2020 : Financial strategy

Basic policy

Improve corporate value KPI (ACE & ROE) through growth investment (including M&As) with a return of more than 7% of equity cost and capital efficiency improvements

* ACE (Anritsu Capital-cost Evaluation) :Operating income after tax-Capital Cost (WACC,5%)



IV-2. Shareholder Return Policy

Dividend Policy

Distribute profits in accordance with its consolidated performance(Net profit) and by taking into account the total return

- Take the basic approach of raising dividends on equity (DOE) in accordance with the increase in consolidated profits for the fiscal year
- 2. Aim at a consolidated dividend payout ratio of 30 percent or more

3. Flexibly provide shareholder returns taking into account the total return ratio

IV-2-1. Dividend forecast

Annual dividend

	Dividend per share	Profit	Payout ratio	DOE	ROE
FY2020 (Forecast)	31 yen	13.5 B yen	31.6%	4.4%	14%
FY2019	31 yen	13.4 B yen	31.9%	4.7%	14.9%



IV-3. Corporate Philosophy and Sustainability Policy



Contribute to the development of a safe, secure, and prosperous global society by offering Original & High Level products and services with sincerity, harmony, and enthusiasm.

Company Vision

Achieve continuous growth with sustainable superior profits through innovation, using all knowledge of all parties and contribute to the sustainability of society.

Sustainability Policy

The Anritsu Group believes our business should increase our long-term value through contributions to the sustainability of global society with sincerity, harmony, and enthusiasm.

- 1.We will contribute to building a safe, secure, and comfortable society through our business activities, based on our long-term vision.
- 2.We will maintain harmony with the global socio-economy and society through ethical company activities.
- 3.We will contribute to the preservation of the global environment by promoting environmental management for the coexistence of people and nature.
- 4.We will build strong partnerships by promoting communication with all stakeholders.

IV-3-1. Sustainability Goals(SDGs)

Social Issues We Address through Our Business Activities

T&M

Anritsu Group

Contribute to the promotion of innovations and an industrial structure that builds a sustainable society, and creation of safe and secure infrastructure



Contribute to building a sustainable society through the maintenance of a robust network linking all things related to safety and security

PQA business

Contribute to realizing a sustainable society and in which everyone can live with a sense of safety and security and in which food loss is

minimized by enhancing Products Quality Assurance for food and pharmaceuticals



Challenges to meet the needs of society (ESG)

Promoting Global Environmental Protection

Contributing to the creation of a society with sustainable consumption and sustainable corporate production practices.

Maintaining Harmony with the Global Socio-Economy

Together with diverse Human resources, we seek to contribute to the creation of workplaces where each individual can achieve personal growth and experience job satisfaction.

Expanding and Strengthening Governance

envision:ensure

Ensuring ethical corporate activities through risk management and fair, quick, and effective decision making

The Creation of Shared Value through the Promotion of Communication

Contributing to the creation of shared value with collaboration among all stakeholders

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8 DECENT WORK AND

IV-4. Corporate Governance System

For improving competitiveness and continuously enhancing corporate value



IV-5. Introduction to the Advanced Technology Development Lab

6G(Beyond 5G)

- 100+ GHz component development
- Radio interference monitoring technology



Next-generation technology acquisition

 Realization of "NEMS*", which have high potential for use in ultrasensitive sensors



* NEMS (Nano Electro Mechanical Systems), are devices with nmorder mechanical structures, which are even more compact than semiconductor processing technology, MEMS (Micro Electro Mechanical Systems).

V. Financial Results for the 2nd quarter of the Fiscal Year ending March 31, 2021

Note :The announced on July 30th, 2020

V-1. Consolidated performance - Financial results -

> Year-on-year growth in revenue and profit

Unit: Billion Yen

International Financial Reporting Standards (IFRS)	FY2019 (Apr. to Sep.)	FY2020 (Apr. to Sep.)	YoY	YoY (%)
Order Intake	53.6	54.0	0.4	1%
Revenue	49.8	52.2	2.4	5%
Operating profit (loss)	6.6	9.8	3.2	48%
Profit (loss) before tax	6.4	9.7	3.3	53%
Profit (loss)	4.7	7.1	2.4	51%
Comprehensive income	3.4	7.1	3.7	111%

Note : Numbers are rounded off to the first decimal place in each column.

V-2. Consolidated performance - Results by business segment -



T&M: Revenue and profit increased thanks to 5G commercialization and steady demand for data centers

PQA: Profit increased while revenue decreased due to the impact of COVID-19

Unit: Billion Yen

		FY2019 (Apr. to Sep.)	FY2020 (Apr. to Sep.)	YoY	YoY (%)
T&M	Revenue	35.2	37.5	2.3	7%
	Op. profit (loss)	5.9	9.0	3.1	52%
PQA	Revenue	10.7	10.4	(0.3)	-3%
	Op. profit (loss)	0.5	0.7	0.2	53%
Others	Revenue	3.9	4.3	0.4	8%
	Op. profit (loss)	0.7	0.5	(0.2)	-21%
Adjustment	Op. profit (loss)	(0.4)	(0.4)	0.0	-
Total	Revenue	49.8	52.2	2.4	5%
	Op. profit (loss)	6.6	9.8	3.2	48%

Note1 : Numbers are rounded off to the first decimal place in each column. T&M: Test & Measurement PQA : Products Quality Assurance Note2 : Adjustment includes elimination of inter-segment transactions and non distributed company-wide expenses of each business segment.

V-3. Consolidated performance - Revenue and Op. profit by quarters -

Bn. Yen

2Q(Jul.-Sep.) Operating margin: Consolidated18%, T&M22 %, PQA10%



Note : Numbers are rounded off to the first decimal place in each column.

	ew of operations by business segment 2020 (April to September)			
T&M: Steady progress for both 5G commercialization schedule and development of high-speed data centers				
Mobile	5G development demand remains steady			
Network Infrastructure	Increased investment in data centers, etc.			
Asia & Others/Japan	Expansion in investment aimed at 5G commercialization			
Americas	Greater focus on 5G service area expansion			
PQA: In the food market, uncertainty about the future due to the spread of the COVID-19 caused some customers to take a cautious approach to capital expenditures.				

T&M: Test & Measurement PQA : Products Quality Assurance

V-5. Transition of Order Intake

T&M : 4% decrease year on year





Note : Numbers are rounded off to the first decimal place in each column.

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Bn. Yen

V-6. Transition of Revenue by Region

• 5G commercialization and steady demand for data centers in Asia

Bn. Yen



Note : Numbers are rounded off to the first decimal place in each column.

V-7. Cash Flow



Operating cash flow margin ratio was 25.6%

FY2020 2Q

Operating CF : 13.4 Bn. Yen Investing CF : (2.5) Bn. Yen Financing CF : (11.2) Bn. Yen

Free Cash Flow Op. CF + Inv. CF : 10.8 Bn. Yen

Cash at the end of period

47.2 Bn. Yen

Interest-bearing debt 6.6 Bn. Yen

Others 2.2* Accounts receivable 4.9 Depreciation 25 amortization Profit(loss) before tax 9.7 **Capex (1.4)** Inventory (1.7) **Redemption of** Others (1.1) corporate bonds Tax (3.0) (8.0) Accounts payable (1.2) Dividend (2.7) **Others (0.5)**

Details

* Other main items: Advances received, etc.

Op. CF 13.4

Inv. CF (2.5) Fin. CF (11.2)

Note : Numbers are rounded off to the first decimal place in each column.

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Unit : Billion Yen

V-8. Forecast for full year of FY2020 (Consolidated)

No Change since April 27th disclosure

Unit: Billion Yen

		FY2019	FY2020		
		Actual	Forecast	YoY	YoY(%)
Revenue		107.0	110.0	3.0	3%
Operating profi	Operating profit (loss)		17.5	0.1	0%
Profit (loss) before tax		17.2	17.5	0.3	2%
Profit (loss)		13.4	13.5	0.1	1%
	Revenue	75.2	77.0	1.8	2%
T&M	Op. profit (loss)	15.1	15.5	0.4	2%
PQA	Revenue	22.6	24.0	1.4	6%
	Op. profit (loss)	1.3	1.8	0.5	40%
Others	Revenue	9.3	9.0	(0.3)	-3%
	Op. profit (loss)	1.9	1.2	(0.7)	-37%
Adjustment	Op. profit (loss)	(0.9)	(1.0)	(0.1)	-

Note : Numbers are rounded off to the first decimal place in each column.

Reference : Exchange rate : FY2019 (Actual) 1USD=109yen, 1EURO=121 yen

FY2020 (Forecast) 1USD=105 yen, 1EURO=120yen



