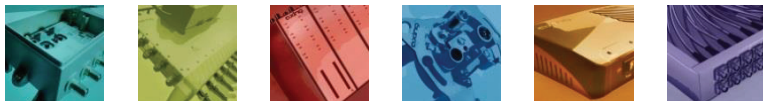


# AG IPTV Solution



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# Why AG IPTV Solutions?



- Comfortable TV-/ Radio-programs
  - Easy discover your favourite program
  - TV-/ Radio-programs sorted by language / genre
- IPTV allows internal communication-services
  - Comparable with conventional distribution networks
  - Information, Communication and Entertainment
- IPTV is a interactive system
  - IPTV offers comfortable add-ons
  - Language selection inside the menu
  - Different channel-lists depending on the language
  - Personalized TV – On demand services
  - Easy handling for hotel staff
  - Advertisement and slide shows
  - Top digital quality (HDTV, UHD, 4K)

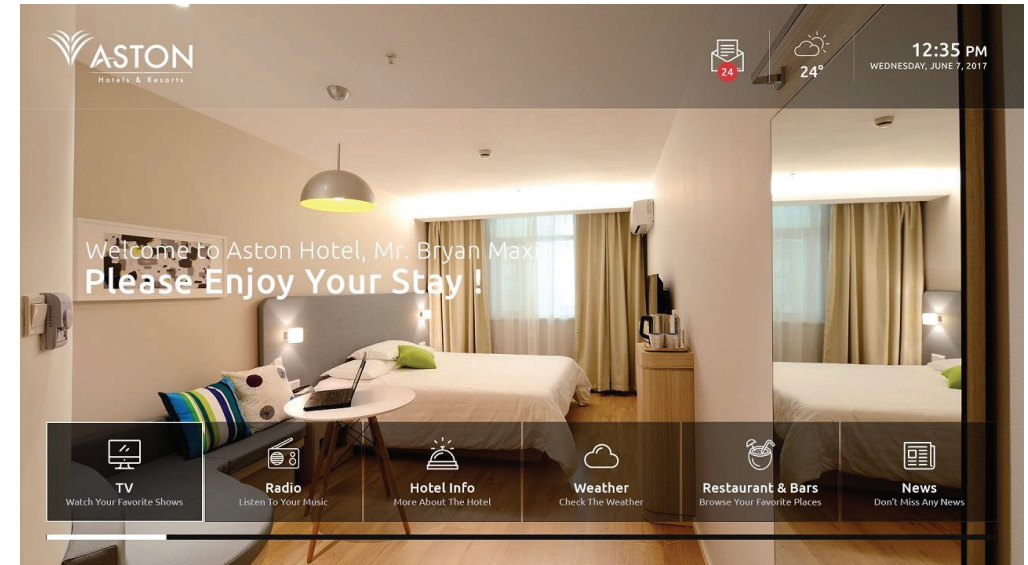


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# AG IPTV Solutions advantages



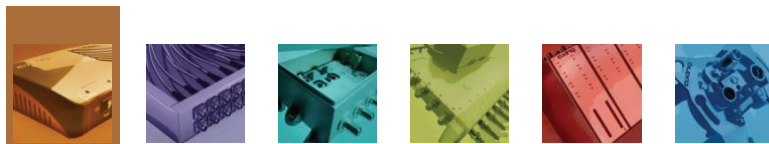
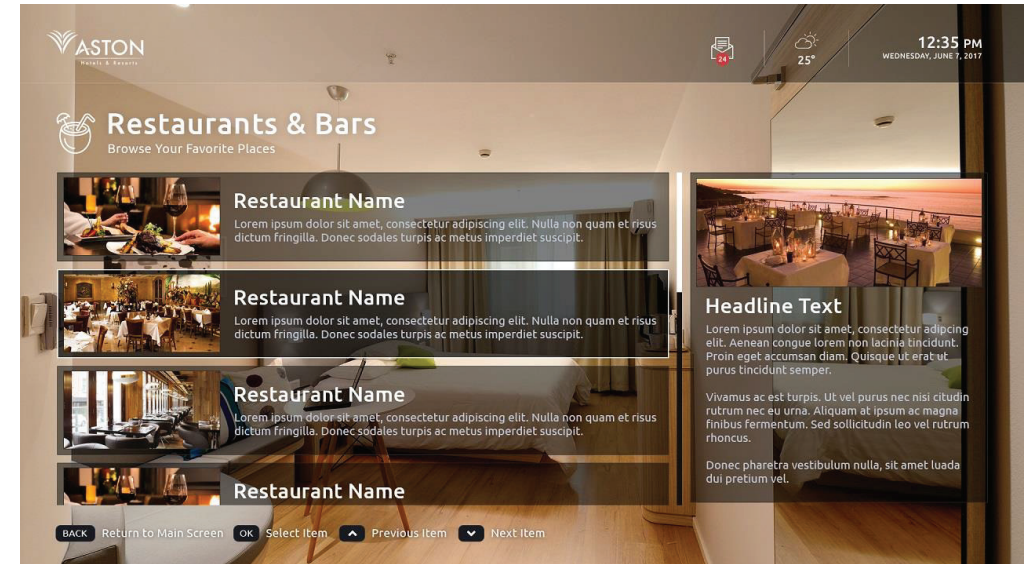
- At each network point all IPTV content is available
- Reduces Opex and Capex - only one infrastructure
- Modular structure, customizable, extensible
  - Scalability up to nearly unlimited numbers of users and content
  - User-friendly and future proof
- Easy and efficient administration
- Access-control for different users
- Personalized TV-content
- Constant high quality
- Designed for smooth 24/7 operating
- PMS interface for many vendors



# AG IPTV Solutions for communication

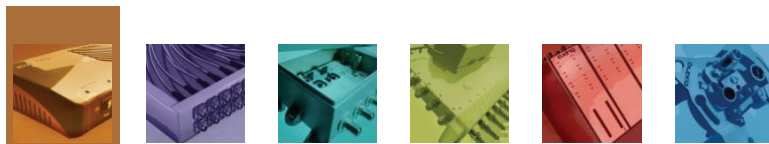
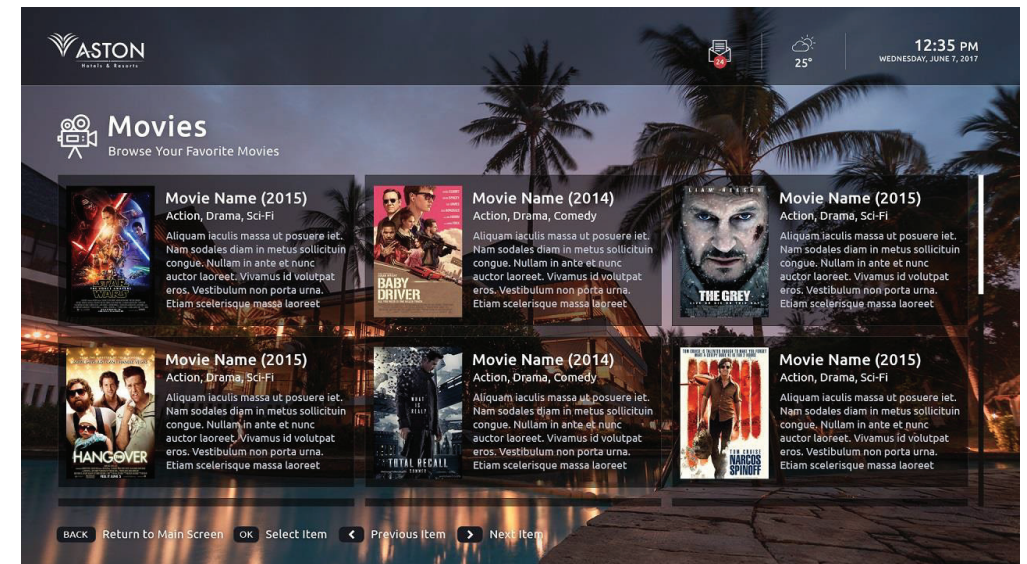


- Addressable
- Personalized videos
- PayTV / VoD / AoD
- Billing for services
- Ordering system
- Personalized greetings / News / Information
- Customized TV-content for guest
- Comfort functions
  - Wake-up
  - Alarm messages
  - News-ticker
  - Weather forecast
  - Advertising



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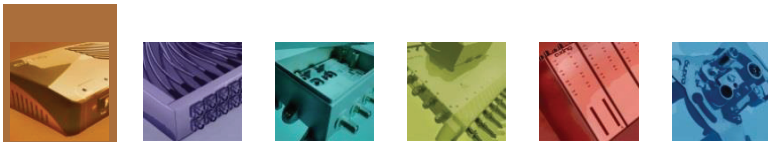
- Packet “**basic-line**”
  - Selectable TV- and Radio-programs
- Packet “**premium-line**”, includes packet “**basic-line**”
  - Individual language selection
  - Sorting of TV- and Radio-programs
  - Individual welcome
  - Remote control of TV-device
  - Connection to PMS
- Packet “**exclusive-line**”, includes packet “**premium-line**”
  - Comfortable messages and functions
  - Info-channel
  - Order system
  - Banner advertisement
  - On-demand entertainment



# AG IPTV Solutions – “basic-line”



- Packet “**basic-line**” as TV-only mode – no interactive functions
- Flexible headend for transmodulation into IP
- Distribution of TV-programs from satellite-, terrestrial-or cable-input
- Central descrambling
- Individual compilation of program-list
- TV channel manager
- Pre-sorted TV- and Radio program-lists
- TV and Radio channel grouping by categories and languages
- Enhanced subtitle / audio-stream selection
- Delete of unwanted programs
- Independent from other network providers
- ... / 2

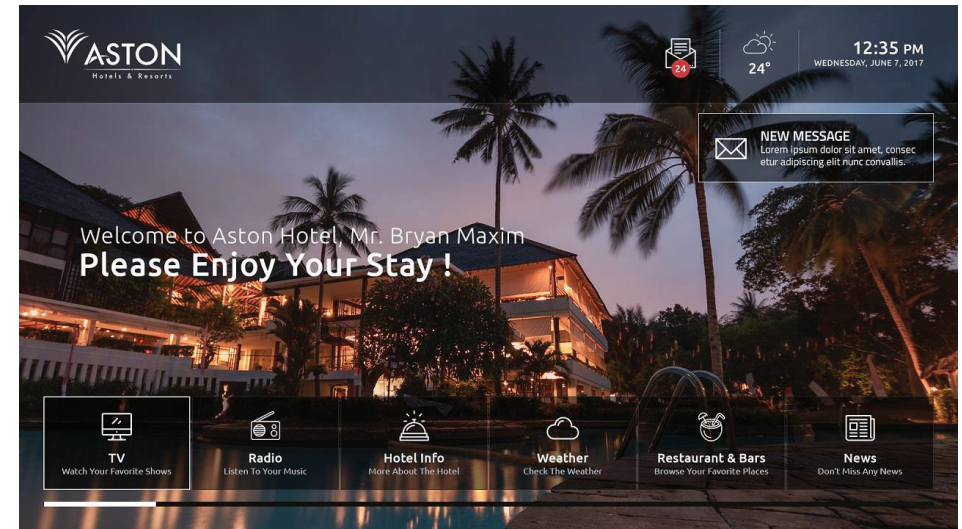


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# AG IPTV Solutions – “basic-line”



- ... / 2
- Supreme digital quality (HDTV, UHD, 4K)
- Supports STB and SmartTV
- Administration of connected devices (STB or SmartTV)
- Promotion Hotel-TV channel
- Local CMS, no internet connection is needed
- EPG with now and next - current and future program information
- Option: full-EPG with all available information or via xml-/json-file
- Operation software runs in virtual environment
- AXING **SMART**Portal
- Alarm messages – PAGA-interface for different zones
- Fire alarm from the central alarm system
- Remote control for STB and SmartTV
- Backup from CMS



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# AG IPTV Solutions – “premium-line”



- Packet “**premium-line**” – with interactive functions
- Includes the packet “**basic-line**”
- Free selectable individual background-pictures
- Menu-buttons on demand
- Modification through hotel staff
- Editable surface-menu via text editor
- Option: customized layouts with interactive functions; personalized design
- Personalized greeting in the room
- TV-menu in guest language
- Easy choice of favorite programs via language-, genre-etc. filtering
- Welcome Page
- Guest language
- ... / 2



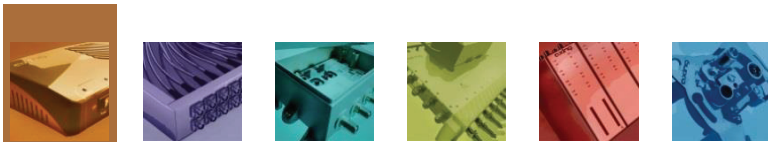
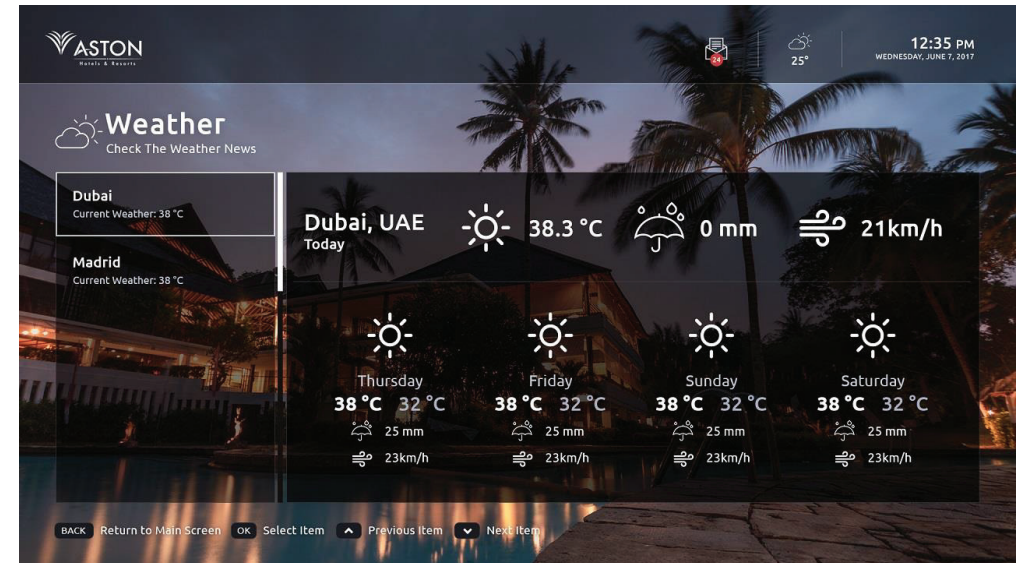
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# AG IPTV Solutions – “premium-line”



- ... / 2
- Unlimited languages
- Messages to one person, group or for all guests, messages with history, show all previous messages, signalling during TV
- Pay-TV function
- Parental control
- Information Pages
- Uncomplicated operation for the guest
- Hotel- and location information
- Daily actual modification through hotel staff
- PMS interface
- TV wake-on at check-in
- Wake up call on TV or STB, depends on STB or SmartTV
- ... / 3

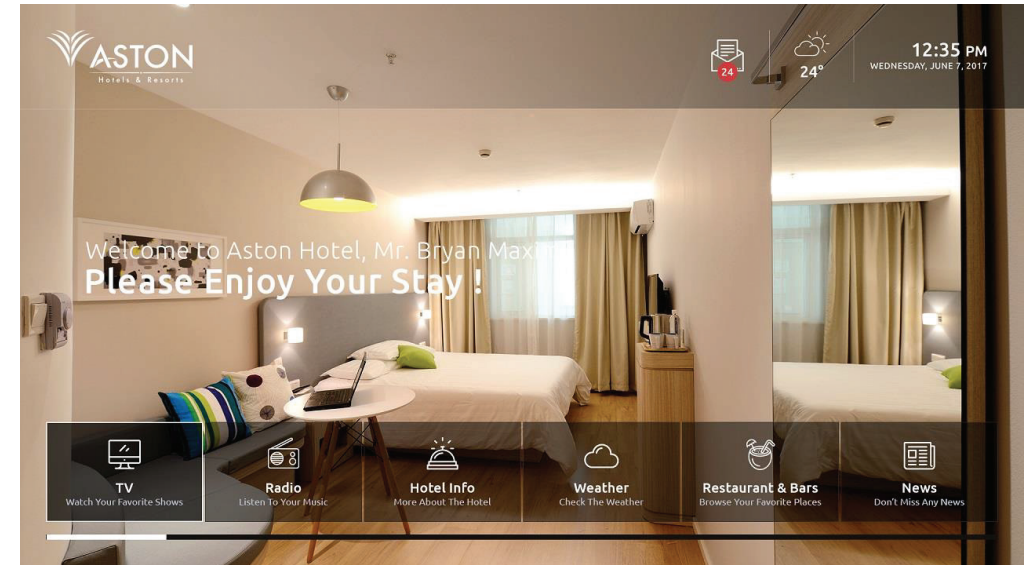


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# AG IPTV Solutions – “premium-line”



- ... / 3
- Option: order requests via STB or Smart-TV
  - In-Room Dining
  - In-Room Shopping
  - Butler / housekeeping / ordering
  - Reservation in hotel restaurant
  - Booking of spa treatment
  - Ordering by time
- Option: Widget for local weather
- Option: RSS feed for news
- Option: View bill / express checkout
- Option: Wireless Share (Miracast), depends on SmartTV
- Option: Slide show and advertisement as pop-up or ticker
- Option: VoD-, Pay-TV- and AoD-services

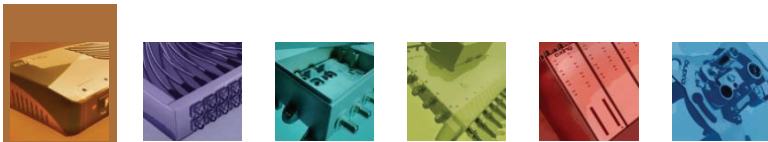


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# AG IPTV Solutions – “exclusive-line”



- Packet “exclusive-line” – Includes the packet “premium-line”
- Info-channel
- Comfort functions
- Full-EPG with all available information or via xml-/ json-file
- Order requests via STB or Smart-TV
- In-Room Dining
- In-Room Shopping
- Butler / housekeeping / ordering
- Reservation in hotel restaurant
- Booking of spa treatment
- Widget for local weather
- RSS feed for news
- ... / 2

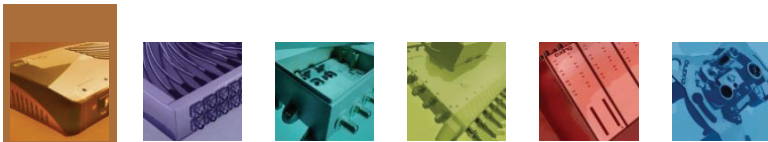


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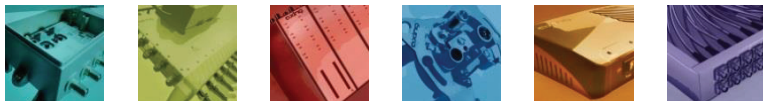
# AG IPTV Solutions – “exclusive-line”



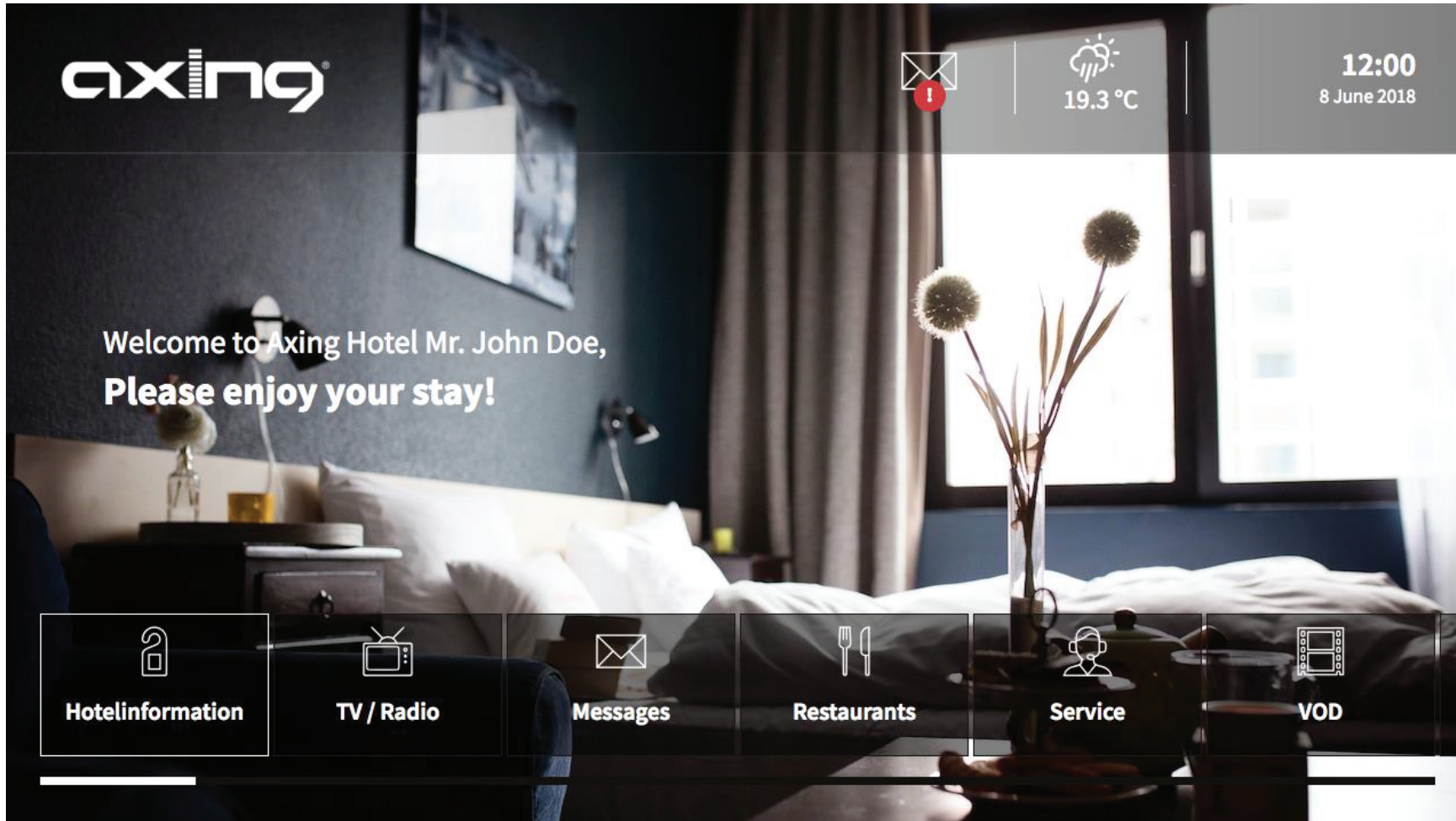
- ... / 2
- View bill / express checkout
- Wireless Share (Miracast), depends on SmartTV
- Local information
- VIP service for extensive channel-lists
- Option: Flight-/Train- schedule
- Option: view exchange rate
- Option: Background music or movie
- Option: IP-remote control, like “Crestron”
- Option: VoD-, Pay-TV- and AoD-services
- Option: Calculation for prayer time



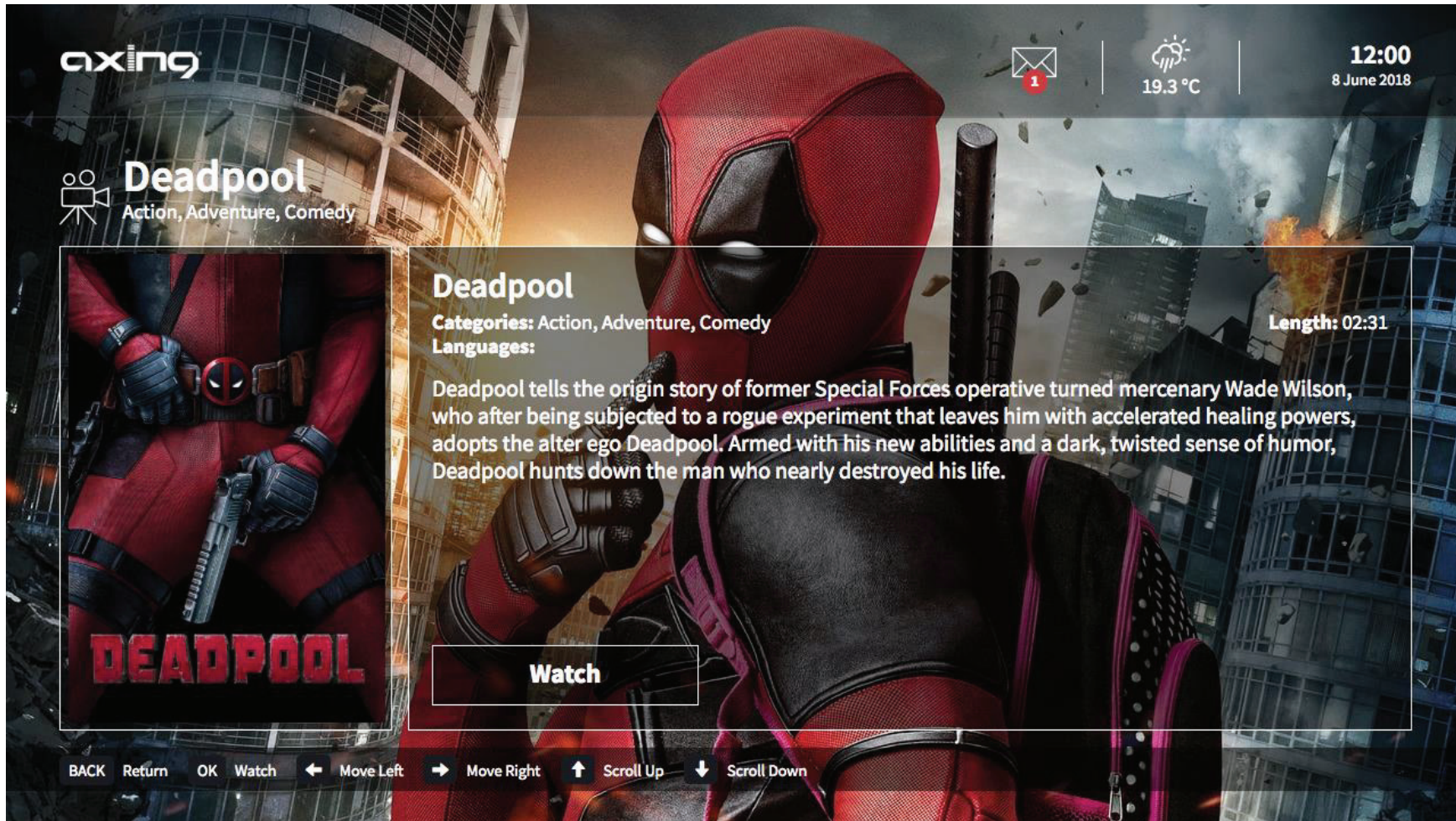
## Screen shots



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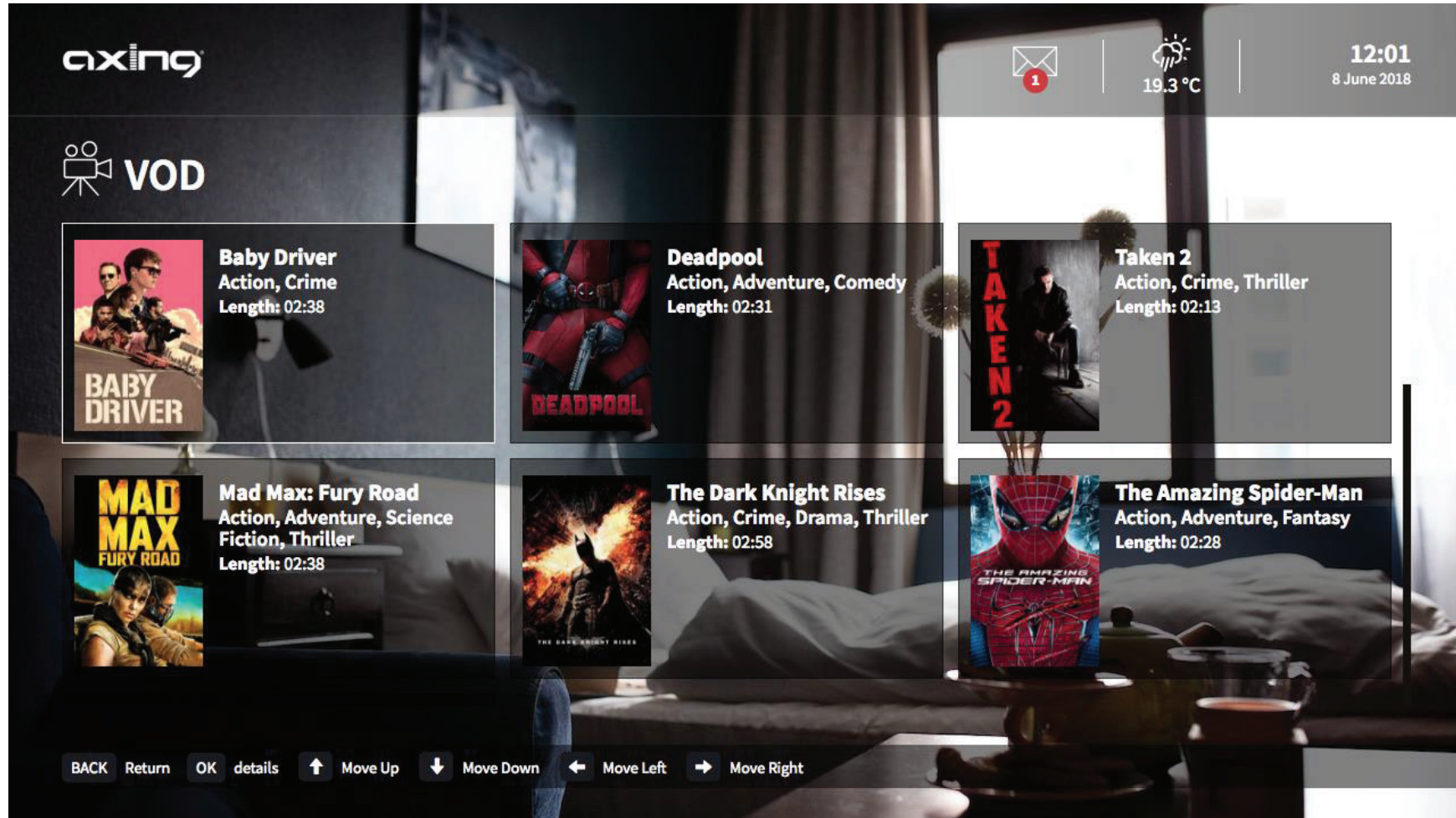


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The screenshot displays an IPTV interface for the movie 'Deadpool'. At the top left is the 'axing' logo. The main title 'Deadpool' is shown with a camera icon and the genres 'Action, Adventure, Comedy'. A smaller thumbnail of the movie is on the left. The main description reads: 'Deadpool tells the origin story of former Special Forces operative turned mercenary Wade Wilson, who after being subjected to a rogue experiment that leaves him with accelerated healing powers, adopts the alter ego Deadpool. Armed with his new abilities and a dark, twisted sense of humor, Deadpool hunts down the man who nearly destroyed his life.' The length is listed as '02:31'. A 'Watch' button is centered at the bottom of the description box. At the very bottom, navigation controls include: BACK, Return, OK, Watch, ← Move Left, → Move Right, ↑ Scroll Up, ↓ Scroll Down. In the top right corner, there are icons for a message (with a '1' notification), weather (19.3 °C), and time (12:00, 8 June 2018).











**axing**

1 19.3 °C 12:01  
8 June 2018

**VOD**

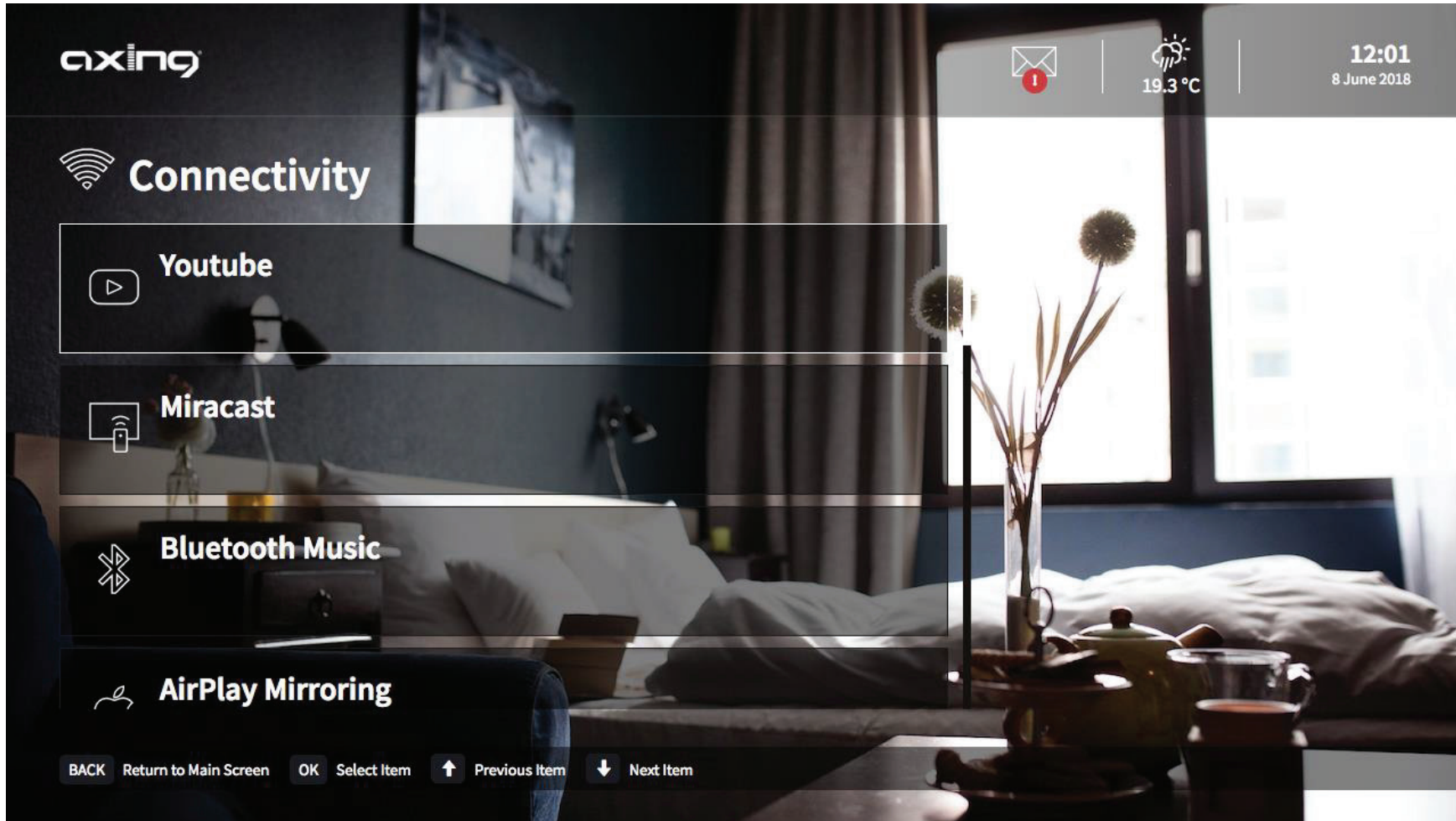
 <b>Baby Driver</b> Action, Crime Length: 02:38	 <b>Deadpool</b> Action, Adventure, Comedy Length: 02:31	 <b>Taken 2</b> Action, Crime, Thriller Length: 02:13
 <b>MAD MAX FURY ROAD</b> Action, Adventure, Science Fiction, Thriller Length: 02:38	 <b>The Dark Knight Rises</b> Action, Crime, Drama, Thriller Length: 02:58	 <b>The Amazing Spider-Man</b> Action, Adventure, Fantasy Length: 02:28

BACK Return OK details ↑ Move Up ↓ Move Down ← Move Left → Move Right

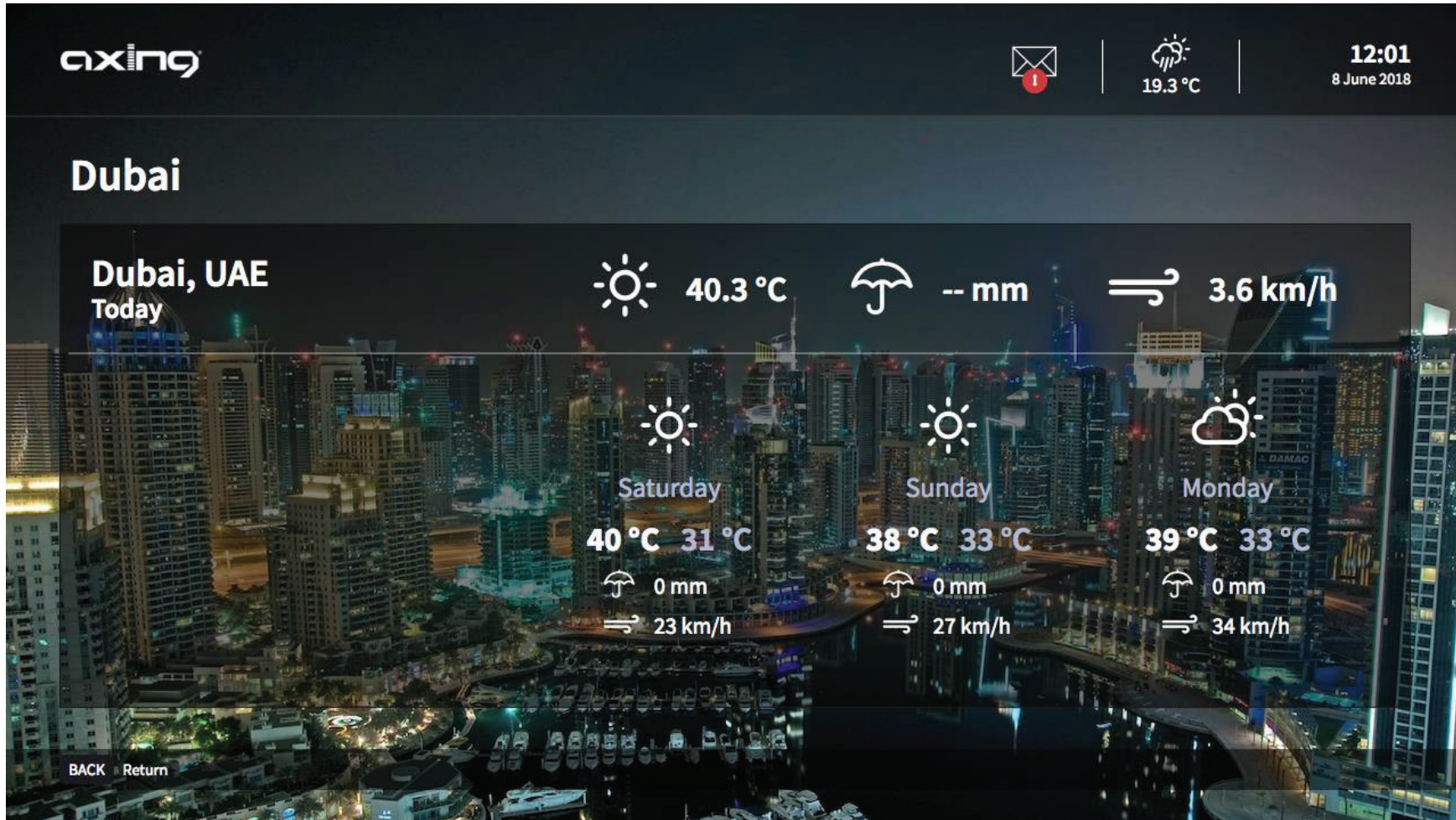




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**axing**   19.3 °C **12:01**  
8 June 2018

## Dubai

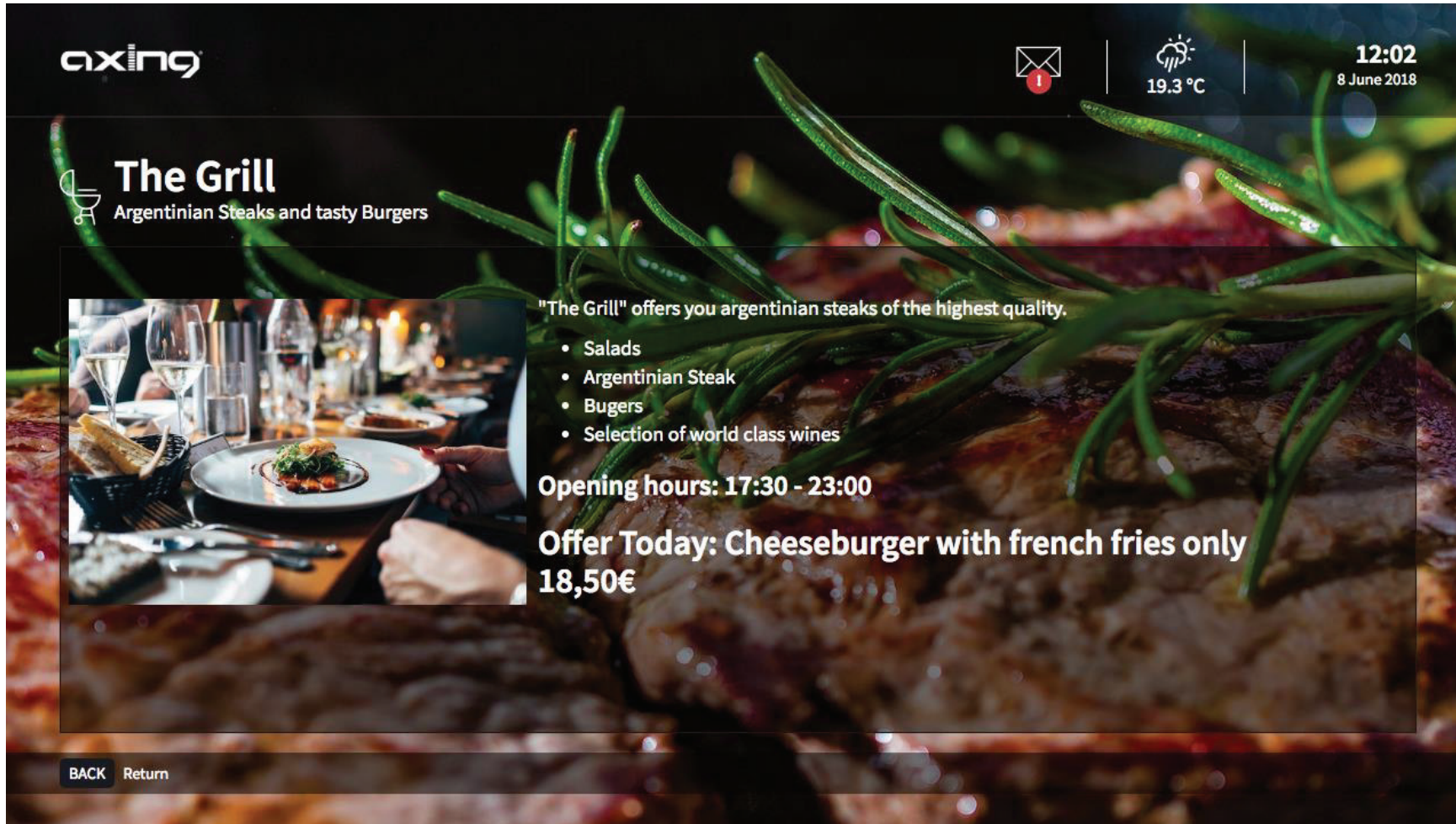
**Dubai, UAE**  
Today  **40.3 °C**  **-- mm**  **3.6 km/h**

Day	Icon	High	Low	Precipitation	Wind
Saturday		40 °C	31 °C	0 mm	23 km/h
Sunday		38 °C	33 °C	0 mm	27 km/h
Monday		39 °C	33 °C	0 mm	34 km/h

BACK Return



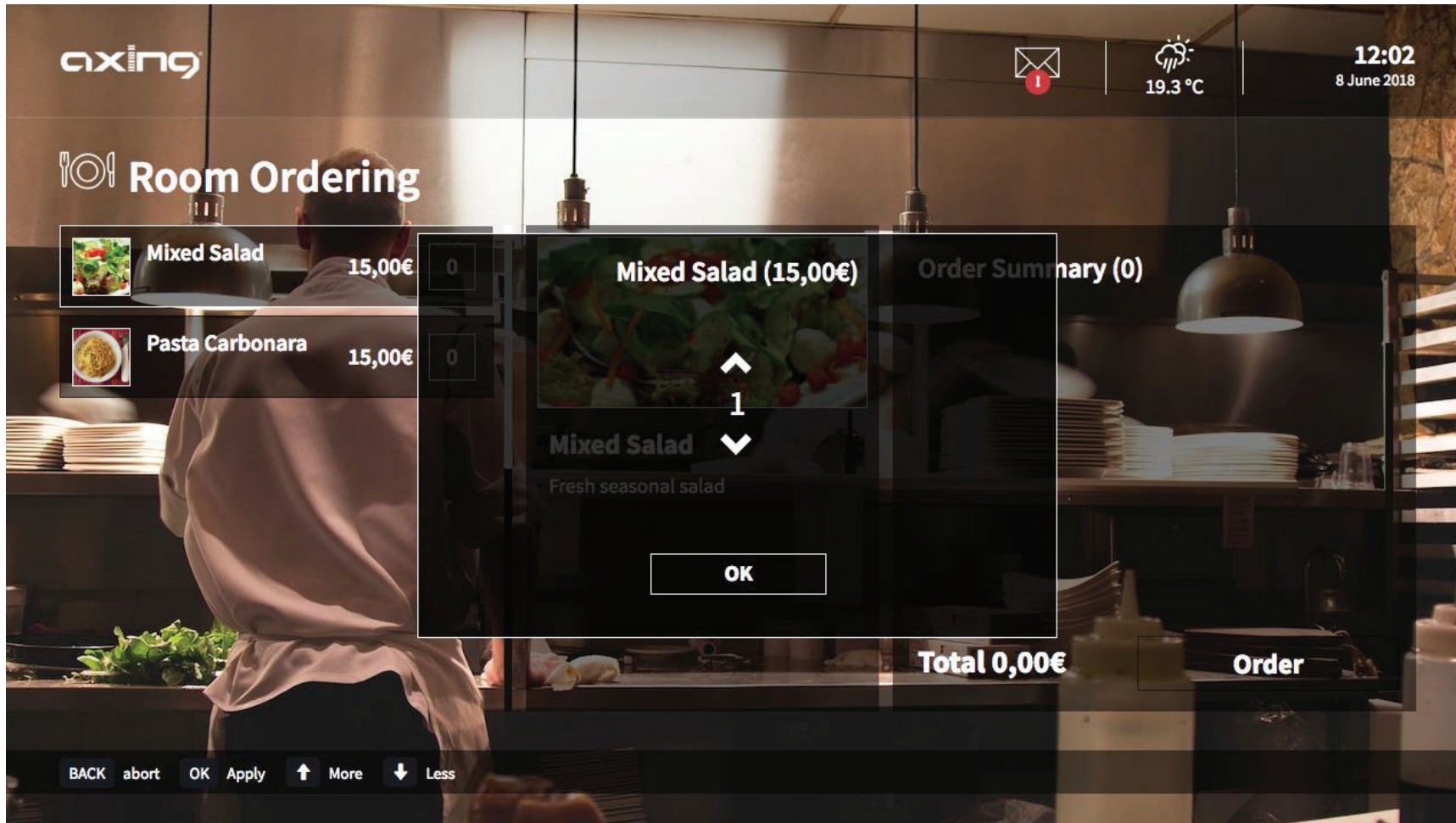
8 THE GREEN, SUITE A, DOVER, DELAWARE, 19901  
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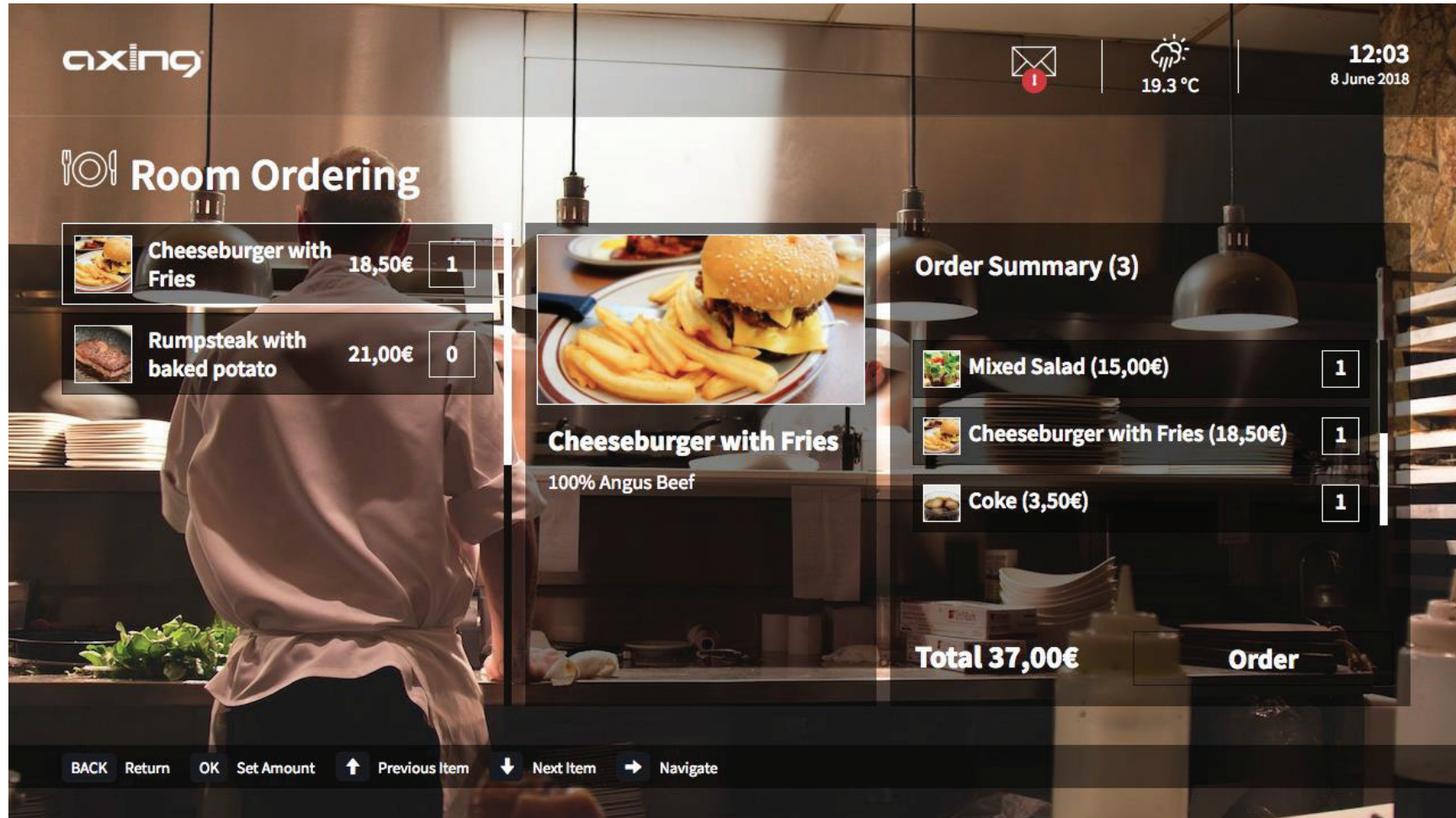
The screenshot shows an IPTV interface for a restaurant named "The Grill". At the top left is the "axing" logo. At the top right, there is a notification icon, a weather icon showing a sun and clouds with "19.3 °C", and a clock showing "12:02" and "8 June 2018". The main content area features a background image of a grill with a rosemary sprig. On the left, there is a smaller inset image of a dining table with a plate of food. The text "The Grill" is prominently displayed, followed by the tagline "Argentinian Steaks and tasty Burgers". Below this, a list of menu items is shown: "The Grill" offers you argentinian steaks of the highest quality. The list includes: Salads, Argentinian Steak, Burgers, and Selection of world class wines. The opening hours are listed as 17:30 - 23:00. A special offer is highlighted: "Offer Today: Cheeseburger with french fries only 18,50€". At the bottom left of the interface, there is a "BACK Return" button.

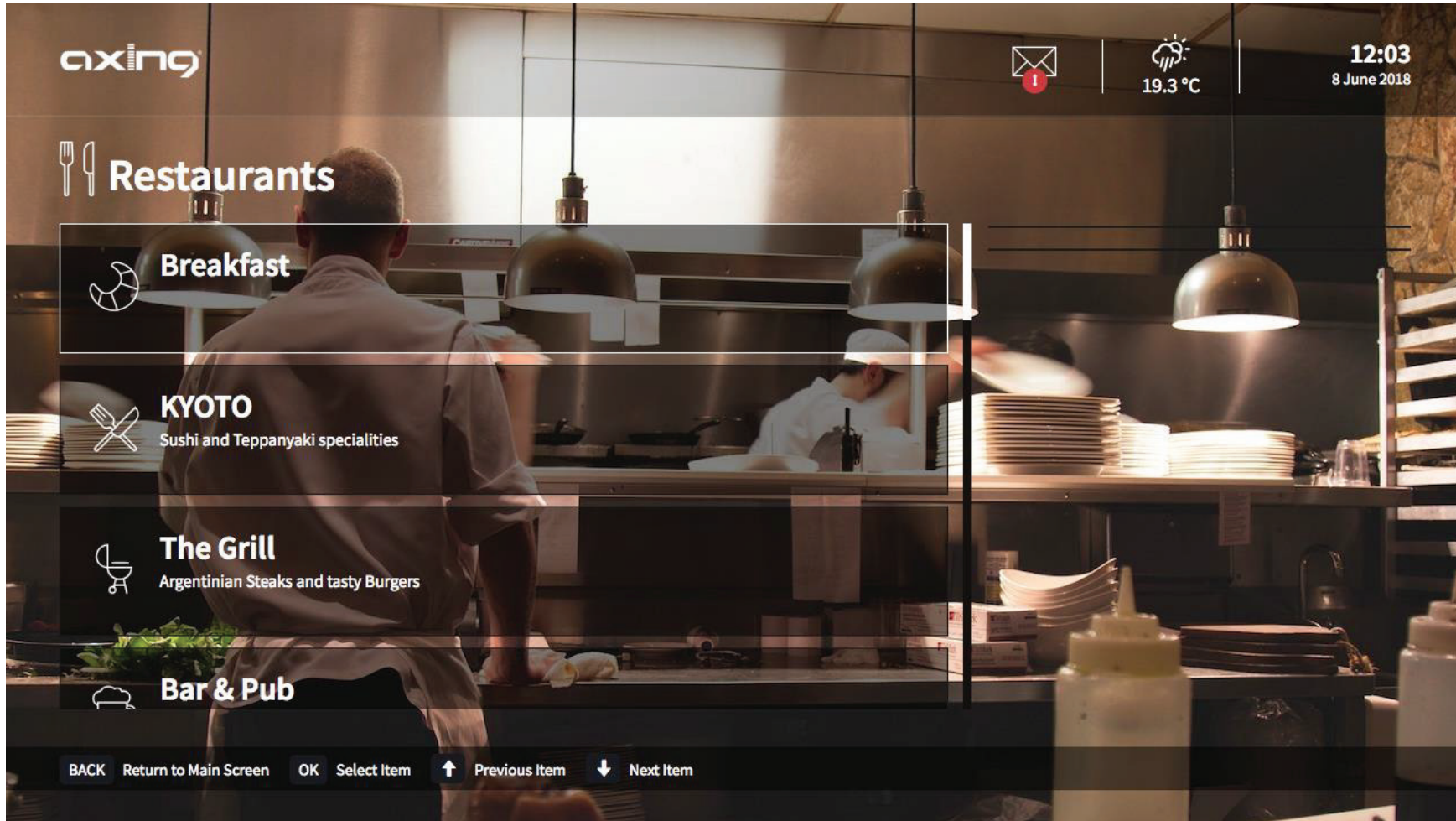


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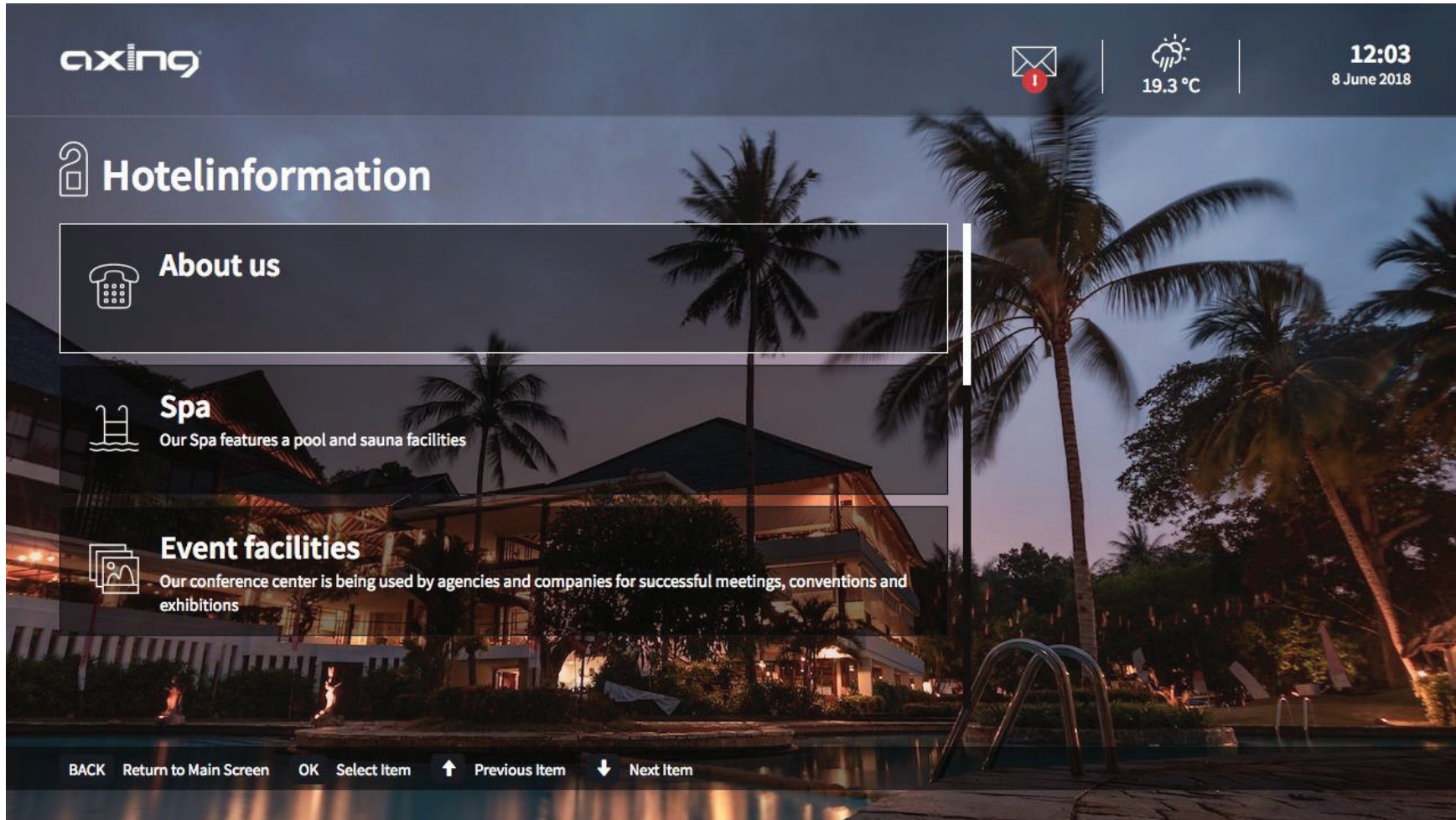


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**axing**

19.3 °C | 12:03 | 8 June 2018

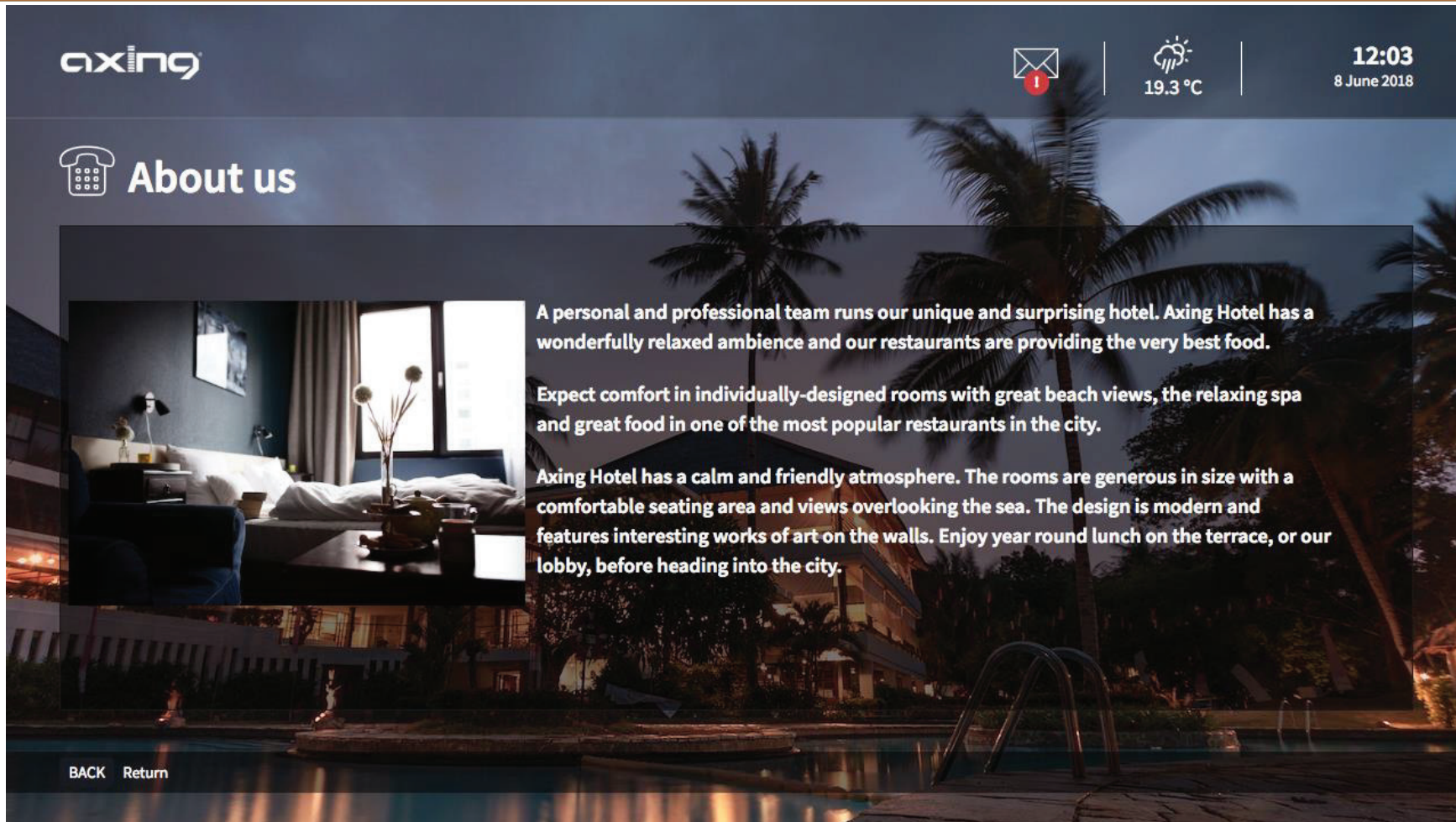
## Hotelinformation

- About us**
- Spa**  
Our Spa features a pool and sauna facilities
- Event facilities**  
Our conference center is being used by agencies and companies for successful meetings, conventions and exhibitions

BACK Return to Main Screen OK Select Item ↑ Previous Item ↓ Next Item




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**axing**

12:03  
8 June 2018

19.3 °C

 **About us**

A personal and professional team runs our unique and surprising hotel. Axing Hotel has a wonderfully relaxed ambience and our restaurants are providing the very best food.

Expect comfort in individually-designed rooms with great beach views, the relaxing spa and great food in one of the most popular restaurants in the city.

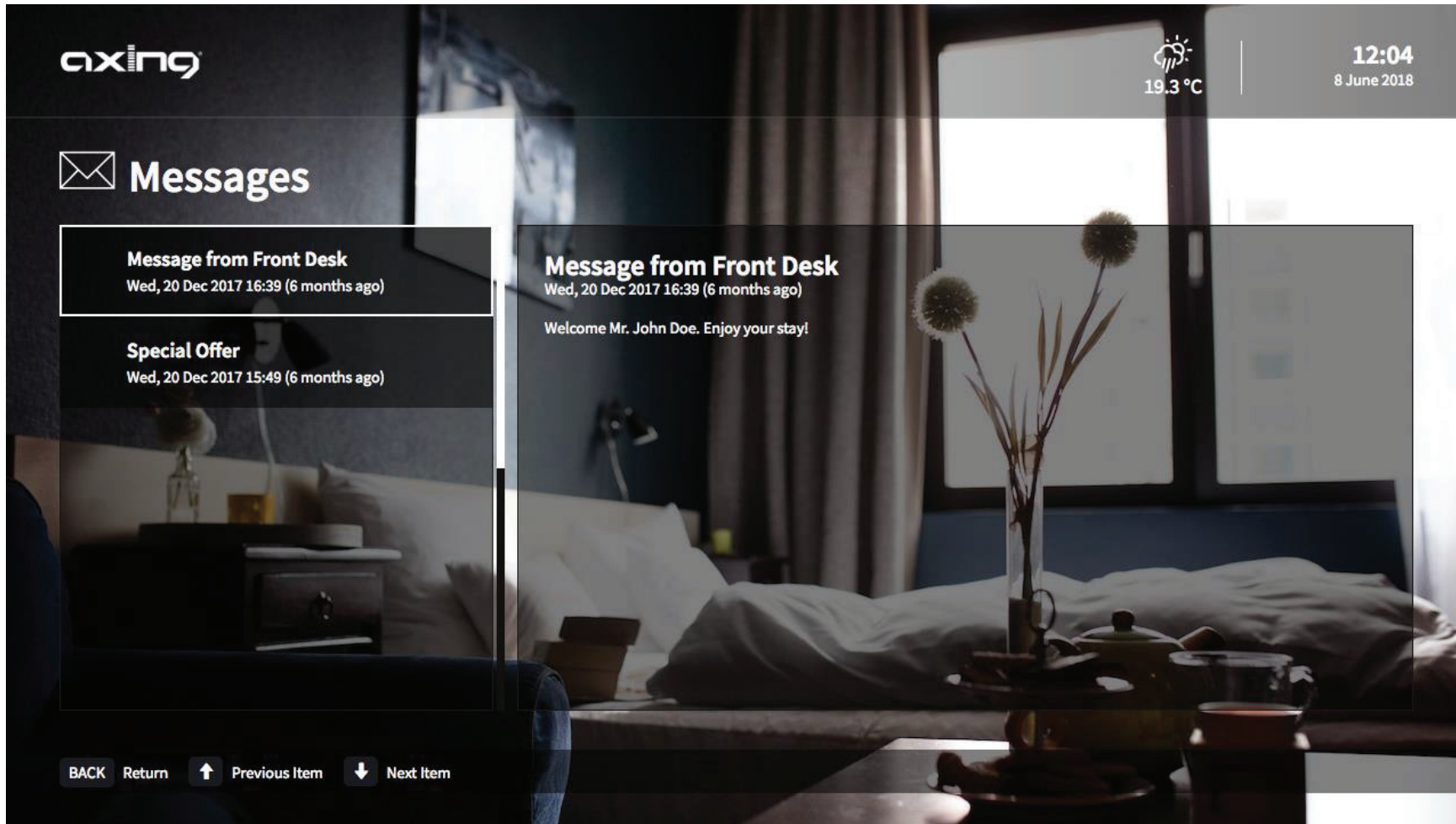
Axing Hotel has a calm and friendly atmosphere. The rooms are generous in size with a comfortable seating area and views overlooking the sea. The design is modern and features interesting works of art on the walls. Enjoy year round lunch on the terrace, or our lobby, before heading into the city.

BACK Return



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The screenshot displays the Axing IPTV interface. At the top left is the 'axing' logo. The top right shows a weather icon with '19.3 °C', the time '12:04', and the date '8 June 2018'. The main content area is titled 'Messages' with an envelope icon. It contains a list of messages:

- Message from Front Desk**  
Wed, 20 Dec 2017 16:39 (6 months ago)
- Special Offer**  
Wed, 20 Dec 2017 15:49 (6 months ago)

The selected message is expanded, showing:


- Message from Front Desk**  
Wed, 20 Dec 2017 16:39 (6 months ago)
- Welcome Mr. John Doe. Enjoy your stay!

At the bottom of the interface are navigation buttons: 'BACK Return', '↑ Previous Item', and '↓ Next Item'. The background of the interface is a dimly lit hotel room with a bed and a table with a teapot.

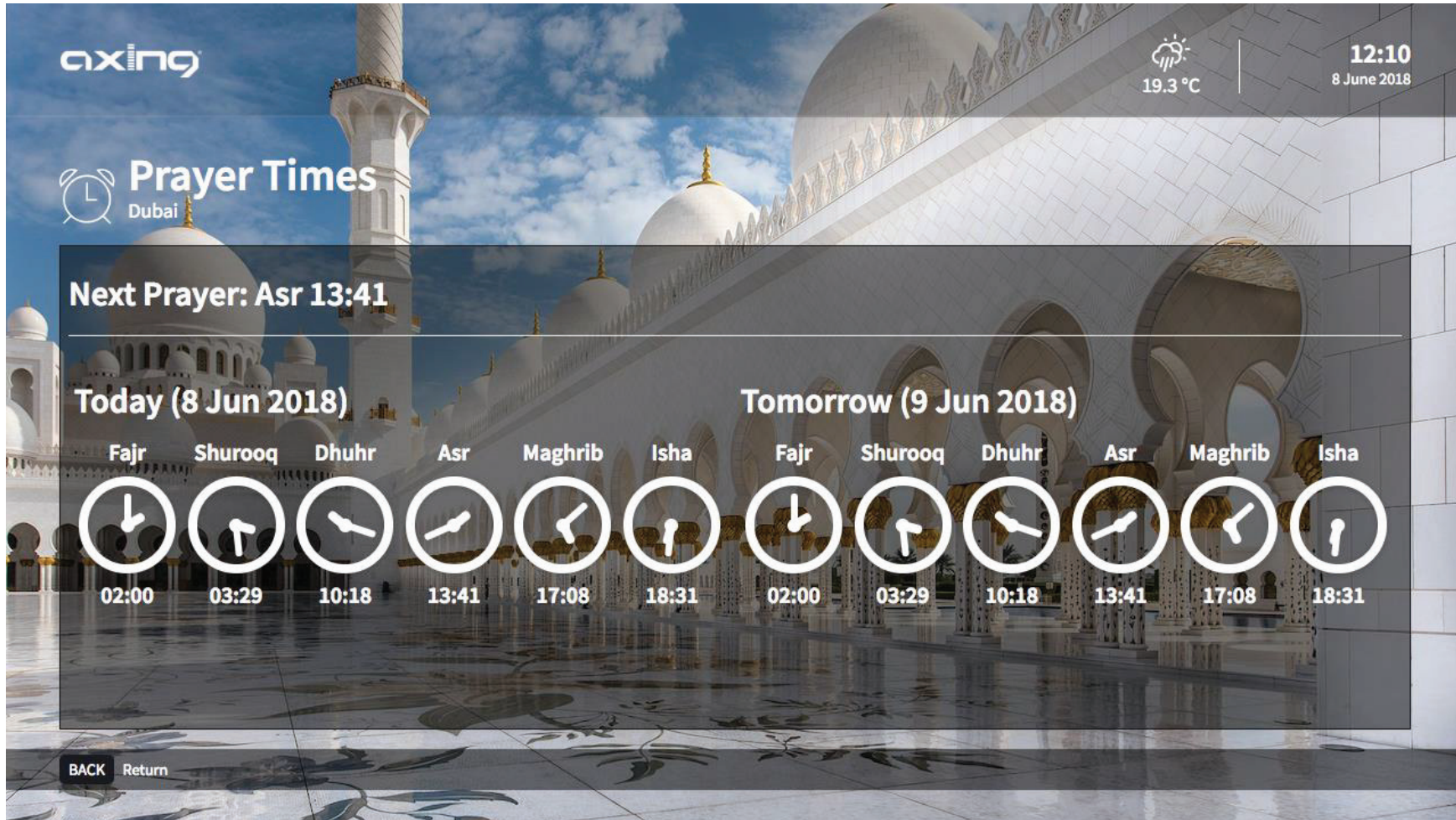


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## Electronic Program Guide 8 June 2018 12:09

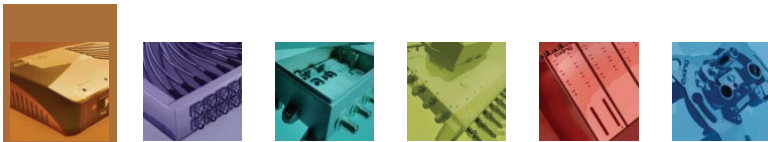
8 June 2018	12:00		13:00
1 Das Erste	Gejagt	Tagesschau	ARD-Bufferet ARD-Mittagsmagazin
2 Arte HD	"animalisch"	Re: Kampf ums Wasser	ARTE Stadt Land Kunst
3 SWR BW	Wissen: Tee - ein Getränk für alle Lebenslagen?	Wer weiß denn sowas?	Meister des Alltags Paarduell
4 ZDF HD	smar	heute	drehscheibe ARD-Mittagsmagazin
5 zdf_neo	New Tricks	Monk	Monk Die
8 June 2018	12:00		13:00
11:15 - 12:15, an hour			
<h3 style="margin: 0;">Planet Wissen: Tee - ein Getränk für alle Lebenslagen?</h3> <p style="margin: 0;">Müde und angestrengt? - Wie wär es mit einem Entspannungstee? Bauchweh? Dann lieber ein Kamillenaufguss! Für die Hipster gibt es teuren Matcha und für die Kids bunten Bubble Tea. Gleich nach Wasser ist Tee in seinen unterschiedlichen Zubereitungsarten das beliebteste Getränk der Welt. Die Versprechungen sind groß: Tee ist gesund und kann helfen Alzheimer zu heilen! Tee kann man aus allem machen und mit Tee kann man nichts falsch machen! Planet Wissen geht diesen Behauptungen nach: Was ist überhaupt Tee, und was ist wirklich dran an seiner behaupteten Wirkung. Zusammen mit der Apothekerin Yvonne Schilling und Tee Tester Henning Schmidt überprüfen wir die Stärken und die Schwächen von Tee.</p>			
			 <p style="margin: 0;"><b>03 SWR BW</b></p>



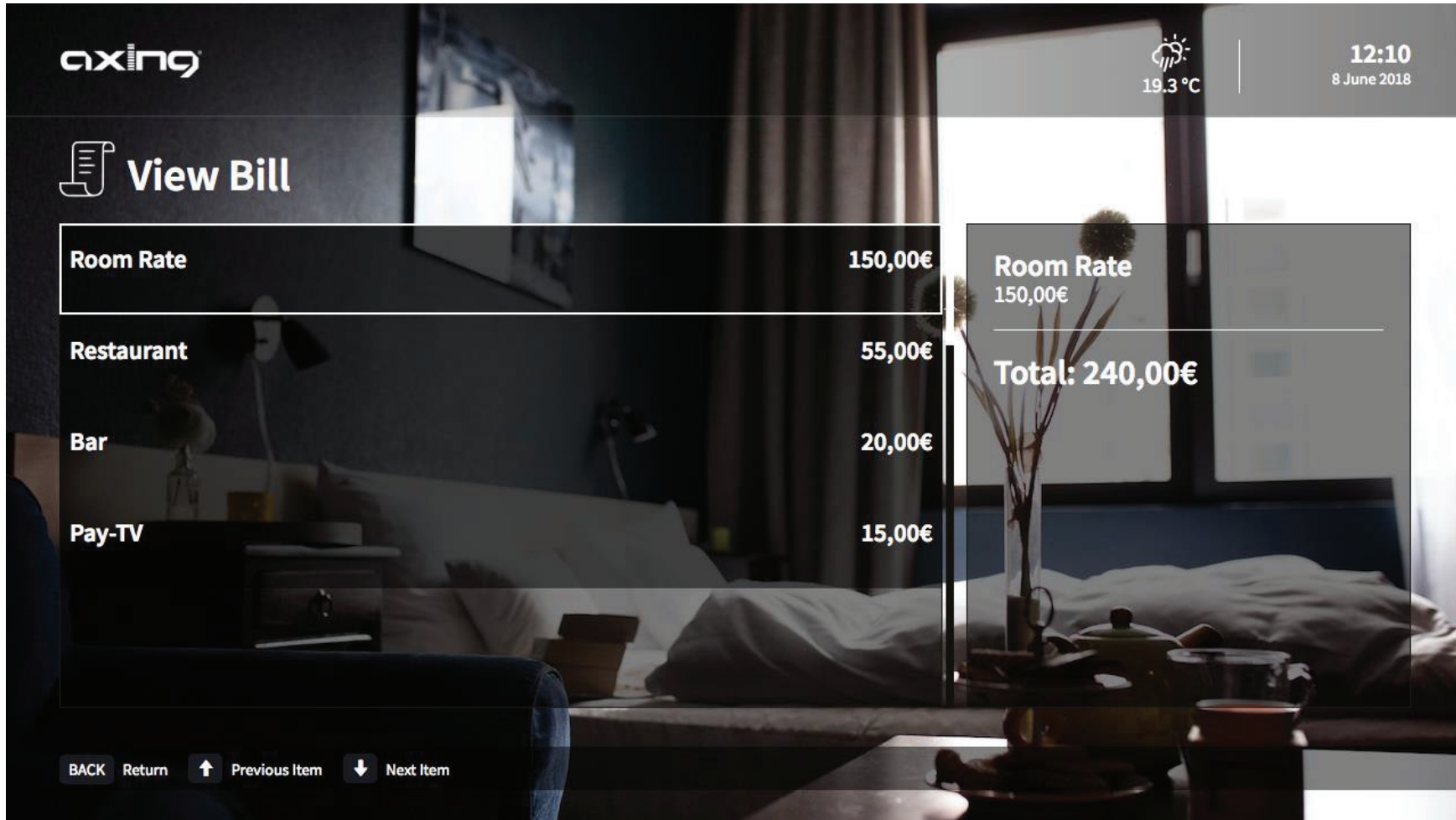


The image shows a screenshot of a prayer times application. At the top left is the 'axing' logo. At the top right, there is a weather icon, the temperature '19.3 °C', and the time '12:10' with the date '8 June 2018'. Below this, the title 'Prayer Times' is displayed with a clock icon and the location 'Dubai'. A prominent notification states 'Next Prayer: Asr 13:41'. The main content is divided into two columns: 'Today (8 Jun 2018)' and 'Tomorrow (9 Jun 2018)'. Each column lists six prayer times with corresponding clock icons: Fajr (02:00), Shurooq (03:29), Dhuhr (10:18), Asr (13:41), Maghrib (17:08), and Isha (18:31). At the bottom left, there is a 'BACK Return' button.

Prayer	Today (8 Jun 2018)	Tomorrow (9 Jun 2018)
Fajr	02:00	02:00
Shurooq	03:29	03:29
Dhuhr	10:18	10:18
Asr	13:41	13:41
Maghrib	17:08	17:08
Isha	18:31	18:31



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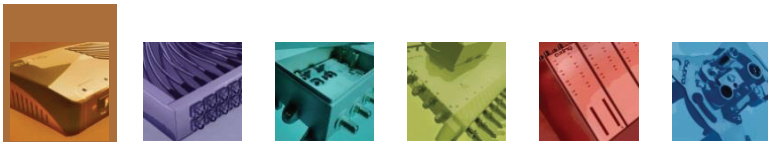
**axing**

19.3 °C | 12:10 | 8 June 2018

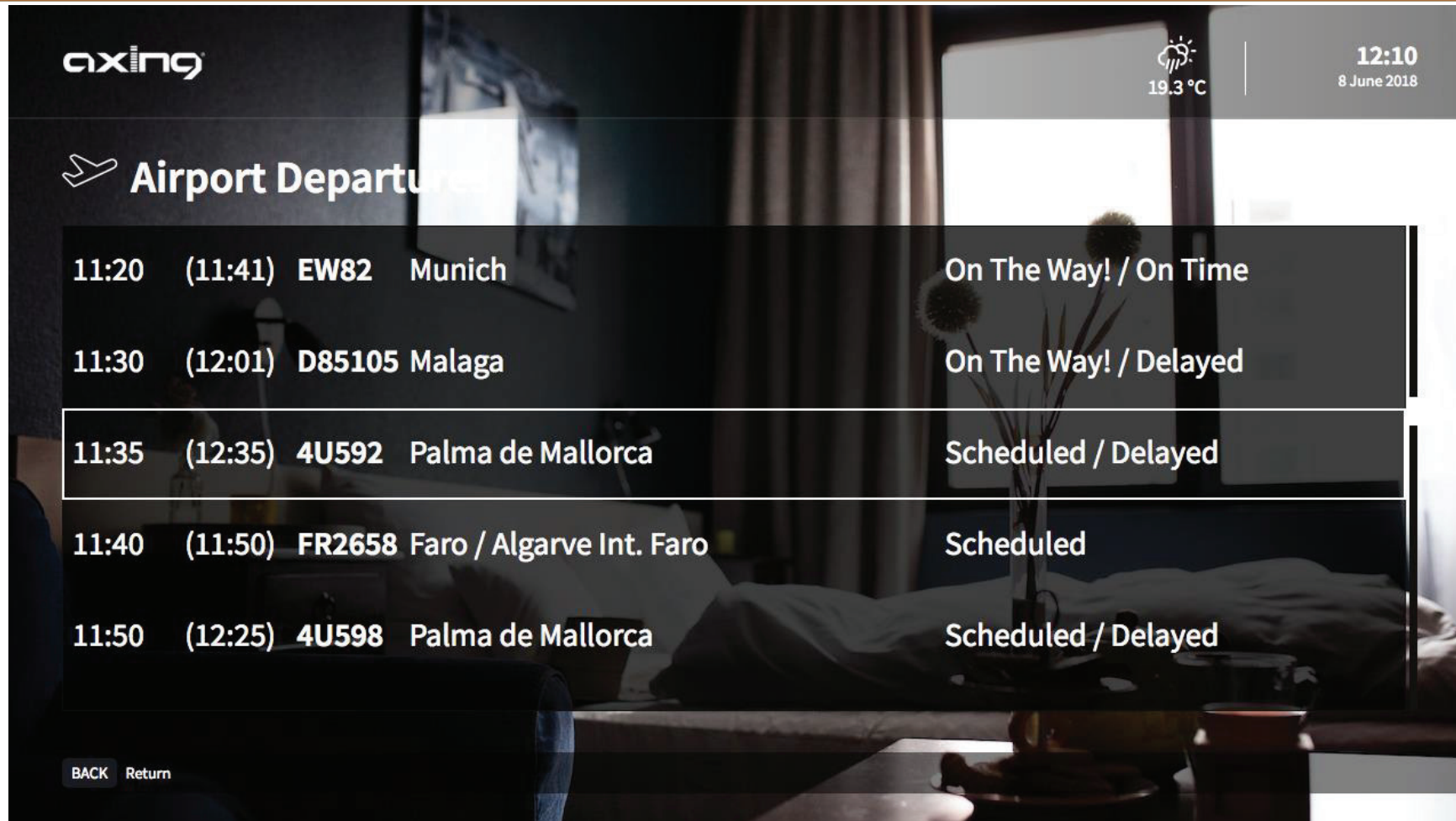
## View Bill

Room Rate	150,00€	Room Rate	150,00€
Restaurant	55,00€	<b>Total: 240,00€</b>	
Bar	20,00€		
Pay-TV	15,00€		

BACK Return ↑ Previous Item ↓ Next Item



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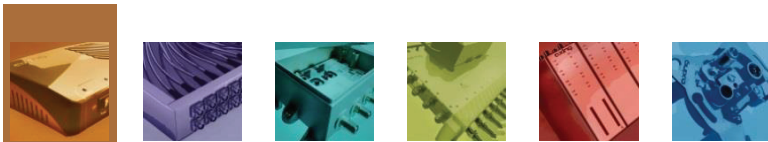
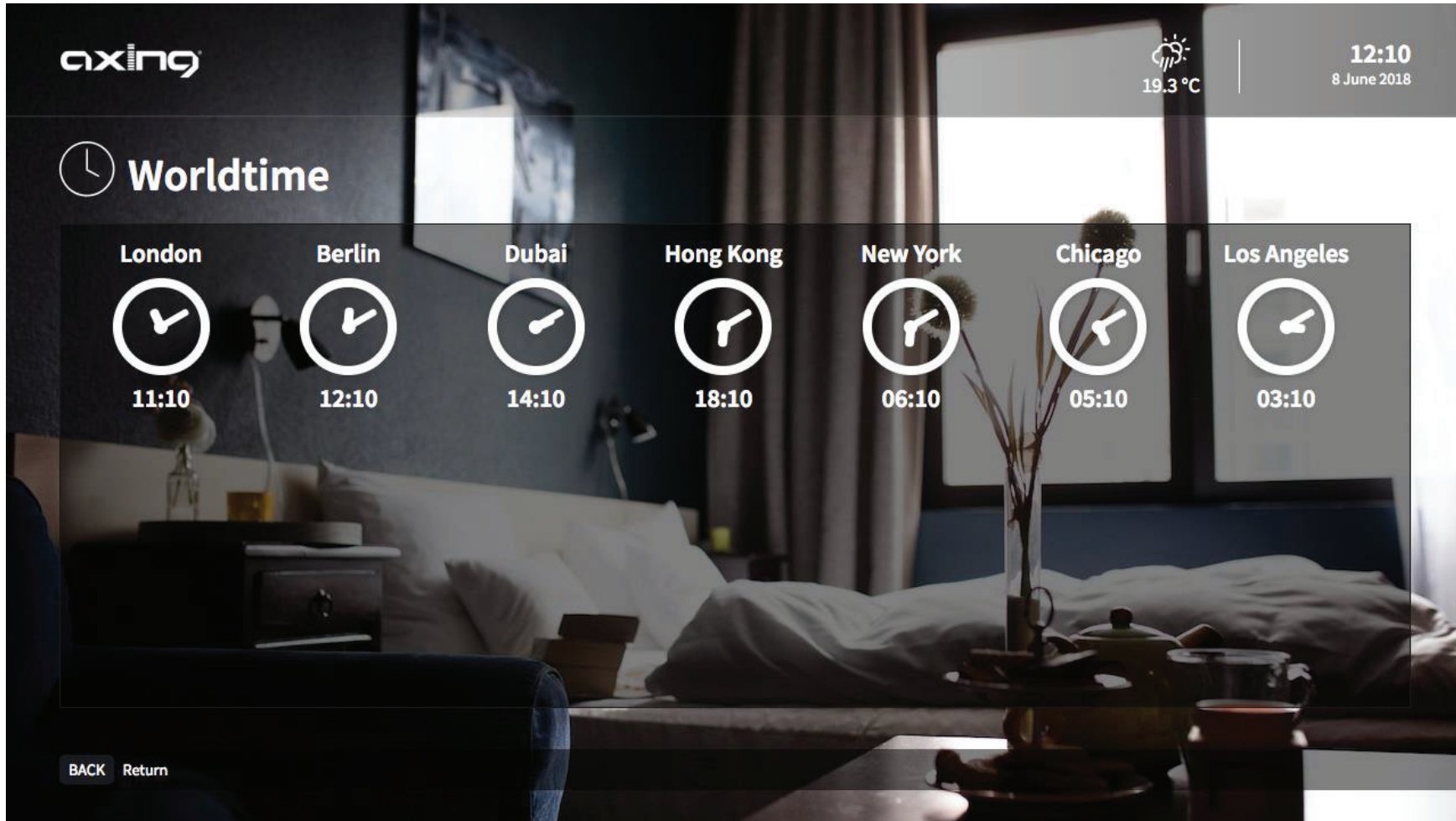
The interface displays a list of flight departures with the following data:

Time	Actual Time	Flight	Destination	Status
11:20	(11:41)	EW82	Munich	On The Way! / On Time
11:30	(12:01)	D85105	Malaga	On The Way! / Delayed
11:35	(12:35)	4U592	Palma de Mallorca	Scheduled / Delayed
11:40	(11:50)	FR2658	Faro / Algarve Int. Faro	Scheduled
11:50	(12:25)	4U598	Palma de Mallorca	Scheduled / Delayed

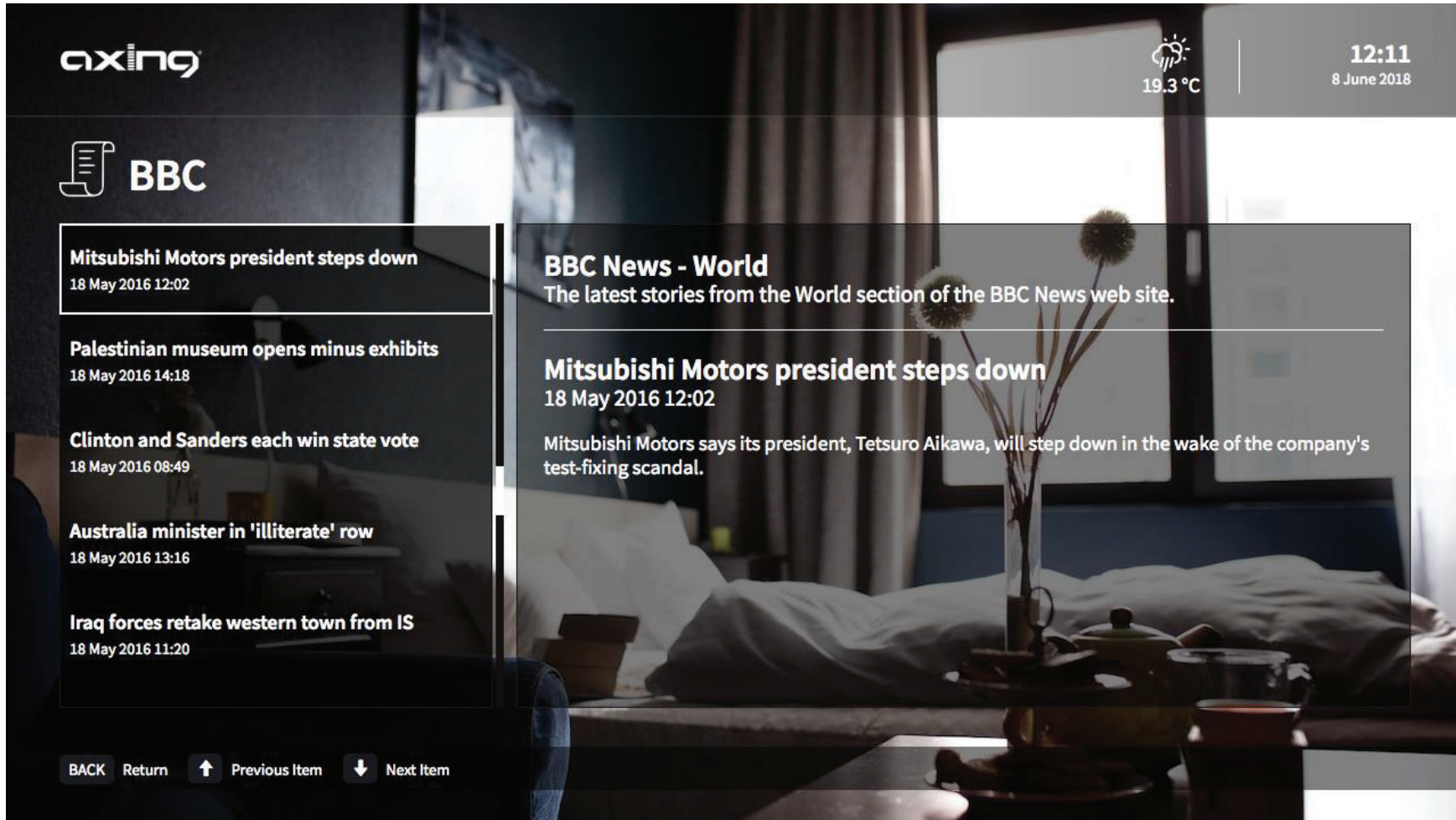
Additional interface elements include the 'axingo' logo, a weather icon showing 19.3°C, the time 12:10 on 8 June 2018, and a 'BACK Return' button at the bottom left.



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**axing**

19.3 °C | 12:11 | 8 June 2018

**BBC**

- Mitsubishi Motors president steps down**  
18 May 2016 12:02
- Palestinian museum opens minus exhibits**  
18 May 2016 14:18
- Clinton and Sanders each win state vote**  
18 May 2016 08:49
- Australia minister in 'illiterate' row**  
18 May 2016 13:16
- Iraq forces retake western town from IS**  
18 May 2016 11:20

**BBC News - World**  
The latest stories from the World section of the BBC News web site.

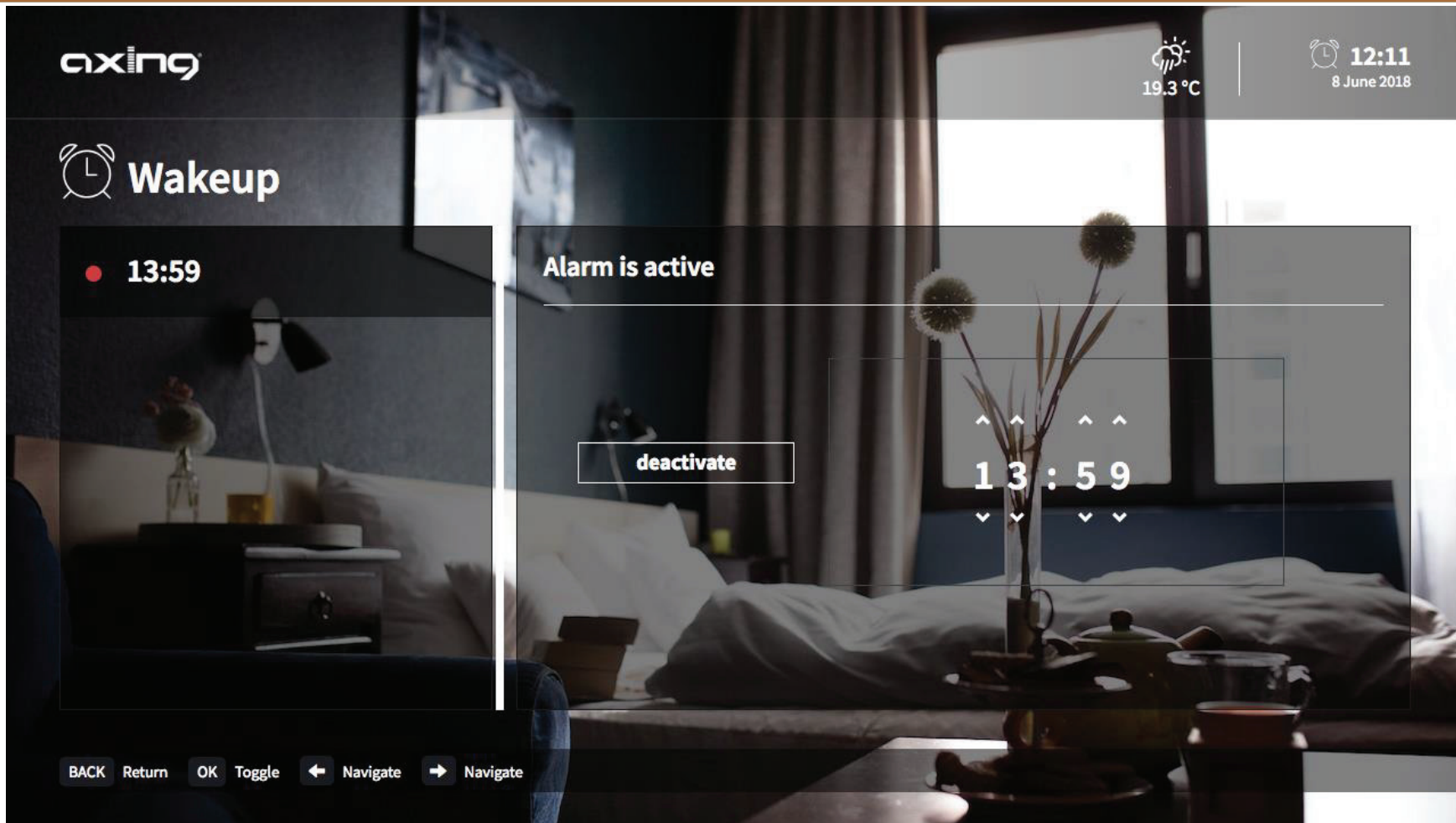
**Mitsubishi Motors president steps down**  
18 May 2016 12:02

Mitsubishi Motors says its president, Tetsuro Aikawa, will step down in the wake of the company's test-fixing scandal.

BACK Return ↑ Previous Item ↓ Next Item



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1  
Das Erste

12:00 12:15

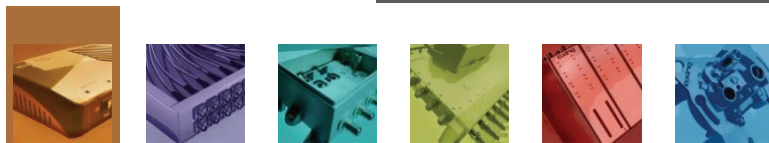
12:08

Tagesschau details

12:15  
ARD-Buffer

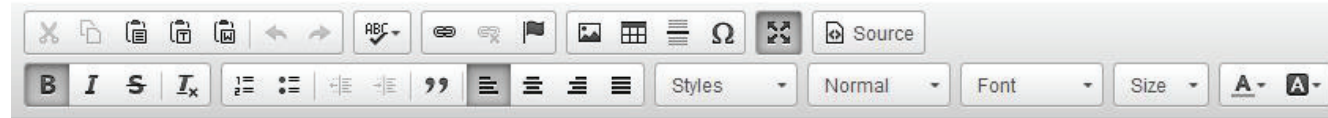
deu ●

CC



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- Easy editor for overlay
- With editor can add text and additional picture
  - Text editor
  - Font type
  - Font family
  - Font size
  - Font color
  - Other functions



Roof Restaurant with excellent food from 6:00 up to 11:30 pm

### Business Lunch

Please choose [here](#) from three daily changing main courses and combine them with soup and dessert

**Monday to Friday**

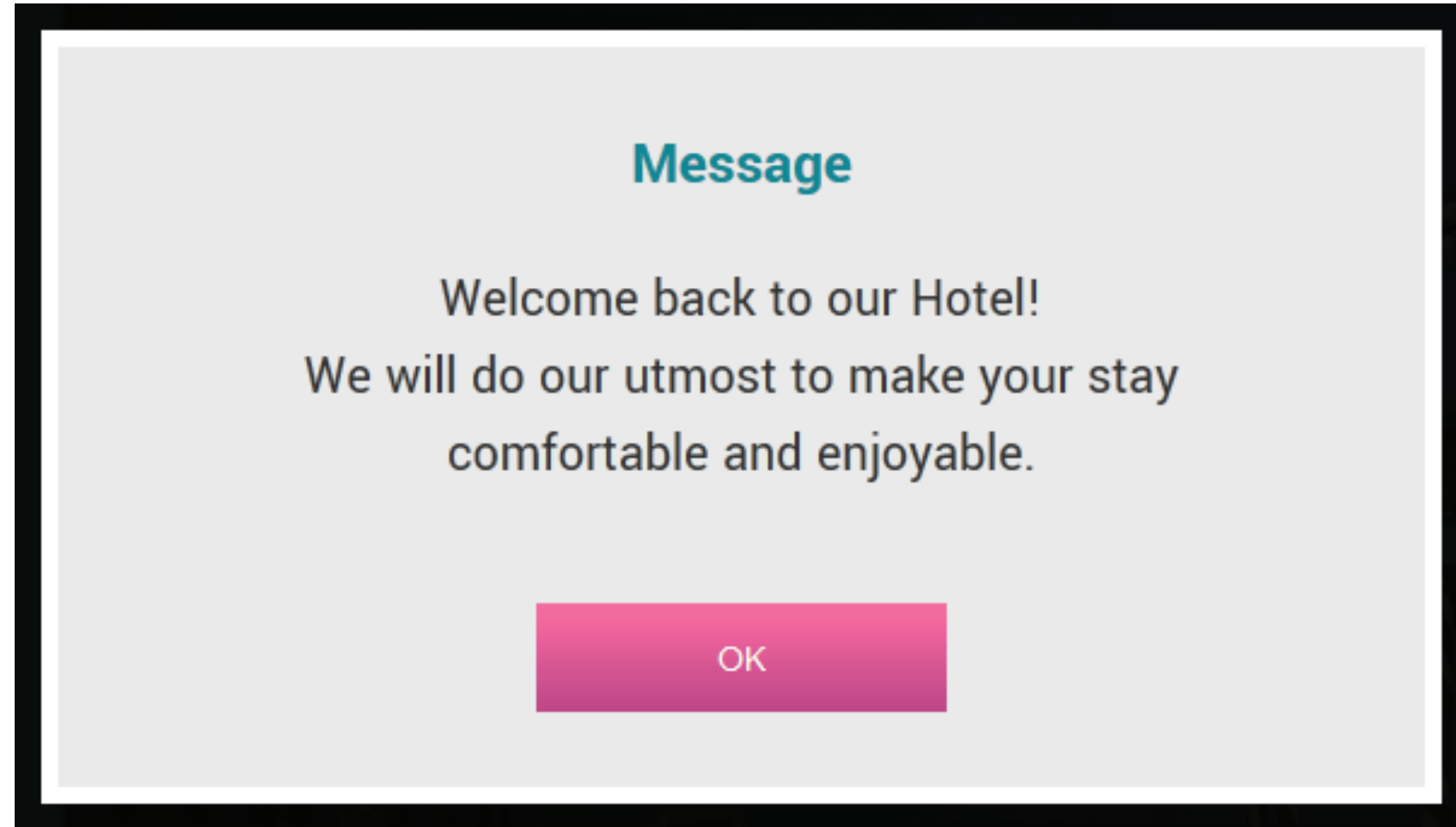
12:00 am up to 2:00 pm.

Weekly new.

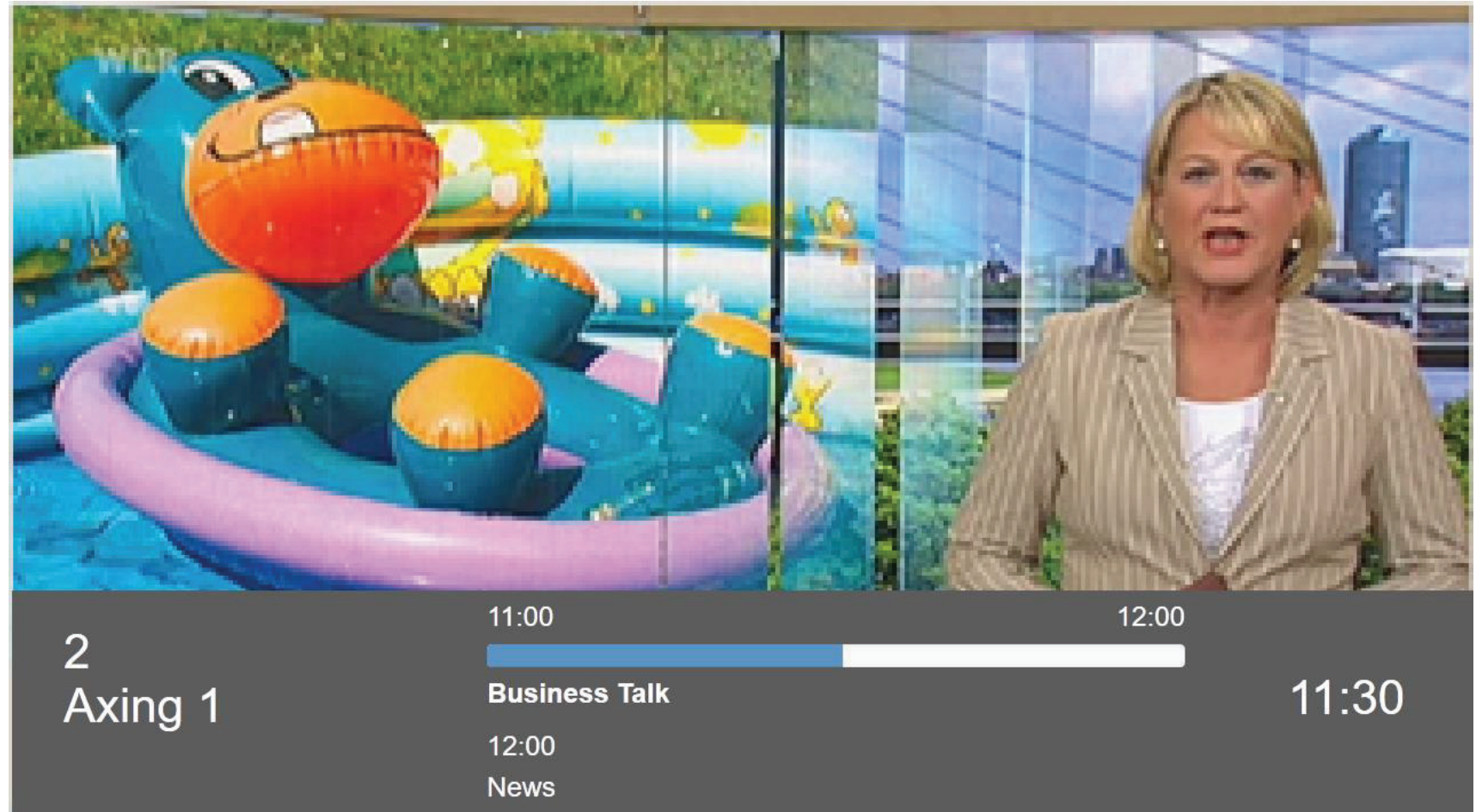
CHF 26,00 pro person for a 2-course meal



- Messages from the front desk to room
- Messages are shown as a pop-up window
- Message via PMS or browser
- Message to
  - One room
  - Group of rooms
  - All (Emergency alarm)
- History of messages



- Live TV
- It is shown the program name with now/next EPG
- Aspect ratio depend of the broadcaster
  - It is possible to stretch a 4:3 picture up to 16:9
  - Zoom the picture
- Automatic adjustment via the channel editor
- Manually adjustment, at each STB has to push a button



- Channel list
- With preview
- Program name and language
- With up, down, left and right is it possible to select service



The screenshot displays an IPTV interface. On the left, a video preview shows a colorful inflatable bear in a pool. On the right, a news anchor is visible. A central channel list menu is open, showing 10 channels with their respective language flags. Below the menu, a program guide for channel 2 (Axing 1) is shown, featuring a progress bar and program titles like 'Business Talk' and 'News' with their start and end times.

Channel	Program Name	Start Time	End Time
01 - Axing 9			
02 - Axing 1			
03 - Axing 7			
04 - Axing 10			
05 - Axing 2			
06 - Axing 3			
07 - Axing 6			
08 - Axing 8			
09 - Axing 11			
10 - Axing 12			

Channel	Program Name	Start Time	End Time
2	Axing 1	11:00	12:00
	Business Talk		11:30
	News	12:00	



- Alarm via PAGA interface
- Automatically switch on TV
- Stop all sessions
- Emergency alarm
- Define groups
- Individual messages
- Signaling via open collector or over IP request

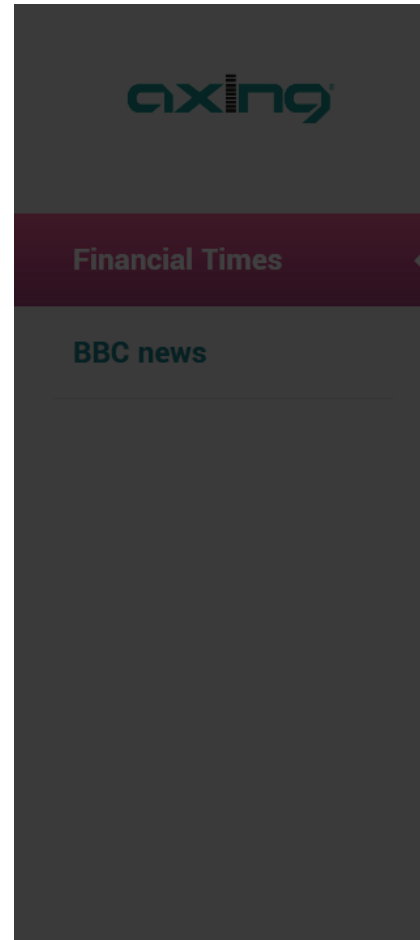
# ALARM

**Bitte verlassen Sie unverzüglich  
das Hotel**

**Please immediately leave the hotel**



- Comfort functions
  - Ordering, like Butler, Housekeeping etc.
  - View bill, express checkout
  - Local information
- RSS feeds
  - News
  - Exchange rate
  - Flight-/Train- schedule
- Weather



## Companies

### Companies

Credit Suisse targets rich Thais

18 May 2016 16:20 Bank's Bangkok push is latest effort to win business from region's growing super-elite

Innovation: not always for profit

Eon and RWE pursue radical restructurings

Statoil and Chevron lead pack in securing Norwegian oil licences

Arm buys imaging specialist Apical as it eyes 'internet of things'

Editors at Russia's RBC media group sacked after Putin article

VW's board needs to look in the mirror

Nike to score big with £600m Chelsea kit deal

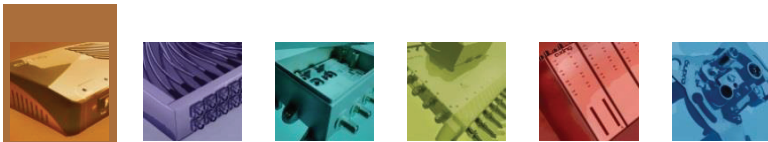
Pandora Media: sounds like a sale

Trump taps donors, Japan rebounds and a rubbish idea



# Conclusion

- Comfortable TV-/ Radio-programs
- TV-/ Radio-programs sorted by language / genre
- IPTV allows internal communication-services
- Language selection inside the menu
- User-friendly and future proof
- Personalized TV – On demand services
- Easy handling for hotel staff
- Comfort functions
  - Full EPG
  - Ordering, like Butler, Housekeeping etc.
  - View bill, express checkout
- Local information
  - RSS feeds, Weather, exchange rate, Flight-/Train- schedule
- Advertisement as pop-up or ticker





# References



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