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IOT, 5G, 6G AND BEYOND



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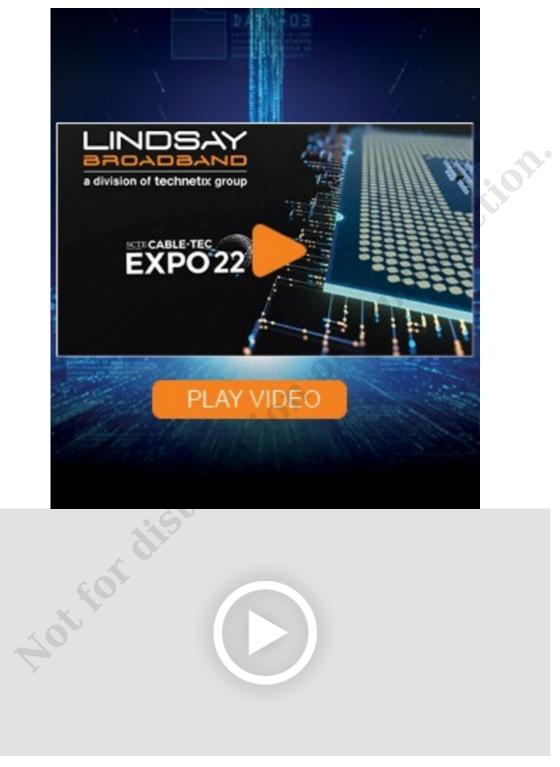
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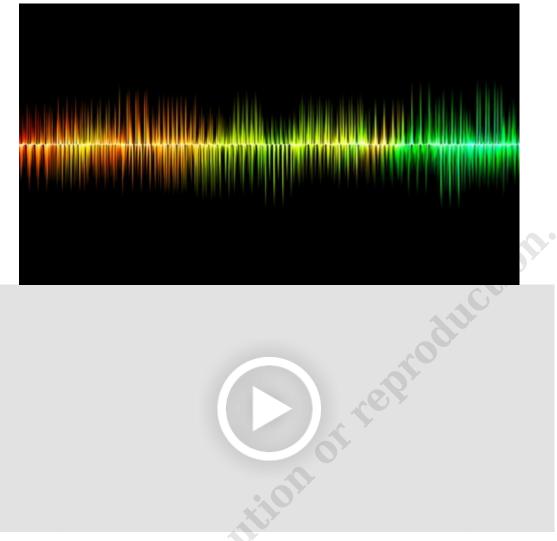
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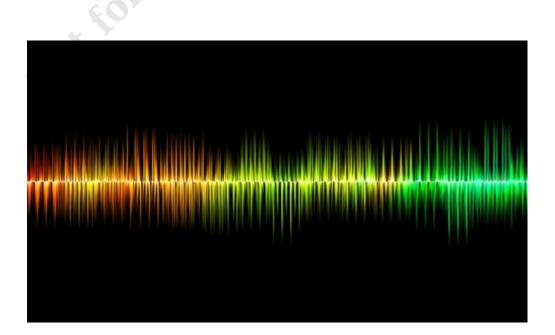
End-to-End Solutions for Broadband Networks

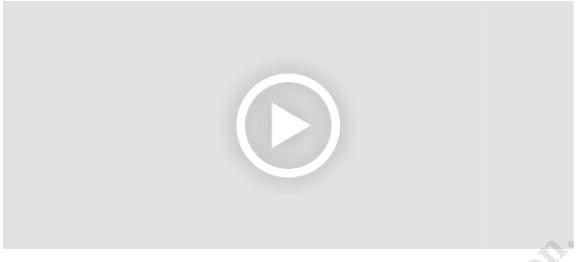
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



Predicting Colonial Pipeline: Mitigating Risk and Compliance

Mitigating risk and compliance for lawful intercept using lawful intelligence is explored in this Pipeline article feature SS8. Learn how CSPs can comply with lawful intercept regulation, while empowering law information with critical, real-time data.





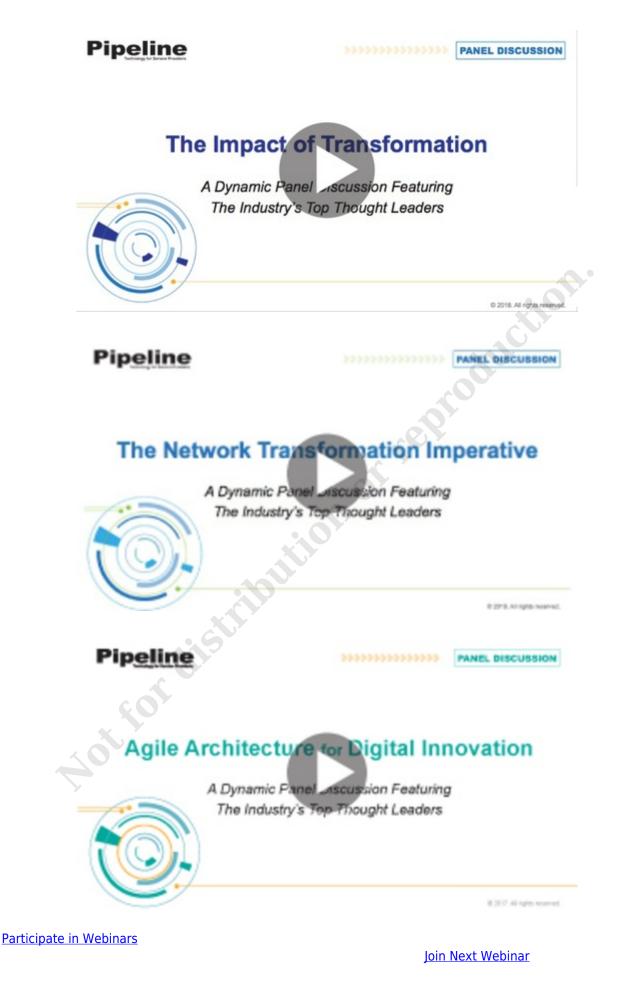
Podcast: The Evolution to 6G

The world's eyes are already looking forward to the potential of 6G. Demands resulting from innovative use cases, for instance specific requirements from different industries and other user groups, as well as overarching goals like sustainability, are driving the standardization and development of mobile technologies.

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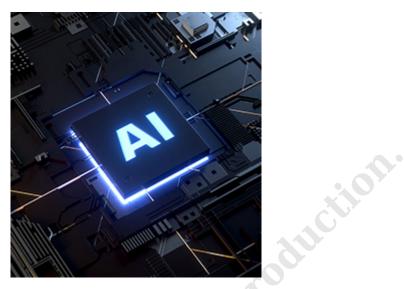
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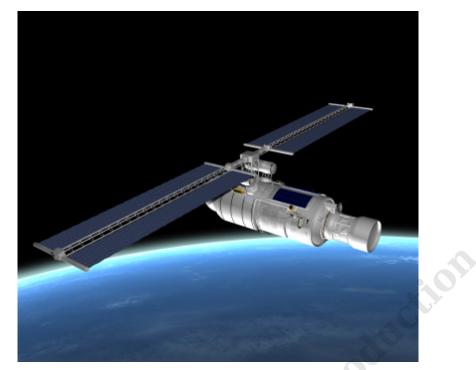
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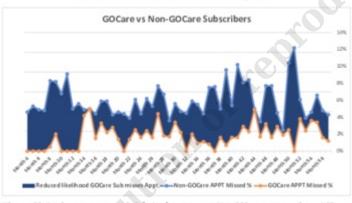
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Missed Appointment Analysis



When possible, it makes sense to compare the behavior of a customer opted in to GOCare vs customers that are NOT opted in to GOCare. Prior to the GOCare deployment, this operator averaged roughly 6% -8% of subscriber a pointments as "no access". AFTER the GOCare deployment, GOCare subscribers were routinely below 2% of subscriber appointments as "no access" or 70% fewer mixed a pointments for GOCare subscribers. As the opt-in rate increased, GOCare was successful is dramatically reducing the overall mixed appointment star. At an estimated \$150 cost per truck roll, the savings in mixed appointments more than covered the cost of the GOCare offering.

Potential OpEx Impact:

Missed Appointment Analysis: Calcula te an estimated 8% missed appointment KPI monthly, multiplied by an assumed \$150/truck roll. A 70% reduction in missed appointments represents an EBITDA improvement of significant revenue a missily.

In addition to the savings of OpEx, assuming the "no access" improvement applies equally to new installs, the improved completion ratio will accelerate revenues at improved margins.

01.



Sigma Systems and NDS

Orchestrating New and Unified Entertainment Experiences

Upgrading traditional offerings and deploying new hybrid IP platforms are an increasing focus as service providers look to evolve to offer a truly personalized video entertainment experience to subscribers – anytime, anywhere and on any device. Sigma Systems and NDS have developed an integration partnership to help service providers achieve this goal by provisioning and delivering advanced video and entertainment services that attract subscribers and generate DEW NVERUE.

One Managed View of Video Access Entitlements Critical to the success of lewraging the NDS solution portfolio for advanced TV/video services is the ability to seamlessly erable customers to access and view premium content. Signa System's provides the service orthestration for the necessary authorizations, entitlements and provisioning or ADS systems for subcaribors through a single OSS solution – managing video conditional access rights, entitlements for premium content, VOD, DVR, PvR and also provisioning P set tops and residential gateway devices.

TV Anywhere Authorized to Enable Multiple Devices Subscribers are increasingly demanding anytime anywhere access to their premium content on multiple devices from their TV, personal computer, and personal tablets such as the Apple* Pad*. Sigma Systems provides comprehensive subscriber entitlements management, which is key in searclessly delivering the multi-device, multi-room, TV anywhere entertainment experience to subscribers. Service providers benefit from service fulfilment that extends beyond subscriber service plans and profiles with a completely integrated view and management of users, devices, and cloud application

Effectively Migrate Subscribers from Standard to Premium Entertainment Packages

Delivering new entertainment experiences to subscribers doesn't have to involve an immediate and costly video network Derivening new entertainment experiences to subsidiates design thave to involve a numecoate and ocity video network, evolution, Sigma Systems'empowers service providers to leverage existing video networks in order to move beyond linear for services such as digital TV, IPV, VOC, and DVR PVR through support for next-generation IPTV IP video platforms, like NDS, on a single integrated OSS service management platform. This co-existent service fulfilment environment manages the provisioning and activation of all enhanced entertainment services, helping service providers to launch new premium video services and bundled packages that drive new revenue and reduce customer chum.



Know your network: Now.

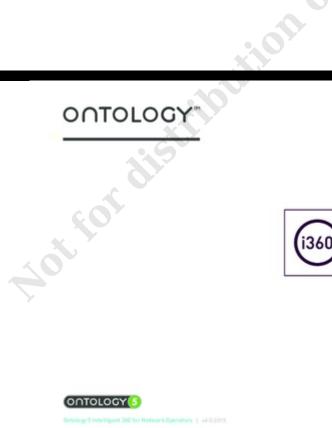
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OPERATORS

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Company Fact Sheet

About Cycle30 Cycle30 provides hosted order-to-cash billing services for telecom, cable and utility operators in North America. Cycle30 is a subsidiary of GCI, Alaska's largest telecommunications and cable provider (NASDAQ: GNCMA).

Over 10 years, the Cycle30 organization helped transform GCI from a multi-product carrier of disparate services to a truly converged operator of bundled telecom services, consolidating nine billing systems, and increasing operational efficiency and competitive agifty. The Cycle30 platform also enabled GCI to improve product strategy and successfully merge consolidate multiple providers under a common billing/OSS system.

Proven over years of real-world operator experience with GCI, the Cycle30 organization now operates as a separate company, offering its converged billing platform as a hosted service to small-and-medium-size converged operators everywhere.

duction Cycle30 Services Around its core billing engine, Cycle30 has integrated leading commercial software for ordering, provisioning and business support. This makes the Cycle30 hosted platform the only one of its kind in the world, with all the ordering, provisioning, billing and back-office revenue systems a converged provider needs for a complete order-to-cash system.

Management Jim Dunlap – President Ariel Baird – Business Operations Andew Dunn – Application Architecture Wendy Gonzalez – Products + Services Jeth Harbinson – Global Sales John Hegarty – Service Delivery Isaac Szymanczyk – Communications + Marketing

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Operations Cycle30 manages all operations from its headquarters in Seattle. The primary data orificer is located in Aurora, Colorado, with recovery and on-demand data centers in Scottsdale, Aurona and Philadelphia, Pennsylvania. çe

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IP Video Services Accelerator

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Sigma Systems' IP Video Services Accelerator is a robust solution

enabling cable service providers to extend video service offerings to deliver an enhanced and unified entertainment experience.

Without a doubt, the enhanced entertainment experience over IP video networks is emerging as the "next big thing" for service providers as over-the-top (DTT) content, internet video and 3rd party applications continue to the team customer logalty. Gone are the days of just delivering traditional video offerings as cable service providers begin emb acting the opportunity to create new business models and deliver an exciting, personalized multi-screen experience to subscribers. But without the proper supporting service fulfilment ibundation, the accurate delivery of this experience is a significant challenge for cable service provides.



Simultaneous Linear & IP Video Provisioning & Support

Simulatineous a limiter of the or to be of the service sufficient subport of the product anexes provides and supports both. Inter and IP video retencis to deliver digitality. PPLV VCQ, DVR/VR, Internet Video, Officient and adquarts applications. This unique integrated CSS service managements obtain eliminates operational allos and provides seamless order management, provisioning and entitlement managementacross all technologies, services, and systems.

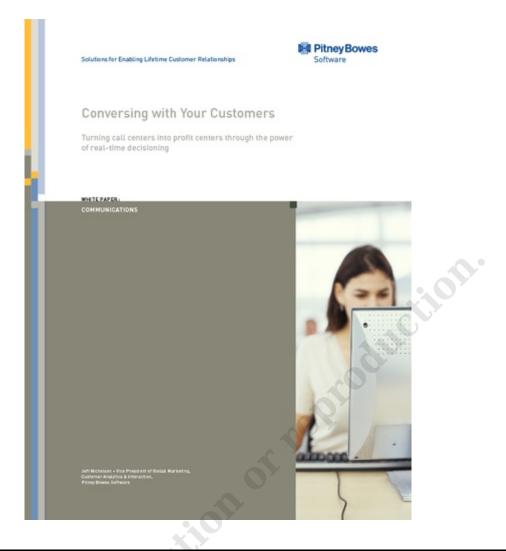
Simplify All-IP Video Migration

By supporting a hybrid linear and IP video network that provisions all video services, the IP Video Services Accelerator grappointing a right mean and a more than the factor for the participation at the day that the ball by to simplify and implements to go any possible to the solid by to simplify and implements to go any possible to the solid by to simplify and implements to go any possible to the solid by to simplify and implements to go any possible to the solid by to simplify and implements to the solid by to simplify and implements to go any possible to the solid by to simplify and implements to the solid by to simplify any possible to the solid by the s your business is ready.

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hackers in an increasingly vulnerable digital world

Withost cluster, the power of the digital economy permastes hearly averything we do. Evolving well beyond eConnected on mBonking, the connected society incluses use all heads, video subscription. The shering, inderhaining, who hontestay, or lio¹ which have gold y become a regular part, of our fixed search day. While the conventions or or low fixed search day. While the conventions or or low fixed search day. While the conventions or or low fixed search day. While the convention or or low fixed restances and the search low the search low optimate of the search of conventions has need to be section in order to ensure that only the right people are properly entitles to second the information or evolution the search low to a senables are noted in chart, copil actions est containly trying to improve the user usperience by reducing the fination in the outher tribution process. Utilizations whiling Liceas and fair "to be the working Liceas and fair "to the true the extra search is also making Liceas and fair "to the true to the search of the second search fair the conventer is also making Liceas and fair "to the true to the search of the second search fair the conventence of the search of the conventence the search of the second search of the to the search of the second search of the conventence of the second search of the to the search of the second search of the conventence of the second search of the the search of the true of the second search of the the search of the search of the search of the the search of the search of the search of the the sear



"Hackers can have access to your bank accounts, bitcoin, payment services and many other aspects of your digital life before anyone is the wiser."

According to an article by CBS News New York¹, a woman bost more them S20,000USD when a fraudeter posing as her barn too koven en account. The article says the scenario old any log teiling the woman her account was compromised, then sent her text messages to change her basevoid – giving the convertio access to her account, biscoin, pay here access to your bank account, biscoin, pay here services and many other aspects of your digital life before anyone is the wiser. That is a coverful proposition for frauchters.

Clearly, the digital works is increasingly vulnerable. Fraud is getting toogressively sothisticated and more difficult to prevent estuding in billions of deltuss in "memoral losses annual, Victoria are nononly unsusteeping tenior chiters and always to meeted millermish, out also obtain entreprime in and size yeary concurrents. Even the dark regeneraling is of the very organization vested or the test core bility to protect core, mension year provide the been a victim of fraud. Interestingly, the telephone number, which is the entry why for mother this fause, is being exclosively galept or intrain in novel ways. Fortunately, the victims no longer need to be victimised because much and be done to protect consume inform this type or deficitly theft and related harms.



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John Wilmes Chief Technical Architect, Communications Progress Software

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Case Study: GSM wireless network build

PROJECT GSM wireless network build

SITUATION

When a converged telecommunications services provider faced the sale of its wireless partner properties to a large, national wireless company, it chose to expand its market pervetration by building its own wireless GSM network.

The provider engaged Cycle30 to build out, integrate, and deploy all of the BSS & OSS functions to support the new GSM network and wireless services in three metropolitan areas, over an aggressive nine-month timeline.

CHALLENGE Critical to the ROI of the buildout was the ability to successfully acquire a number of new wireless subscribers, while retaining 99 percent of existing subscribers from the old MVNO network.

duction Cycle30 planned and delivered all necessary BSS, OSS and conversion functions to support two separate network and product go-five dates, dictated by a strict schedule from the provider acquiring the partner assets.

In addition, severe winter conditions across the provider's geography forced Cycle30 to compress the timeline in order to complete the conversion before winter.

RESULTS

- Cycle30 conducted end-to-end testing of the network and conversion process to end seamless customer experience while finishing the deployment
- · Delivered the project on time
- Delivered the project 10 percent under budget
- . Cycle30 flexed to the provider's network deployment needs, so that BSS/OSS and conversion activities accelerated progress instead of impeding it • Provider successfully converted 48,000 subscribers to its new GSM wireless network
- Customer conversion retained 99.2 percent and added 42,000 new subscribers.

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Distributed cell site gateway from ADVA and Edgecore Open and disaggregated path to 5G infrastructure



As involution and growth in packet and wireless networks contributes to accelerate, communication service providers; (SPR) and mobile network operators (MNDG) no bright have time to wait for their vendors to come up with higher capacity devices that meet the latest inquirements. Now there's a new way to grow networks that combines the agility of software-based feature development with the performance and economics to baremetal with these. Building a network for 5G access is now as implied as selecting a hardware component with higher capacity and installing the network operating system (NDS), and to help, ADVA and Edgecore have combined forces to deliver a disaggregated cell site gateway (DCSG) sofution that provides the required features in an open and multivendor fash.

Meeting the bandwidth demand in 5G

Access speeds will increase dramatically for 5G networks, and base stations will move from 1GbE to 1GoE and 25GE uptick interhouse. Backhaul networks must rapidly grow to 100GbHUs aggregated capacity. MNOs need to design and operate these higher-speed networks with proven technologies and established processes. At the same time, MNOs need to make their networks much more agile to unleash the power of SG new radio (INK). They need to make their networks much more agile to unleash the power of SG new radio (INK). They need to move from hastwarecentric, static networks to software-defined activactures. With the latest undefined networking (SDR) and network functions. vitralization (INV) network functions.

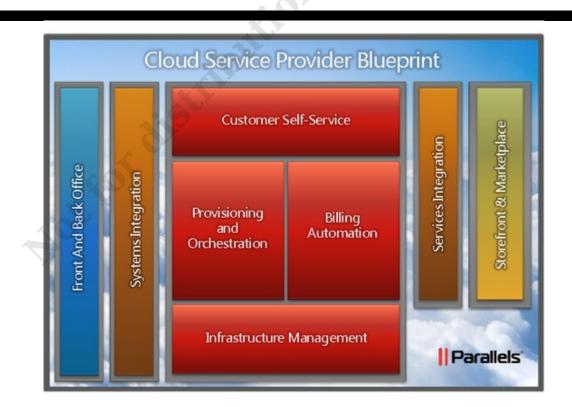
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are paving the way for open, agile, and efficient mobile ecosystems.

Moving from closed to open

MINOs and CSPs want to break open single-vendor sitos to increase competition and reduce cost. That has led to increasing interest in disaggregated networking with packat methods devices implemented as white box switches and open network operating systems. Thors swy the Telecom infla Project (TP) defined the DCSG as we ias O penRAN. Both are essential to supporting the move to real-generation radio achieves.

According to TIP's <u>DCSG Technical Spectration</u>, the DCSG is "an open and disaggregated platform based on commercial off-the-shell components and



ALC'HOR.



tanaged Telecoms solutions that enhance the customer experience and power growth for stablished Webwork Operators, and unleash the potential of new markets for Greenfield tual Network Enablers

The Challenges for Market Growth

Communication Service Providers (CSPs) in today's Telecoms industry are keenly aware of the need to innovate and grow market share while controlling cost to serve and improving margins.

Managed BS	ss solutions
Burkanes Customer Messgenerat -w Velanis Customer VEDS	viel Forflet-ph Operators VHCe

Coportunities for Established Operators

For established Mobile Network Operators faced with declining revenues, opportunities exist to (a) drive acquisition/retention activities through improved customer experience, and (b) maximize the value of the business customer base through enhanced corporate service offerings.

(a) Customer Experience - Improving the experience of existing customers, often with a range of service offerings distributed across many source billing systems, requires the adoption of a 'Single View' proach to customer management and repo ning:

- Single View of Customer
- Single View of Products
 Single Point of Contact
- Single Bill and Reporting.

This is especially relevant for multinational corporations that operate across regional boundaries

ibutio Managed B55 for Accelerated Business Growth

in multiple languages and currencies that have little or no centralised telecoms account management and cost analysis.

The typical approach to achieving a single view of the customer is through billing transformation, which can be a costly and complex initiative.

(b) Enhanced Corporate Service Offerings -Convergence, whether in the form of Unified Communications or Fixed-Mobile Convergence, is an expectation driven by the market. This presents CSPs with a whole new set of challenges that reach far beyond IT systems. The convergence of mobile, fixede and P services crosses the entire customer lifecycle, including:

- · Order Capture for multiple services with different requirements and lead times
- Order Management -that includes hardware, software and network provisioning
- Rating & Billing for mcurring charges, usage charges, one-time charges, credits and adjustments across multiple integrated
- services - Care & Manage - unified account
- management, e-bill presentation and online analysis.

New Channels to Market for Greenfield Operators

For Greenfield Virtual Network Enablers (VNEs) the recent resurgence of interest in the VNE busi model, and the fact that convergent services are fast becoming a necessity rather than a nice-to-have, presents an opportunity for a broader range of service providers to grow revenues in the 828 market, including:



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