

パトライト可視化ソリューション

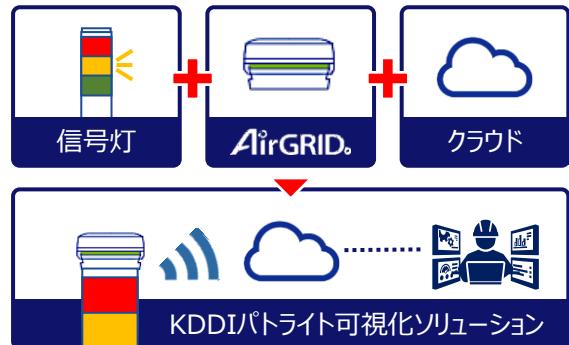
設備の稼働状況・生産数を監視できるトータルIoTソリューション

KDDIのパトライトソリューションの特徴

- 信号灯に乗せるだけで稼働状況をワイヤレス転送
- クラウドアプリで離れた場所からでもモニタリング可能
- デバイスからクラウドサービスまでKDDIがワンストップ提供

生産課題の削減、生産効率の向上！

IT様とも生産様とも当社が導入案内し、手間の削減



パトライトソリューションのシステム構成

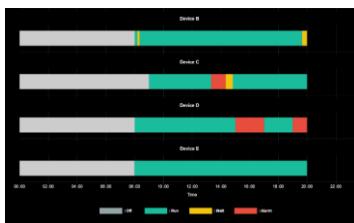


※ゲートウェイの代わりにお客様のPC経由で既存インターネット環境を利用する事も可能

クラウドへ収集・保管・分析



リアルタイム表示



時系列表示

✓ どこからでも閲覧可能
(オフィス、工場内、スマートフォン)

即時・累積の見える化で
次のアクションが取れる



お問い合わせ先

KDDIタイランド

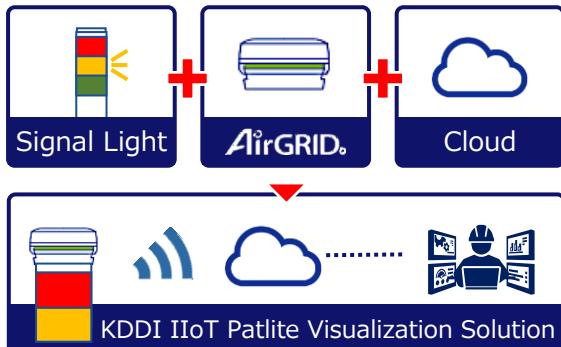
Tel: 02-075-8888 ext 0 / E-mail: sales@kddi.co.th (または貴社担当営業まで)

PATLITE® Visualization Solution

Visualize the Production & Machine Status on the Cloud

Feature of KDDI solution

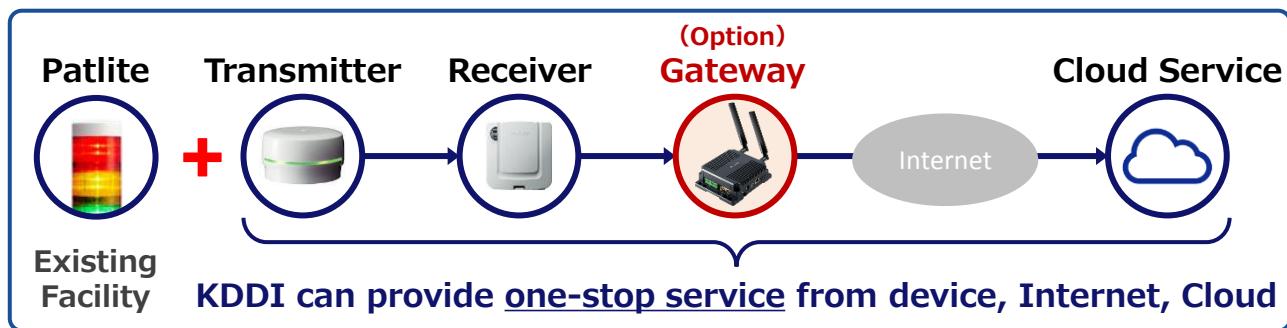
- Use transmitter (AirGRID) to connect network
- Monitor from remote location by cloud app
- KDDI provide total service from device to cloud app



Reduce production issues, improve efficiency!

We introduce solution to both IT and Production!

System Diagram of this solution

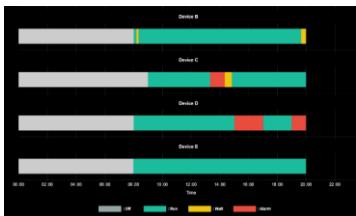


※Instead of gateway, also able to use customer PC and factory Internet

Collect, Store, Analyze to the cloud



Real-Time Status



Show by Time Series

✓ Monitor from anywhere
(Office PC, Factory Screen, SmartPhone)

Can take action
immediately



Contact

KDDI (Thailand) Ltd.

Tel: 02-075-8888 ext 0 / E-mail: sales@kddi.co.th (or your sales in charge)

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Cost of KDDI Patlite Solution

Cloud Software 1unit = 1,000THB/mth, 20units package = 12,000THB/mth

**HW & SW by
KDDI one-stop**

Cost Simulation case of Patlite 20 units (3 years)



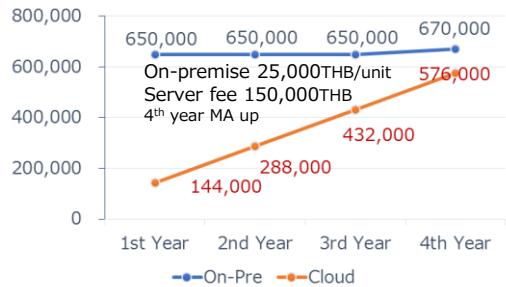
HW&SW = 20,000THB/mth

※exclude setup works , and taxes.
※exclude Internet connection (assume existing Internet usage)

Cost (3 Years)			Total
Hardware	Transmitter (WDT-6M-Z2) 20units		170,000
	Receiver (WDR-LE-Z2) 1unit		40,000
	Control Unit (DataRelay PC) 1unit		70,000
Software	Package for 20 units (annually x 3)		424,000
Total			712,000

Compare Software Type

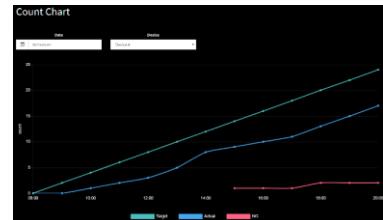
On-premise and Cloud



Utilize production data via Patlite

If the customer's patlite can also take production data, our cloud app provide below functions
※If not, KDDI can provide additional service to get the production data signal too.

Production Chart															
Line	Device	Cycle Time (sec.)			Counter			Diff.			NG	Availability	Performance	Quality	OEE
		Plan	Actual	Tgt.	Plan	Tgt.	Act.	Plan	Tgt.	Act.					
ABC Line	Device A	1800	2488	30	24	17	13	7	2	70%	88%	70%	88%	60%	
ABC Line	Device B	2400	3081	20	18	14	6	4	0	88%	77%	100%	75%	55%	
ABC Line	Device C	3600	3960	10	12	10	0	2	1	74%	83%	90%	55%	55%	
DEF Line	Device D	100	0	220	432	0	220	432	0	81%	0%	0%	0%	0%	
DEF Line	Device E	120	0	200	360	0	200	360	0	100%	0%	0%	0%	0%	



Production Board

- Production Count by Plan & Actual
- Cycle Time·Takt Time by Plan & Actual
- Calculate OEE , based on above data

OEE Gauge

- Display for easy-to-understand
- Everything is Real-Time
- Also daily,weekly,monthly

Production Graph



**Reduce Loss
More Efficiency
Timely Action**

Furthermore Function by Cloud

- ✓ Improve maintenance work by use sensor information
- ✓ Notify by prefer method to able to quick action!



Vibration Sensor



Current Sensor



E-mail



LINE

Contact

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