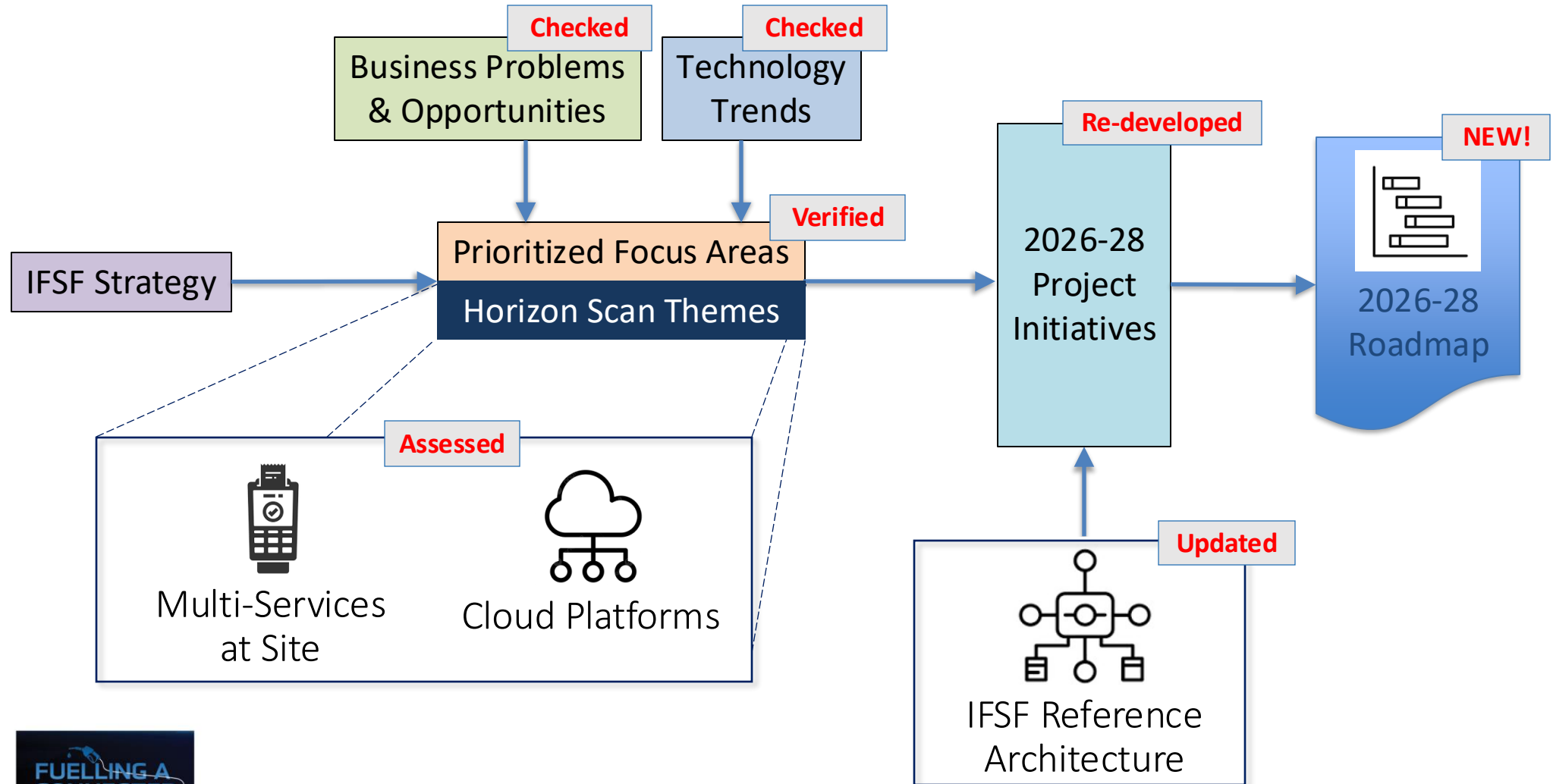




IFSF Reference Architecture, Horizon Scans and Roadmap

Jon Thompson
Strategy Manager
IFSF

Strategy-to-Implementation Process



Horizon Scans & Reference Architecture



2025 CONFERENCE





Horizon Scan – Multi-Services at Site

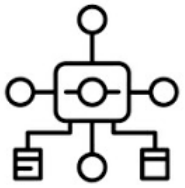


Observations

- Site ecosystem is diversifying with more parties involved
- POS solutions are evolving to handle a broader set of mixed transactions across services
- A site-wide sales performance view is key to future success
- Retailers need to share data about services with customers

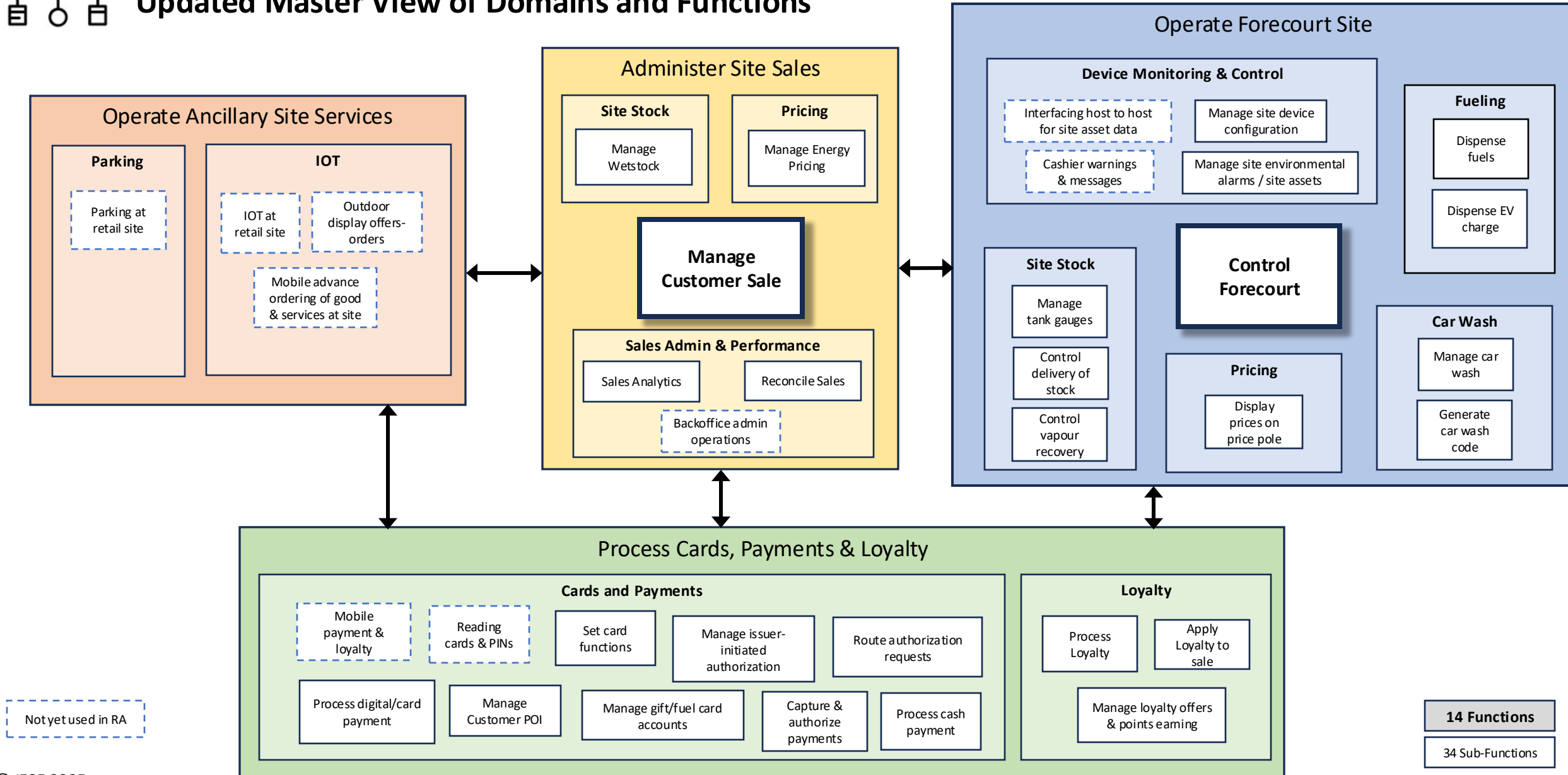
Implications for IFSF

- Create a white paper detailing requirements for reservations and advance ordering
- Define standard requirements to share site facilities data
- Update payment standards for kiosk and vending machines
- Update reference architecture to include Value-Added Services



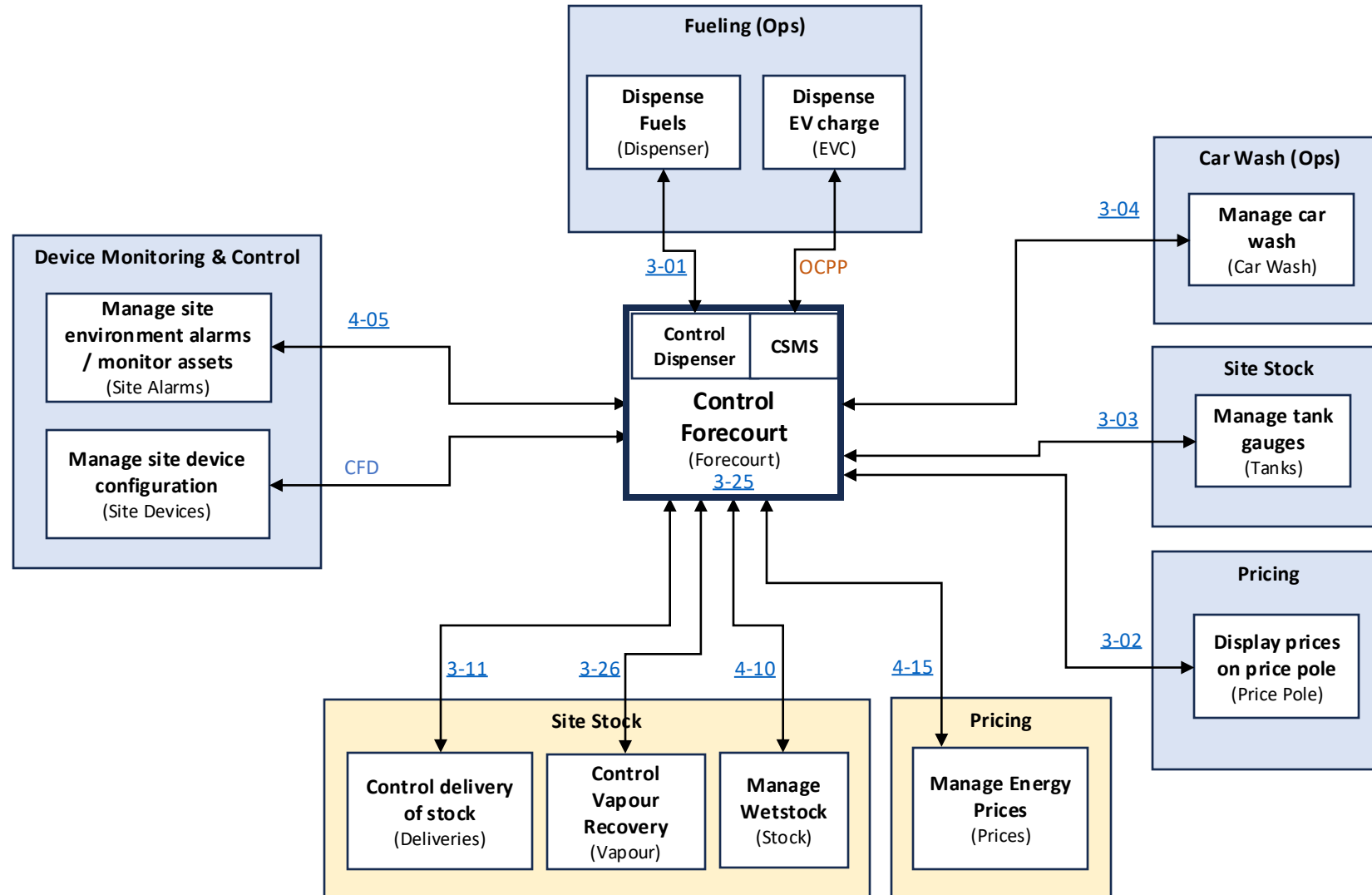
IFS Reference Architecture – Today

Updated Master View of Domains and Functions



IFSF Reference Architecture

Logical View of Forecourt Operational Functions (with Technology & Standards Overlay)



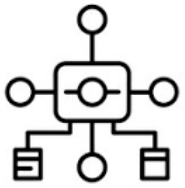
Click to overlay
Technologies

Click to overlay
Standards

Click to overlay
Software Tools

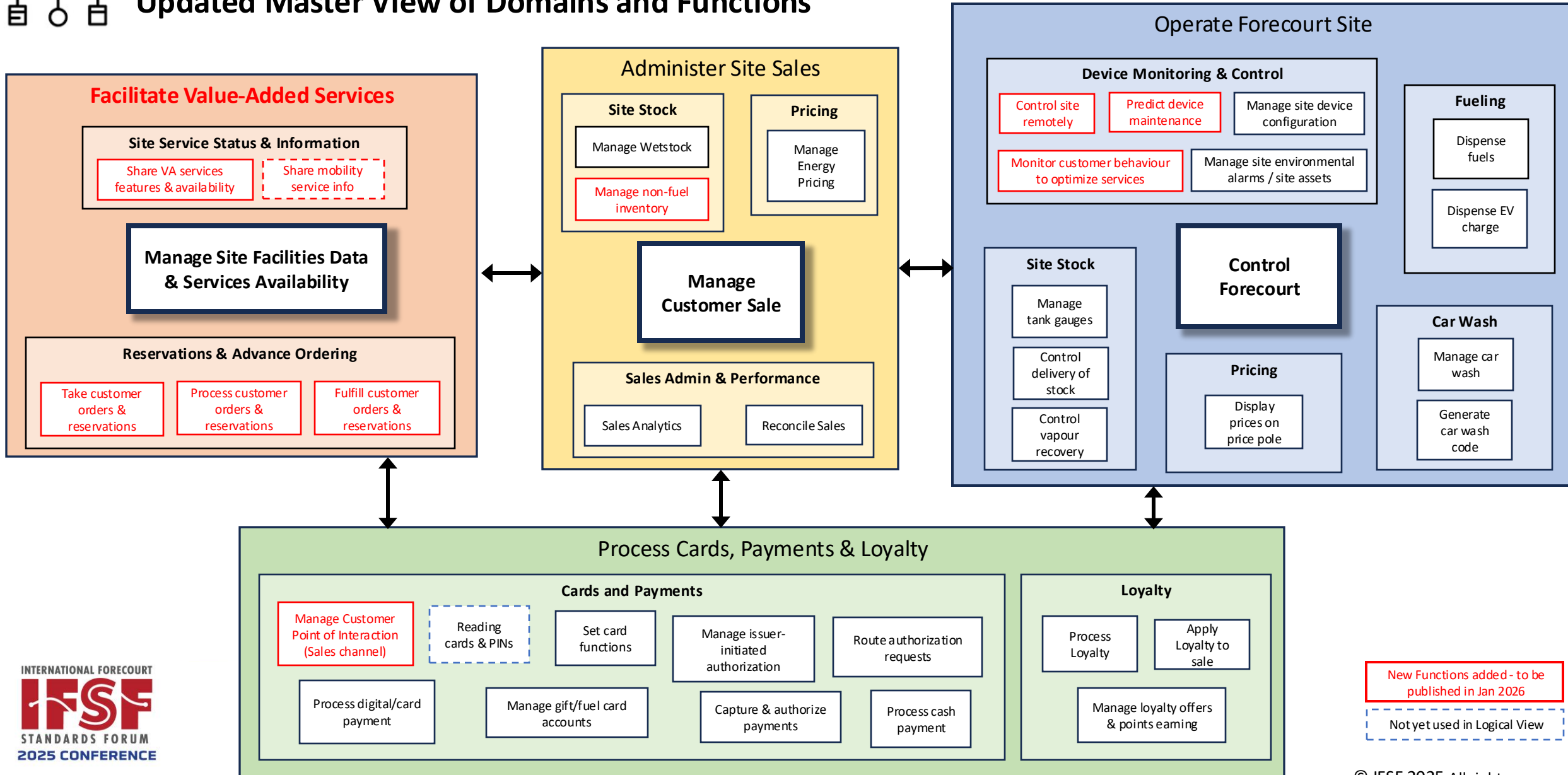
Click to overlay
Roadmap 2025

Click to return
to Master View



IFSF Reference Architecture – Proposed Updates

Updated Master View of Domains and Functions





Horizon Scan – Cloud Platforms



Observations

- “Standards do not change; the transport mechanism does”
- Modern integration methods are needed as a pre-requisite for cloud solution adoption
- Cloud good for interoperability, integrating multi-services and unmanned sites
- Care for critical ops security

Implications for IFSF

- Extend capabilities of Mobile Payment API standard to further exploit cloud services
- Evaluate Conexus’ PARA standard for cloud-based sales performance system integration
- Investigate integration requirements for predictive site maintenance cloud solutions

Roadmap 2025

Progress vs Plan



2025 CONFERENCE





IFSF Roadmap 2025-27

Issue date: 01/01/25

Focus Areas		2025	2026	2027
Data	Data Dictionary	4195 Add DD Report Views	301 Improve process for new DD elements	312 Dictionary health check
	Enterprise Data Mgt	305 Implement DD AI Search	319 DD Data Model	313 Consumer behaviour analysis
	Security & Identity	4196 Fuels Pricing APIs	314 Site Regulatory Reporting	
		302 Enhance Sales Transaction APIs	311 Consumer Authentication	
Alt-Fuel	EV Charging	316 EV Charging Payment Processes		
	Hydrogen	317 EV Pricing	308 H2 Wetstock Mgt	
Payment	Payments & Loyalty	324 Incremental payment authorizations		
	OEM In-Car Payments	4203 Telecom Security	201 Explore In-Car payments & loyalty	
Mobility	Mobile Experience	307 MPPA mobile standard v2.0 updates	323 Explore In-Car Services at Site	
	Reservation Services	207 Advanced Shop Goods Orders	206 Manage H2/EV/Parking Reservations	
APIs	API Test Tools	4187 Develop API simulators	322 Develop Mobile v2.0 test simulator	
	API Conversions	326 API Tool Launch	101 Open loop payment API	
		318 Develop API Certification Tool		
		4177 Car Wash APIs		
		4204 Wetstock Mgt APIs		
		4205 Forecourt APIs		
		325 LON API Converter		
Communications		4201 IFSF website update	Scan 2026	Scan/Roadmap
		321 Enhance Ref Arch	Roadmap Refresh	



IFSF Roadmap 2025 – Progress vs Plan

Status: 06/11/25

Focus Areas			2025	2025 NEW
Data	Data Dictionary	H	4195 Add DD Report Views 305 Implement DD AI Search	4195 DD Reports Scoping 4209 DD Field Descriptions
	Enterprise Data Mgt	H	4196 Fuels Pricing APIs 302 Enhance Sales Transaction APIs	314 Site Regulatory Reporting
	Security & Identity	H		4224 Closed Loop API Security
Alt-Fuel	EV Charging	H	316 EV Charging Payment Processes 317 EV Pricing	
	Hydrogen	L		
Payment	Payments & Loyalty	H	324 Incremental payment authorizations 4203 Telecom Security 309 Implement Fuel Card Trx 2FA	4219 Closed Loop API Updates
	OEM In-Car Payments	M	201 Explore In-Car payments & loyalty	
Mobility	Mobile Experience	H	307 MPPA mobile standard v2.0 updates	
	Reservation Services	M	207 Advanced Shop Goods Orders	
APIs	API Test Tools	H	4187 Develop API simulators 326 API Tool Launch 318 API Certification Tool Planning	
	API Conversions	M	4177 Car Wash APIs 4204 Wetstock Mgt APIs 4189 Forecourt APIs 325 LON API Converter	
Communications			4201 IFSF website update 321 Enhance Ref Arch Scan 2025 Roadmap Refresh	

Complete
Partial/Nearing Completion
In Progress
Not started/Deferred

- 23 initiatives scheduled to complete in 2025, with an additional 5 added during the year
- 68% complete or nearing completion; 18% in progress; 14% not started/deferred

API Simulator Tools – Now Available to Purchase



Simulators

Home » Test Tools » Simulators

Basket

No products in the basket.

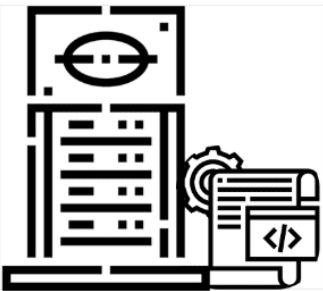
TYPE

- ☐ CarWash(CW)
- ☐ Dispenser (DSP)
- ☐ POS-EPS v1
- ☒ PricePole (PP)
- ☒ Tank Level Gauge (TLG)

Reset

Select All

Default sorting ▾

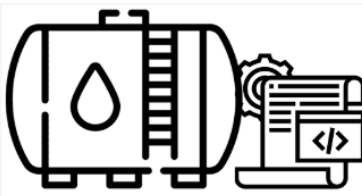


API Price Pole Simulator v1.0

Simulates the API responses from a price pole

£1,000.00

Add to basket



API Tank Gauge Simulator v1.0

Simulates the API responses from a tank gauge

£1,000.00

Add to basket



Controlling Device Simulator v1.0

Simulates the API responses from a controlling device for DSP/TLG/PP/CW

£1,500.00

Add to basket

Roadmap 2026-28



2025 CONFERENCE





IFSF Roadmap Refresh – Main Themes from 2025 Research

Business Problems & Opportunities

- Rising importance of customer convenience including access to site facilities information
- Sales performance tracking in response to margin pressures and multi-services at site
- EU Data Act (active Sep 2025) regulating fair access to data

Technology Trends

- Digitalization, enabling new customer engagement methods such as subscription
- AI cloud optimization platforms, driving price optimization and more reliable site operations
- Continued growth of mobile and the need to secure all types of energy transactions

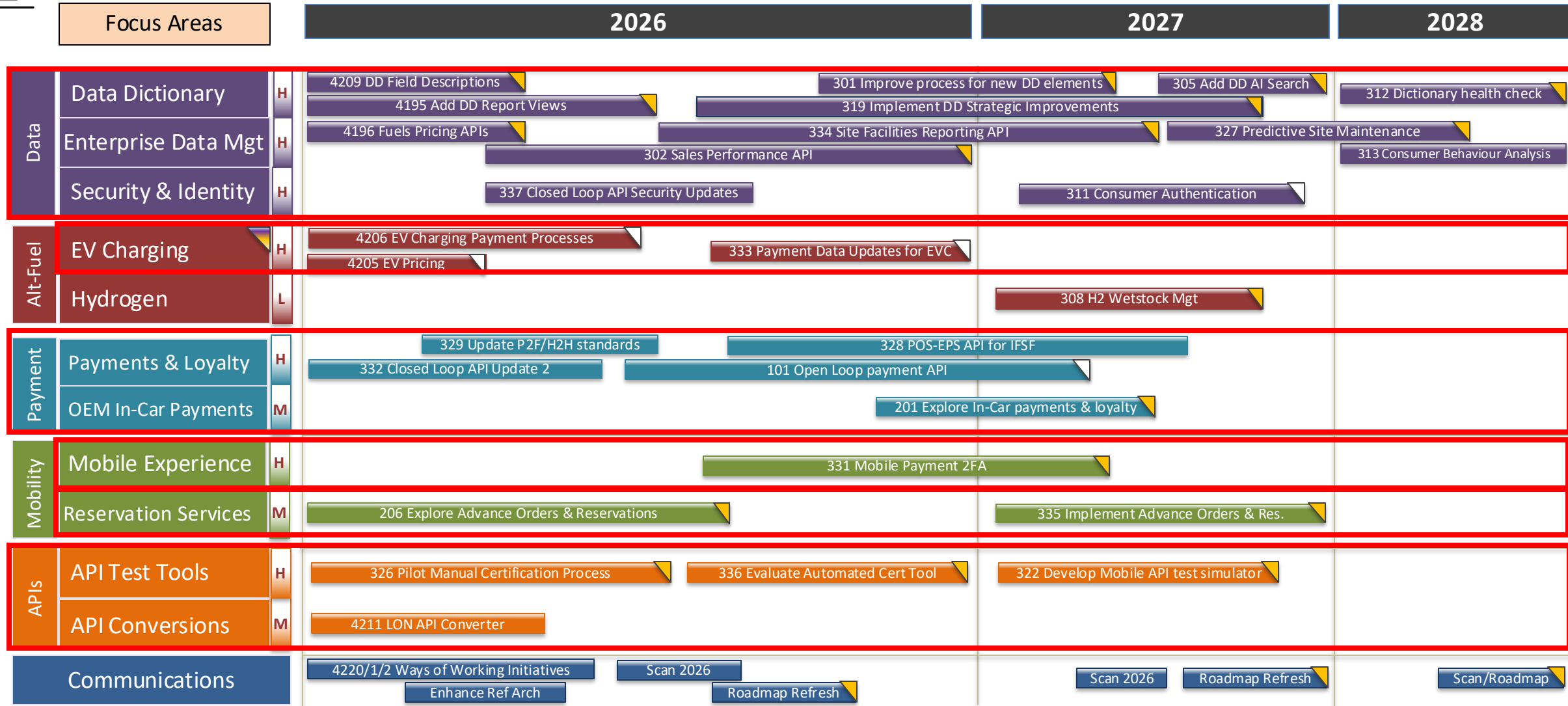
IFSF Member Services Improvements

- Re-focusing the Data Dictionary inline with member's needs to drive usage and value
- Conversion to modern API standards while offering solutions to migration challenges
- API simulators and certification tools



IFSF Roadmap 2026-28 – Proposed

Issue date: 01/01/26





IFSF Roadmap 2026-28 – Horizon Scan Rec's

Issue date: 01/01/26

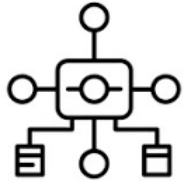
Focus Areas		2026	2027	2028
Data	Data Dictionary	4209 DD Field Descriptions	301 Improve process for new DD elements	305 Add DD AI Search
	Enterprise Data Mgt	4195 Add DD Report Views	319 Implement DD Strategic Improvements	312 Dictionary health check
	Security & Identity	4196 Fuels Pricing APIs	334 Site Facilities Reporting API	327 Predictive Site Maintenance
		302 Sales Performance API		313 Consumer Behaviour Analysis
		337 Closed Loop API Security Updates	311 Consumer Authentication	
Alt-Fuel	EV Charging	4206 EV Charging Payment Processes	333 Payment Data Updates for EVC	
	Hydrogen	4205 EV Pricing	308 H2 Wetstock Mgt	
Payment	Payments & Loyalty	329 Update P2F/H2H standards	328 POS-EPS API for IFSF	
	OEM In-Car Payments	332 Closed Loop API Update 2	101 Open Loop payment API	201 Explore In-Car payments & loyalty
Mobility	Mobile Experience		331 Mobile Payment 2FA	
	Reservation Services	206 Explore Advance Orders & Reservations	335 Implement Advance Orders & Res.	
APIs	API Test Tools	326 Pilot Manual Certification Process	336 Evaluate Automated Cert Tool	322 Develop Mobile API test simulator
	API Conversions	4211 LON API Converter		
Communications		4220/1/2 Ways of Working Initiatives	Scan 2026	Scan 2026
		Enhance Ref Arch	Roadmap Refresh	Roadmap Refresh
				Scan/Roadmap

IFSF Strategy Materials & Resources

Feedback
always very
welcome!



[IFSF 2026-28 Roadmap, including OpenRetailing initiatives](#)



[IFSF Reference Architecture](#) *



[IFSF Horizon Scan – Cloud Platforms](#)



[IFSF Horizon Scan – Multi-Services at Site](#)



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CONNECTED
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